ATTACHMENT XIX

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Block 2333, Lot 1
Bronx, Bronx County, NY
NYSDEC BCP # C203057

SDG: 1501878

5 Soil Samples

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

December 2015

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1501878

The data associated with this Sample Delivery Group (SDG) 1501878, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/12/15
Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx , NY
SAMPLING DATE:	October 19, 2015
SAMPLE TYPE:	5 soil samples
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1501878

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for five soil samples collected on October 19, 2015. These samples were analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1501878. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1501878, five samples were analyzed and results were reported for 940 analytes. Eighteen results were rejected. Even though some results were flagged with a "J" as estimated, all other results (98 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	Several compounds	none	MS/MSD > QC limit	Matrix interference suspected/LCS within QC limits
All samples	Methylene Chloride	J detects	LCS > QC limit	Detected results are estimated
All samples	Acetone Methylene Chloride	B	Method Blank contamination	Sample results up to 10X blank level have been flagged with a "B". Common lab contaminants.
EP-1(1501878-01)	All analytes	J detects/UJ non-detects	IS#1,2,3, and 4 <50 % QC limit	All results are estimated.
EP-2(1501878-02) EP-3(1501878-03) EP-4(1501878-04)	Isopropylbenzene 1,1,2,2-Tetrchloroethane 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene 2-Chlorotoluene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene p-Isopropylbenzene 1,2,4-Trichlorobenzene 1,2-Dibromo-3-chloropropane 1,2-Dichlorobenzene 1,3-Dichlorobenzene	J detects/UJ non-detects	IS# 4 <50 % QC limit	Results are estimated.

	1,4-Dichlorobenzene Naphthalene n-Butylbenzene Hexachlorobutadiene			
EP-5(1501878-05)	All analytes listed above plus: 2-Hexanone 1,3-Dichloropropane Tetrachloroethene Dibromochloromethane Ethylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane m,p-Xylene o-Xylene Styrene Bromoform	J detects/UJ non-detects	IS# 3 and 4 <50 % QC limit	Results are estimated.

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	Several compounds	none	MS/MSD > QC limit	Matrix interference suspected/LCS within QC limits
All samples	Several compounds	none	MS/MSD < QC limit	Matrix interference suspected/LCS within QC limits
All samples	4-Chloroanailine	"UJ"	LCS < QC limit	All samples non-detect

All samples	2,4-Dinitrophenol	J detects	ICV > 40 %	All samples non-detect
All samples	2,4-Dinitrophenol	J detects	CCV > 40 %	All samples non-detect
EP-1(1501878-01) EP-1(1501878-01RE)	Benzo(a)anthracene bis(2-ethylhexyl)phthalate Butyl benzyl phthalate Chrysene 3,3'-Dichlorobenzidine Pyrene Di-n-octyl phthalate Indeneo(1,2,3-cd)pyrene Benzo(b)fluoranthene Benzo(k)fluorene Benzo(g,h,i)perylene Benzo(a)pyrene Dibenz(a,h)anthracene	Non-detects "R"	Internal Standard areas for: Chrysene-d12 and Perlene-d12 < 50 %	Thirteen compounds have been rejected.

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	Several compounds	none	MS/MSD > QC limit	Matrix interference suspected/LCS within QC limits
All samples	Methoxychlor	none	MS/MSD < QC limit	Matrix interference suspected/LCS within QC limits

All samples	Endrin Ketone	none	LCS > QC limit	All samples non-detect

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	Potassium	R all data	% Recovery > 200 %	Five results are rejected.
All samples	Manganese	J detects/UJ non-detects	% Recovery < QC limit	All results are estimated.

Table 6-6 Total Cyanide

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

03 November 2015

AAR Work Order: 1501878

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 10/20/2015 15:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th St, Bronx, NY, 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #:	732-223-2225
OFFICE FAX #:	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	d.harm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #:	
AAR WORK ORDER #:	1501878
P.O. #:	

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-1	10/19/15 10:15+11:30	S	14.5-15	4	G	✓	✓	-01
EP-2	10/19/15 10:20+11:35	S	14.5-15	4	G	✓	✓	-02
EP-3	10/19/15 10:27+11:40	S	14.5-15	4	G	✓	✓	-03
EP-4	10/19/15 10:35+11:45	S	14.5-15	4	G	✓	✓	-04
EP-5	10/19/15 10:40-11:50	S	14.5-15	4	G	✓	✓	-05

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES: EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: John Ignacio	Print Name: John Ignacio	Print Name: K. Muniz
Signature: Monica Norton	Signature: [signature]	Signature: [signature]	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10/20/15	Time: 10:10	Date Received: 10/20/15	Time: 15:15

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Bernie O'Gara

From: "Monica Norton" <mnorton@brinkenv.com>
To: "'Bernie O'Gara'" <bernie@accreditedanalytical.com>
Cc: "'Sean Harrison'" <sharrison@brinkenv.com>
Sent: Wednesday, October 21, 2015 3:55 PM
Subject: Chain of Custody Revision - 255 E. 138th Street - 10BR188

Bernie,

For the COC that was submitted yesterday, October 20th, 2015 for the project located at 255 East 138th Street, Bronx, NY (Name: 10BR188), please change the sample time for each EP sample to be the second time (i.e. EP-1 sampled at 11:30, EP-2 sampled at 11:35, EP-3 sampled at 11:40, etc...).

Please let me know if you have any other questions.

Thanks!

Monica

Monica Norton
mnorton@brinkenv.com
BRINKERHOFF
ENVIRONMENTAL SERVICES, INC.
1805 Atlantic Avenue
Manasquan, NJ 08736
Phone: 732-223-2225
Fax: 732-223-3666
Web: www.BrinkEnv.com

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 5 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 10/20/2015 3:15:00 PM.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2622 and B5J2718 recovered outside control limits for certain analytes. These analytes were recovered outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the Volatile Organic analyses, the MS/MSD for Batch B5J2622 and B5J2718 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits; therefore, no further action required.

In the Volatile Organic analyses, the methylene chloride result reported for all samples is due to laboratory contamination.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2601 recovered outside control limits for certain analytes. These analytes were recovered outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5J2601 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Pesticide/PCB analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2301 recovered outside control limits for certain analytes. These analytes were recovered outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the Pesticide/PCB analyses, the MS/MSD for Batch B5J2301 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/03/2015 15:48

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-1	1501878-01	Soil	10/19/2015 11:30	10/20/2015 15:15
EP-2	1501878-02	Soil	10/19/2015 11:35	10/20/2015 15:15
EP-3	1501878-03	Soil	10/19/2015 11:40	10/20/2015 15:15
EP-4	1501878-04	Soil	10/19/2015 11:45	10/20/2015 15:15
EP-5	1501878-05	Soil	10/19/2015 11:50	10/20/2015 15:15

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
E	Concentration exceeds calibration range
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/03/2015 15:48

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	Reported: 11/03/2015 15:48

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND UJ	37.8	63.0	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	12.6	63.0	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
67-64-1	**Acetone**	637 J	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND UJ	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
74-87-3	Chloromethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
74-83-9	Bromomethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-00-3	Chloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	75.1 J B	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND UJ	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
78-93-3	2-Butanone	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
67-66-3	Chloroform	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
71-43-2	Benzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U

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Daniel Miguel, Technical Director

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Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	Reported:
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND W5	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-88-3	Toluene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	12.6	25.2	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
95-47-6	o-Xylene	ND	12.6	25.2	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
100-42-5	Styrene	ND	6.30	25.2	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-25-2	Bromoform	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND UJ	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*114 %*	*70-130*		*10/26/15 15:22*	*10/26/15 15:22/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*101 %*	*70-130*		*10/26/15 15:22*	*10/26/15 15:22/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*76 %*	*70-130*		*10/26/15 15:22*	*10/26/15 15:22/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
108-95-2	Phenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	Reported:
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
78-59-1	Isophorone	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	186	747	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND UJ	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	74.7	747	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U

Accredited Analytical Resources LLC

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MXP 12/11/15

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	Reported:
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
86-73-7	Fluorene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
120-12-7	Anthracene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
129-00-0	Pyrene	~~ND~~ R	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	~~ND~~	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	~~ND~~	186	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	~~ND~~	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	~~ND~~	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
218-01-9	Chrysene	~~ND~~	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	~~ND~~	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	~~ND~~	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	~~ND~~	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	~~ND~~	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	~~ND~~	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	~~ND~~	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	~~ND~~	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*35 %*	*30-130*		*10/26/15 06:03*	*10/27/15 16:46/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*40 %*	*30-130*		*10/26/15 06:03*	*10/27/15 16:46/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*33 %*	*30-130*		*10/26/15 06:03*	*10/27/15 16:46/JMM*	*EPA 8270*	

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MXA 12/11/15

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: 2-Fluorobiphenyl		*37 %*		*30-130*			*10/26/15 06:03*	*10/27/15 16:46/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol		*49 %*		*30-130*			*10/26/15 06:03*	*10/27/15 16:46/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14		*90 %*		*30-130*			*10/26/15 06:03*	*10/27/15 16:46/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	14.9	14.9	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	74.7	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*75.5 %*	*30-150*		*10/23/15 06:21*	*10/23/15 15:36/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*78.2 %*	*30-150*		*10/23/15 06:21*	*10/23/15 15:36/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*72.1 %*	*30-150*		*10/23/15 06:21*	*10/23/15 15:36/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*75.3 %*	*30-150*		*10/23/15 06:21*	*10/23/15 15:36/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**7420**	44.8	44.8	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-36-0	Antimony	ND	8.97	8.97	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.58**	2.24	2.24	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-39-3	**Barium**	**57.1**	44.8	44.8	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-41-7	Beryllium	ND	1.12	1.12	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	1.12	1.12	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-70-2	**Calcium**	**11300**	56.1	56.1	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-47-3	**Chromium**	**15.6**	4.48	4.48	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-48-4	Cobalt	ND	11.2	11.2	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-50-8	**Copper**	**16.2**	6.73	6.73	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7439-89-6	**Iron**	**13300**	56.1	56.1	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7439-92-1	**Lead**	**12.3**	2.24	2.24	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7439-95-4	**Magnesium**	**6000**	112	112	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7439-96-5	**Manganese**	**373** J	4.48	4.48	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**12.9**	8.97	8.97	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-09-7	**Potassium**	~~1410~~ R	112	112	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7782-49-2	Selenium	ND	8.97	8.97	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-22-4	Silver	ND	1.12	1.12	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-23-5	**Sodium**	**594**	112	112	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-28-0	Thallium	ND	3.36	6.73	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**25.1**	11.2	11.2	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-66-6	**Zinc**	**44.8**	13.5	13.5	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.168	0.168	mg/kg dry	1	10/26/15 08:59	10/26/15 14:04/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	2.24	2.24	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**44.6**	0.100	0.100	%	1	10/22/15 09:30	10/23/15 09:45/CLD	SM 2540 G	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
Sample Prepared by Method:EPA 5035A										
107-02-8	Acrolein	ND	22.0	36.7	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	7.33	36.7	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
67-64-1	**Acetone**	**17.3** B	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
74-87-3	Chloromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
74-83-9	Bromomethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-00-3	Chloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**24.9** JB	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
78-93-3	2-Butanone	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
67-66-3	Chloroform	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
71-43-2	Benzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	Reported:
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-88-3	Toluene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	7.33	14.7	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
95-47-6	o-Xylene	ND	7.33	14.7	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
100-42-5	Styrene	ND	3.67	14.7	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-25-2	Bromoform	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U

Accredited Analytical Resources LLC

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mep 12/11/15

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND UJ	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*115 %*	*70-130*		*10/26/15 15:52*	*10/26/15 15:52/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*101 %*	*70-130*		*10/26/15 15:52*	*10/26/15 15:52/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*81 %*	*70-130*		*10/26/15 15:52*	*10/26/15 15:52/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
108-95-2	Phenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U

Accredited Analytical Resources LLC

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MMP 12/11/15

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
78-59-1	Isophorone	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	134	537	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND WJ	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	53.7	537	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

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Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
7005-72-3	4-Chlorophenyl-phenylether	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
86-73-7	Fluorene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
120-12-7	Anthracene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
129-00-0	Pyrene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	134	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
117-81-7	**bis(2-ethylhexyl)phthalate**	**65.1**	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	J
218-01-9	Chrysene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*68 %*	*30-130*		*10/26/15 06:03*	*10/28/15 15:28/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*74 %*	*30-130*		*10/26/15 06:03*	*10/28/15 15:28/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*62 %*	*30-130*		*10/26/15 06:03*	*10/28/15 15:28/JMM*	*EPA 8270*	

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: 2-Fluorobiphenyl		*67 %*		*30-130*			*10/26/15 06:03*	*10/28/15 15:28/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol		*101 %*		*30-130*			*10/26/15 06:03*	*10/28/15 15:28/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14		*113 %*		*30-130*			*10/26/15 06:03*	*10/28/15 15:28/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	10.7	10.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	53.7	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*84.3 %*	*30-150*		*10/23/15 06:21*	*10/23/15 16:07/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*92.6 %*	*30-150*		*10/23/15 06:21*	*10/23/15 16:07/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*85.9 %*	*30-150*		*10/23/15 06:21*	*10/23/15 16:07/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*92.5 %*	*30-150*		*10/23/15 06:21*	*10/23/15 16:07/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**12200**	32.3	32.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-36-0	Antimony	ND	6.45	6.45	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**3.14**	1.61	1.61	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-39-3	**Barium**	**61.6**	32.3	32.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.806	0.806	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	U
7440-43-9	**Cadmium**	**0.958**	0.806	0.806	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-70-2	**Calcium**	**24400**	40.3	40.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-47-3	**Chromium**	**20.9**	3.23	3.23	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-48-4	**Cobalt**	**11.1**	8.06	8.06	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-50-8	**Copper**	**19.5**	4.84	4.84	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7439-89-6	**Iron**	**21500**	40.3	40.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7439-92-1	**Lead**	**17.1**	1.61	1.61	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7439-95-4	**Magnesium**	**15700**	80.6	80.6	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7439-96-5	**Manganese**	**835** J	3.23	3.23	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**17.6**	6.45	6.45	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-09-7	**Potassium**	~~2220~~ R	80.6	80.6	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7782-49-2	Selenium	ND	6.45	6.45	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.806	0.806	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	U
7440-23-5	**Sodium**	**343**	80.6	80.6	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.42	4.84	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**32.8**	8.06	8.06	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-66-6	**Zinc**	**65.7**	9.68	9.68	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.121	0.121	mg/kg dry	1	10/26/15 08:59	10/26/15 14:06/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.61	1.61	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**62.0**	0.100	0.100	%	1	10/22/15 09:30	10/23/15 09:45/CLD	SM 2540 G	

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Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	Reported: 11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	17.3	28.8	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	5.77	28.8	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
67-64-1	**Acetone**	14.4 B	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	24.2 JB	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
78-93-3	2-Butanone	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
71-43-2	Benzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
75-27-4	Bromodichloromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-88-3	Toluene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-90-7	**Chlorobenzene**	47.4	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	5.77	11.5	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
95-47-6	o-Xylene	ND	5.77	11.5	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
100-42-5	Styrene	ND	2.88	11.5	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND VJ	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
98-06-6	tert-Butylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*123 %*	*70-130*		*10/26/15 16:22*	*10/26/15 16:22/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*99 %*	*70-130*		*10/26/15 16:22*	*10/26/15 16:22/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*74 %*	*70-130*		*10/26/15 16:22*	*10/26/15 16:22/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
108-95-2	Phenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	Reported: 11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
621-64-7	N-Nitroso-di-n-propylamine	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
67-72-1	Hexachloroethane	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
78-59-1	Isophorone	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	105	420	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND AS	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	42.0	420	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U

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MMP 12/11/15

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
84-66-2	Diethyl phthalate	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
86-73-7	Fluorene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**42.1**	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	J
120-12-7	Anthracene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
129-00-0	**Pyrene**	**60.6**	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
117-81-7	**bis(2-ethylhexyl)phthalate**	**53.9**	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	J
218-01-9	Chrysene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*70 %*	*30-130*		*10/26/15 06:03*	*10/27/15 15:14/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*76 %*	*30-130*		*10/26/15 06:03*	*10/27/15 15:14/JMM*	*EPA 8270*	

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Nitrobenzene-d5				*64 %*	*30-130*		*10/26/15 06:03*	*10/27/15 15:14/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*65 %*	*30-130*		*10/26/15 06:03*	*10/27/15 15:14/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*84 %*	*30-130*		*10/26/15 06:03*	*10/27/15 15:14/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*96 %*	*30-130*		*10/26/15 06:03*	*10/27/15 15:14/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	8.41	8.41	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	42.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
EPA Method SW846 8081/8082										
11104-28-2	Aroclor-1221	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*72.9 %*	*30-150*		*10/23/15 06:21*	*10/23/15 16:37/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*80.9 %*	*30-150*		*10/23/15 06:21*	*10/23/15 16:37/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*77.1 %*	*30-150*		*10/23/15 06:21*	*10/23/15 16:37/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*82.7 %*	*30-150*		*10/23/15 06:21*	*10/23/15 16:37/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8550**	25.3	25.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.05	5.05	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-38-2	Arsenic	ND	1.26	1.26	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-39-3	**Barium**	**40.7**	25.3	25.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.631	0.631	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.631	0.631	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-70-2	**Calcium**	**1660**	31.6	31.6	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-47-3	**Chromium**	**12.4**	2.53	2.53	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-48-4	**Cobalt**	**7.57**	6.31	6.31	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-50-8	**Copper**	**16.8**	3.79	3.79	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7439-89-6	**Iron**	**11500**	31.6	31.6	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7439-92-1	**Lead**	**8.40**	1.26	1.26	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7439-95-4	**Magnesium**	**4080**	63.1	63.1	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7439-96-5	**Manganese**	**96.3** J	2.53	2.53	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-02-0	**Nickel**	**14.6**	5.05	5.05	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-09-7	**Potassium**	~~**1120**~~ R	63.1	63.1	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.05	5.05	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.631	0.631	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-23-5	**Sodium**	**173**	63.1	63.1	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.89	3.79	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**12.8**	6.31	6.31	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-66-6	**Zinc**	**46.2**	7.58	7.58	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.0947	0.0947	mg/kg dry	1	10/26/15 08:59	10/26/15 14:08/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.26	1.26	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**79.2**	0.100	0.100	%	1	10/22/15 09:30	10/23/15 09:45/CLD	SM 2540 G	

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MMP 12/11/15

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	17.9	29.8	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	5.96	29.8	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
67-64-1	**Acetone**	**10.2** B	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**25.6** JB	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
78-93-3	2-Butanone	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
71-43-2	Benzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-88-3	Toluene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	5.96	11.9	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
95-47-6	o-Xylene	ND	5.96	11.9	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
100-42-5	Styrene	ND	2.98	11.9	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND UJ	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	Reported: 11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*119 %*	*70-130*		*10/26/15 16:51*	*10/26/15 16:51/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*99 %*	*70-130*		*10/26/15 16:51*	*10/26/15 16:51/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*76 %*	*70-130*		*10/26/15 16:51*	*10/26/15 16:51/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
108-95-2	Phenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

MSP 12/11/15

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	Reported: 11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
78-59-1	Isophorone	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	112	449	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND VJ	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	44.9	449	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
7005-72-3	4-Chlorophenyl-phenylether	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
86-73-7	Fluorene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
120-12-7	Anthracene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
129-00-0	Pyrene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	112	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
218-01-9	Chrysene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*80 %*	*30-130*		*10/26/15 06:03*	*10/28/15 16:14/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*86 %*	*30-130*		*10/26/15 06:03*	*10/28/15 16:14/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*72 %*	*30-130*		*10/26/15 06:03*	*10/28/15 16:14/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	Reported: 11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: 2-Fluorobiphenyl				*74 %*	*30-130*		*10/26/15 06:03*	*10/28/15 16:14/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*99 %*	*30-130*		*10/26/15 06:03*	*10/28/15 16:14/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*123 %*	*30-130*		*10/26/15 06:03*	*10/28/15 16:14/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	8.98	8.98	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	44.9	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*74.9 %*	*30-150*		*10/23/15 06:21*	*10/23/15 17:08/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*84.8 %*	*30-150*		*10/23/15 06:21*	*10/23/15 17:08/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*82.7 %*	*30-150*		*10/23/15 06:21*	*10/23/15 17:08/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*84.2 %*	*30-150*		*10/23/15 06:21*	*10/23/15 17:08/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**7630**	27.0	27.0	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.39	5.39	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.25**	1.35	1.35	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-39-3	Barium	ND	27.0	27.0	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-41-7	Beryllium	ND	0.674	0.674	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.674	0.674	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-70-2	**Calcium**	**2000**	33.7	33.7	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-47-3	**Chromium**	**11.8**	2.70	2.70	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-48-4	**Cobalt**	**7.33**	6.74	6.74	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-50-8	**Copper**	**19.8**	4.04	4.04	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7439-89-6	**Iron**	**11500**	33.7	33.7	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7439-92-1	**Lead**	**8.19**	1.35	1.35	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7439-95-4	**Magnesium**	**3910**	67.4	67.4	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7439-96-5	**Manganese**	**101** J	2.70	2.70	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	

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MMP 12/11/15

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	Reported: 11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**15.6**	5.39	5.39	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-09-7	**Potassium**	~~975~~ R	67.4	67.4	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.39	5.39	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.674	0.674	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-23-5	**Sodium**	**203**	67.4	67.4	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.02	4.04	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**12.8**	6.74	6.74	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-66-6	**Zinc**	**53.4**	8.09	8.09	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.101	0.101	mg/kg dry	1	10/26/15 08:59	10/26/15 14:11/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.35	1.35	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**74.2**	0.100	0.100	%	1	10/22/15 09:30	10/23/15 09:45/CLD	SM 2540 G	

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	Reported: 11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	115	192	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	38.5	192	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
67-64-1	**Acetone**	**3460**	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
74-87-3	Chloromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
74-83-9	Bromomethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-00-3	Chloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**127** JB	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
78-93-3	2-Butanone	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
67-66-3	Chloroform	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
71-43-2	Benzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U

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MKP 12/10/15

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-88-3	Toluene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
591-78-6	2-Hexanone	ND UJ	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	38.5	76.9	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
95-47-6	o-Xylene	ND	38.5	76.9	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
100-42-5	Styrene	ND	19.2	76.9	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-25-2	Bromoform	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	Reported: 11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND VJ	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*119 %*	*70-130*		*10/26/15 17:22*	*10/26/15 17:22/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*90 %*	*70-130*		*10/26/15 17:22*	*10/26/15 17:22/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*74 %*	*70-130*		*10/26/15 17:22*	*10/26/15 17:22/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
108-95-2	Phenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	Reported: 11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
78-59-1	Isophorone	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	364	1460	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND VJ	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	146	1460	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
86-73-7	Fluorene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
120-12-7	Anthracene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
129-00-0	Pyrene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	364	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
218-01-9	Chrysene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*63 %*	*30-130*		*10/26/15 06:03*	*10/27/15 16:00/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*71 %*	*30-130*		*10/26/15 06:03*	*10/27/15 16:00/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*58 %*	*30-130*		*10/26/15 06:03*	*10/27/15 16:00/JMM*	*EPA 8270*	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: 2-Fluorobiphenyl				*61 %*	*30-130*		*10/26/15 06:03*	*10/27/15 16:00/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*81 %*	*30-130*		*10/26/15 06:03*	*10/27/15 16:00/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*102 %*	*30-130*		*10/26/15 06:03*	*10/27/15 16:00/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	29.2	29.2	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	146	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*72.6 %*	*30-150*		*10/23/15 06:21*	*10/23/15 17:39/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*78.2 %*	*30-150*		*10/23/15 06:21*	*10/23/15 17:39/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*83.1 %*	*30-150*		*10/23/15 06:21*	*10/23/15 17:39/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*84.4 %*	*30-150*		*10/23/15 06:21*	*10/23/15 17:39/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**4070**	87.7	87.7	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7440-36-0	Antimony	ND	17.5	17.5	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-38-2	Arsenic	ND	4.39	4.39	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-39-3	**Barium**	**94.3**	87.7	87.7	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7440-41-7	Beryllium	ND	2.19	2.19	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	2.19	2.19	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-70-2	**Calcium**	**28800**	110	110	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7440-47-3	**Chromium**	**11.9**	8.77	8.77	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7440-48-4	Cobalt	ND	21.9	21.9	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-50-8	**Copper**	**31.5**	13.2	13.2	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7439-89-6	**Iron**	**7500**	110	110	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7439-92-1	**Lead**	**19.7**	4.39	4.39	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7439-95-4	**Magnesium**	**10300**	219	219	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7439-96-5	**Manganese**	**421** J	8.77	8.77	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
Total Metals by EPA Method SW846 6010										
7440-02-0	Nickel	ND	17.5	17.5	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-09-7	**Potassium**	~~906~~ R	219	219	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7782-49-2	Selenium	ND	17.5	17.5	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-22-4	Silver	ND	2.19	2.19	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-23-5	**Sodium**	720	219	219	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7440-28-0	Thallium	ND	6.58	13.2	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-62-2	Vanadium	ND	21.9	21.9	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-66-6	Zinc	ND	26.3	26.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.329	0.329	mg/kg dry	1	10/26/15 08:59	10/26/15 14:13/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	4.39	4.39	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**22.8**	0.100	0.100	%	1	10/22/15 09:30	10/23/15 09:45/CLD	SM 2540 G	

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Daniel Miguel, Technical Director

MKP 12/11/15

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5J2301	Prep Method:	EPA 3550B
Percent Solids:	52.40	Laboratory ID:	B5J2301-MS1
Column:	1	Client Sample ID:	1501840-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
alpha-BHC	19.1	ND	28.8	151	*	30 - 150
beta-BHC	19.1	ND	24.8	130		30 - 150
delta-BHC	19.1	ND	31.4	164	*	30 - 150
gamma-BHC [Lindane]	19.1	ND	26.7	140		30 - 150
Heptachlor	19.1	ND	12.2	63.7		30 - 150
Aldrin	19.1	ND	29.5	155	*	30 - 150
Heptachlor Epoxide	19.1	ND	33.7	177	*	30 - 150
Endosulfan I	19.1	ND	21.6	113		30 - 150
Dieldrin	19.1	ND	44.9	235	*	30 - 150
4,4'-DDE	19.1	ND	32.2	169	*	30 - 150
Endrin	19.1	ND	17.0	89.3		30 - 150
Endosulfan II	19.1	ND	33.4	175	*	30 - 150
4,4'-DDD	19.1	ND	37.2	195	*	30 - 150
Endosulfan sulfate	19.1	ND	16.0	84.0		30 - 150
4,4'-DDT	19.1	ND	13.9	72.7		30 - 150
Methoxychlor	19.1	ND	3.44	18.0	*	30 - 150
Endrin ketone	19.1	ND	25.8	135		30 - 150
Endrin aldehyde	19.1	ND	24.6	129		30 - 150
alpha-Chlordane	19.1	ND	37.7	198	*	30 - 150
gamma-Chlordane	19.1	ND	39.2	206	*	30 - 150

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5J2301	Prep Method:	EPA 3550B
Percent Solids:	52.40	Laboratory ID:	B5J2301-MSD1
Column:	1	Client Sample ID:	1501840-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	19.1	27.0	141		6.61	30	30 - 150
beta-BHC	19.1	22.9	120		8.00	30	30 - 150
delta-BHC	19.1	28.9	151	*	8.24	30	30 - 150
gamma-BHC [Lindane]	19.1	25.4	133		5.13	30	30 - 150
Heptachlor	19.1	11.3	59.3		7.05	30	30 - 150
Aldrin	19.1	28.1	147		5.08	30	30 - 150
Heptachlor Epoxide	19.1	31.8	167	*	5.83	30	30 - 150
Endosulfan I	19.1	20.7	108		4.22	30	30 - 150
Dieldrin	19.1	47.4	248	*	5.38	30	30 - 150
4,4'-DDE	19.1	32.1	168	*	0.198	30	30 - 150
Endrin	19.1	15.8	83.0		7.35	30	30 - 150
Endosulfan II	19.1	30.9	162	*	7.92	30	30 - 150
4,4'-DDD	19.1	34.4	180	*	7.83	30	30 - 150
Endosulfan sulfate	19.1	16.5	86.7		3.13	30	30 - 150
4,4'-DDT	19.1	13.5	70.7		2.79	30	30 - 150
Methoxychlor	19.1	3.37	17.7	*	1.87	30	30 - 150
Endrin ketone	19.1	24.5	128		5.31	30	30 - 150
Endrin aldehyde	19.1	23.1	121		6.40	30	30 - 150
alpha-Chlordane	19.1	38.3	201	*	1.51	30	30 - 150
gamma-Chlordane	19.1	40.1	210	*	2.24	30	30 - 150

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LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Prep Method:	EPA 3550B
Prep Batch:	B5J2301	Lab Sample ID:	B5J2301-BS1
Column:	1		

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
alpha-BHC	10.0	11.7	117	40 - 140
beta-BHC	10.0	11.0	110	40 - 140
delta-BHC	10.0	12.8	128	40 - 140
gamma-BHC [Lindane]	10.0	12.2	122	40 - 140
Heptachlor	10.0	11.9	119	40 - 140
Aldrin	10.0	12.6	126	40 - 140
Heptachlor Epoxide	10.0	13.2	132	40 - 140
Endosulfan I	10.0	11.3	113	40 - 140
Dieldrin	10.0	12.2	122	40 - 140
4,4'-DDE	10.0	12.4	124	40 - 140
Endrin	10.0	11.9	119	40 - 140
Endosulfan II	10.0	12.8	128	40 - 140
4,4'-DDD	10.0	11.9	119	40 - 140
Endosulfan sulfate	10.0	11.6	116	40 - 140
4,4'-DDT	10.0	11.0	110	40 - 140
Methoxychlor	10.0	12.8	128	40 - 140
Endrin ketone	10.0	14.9	149 *	40 - 140
Endrin aldehyde	10.0	13.6	136	40 - 140
alpha-Chlordane	10.0	13.1	131	40 - 140
gamma-Chlordane	10.0	12.8	128	40 - 140

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	87.00	Laboratory ID:	B5J2601-MS1
		Client Sample ID:	1501903-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Pyridine	1920	ND	1400	73	20 - 160
N-Nitrosodimethylamine	1920	ND	1470	77	20 - 160
Aniline	1920	ND	1450	75	20 - 160
Phenol	1920	ND	1840	96	20 - 160
bis(2-chloroethyl)ether	1920	ND	1770	92	70 - 130
2-Chlorophenol	1920	ND	1680	88	70 - 130
1,3-Dichlorobenzene	1920	ND	1700	89	70 - 130
1,4-Dichlorobenzene	1920	ND	1700	89	70 - 130
Benzyl alcohol	1920	ND	1580	83	20 - 160
1,2-Dichlorobenzene	1920	ND	1690	88	70 - 130
2-Methylphenol	1920	ND	1620	85	20 - 160
bis(2-chloroisopropyl)ether	1920	ND	1930	100	70 - 130
3 & 4-Methylphenol	1920	ND	1500	78	20 - 160
N-Nitroso-di-n-propylamine	1920	ND	1470	77	70 - 130
Hexachloroethane	1920	ND	1360	71	20 - 160
Nitrobenzene	1920	ND	1640	86	70 - 130
Isophorone	1920	ND	1610	84	70 - 130
2-Nitrophenol	1920	ND	1640	86	70 - 130
2,4-Dimethylphenol	1920	ND	1670	87	70 - 130
bis(2-chloroethoxy)methane	1920	ND	1610	84	70 - 130
2,4-Dichlorophenol	1920	ND	1670	87	70 - 130
1,2,4-Trichlorobenzene	1920	ND	1620	85	70 - 130
Naphthalene	1920	ND	1660	87	70 - 130
4-Chloroaniline	1920	ND	564	29	20 - 160
Hexachlorobutadiene	1920	ND	1620	85	70 - 130
4-Chloro-3-methylphenol	1920	ND	1630	85	70 - 130
2-Methylnaphthylene	1920	ND	1640	86	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	87.00	Laboratory ID:	B5J2601-MS1
		Client Sample ID:	1501903-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Hexachlorocyclopentadiene	1920	ND	278	14	*	20 - 160
2,4,6-Trichlorophenol	1920	ND	1720	90		70 - 130
2,4,5-Trichlorophenol	1920	ND	1710	89		70 - 130
2-Chloronaphthalene	1920	ND	1580	82		70 - 130
2-Nitroaniline	1920	ND	1780	93		70 - 130
Dimethylphthalate	1920	ND	1700	89		70 - 130
Acenaphthylene	1920	70.5	1900	95		70 - 130
3-Nitroaniline	1920	ND	1350	70		70 - 130
Acenaphthene	1920	102	1840	91		70 - 130
2,4-Dinitrophenol	1920	ND	500	26		20 - 160
4-Nitrophenol	1920	ND	1720	90		20 - 160
Dibenzofuran	1920	43.7	1730	88		70 - 130
2,6-Dinitrotoluene	1920	ND	1680	88		70 - 130
2,4-Dinitrotoluene	1920	ND	1760	92		70 - 130
2,3,4,6-Tetrachlorophenol	1920	ND	1730	90		70 - 130
Diethyl phthalate	1920	ND	1670	87		70 - 130
4-Chlorophenyl-phenylether	1920	ND	1600	84		70 - 130
Fluorene	1920	112	1760	86		70 - 130
4-Nitroaniline	1920	ND	1700	89		70 - 130
4,6-Dinitro-2-methylphenol	1920	ND	546	28	*	70 - 130
Carbazole	1920	113	1930	95		70 - 130
N-Nitrosodiphenylamine	1920	ND	1630	85		20 - 160
Azobenzene	1920	ND	1970	103		70 - 130
4-Bromophenyl-phenylether	1920	ND	1640	86		70 - 130
Hexachlorobenzene	1920	ND	1600	84		70 - 130
Pentachlorophenol	1920	ND	1410	74		20 - 160
Phenanthrene	1920	1090	3280	114		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	87.00	Laboratory ID:	B5J2601-MS1
		Client Sample ID:	1501903-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Anthracene	1920	286	2130	96		70 - 130
Di-n-butyl phthalate	1920	38.7	1770	90		70 - 130
Fluoranthene	1920	1650	4290	138	*	70 - 130
Pyrene	1920	1760	5250	182	*	70 - 130
Butylbenzylphthalate	1920	39.5	2410	124		70 - 130
Benzo[a]anthracene	1920	859	3060	115		70 - 130
bis(2-ethylhexyl)phthalate	1920	105	2580	129		70 - 130
Chrysene	1920	1030	3290	118		70 - 130
Di-n-octyl phthalate	1920	ND	5610	293	*	70 - 130
Benzo[b]fluoranthene	1920	1050	4560	183	*	70 - 130
Benzo[k]fluoranthene	1920	630	3430	146	*	70 - 130
Benzo[a]pyrene	1920	819	3240	126		70 - 130
Indeno(1,2,3-cd)pyrene	1920	311	1140	43	*	70 - 130
Dibenzo(a,h)anthracene	1920	135	1000	45	*	70 - 130
Benzo[ghi]perylene	1920	301	990	36	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	87.00	Laboratory ID:	B5J2601-MSD1
		Client Sample ID:	1501903-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
Pyridine	1920	1200	63		15		30	20 - 160
N-Nitrosodimethylamine	1920	1220	64		18		30	20 - 160
Aniline	1920	1080	56		29		30	20 - 160
Phenol	1920	1550	81		17		30	20 - 160
bis(2-chloroethyl)ether	1920	1520	79		15		30	70 - 130
2-Chlorophenol	1920	1420	74		16		30	70 - 130
1,3-Dichlorobenzene	1920	1420	74		18		30	70 - 130
1,4-Dichlorobenzene	1920	1410	74		19		30	70 - 130
Benzyl alcohol	1920	1300	68		19		30	20 - 160
1,2-Dichlorobenzene	1920	1390	73		19		30	70 - 130
2-Methylphenol	1920	1350	70		19		30	20 - 160
bis(2-chloroisopropyl)ether	1920	1620	84		17		30	70 - 130
3 & 4-Methylphenol	1920	1260	66		17		30	20 - 160
N-Nitroso-di-n-propylamine	1920	1300	68	*	12		30	70 - 130
Hexachloroethane	1920	1130	59		19		30	20 - 160
Nitrobenzene	1920	1360	71		18		30	70 - 130
Isophorone	1920	1340	70		18		30	70 - 130
2-Nitrophenol	1920	1310	69	*	22		30	70 - 130
2,4-Dimethylphenol	1920	1350	71		21		30	70 - 130
bis(2-chloroethoxy)methane	1920	1360	71		17		30	70 - 130
2,4-Dichlorophenol	1920	1380	72		19		30	70 - 130
1,2,4-Trichlorobenzene	1920	1340	70		19		30	70 - 130
Naphthalene	1920	1360	71		20		30	70 - 130
4-Chloroaniline	1920	341	18	*	49	*	30	20 - 160
Hexachlorobutadiene	1920	1310	68	*	21		30	70 - 130
4-Chloro-3-methylphenol	1920	1380	72		17		30	70 - 130
2-Methylnaphthylene	1920	1360	71		19		30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	87.00	Laboratory ID:	B5J2601-MSD1
		Client Sample ID:	1501903-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
Hexachlorocyclopentadiene	1920	227	12	*	20		30	20 - 160
2,4,6-Trichlorophenol	1920	1430	75		19		30	70 - 130
2,4,5-Trichlorophenol	1920	1410	74		19		30	70 - 130
2-Chloronaphthalene	1920	1300	68	*	20		30	70 - 130
2-Nitroaniline	1920	1470	77		19		30	70 - 130
Dimethylphthalate	1920	1430	75		17		30	70 - 130
Acenaphthylene	1920	1510	75		23		30	70 - 130
3-Nitroaniline	1920	1070	56	*	23		30	70 - 130
Acenaphthene	1920	1480	72		22		30	70 - 130
2,4-Dinitrophenol	1920	328	17	*	42	*	30	20 - 160
4-Nitrophenol	1920	1370	72		22		30	20 - 160
Dibenzofuran	1920	1400	71		21		30	70 - 130
2,6-Dinitrotoluene	1920	1380	72		20		30	70 - 130
2,4-Dinitrotoluene	1920	1420	74		21		30	70 - 130
2,3,4,6-Tetrachlorophenol	1920	1390	73		22		30	70 - 130
Diethyl phthalate	1920	1350	70		21		30	70 - 130
4-Chlorophenyl-phenylether	1920	1300	68	*	21		30	70 - 130
Fluorene	1920	1440	69	*	20		30	70 - 130
4-Nitroaniline	1920	1420	74		18		30	70 - 130
4,6-Dinitro-2-methylphenol	1920	200	10	*	93	*	30	70 - 130
Carbazole	1920	1540	74		23		30	70 - 130
N-Nitrosodiphenylamine	1920	1300	68		23		30	20 - 160
Azobenzene	1920	1580	82		22		30	70 - 130
4-Bromophenyl-phenylether	1920	1320	69	*	22		30	70 - 130
Hexachlorobenzene	1920	1290	67	*	22		30	70 - 130
Pentachlorophenol	1920	1120	58		23		30	20 - 160
Phenanthrene	1920	2540	76		26		30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	87.00	Laboratory ID:	B5J2601-MSD1
		Client Sample ID:	1501903-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
Anthracene	1920	1710	74		22		30	70 - 130
Di-n-butyl phthalate	1920	1450	74		20		30	70 - 130
Fluoranthene	1920	3180	80		30	*	30	70 - 130
Pyrene	1920	4340	135	*	19		30	70 - 130
Butylbenzylphthalate	1920	2140	110		12		30	70 - 130
Benzo[a]anthracene	1920	2340	77		27		30	70 - 130
bis(2-ethylhexyl)phthalate	1920	2280	114		12		30	70 - 130
Chrysene	1920	2500	77		27		30	70 - 130
Di-n-octyl phthalate	1920	5660	295	*	0.9		30	70 - 130
Benzo[b]fluoranthene	1920	3480	127		27		30	70 - 130
Benzo[k]fluoranthene	1920	2800	113		20		30	70 - 130
Benzo[a]pyrene	1920	2550	90		24		30	70 - 130
Indeno(1,2,3-cd)pyrene	1920	862	29	*	28		30	70 - 130
Dibenzo(a,h)anthracene	1920	829	36	*	19		30	70 - 130
Benzo[ghi]perylene	1920	753	24	*	27		30	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5J2601	Lab Sample ID:	B5J2601-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.		QC LIMITS REC.
Pyridine	1670	1350	81		20 - 160
N-Nitrosodimethylamine	1670	1450	87		20 - 160
Aniline	1670	1360	82		20 - 160
Phenol	1670	1680	101		20 - 160
bis(2-chloroethyl)ether	1670	1610	97		70 - 130
2-Chlorophenol	1670	1540	93		70 - 130
1,3-Dichlorobenzene	1670	1480	89		70 - 130
1,4-Dichlorobenzene	1670	1480	89		70 - 130
Benzyl alcohol	1670	1470	88		20 - 160
1,2-Dichlorobenzene	1670	1470	88		70 - 130
2-Methylphenol	1670	1490	89		20 - 160
bis(2-chloroisopropyl)ether	1670	1800	108		70 - 130
3 & 4-Methylphenol	1670	1390	84		20 - 160
N-Nitroso-di-n-propylamine	1670	1450	87		70 - 130
Hexachloroethane	1670	1490	89		20 - 160
Nitrobenzene	1670	1500	90		70 - 130
Isophorone	1670	1530	92		70 - 130
2-Nitrophenol	1670	1530	92		70 - 130
2,4-Dimethylphenol	1670	1550	93		70 - 130
bis(2-chloroethoxy)methane	1670	1530	92		70 - 130
2,4-Dichlorophenol	1670	1480	89		70 - 130
1,2,4-Trichlorobenzene	1670	1420	85		70 - 130
Naphthalene	1670	1450	87		70 - 130
4-Chloroaniline	1670	648	39	*	70 - 130
Hexachlorobutadiene	1670	1400	84		70 - 130
4-Chloro-3-methylphenol	1670	1510	91		70 - 130
2-Methylnaphthylene	1670	1490	89		70 - 130
Hexachlorocyclopentadiene	1670	992	60		20 - 160

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501878
Project: 138th Street, Bronx, NY; 10BR188

Sequence: S5J2701

Instrument: GC/MS F
Calibration: 15J2801

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-1 (1501878-01)			*Lab File ID: F12091.D*			*Analyzed: 10/27/15 16:46*			
1,4-Dichlorobenzene-d4	92846	10.13	132956	10.14	70	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	413154	13.33	578816	13.35	71	50 - 200	-0.0200	+/-0.50	
Acenaphthene-d10	190288	17.85	288814	17.87	66	50 - 200	-0.0200	+/-0.50	
Phenanthrene-d10	350294	21.61	576836	21.64	61	50 - 200	-0.0300	+/-0.50	
Chrysene-d12	182195	28.43	430945	28.47	42	50 - 200	-0.0400	+/-0.50	*
Perylene-d12	130557	31.83	334455	31.87	39	50 - 200	-0.0400	+/-0.50	*

* Values outside of QC limits

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INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501878
Project: 138th Street, Bronx, NY; 10BR188

Calibration:	15J2801	Instrument:	GC/MS F
		Calibration Date:	10/14/2015 11:58:45AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	1.046911	9.03924		
4-Chloroaniline	0.4698055	3.957397		
Hexachlorobutadiene	0.1760276	3.718634	CCC (20)	
Caprolactam	0.1626493	9.438644		
4-Chloro-3-methylphenol	0.3365877	3.635553	CCC (20)	
2-Methylnaphthylene	0.697018	10.32335		
1,2,4,5-Tetrachlorobenzene	0.7846604	3.175806		
Hexachlorocyclopentadiene	0.2698404	26.71039	SPCC (0.05)	
2,4,6-Trichlorophenol	0.4396401	4.809339	CCC (20)	
2,4,5-Trichlorophenol	0.4343777	8.465463		
2-Chloronaphthalene	1.273224	9.135137		
1,1-Biphenyl	1.901611	12.61078		
2-Nitroaniline	0.4465861	3.27539		
Dimethylphthalate	1.571915	10.43119		
Acenaphthylene	2.112104	11.76371		
3-Nitroaniline	0.4648623	4.743253		
Acenaphthene	1.258578	11.18945	CCC (20)	
2,4-Dinitrophenol	0.1670239	68.69134	SPCC (0.05)	
4-Nitrophenol	0.1289473	34.71536	SPCC (0.05)	
Dibenzofuran	1.850723	7.017351		
2,6-Dinitrotoluene	0.4220418	4.567939		
2,4-Dinitrotoluene	0.5799641	3.417658		
2,3,4,6-Tetrachlorophenol	0.3782584	6.204434		
Diethyl phthalate	1.650577	14.88571		
4-Chlorophenyl-phenylether	0.6605373	9.298071		

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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client:	**BRINKERHOFF ENVIRONMENTAL**		
Work Order:	**1501878**		
Project:	**138th Street, Bronx, NY; 10BR188**		
Instrument ID:	GC/MS F	Calibration:	15J2801
Lab File ID:	F12094.D	Calibration Date:	10/14/15 11:58
Sequence:	S5J2814	Injection Date:	10/28/15
Lab Sample ID:	S5J2814-CCV1	Injection Time:	10:56

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	**TYPE**	**STD**	**CCV**	**ICAL**	**CCV**	**MIN (#)**	**CCV**	**LIMIT (#)**
2,4-Dichlorophenol	A	50.0	50.8	0.3034206	0.3084		1.6	20
1,2,4-Trichlorobenzene	A	50.0	48.8	0.3152609	0.3076188		-2.4	
Naphthalene	A	50.0	47.7	1.046911	0.9993418		-4.5	
4-Chloroaniline	A	50.0	51.1	0.4698055	0.4800003		2.2	
Hexachlorobutadiene	A	50.0	46.8	0.1760276	0.1646787		-6.4	20
Caprolactam	A	50.0	49.9	0.1626493	0.16233		-0.2	
4-Chloro-3-methylphenol	A	50.0	49.0	0.3365877	0.3295129		-2.1	20
2-Methylnaphthylene	A	50.0	47.3	0.697018	0.6597646		-5.3	
1,2,4,5-Tetrachlorobenzene	A	50.0	38.4	0.7846604	0.603195		-23.1	
Hexachlorocyclopentadiene	L	50.0	44.8	0.2698404	0.2957362	0.05	9.6	
2,4,6-Trichlorophenol	A	50.0	49.7	0.4396401	0.4366882		-0.7	20
2,4,5-Trichlorophenol	A	50.0	52.7	0.4343777	0.4580015		5.4	
2-Chloronaphthalene	A	50.0	46.5	1.273224	1.184093		-7.0	
1,1-Biphenyl	A	50.0	38.4	1.901611	1.462474		-23.1	
2-Nitroaniline	A	50.0	46.9	0.4465861	0.418539		-6.3	
Dimethylphthalate	A	50.0	48.7	1.571915	1.532248		-2.5	
Acenaphthylene	A	50.0	46.5	2.112104	1.965961		-6.9	
3-Nitroaniline	A	50.0	53.9	0.4648623	0.5012714		7.8	
Acenaphthene	A	50.0	47.2	1.258578	1.187022		-5.7	20
2,4-Dinitrophenol	L	50.0	43.6	0.1670239	0.2355458	0.05	41.0	
4-Nitrophenol	L	50.0	40.1	0.1289473	0.1318005	0.05	2.2	
Dibenzofuran	A	50.0	50.4	1.850723	1.863624		0.7	
2,6-Dinitrotoluene	A	50.0	50.7	0.4220418	0.427905		1.4	

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ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501878
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5J2622-BLK1	File ID:	D12785.D
Batch:	B5J2622	Prepared:	10/26/15 10:59	Analyzed:	10/26/15 10:59
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5J2611	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	2.37	1.00	2.00	
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	4.39	1.00	2.00	
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

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ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501878
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5J2718-BLK1	File ID:	D12811.D
Batch:	B5J2718	Prepared:	10/27/15 13:28	Analyzed:	10/27/15 13:28
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5J2714	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	2.33	1.00	2.00	
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	ND	1.00	2.00	U
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5J2622	Prep Method:	EPA 5035A
Percent Solids:	93.00	Laboratory ID:	B5J2622-MS1
		Client Sample ID:	1501906-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Acrolein	269	ND	286	107		40 - 160
Acrylonitrile	269	ND	301	112		70 - 130
Acetone	53.8	2.84	62.0	110		40 - 160
Dichlorodifluoromethane	53.8	ND	52.7	98		40 - 160
Chloromethane	53.8	ND	62.2	116		40 - 160
Vinyl chloride	53.8	ND	61.5	114		70 - 130
Bromomethane	53.8	ND	61.0	113		40 - 160
Chloroethane	53.8	ND	54.7	102		40 - 160
Trichlorofluoromethane	53.8	ND	57.5	107		40 - 160
Freon 113	53.8	ND	51.3	95		70 - 130
1,1-Dichloroethene	53.8	ND	60.7	113		70 - 130
Carbon disulfide	53.8	ND	60.2	112		70 - 130
Methyl Acetate	53.8	ND	66.8	124		70 - 130
Methylene Chloride	53.8	1.90	75.0	136	*	70 - 130
trans-1,2-Dichloroethene	53.8	ND	61.8	115		70 - 130
1,1-Dichloroethane	53.8	ND	63.1	117		70 - 130
2,2-Dichloropropane	53.8	ND	61.0	113		70 - 130
2-Butanone	53.8	ND	55.5	103		40 - 160
cis-1,2-Dichloroethene	53.8	ND	64.1	119		70 - 130
Chloroform	53.8	ND	60.2	112		70 - 130
Bromochloromethane	53.8	ND	60.9	113		70 - 130
Cyclohexane	53.8	ND	51.7	96		70 - 130
1,1,1-Trichloroethane	53.8	ND	59.9	111		70 - 130
t-Butyl alcohol	538	ND	625	116		40 - 160
1,1-Dichloropropene	53.8	ND	55.2	103		70 - 130
Carbon Tetrachloride	53.8	ND	53.2	99		70 - 130
1,2-Dichloroethane	53.8	ND	61.1	114		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5J2622	Prep Method:	EPA 5035A
Percent Solids:	93.00	Laboratory ID:	B5J2622-MS1
		Client Sample ID:	1501906-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Benzene	53.8	ND	59.3	110	70 - 130
Trichloroethene	53.8	ND	60.8	113	70 - 130
Methylcyclohexane	53.8	ND	44.7	83	70 - 130
1,2-Dichloropropane	53.8	ND	61.7	115	70 - 130
Bromodichloromethane	53.8	ND	60.2	112	70 - 130
Dibromomethane	53.8	ND	60.2	112	70 - 130
2-Chloroethyl vinyl ether	53.8	ND	61.4	114	40 - 160
cis-1,3-Dichloropropene	53.8	ND	61.7	115	70 - 130
Toluene	53.8	ND	56.9	106	70 - 130
trans-1,3-Dichloropropene	53.8	ND	62.1	116	70 - 130
1,1,2-Trichloroethane	53.8	ND	64.0	119	70 - 130
4-Methyl-2-pentanone	53.8	ND	59.9	111	40 - 160
1,2-Dibromoethane	53.8	ND	62.7	117	70 - 130
2-Hexanone	53.8	ND	53.1	99	40 - 160
1,3-Dichloropropane	53.8	ND	63.2	118	70 - 130
Tetrachloroethene	53.8	ND	51.9	97	70 - 130
Dibromochloromethane	53.8	ND	59.9	111	70 - 130
Ethylbenzene	53.8	ND	55.7	104	70 - 130
Chlorobenzene	53.8	ND	56.4	105	70 - 130
1,1,1,2-Tetrachloroethane	53.8	ND	58.0	108	70 - 130
m,p-Xylenes	108	ND	111	103	70 - 130
o-Xylene	108	ND	107	99	70 - 130
Styrene	108	ND	105	98	70 - 130
Bromoform	53.8	ND	58.8	109	70 - 130
Isopropylbenzene	53.8	ND	56.1	104	70 - 130
1,1,2,2-Tetrachloroethane	53.8	ND	63.3	118	70 - 130
1,2,3-Trichloropropane	53.8	ND	67.2	125	70 - 130

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5J2622	Prep Method:	EPA 5035A
Percent Solids:	93.00	Laboratory ID:	B5J2622-MS1
		Client Sample ID:	1501906-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
n-Propyl Benzene	53.8	ND	57.3	107	70 - 130
Bromobenzene	53.8	ND	59.9	111	70 - 130
1,3,5-Trimethylbenzene	53.8	ND	55.8	104	70 - 130
2-Chlorotoluene	53.8	ND	58.4	109	70 - 130
4-Chlorotoluene	53.8	ND	57.4	107	70 - 130
tert-Butylbenzene	53.8	ND	55.4	103	70 - 130
1,2,4-Trimethylbenzene	53.8	ND	55.7	104	70 - 130
sec-Butylbenzene	53.8	ND	52.8	98	70 - 130
p-Isopropyltoluene	53.8	ND	54.1	101	70 - 130
1,3-Dichlorobenzene	53.8	ND	54.8	102	70 - 130
1,4-Dichlorobenzene	53.8	ND	54.8	102	70 - 130
n-Butyl Benzene	53.8	ND	53.5	99	70 - 130
1,2-Dichlorobenzene	53.8	ND	56.3	105	70 - 130
1,2-Dibromo-3-chloropropane	53.8	ND	61.8	115	40 - 160
1,2,4-Trichlorobenzene	53.8	ND	48.8	91	70 - 130
Hexachlorobutadiene	53.8	ND	40.7	76	70 - 130
Naphthalene	53.8	ND	56.1	104	40 - 160
1,2,3-Trichlorobenzene	53.8	ND	48.8	91	70 - 130
Methyl tert-Butyl Ether	108	ND	119	110	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5J2622	Prep Method:	EPA 5035A
Percent Solids:	93.00	Laboratory ID:	B5J2622-MSD1
		Client Sample ID:	1501906-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Acrolein	269	240	89	18	30	40 - 160
Acrylonitrile	269	312	116	3	30	70 - 130
Acetone	53.8	66.6	119	7	30	40 - 160
Dichlorodifluoromethane	53.8	53.3	99	1	30	40 - 160
Chloromethane	53.8	61.7	115	0.8	30	40 - 160
Vinyl chloride	53.8	61.4	114	0.2	30	70 - 130
Bromomethane	53.8	61.8	115	1	30	40 - 160
Chloroethane	53.8	52.5	98	4	30	40 - 160
Trichlorofluoromethane	53.8	57.3	107	0.3	30	40 - 160
Freon 113	53.8	50.4	94	2	30	70 - 130
1,1-Dichloroethene	53.8	62.0	115	2	30	70 - 130
Carbon disulfide	53.8	59.5	111	1	30	70 - 130
Methyl Acetate	53.8	75.0	139 *	12	30	70 - 130
Methylene Chloride	53.8	79.3	144 *	6	30	70 - 130
trans-1,2-Dichloroethene	53.8	62.9	117	2	30	70 - 130
1,1-Dichloroethane	53.8	64.1	119	2	30	70 - 130
2,2-Dichloropropane	53.8	61.5	114	0.8	30	70 - 130
2-Butanone	53.8	61.2	114	10	30	40 - 160
cis-1,2-Dichloroethene	53.8	64.7	120	1	30	70 - 130
Chloroform	53.8	61.3	114	2	30	70 - 130
Bromochloromethane	53.8	65.8	122	8	30	70 - 130
Cyclohexane	53.8	50.0	93	3	30	70 - 130
1,1,1-Trichloroethane	53.8	60.1	112	0.4	30	70 - 130
t-Butyl alcohol	538	702	131	12	30	40 - 160
1,1-Dichloropropene	53.8	54.2	101	2	30	70 - 130
Carbon Tetrachloride	53.8	52.8	98	0.7	30	70 - 130
1,2-Dichloroethane	53.8	62.5	116	2	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5J2622	Prep Method:	EPA 5035A
Percent Solids:	93.00	Laboratory ID:	B5J2622-MSD1
		Client Sample ID:	1501906-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	53.8	60.2	112	2	30	70 - 130
Trichloroethene	53.8	67.2	125	10	30	70 - 130
Methylcyclohexane	53.8	41.9	78	6	30	70 - 130
1,2-Dichloropropane	53.8	63.7	118	3	30	70 - 130
Bromodichloromethane	53.8	60.3	112	0.2	30	70 - 130
Dibromomethane	53.8	63.0	117	5	30	70 - 130
2-Chloroethyl vinyl ether	53.8	64.7	120	5	30	40 - 160
cis-1,3-Dichloropropene	53.8	62.8	117	2	30	70 - 130
Toluene	53.8	56.7	105	0.3	30	70 - 130
trans-1,3-Dichloropropene	53.8	64.3	120	3	30	70 - 130
1,1,2-Trichloroethane	53.8	66.2	123	3	30	70 - 130
4-Methyl-2-pentanone	53.8	64.5	120	7	30	40 - 160
1,2-Dibromoethane	53.8	65.6	122	5	30	70 - 130
2-Hexanone	53.8	57.9	108	9	30	40 - 160
1,3-Dichloropropane	53.8	66.7	124	5	30	70 - 130
Tetrachloroethene	53.8	50.7	94	2	30	70 - 130
Dibromochloromethane	53.8	63.3	118	5	30	70 - 130
Ethylbenzene	53.8	54.9	102	1	30	70 - 130
Chlorobenzene	53.8	55.8	104	1	30	70 - 130
1,1,1,2-Tetrachloroethane	53.8	59.0	110	2	30	70 - 130
m,p-Xylenes	108	108	101	3	30	70 - 130
o-Xylene	108	105	98	1	30	70 - 130
Styrene	108	101	94	3	30	70 - 130
Bromoform	53.8	58.6	109	0.4	30	70 - 130
Isopropylbenzene	53.8	58.2	108	4	30	70 - 130
1,1,2,2-Tetrachloroethane	53.8	61.3	114	3	30	70 - 130
1,2,3-Trichloropropane	53.8	78.6	146 *	16	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5J2622	Prep Method:	EPA 5035A
Percent Solids:	93.00	Laboratory ID:	B5J2622-MSD1
		Client Sample ID:	1501906-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
n-Propyl Benzene	53.8	57.8	108		1	30	70 - 130
Bromobenzene	53.8	63.3	118		5	30	70 - 130
1,3,5-Trimethylbenzene	53.8	56.9	106		2	30	70 - 130
2-Chlorotoluene	53.8	59.9	111		3	30	70 - 130
4-Chlorotoluene	53.8	58.3	108		2	30	70 - 130
tert-Butylbenzene	53.8	55.8	104		0.7	30	70 - 130
1,2,4-Trimethylbenzene	53.8	57.0	106		2	30	70 - 130
sec-Butylbenzene	53.8	51.5	96		2	30	70 - 130
p-Isopropyltoluene	53.8	53.8	100		0.5	30	70 - 130
1,3-Dichlorobenzene	53.8	54.9	102		0.2	30	70 - 130
1,4-Dichlorobenzene	53.8	54.6	102		0.4	30	70 - 130
n-Butyl Benzene	53.8	51.4	96		4	30	70 - 130
1,2-Dichlorobenzene	53.8	57.4	107		2	30	70 - 130
1,2-Dibromo-3-chloropropane	53.8	70.7	132		13	30	40 - 160
1,2,4-Trichlorobenzene	53.8	45.8	85		6	30	70 - 130
Hexachlorobutadiene	53.8	36.1	67	*	12	30	70 - 130
Naphthalene	53.8	55.6	103		1	30	40 - 160
1,2,3-Trichlorobenzene	53.8	44.4	83		9	30	70 - 130
Methyl tert-Butyl Ether	108	139	130		16	30	70 - 130

* Values outside of QC limits

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LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Prep Method:	EPA 5035A
Prep Batch:	B5J2622	Lab Sample ID:	B5J2622-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Acrolein	250	274	110	40 - 160
Acrylonitrile	250	281	112	70 - 130
Acetone	50.0	47.2	94	40 - 160
Dichlorodifluoromethane	50.0	52.6	105	40 - 160
Chloromethane	50.0	57.8	116	40 - 160
Vinyl chloride	50.0	58.8	118	70 - 130
Bromomethane	50.0	54.7	109	40 - 160
Chloroethane	50.0	51.8	104	40 - 160
Trichlorofluoromethane	50.0	53.0	106	40 - 160
Freon 113	50.0	50.0	100	70 - 130
1,1-Dichloroethene	50.0	59.3	119	70 - 130
Carbon disulfide	50.0	62.2	124	70 - 130
Methyl Acetate	50.0	52.2	104	70 - 130
Methylene Chloride	50.0	66.5	133 *	70 - 130
trans-1,2-Dichloroethene	50.0	60.7	121	70 - 130
1,1-Dichloroethane	50.0	58.6	117	70 - 130
2,2-Dichloropropane	50.0	57.0	114	70 - 130
2-Butanone	50.0	47.9	96	40 - 160
cis-1,2-Dichloroethene	50.0	58.6	117	70 - 130
Chloroform	50.0	53.0	106	70 - 130
Bromochloromethane	50.0	54.6	109	70 - 130
Cyclohexane	50.0	52.0	104	70 - 130
1,1,1-Trichloroethane	50.0	57.4	115	70 - 130
t-Butyl alcohol	500	547	109	40 - 160
1,1-Dichloropropene	50.0	53.9	108	70 - 130
Carbon Tetrachloride	50.0	52.7	105	70 - 130
1,2-Dichloroethane	50.0	54.9	110	70 - 130
Benzene	50.0	56.3	113	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Matrix:	Solid	Prep Method:	EPA 5035A
Prep Batch:	B5J2718	Lab Sample ID:	B5J2718-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Acrolein	250	291	116	40 - 160
Acrylonitrile	250	281	112	70 - 130
Acetone	50.0	37.0	74	40 - 160
Dichlorodifluoromethane	50.0	47.2	94	40 - 160
Chloromethane	50.0	55.3	111	40 - 160
Vinyl chloride	50.0	58.8	118	70 - 130
Bromomethane	50.0	57.5	115	40 - 160
Chloroethane	50.0	56.7	113	40 - 160
Trichlorofluoromethane	50.0	56.3	113	40 - 160
Freon 113	50.0	53.8	108	70 - 130
1,1-Dichloroethene	50.0	63.0	126	70 - 130
Carbon disulfide	50.0	62.3	125	70 - 130
Methyl Acetate	50.0	56.0	112	70 - 130
Methylene Chloride	50.0	69.1	138 *	70 - 130
trans-1,2-Dichloroethene	50.0	63.4	127	70 - 130
1,1-Dichloroethane	50.0	63.5	127	70 - 130
2,2-Dichloropropane	50.0	59.7	119	70 - 130
2-Butanone	50.0	53.3	107	40 - 160
cis-1,2-Dichloroethene	50.0	64.0	128	70 - 130
Chloroform	50.0	57.9	116	70 - 130
Bromochloromethane	50.0	57.8	116	70 - 130
Cyclohexane	50.0	54.7	109	70 - 130
1,1,1-Trichloroethane	50.0	59.4	119	70 - 130
t-Butyl alcohol	500	592	118	40 - 160
1,1-Dichloropropene	50.0	54.6	109	70 - 130
Carbon Tetrachloride	50.0	52.2	104	70 - 130
1,2-Dichloroethane	50.0	56.7	113	70 - 130
Benzene	50.0	57.0	114	70 - 130

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501878
Project: 138th Street, Bronx, NY; 10BR188

Sequence: S5J2611 Instrument: GC/MS D
Calibration: 15J2804

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-1 (1501878-01)			*Lab File ID: D12793.D*			*Analyzed: 10/26/15 15:22*			
Pentafluorobenzene	426386	6.44	899797	6.44	47	50 - 200	0.0000	+/-0.50	*
1,4-Difluorobenzene	741877	7.14	1569163	7.14	47	50 - 200	0.0000	+/-0.50	*
Chlorobenzene-d5	518051	11.19	1254965	11.18	41	50 - 200	0.0100	+/-0.50	*
1,4-Dichlorobenzene-d4	176622	14.19	553332	14.19	32	50 - 200	0.0000	+/-0.50	*
EP-2 (1501878-02)			*Lab File ID: D12794.D*			*Analyzed: 10/26/15 15:52*			
Pentafluorobenzene	589837	6.44	899797	6.44	66	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1063776	7.15	1569163	7.14	68	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	768401	11.19	1254965	11.18	61	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	266680	14.19	553332	14.19	48	50 - 200	0.0000	+/-0.50	*
EP-3 (1501878-03)			*Lab File ID: D12795.D*			*Analyzed: 10/26/15 16:22*			
Pentafluorobenzene	478101	6.44	899797	6.44	53	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	841280	7.15	1569163	7.14	54	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	581194	11.19	1254965	11.18	46	50 - 200	0.0100	+/-0.50	*
1,4-Dichlorobenzene-d4	187459	14.19	553332	14.19	34	50 - 200	0.0000	+/-0.50	*
EP-4 (1501878-04)			*Lab File ID: D12796.D*			*Analyzed: 10/26/15 16:51*			
Pentafluorobenzene	496090	6.44	899797	6.44	55	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	908278	7.13	1569163	7.14	58	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	642830	11.18	1254965	11.18	51	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	212743	14.19	553332	14.19	38	50 - 200	0.0000	+/-0.50	*
EP-5 (1501878-05)			*Lab File ID: D12797.D*			*Analyzed: 10/26/15 17:22*			
Pentafluorobenzene	474329	6.44	899797	6.44	53	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	833616	7.14	1569163	7.14	53	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	552015	11.19	1254965	11.18	44	50 - 200	0.0100	+/-0.50	*
1,4-Dichlorobenzene-d4	190610	14.19	553332	14.19	34	50 - 200	0.0000	+/-0.50	*

All cmpds "J/uJ"

cmpds 61-82 "J/uJ"

cmpds 61-82 "J/uJ"

cmpds 61-82 "J/uJ"

cmpds 49-82 "J/uJ"

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501878
Project: 138th Street, Bronx, NY; 10BR188

Sequence: S5J2714 Instrument: GC/MS D
Calibration: 15J2804

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-1 (1501878-01RE1)			*Lab File ID: D12820.D*			*Analyzed: 10/27/15 18:23*			
Pentafluorobenzene	475431	6.44	827579	6.43	57	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	851738	7.14	1476809	7.13	58	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	607708	11.18	1198510	11.18	51	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	207689	14.18	494191	14.18	42	50 - 200	0.0000	+/-0.50	*
EP-2 (1501878-02RE1)			*Lab File ID: D12821.D*			*Analyzed: 10/27/15 18:53*			
Pentafluorobenzene	512009	6.44	827579	6.43	62	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	971345	7.14	1476809	7.13	66	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	697777	11.18	1198510	11.18	58	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	235649	14.18	494191	14.18	48	50 - 200	0.0000	+/-0.50	*
EP-3 (1501878-03RE1)			*Lab File ID: D12822.D*			*Analyzed: 10/27/15 19:22*			
Pentafluorobenzene	397527	6.44	827579	6.43	48	50 - 200	0.0100	+/-0.50	*
1,4-Difluorobenzene	726514	7.14	1476809	7.13	49	50 - 200	0.0100	+/-0.50	*
Chlorobenzene-d5	502486	11.18	1198510	11.18	42	50 - 200	0.0000	+/-0.50	*
1,4-Dichlorobenzene-d4	154677	14.19	494191	14.18	31	50 - 200	0.0100	+/-0.50	*
EP-4 (1501878-04RE1)			*Lab File ID: D12823.D*			*Analyzed: 10/27/15 19:53*			
Pentafluorobenzene	469513	6.44	827579	6.43	57	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	841091	7.14	1476809	7.13	57	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	626668	11.18	1198510	11.18	52	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	221596	14.19	494191	14.18	45	50 - 200	0.0100	+/-0.50	*
EP-5 (1501878-05RE1)			*Lab File ID: D12824.D*			*Analyzed: 10/27/15 20:23*			
Pentafluorobenzene	457901	6.44	827579	6.43	55	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	789128	7.14	1476809	7.13	53	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	412793	11.18	1198510	11.18	34	50 - 200	0.0000	+/-0.50	*
1,4-Dichlorobenzene-d4	134275	14.19	494191	14.18	27	50 - 200	0.0100	+/-0.50	*

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501878
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5J2620	Preparation:	EPA 3050B
% Solids:	93.00	Laboratory ID:	B5J2620-MS1
		Client Sample ID:	1501906-03

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)		MS % REC.		QC LIMITS REC.	
Aluminum	269	7650	11500	*	1430	* *	75 - 125	
Antimony	269	ND	243		90.3		75 - 125	
Arsenic	269	6.96	263		95.1		75 - 125	
Barium	269	79.9	331		93.5		75 - 125	
Beryllium	269	ND	251		93.3		75 - 125	
Cadmium	269	0.862	246		91.2		75 - 125	
Calcium	269	8020	7160	*	-318	* *	75 - 125	
Chromium	269	13.5	263		93.0		75 - 125	
Cobalt	269	5.47	242		87.8		75 - 125	
Copper	269	49.3	306		95.5		75 - 125	
Iron	269	14900	17900	*	1110	* *	75 - 125	
Lead	269	105	340		87.5		75 - 125	
Magnesium	269	2270	2820	*	206	* *	75 - 125	
Manganese	269	493	580	*	32.5	*	75 - 125	"J"
Nickel	269	10.6	247		87.8		75 - 125	
Potassium	269	597	1460	*	321	*	75 - 125	"R"
Selenium	269	ND	235		87.4		75 - 125	
Silver	26.9	ND	23.2		86.4		75 - 125	
Sodium	269	138	428		108		75 - 125	
Thallium	269	ND	219		81.6		75 - 125	
Vanadium	269	18.6	275		95.3		75 - 125	
Zinc	269	132	377		91.0		75 - 125	

* spiked too low

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501878
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5J2620	Preparation:	EPA 3050B
% Solids:	93.00	Laboratory ID:	B5J2620-MSD1
		Client Sample ID:	1501906-03

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Aluminum	269	11200	1340	* *	2.27	20	75 - 125
Antimony	269	241	89.6		0.800	20	75 - 125
Arsenic	269	260	94.2		0.967	20	75 - 125
Barium	269	324	90.7		2.23	20	75 - 125
Beryllium	269	249	92.7		0.624	20	75 - 125
Cadmium	269	245	90.9		0.329	20	75 - 125
Calcium	269	6520	-558	* *	9.43	20	75 - 125
Chromium	269	259	91.5		1.54	20	75 - 125
Cobalt	269	240	87.4		0.469	20	75 - 125
Copper	269	303	94.4		1.02	20	75 - 125
Iron	269	16100	454	* *	10.3	20	75 - 125
Lead	269	331	84.3		2.60	20	75 - 125
Magnesium	269	2810	203	* *	0.248	20	75 - 125
Manganese	269	592	36.9	*	2.02	20	75 - 125
Nickel	269	246	87.7		0.196	20	75 - 125
Potassium	269	1400	299	*	4.25	20	75 - 125
Selenium	269	234	86.9		0.574	20	75 - 125
Silver	26.9	23.1	86.1		0.394	20	75 - 125
Sodium	269	441	113		2.99	20	75 - 125
Thallium	269	219	81.5		0.172	20	75 - 125
Vanadium	269	275	95.4		0.0391	20	75 - 125
Zinc	269	369	88.1		2.07	20	75 - 125

* spiked too low

* Values outside of QC limits

Appendix C

Validator Qualifications

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Block 2333, Lot 1
Bronx, Bronx County, NY
NYSDEC BCP # C203057

SDG: 1501909

3 Soil Samples

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

December 2015

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1501909

The data associated with this Sample Delivery Group (SDG) 1501909, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. P Date: 12/12/15
Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx , NY
SAMPLING DATE:	October 22-23, 2015
SAMPLE TYPE:	3 soil samples
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1501909

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for three soil samples collected on October 22-23, 2015. These samples were analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1501909. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1501909, three samples were analyzed and results were reported for 564 analytes. Fifty-four results were rejected. Even though some results were flagged with a "J" as estimated, all other results (91 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	Several compounds	none	MS/MSD > QC limit	Matrix interference suspected/LCS within QC limits
All samples	Methylene Chloride	J detects	LCS > QC limit	Detected results are estimated
All samples	Acetone Methylene Chloride	B	Method Blank contamination	Sample results up to 10X blank level have been flagged with a "B". Common lab contaminants.
EP-6(1501909-01)	All analytes	J detects/UJ non-detects	% BFB < QC limit	All results are estimated.
EP-6(1501909-01) EP-8(1501909-03)	All analytes	J detects/UJ non-detects	IS#1,2,3, and 4 <50 % QC limit	Results are estimated except listed below which have been rejected.
EP-8(1501909-03)	Isopropylbenzene 1,1,2,2-Tetrchloroethane 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene 2-Chlorotoluene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene p-Isopropylbenzene 1,2,4-Trichlorobenzene 1,2-Dibromo-3-chloropropane	J detects/R non-detects	IS# 4 <25 % QC limit	Twenty results are rejected.

	1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Naphthalene n-Butylbenzene Hexachlorobutadiene			
EP-6(1501909-01)	All analytes listed above plus: 2-Hexanone 1,3-Dichloropropane Tetrachloroethene Dibromochloromethane Ethylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane m,p-Xylene o-Xylene Styrene Bromoform	J detects/R non-detects	IS# 3 and 4 < 25 % QC limit	Thirty-one results are rejected.

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	Several compounds	none	MS/MSD > QC limit	Matrix interference suspected/LCS within QC limits
All samples	Several compounds	none	MS/MSD < QC limit	Matrix interference suspected/LCS within QC limits
All samples	4-Chloroanailine	"UJ"	LCS < QC limit	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	Potassium	R all data	% Recovery > 200 %	Three results are rejected.
All samples	Manganese	J detects/UJ non-detects	% Recovery < QC limit	All results are estimated.

Table 6-6 Total Cyanide

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

05 November 2015

AAR Work Order: 1501909

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 10/23/2015 14:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th St., Bronx, NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #:
AAR WORK ORDER #: 1501909
P.O. #:

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-6	10/22/15/13:57	S		4	G	✓	✓	-01
EP-7	10/22/15/14:08	S		4	G	✓	✓	-02
EP-8	10/23/15/08:15	S		4	G	✓	✓	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: J. McGill	Print Name: J. McGill	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10/23/15	Time: 10:45	Date Received: 10/23/15	Time: 1430
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 3 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 10/23/2015 2:30:00 PM.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2622 and B5J2718 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the Volatile Organic analyses, the MS/MSD for Batch B5J2622 and B5J2718 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits; therefore, no further action required.

In the Volatile Organic analyses, one surrogate (Bromofluorobenzene) for AAR Sample #1501909-01 was out of criteria. The sample was reanalyzed and the surrogate was again recovered out of the required criteria. The methylene chloride result reported for all samples is due to laboratory contamination.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2601 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5J2601 had compounds recovered outside acceptance limits due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike concentration. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-6	1501909-01	Soil	10/22/2015 13:57	10/23/2015 14:30
EP-7	1501909-02	Soil	10/22/2015 14:08	10/23/2015 14:30
EP-8	1501909-03	Soil	10/23/2015 08:15	10/23/2015 14:30

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
E	Concentration exceeds calibration range
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND UJ	16.7	27.9	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	5.57	27.9	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
67-64-1	**Acetone**	**108** J	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND UJ	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**26.0** JB	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND UJ	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
78-93-3	**2-Butanone**	**22.5** J	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND UJ	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
71-43-2	Benzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U

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Daniel Miguel, Technical Director

MXP 12/10/15

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND VJ	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-88-3	Toluene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
591-78-6	2-Hexanone	~~ND~~ R	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
127-18-4	Tetrachloroethene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
124-48-1	Dibromochloromethane	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
100-41-4	Ethylbenzene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-90-7	Chlorobenzene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	~~ND~~	5.57	11.1	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
95-47-6	o-Xylene	~~ND~~	5.57	11.1	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
100-42-5	Styrene	~~ND~~	2.79	11.1	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-25-2	Bromoform	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
98-82-8	Isopropylbenzene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-86-1	Bromobenzene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	~~ND~~ R	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	~~ND~~	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*118 %*	*70-130*		*10/26/15 17:52*	*10/26/15 17:52/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*93 %*	*70-130*		*10/26/15 17:52*	*10/26/15 17:52/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*56 %*	*70-130*	*	*10/26/15 17:52*	*10/26/15 17:52/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
108-95-2	Phenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	Reported:
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
78-59-1	Isophorone	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	173	694	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**159**	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	69.4	694	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U

Accredited Analytical Resources LLC

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MRP 12/11/15

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	Reported:
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
84-66-2	Diethyl phthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
86-73-7	Fluorene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**89.6**	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	J
120-12-7	Anthracene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
129-00-0	Pyrene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	173	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
218-01-9	Chrysene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*61 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:08/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*77 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:08/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Nitrobenzene-d5				*70 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:08/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*67 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:08/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*75 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:08/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*85 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:08/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	13.9	13.9	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	69.4	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
11104-28-2	Aroclor-1221	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*68.5 %*	*30-150*		*10/27/15 09:15*	*10/27/15 16:24/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*70.5 %*	*30-150*		*10/27/15 09:15*	*10/27/15 16:24/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*74.2 %*	*30-150*		*10/27/15 09:15*	*10/27/15 16:24/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*78.6 %*	*30-150*		*10/27/15 09:15*	*10/27/15 16:24/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8930**	41.7	41.7	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-36-0	Antimony	ND	8.33	8.33	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.34**	2.08	2.08	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-39-3	**Barium**	**96.6**	41.7	41.7	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-41-7	Beryllium	ND	1.04	1.04	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	1.04	1.04	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-70-2	**Calcium**	**8470**	52.1	52.1	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-47-3	**Chromium**	**17.0**	4.17	4.17	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-48-4	Cobalt	ND	10.4	10.4	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-50-8	**Copper**	**48.8**	6.25	6.25	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7439-89-6	**Iron**	**11200**	52.1	52.1	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7439-92-1	**Lead**	**12.5**	2.08	2.08	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7439-95-4	**Magnesium**	**6300**	104	104	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
Total Metals by EPA Method SW846 6010										
7439-96-5	**Manganese**	**169** J	4.17	4.17	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-02-0	**Nickel**	**15.9**	8.33	8.33	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-09-7	**Potassium**	~~**1140**~~ R	104	104	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7782-49-2	Selenium	ND	8.33	8.33	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-22-4	Silver	ND	1.04	1.04	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-23-5	**Sodium**	**1030**	104	104	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-28-0	Thallium	ND	3.12	6.25	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**21.5**	10.4	10.4	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-66-6	**Zinc**	**59.6**	12.5	12.5	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.156	0.156	mg/kg dry	1	10/26/15 08:59	10/26/15 14:25/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	2.08	2.08	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**48.0**	0.100	0.100	%	1	10/26/15 09:10	10/26/15 15:17/HTW	SM 2540 G	

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	Reported:
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01RE1 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND UJ	17.7	29.4	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	5.89	29.4	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
67-64-1	**Acetone**	**109 J**	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND UJ	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**22.4 JB**	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	
156-60-5	trans-1,2-Dichloroethene	ND UJ	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
78-93-3	**2-Butanone**	**21.6 J**	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND UJ	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
71-43-2	Benzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01RE1 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND UJ	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-88-3	Toluene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
591-78-6	2-Hexanone	~~ND~~ R	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
127-18-4	Tetrachloroethene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
124-48-1	Dibromochloromethane	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
100-41-4	Ethylbenzene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-90-7	Chlorobenzene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	~~ND~~	5.89	11.8	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
95-47-6	o-Xylene	~~ND~~	5.89	11.8	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
100-42-5	Styrene	~~ND~~	2.94	11.8	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
98-82-8	Isopropylbenzene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-86-1	Bromobenzene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U

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MM 12/11/15

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01RE1 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	~~ND~~ K	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	~~ND~~	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*110 %*	*70-130*		*10/27/15 20:53*	*10/27/15 20:53/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*96 %*	*70-130*		*10/27/15 20:53*	*10/27/15 20:53/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*51 %*	*70-130*	*	*10/27/15 20:53*	*10/27/15 20:53/SG*	*EPA 8260*	

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	Reported:
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	7.79	13.0	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.60	13.0	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
67-64-1	**Acetone**	**97.8**	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-15-0	**Carbon disulfide**	**1.99**	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	J
75-09-2	**Methylene Chloride**	**6.88** JB	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
78-93-3	**2-Butanone**	**16.1**	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
71-43-2	Benzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U

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MEP 12/10/15

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-88-3	Toluene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.60	5.19	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.60	5.19	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
100-42-5	Styrene	ND	1.30	5.19	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	Reported:
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*111 %*	*70-130*		*10/26/15 18:22*	*10/26/15 18:22/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*102 %*	*70-130*		*10/26/15 18:22*	*10/26/15 18:22/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*87 %*	*70-130*		*10/26/15 18:22*	*10/26/15 18:22/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
108-95-2	Phenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
78-59-1	Isophorone	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	119	476	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**72.9**	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND NJ	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	47.6	476	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U

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MMP 12/11/15

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	Reported: 11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
84-66-2	Diethyl phthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
86-73-7	Fluorene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**153**	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
120-12-7	Anthracene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**153**	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
129-00-0	**Pyrene**	**145**	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	119	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**61.0**	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
218-01-9	**Chrysene**	**72.9**	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
50-32-8	**Benzo[a]pyrene**	**59.0**	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*59 %*	*30-130*		*10/26/15 06:03*	*10/27/15 20:35/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*76 %*	*30-130*		*10/26/15 06:03*	*10/27/15 20:35/JMM*	*EPA 8270*	

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Nitrobenzene-d5				*70 %*	*30-130*		*10/26/15 06:03*	*10/27/15 20:35/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*66 %*	*30-130*		*10/26/15 06:03*	*10/27/15 20:35/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*64 %*	*30-130*		*10/26/15 06:03*	*10/27/15 20:35/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*87 %*	*30-130*		*10/26/15 06:03*	*10/27/15 20:35/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	9.51	9.51	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	47.6	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	Reported: 11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
11104-28-2	Aroclor-1221	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*87.2 %*	*30-150*		*10/27/15 09:15*	*10/27/15 16:55/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*90.1 %*	*30-150*		*10/27/15 09:15*	*10/27/15 16:55/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*89.0 %*	*30-150*		*10/27/15 09:15*	*10/27/15 16:55/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*86.1 %*	*30-150*		*10/27/15 09:15*	*10/27/15 16:55/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**6100**	28.6	28.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.71	5.71	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.01**	1.43	1.43	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-39-3	**Barium**	**40.0**	28.6	28.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.714	0.714	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.714	0.714	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-70-2	**Calcium**	**8140**	35.7	35.7	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-47-3	**Chromium**	**10.1**	2.86	2.86	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-48-4	Cobalt	ND	7.14	7.14	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-50-8	**Copper**	**13.6**	4.29	4.29	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7439-89-6	**Iron**	**9210**	35.7	35.7	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7439-92-1	**Lead**	**11.8**	1.43	1.43	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7439-95-4	**Magnesium**	**4200**	71.4	71.4	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
Total Metals by EPA Method SW846 6010										
7439-96-5	**Manganese**	**111** J	2.86	2.86	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-02-0	**Nickel**	**12.9**	5.71	5.71	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-09-7	**Potassium**	~~**886**~~ R	71.4	71.4	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.71	5.71	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.714	0.714	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-23-5	**Sodium**	**401**	71.4	71.4	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.14	4.29	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**12.3**	7.14	7.14	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-66-6	**Zinc**	**45.7**	8.57	8.57	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.107	0.107	mg/kg dry	1	10/26/15 08:59	10/26/15 14:28/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.43	1.43	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**70.0**	0.100	0.100	%	1	10/26/15 09:10	10/26/15 15:17/HTW	SM 2540 G	

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MAP 12/11/15

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND UJ	25.5	42.6	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	8.51	42.6	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
67-64-1	**Acetone**	**102** B	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND UJ	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
74-87-3	Chloromethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
74-83-9	Bromomethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-00-3	Chloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**20.6** JB	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	
156-60-5	trans-1,2-Dichloroethene	ND UJ	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
78-93-3	2-Butanone	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
67-66-3	Chloroform	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
71-43-2	Benzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U

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MAP 12/10/15

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	Reported: 11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND UJ	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-88-3	Toluene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
100-41-4	**Ethylbenzene**	7.57 J	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	J
108-90-7	Chlorobenzene	ND UJ	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	8.51	17.0	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
95-47-6	o-Xylene	ND	8.51	17.0	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
100-42-5	Styrene	ND	4.26	17.0	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-25-2	Bromoform	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
98-82-8	Isopropylbenzene	~~ND~~ R	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-86-1	Bromobenzene	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U

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MAP 12/11/15

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
98-06-6	tert-Butylbenzene	~~ND~~ R	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
95-63-6	1,2,4-Trimethylbenzene	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	~~ND~~	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*122 %*	*70-130*		*10/27/15 21:23*	*10/27/15 21:23/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*99 %*	*70-130*		*10/27/15 21:23*	*10/27/15 21:23/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*78 %*	*70-130*		*10/27/15 21:23*	*10/27/15 21:23/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
108-95-2	Phenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
621-64-7	N-Nitroso-di-n-propylamine	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
67-72-1	Hexachloroethane	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
78-59-1	Isophorone	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	177	709	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**76.6**	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND VJ	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	70.9	709	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U

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MXP 12/11/15

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
121-14-2	2,4-Dinitrotoluene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
86-73-7	Fluorene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**187**	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
120-12-7	Anthracene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**190**	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
129-00-0	**Pyrene**	**199**	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	177	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**75.9**	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
218-01-9	**Chrysene**	**92.9**	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*61 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:52/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Phenol-d5				*77 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:52/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*70 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:52/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*67 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:52/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*82 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:52/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*92 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:52/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.40	1.40	ng/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	14.2	14.2	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	70.9	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
12674-11-2	Aroclor-1016	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*76.5 %*	*30-150*		*10/27/15 09:15*	*10/27/15 17:26/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*85.3 %*	*30-150*		*10/27/15 09:15*	*10/27/15 17:26/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*87.6 %*	*30-150*		*10/27/15 09:15*	*10/27/15 17:26/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*85.9 %*	*30-150*		*10/27/15 09:15*	*10/27/15 17:26/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**11800**	42.6	42.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-36-0	Antimony	ND	8.51	8.51	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**3.29**	2.13	2.13	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-39-3	**Barium**	**68.6**	42.6	42.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-41-7	Beryllium	ND	1.06	1.06	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	1.06	1.06	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-70-2	**Calcium**	**9090**	53.2	53.2	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-47-3	**Chromium**	**19.4**	4.26	4.26	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-48-4	**Cobalt**	**10.6**	10.6	10.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-50-8	**Copper**	**25.5**	6.38	6.38	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7439-89-6	**Iron**	**17700**	53.2	53.2	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7439-92-1	**Lead**	**25.5**	2.13	2.13	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
Total Metals by EPA Method SW846 6010										
7439-95-4	**Magnesium**	**8200**	106	106	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7439-96-5	**Manganese**	**247** J	4.26	4.26	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-02-0	**Nickel**	**20.7**	8.51	8.51	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-09-7	**Potassium**	~~1650~~ R	106	106	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7782-49-2	Selenium	ND	8.51	8.51	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-22-4	Silver	ND	1.06	1.06	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-23-5	**Sodium**	**717**	106	106	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-28-0	Thallium	ND	3.19	6.38	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**23.9**	10.6	10.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-66-6	**Zinc**	**89.0**	12.8	12.8	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.160	0.160	mg/kg dry	1	10/26/15 08:59	10/26/15 14:30/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	2.13	2.13	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**47.0**	0.100	0.100	%	1	10/26/15 09:10	10/26/15 15:17/HTW	SM 2540 G	

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MMP 12/4/15

Daniel Miguel, Technical Director

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	87.00	Laboratory ID:	B5J2601-MS1
		Client Sample ID:	1501903-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Pyridine	1920	ND	1400	73	20 - 160
N-Nitrosodimethylamine	1920	ND	1470	77	20 - 160
Aniline	1920	ND	1450	75	20 - 160
Phenol	1920	ND	1840	96	20 - 160
bis(2-chloroethyl)ether	1920	ND	1770	92	70 - 130
2-Chlorophenol	1920	ND	1680	88	70 - 130
1,3-Dichlorobenzene	1920	ND	1700	89	70 - 130
1,4-Dichlorobenzene	1920	ND	1700	89	70 - 130
Benzyl alcohol	1920	ND	1580	83	20 - 160
1,2-Dichlorobenzene	1920	ND	1690	88	70 - 130
2-Methylphenol	1920	ND	1620	85	20 - 160
bis(2-chloroisopropyl)ether	1920	ND	1930	100	70 - 130
3 & 4-Methylphenol	1920	ND	1500	78	20 - 160
N-Nitroso-di-n-propylamine	1920	ND	1470	77	70 - 130
Hexachloroethane	1920	ND	1360	71	20 - 160
Nitrobenzene	1920	ND	1640	86	70 - 130
Isophorone	1920	ND	1610	84	70 - 130
2-Nitrophenol	1920	ND	1640	86	70 - 130
2,4-Dimethylphenol	1920	ND	1670	87	70 - 130
bis(2-chloroethoxy)methane	1920	ND	1610	84	70 - 130
2,4-Dichlorophenol	1920	ND	1670	87	70 - 130
1,2,4-Trichlorobenzene	1920	ND	1620	85	70 - 130
Naphthalene	1920	ND	1660	87	70 - 130
4-Chloroaniline	1920	ND	564	29	20 - 160
Hexachlorobutadiene	1920	ND	1620	85	70 - 130
4-Chloro-3-methylphenol	1920	ND	1630	85	70 - 130
2-Methylnaphthylene	1920	ND	1640	86	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	87.00	Laboratory ID:	B5J2601-MS1
		Client Sample ID:	1501903-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Hexachlorocyclopentadiene	1920	ND	278	14	*	20 - 160
2,4,6-Trichlorophenol	1920	ND	1720	90		70 - 130
2,4,5-Trichlorophenol	1920	ND	1710	89		70 - 130
2-Chloronaphthalene	1920	ND	1580	82		70 - 130
2-Nitroaniline	1920	ND	1780	93		70 - 130
Dimethylphthalate	1920	ND	1700	89		70 - 130
Acenaphthylene	1920	70.5	1900	95		70 - 130
3-Nitroaniline	1920	ND	1350	70		70 - 130
Acenaphthene	1920	102	1840	91		70 - 130
2,4-Dinitrophenol	1920	ND	500	26		20 - 160
4-Nitrophenol	1920	ND	1720	90		20 - 160
Dibenzofuran	1920	43.7	1730	88		70 - 130
2,6-Dinitrotoluene	1920	ND	1680	88		70 - 130
2,4-Dinitrotoluene	1920	ND	1760	92		70 - 130
2,3,4,6-Tetrachlorophenol	1920	ND	1730	90		70 - 130
Diethyl phthalate	1920	ND	1670	87		70 - 130
4-Chlorophenyl-phenylether	1920	ND	1600	84		70 - 130
Fluorene	1920	112	1760	86		70 - 130
4-Nitroaniline	1920	ND	1700	89		70 - 130
4,6-Dinitro-2-methylphenol	1920	ND	546	28	*	70 - 130
Carbazole	1920	113	1930	95		70 - 130
N-Nitrosodiphenylamine	1920	ND	1630	85		20 - 160
Azobenzene	1920	ND	1970	103		70 - 130
4-Bromophenyl-phenylether	1920	ND	1640	86		70 - 130
Hexachlorobenzene	1920	ND	1600	84		70 - 130
Pentachlorophenol	1920	ND	1410	74		20 - 160
Phenanthrene	1920	1090	3280	114		70 - 130

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	87.00	Laboratory ID:	B5J2601-MS1
		Client Sample ID:	1501903-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Anthracene	1920	286	2130	96		70 - 130
Di-n-butyl phthalate	1920	38.7	1770	90		70 - 130
Fluoranthene	1920	1650	4290	138	*	70 - 130
Pyrene	1920	1760	5250	182	*	70 - 130
Butylbenzylphthalate	1920	39.5	2410	124		70 - 130
Benzo[a]anthracene	1920	859	3060	115		70 - 130
bis(2-ethylhexyl)phthalate	1920	105	2580	129		70 - 130
Chrysene	1920	1030	3290	118		70 - 130
Di-n-octyl phthalate	1920	ND	5610	293	*	70 - 130
Benzo[b]fluoranthene	1920	1050	4560	183	*	70 - 130
Benzo[k]fluoranthene	1920	630	3430	146	*	70 - 130
Benzo[a]pyrene	1920	819	3240	126		70 - 130
Indeno(1,2,3-cd)pyrene	1920	311	1140	43	*	70 - 130
Dibenzo(a,h)anthracene	1920	135	1000	45	*	70 - 130
Benzo[ghi]perylene	1920	301	990	36	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	87.00	Laboratory ID:	B5J2601-MSD1
		Client Sample ID:	1501903-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
Pyridine	1920	1200	63		15		30	20 - 160
N-Nitrosodimethylamine	1920	1220	64		18		30	20 - 160
Aniline	1920	1080	56		29		30	20 - 160
Phenol	1920	1550	81		17		30	20 - 160
bis(2-chloroethyl)ether	1920	1520	79		15		30	70 - 130
2-Chlorophenol	1920	1420	74		16		30	70 - 130
1,3-Dichlorobenzene	1920	1420	74		18		30	70 - 130
1,4-Dichlorobenzene	1920	1410	74		19		30	70 - 130
Benzyl alcohol	1920	1300	68		19		30	20 - 160
1,2-Dichlorobenzene	1920	1390	73		19		30	70 - 130
2-Methylphenol	1920	1350	70		19		30	20 - 160
bis(2-chloroisopropyl)ether	1920	1620	84		17		30	70 - 130
3 & 4-Methylphenol	1920	1260	66		17		30	20 - 160
N-Nitroso-di-n-propylamine	1920	1300	68	*	12		30	70 - 130
Hexachloroethane	1920	1130	59		19		30	20 - 160
Nitrobenzene	1920	1360	71		18		30	70 - 130
Isophorone	1920	1340	70		18		30	70 - 130
2-Nitrophenol	1920	1310	69	*	22		30	70 - 130
2,4-Dimethylphenol	1920	1350	71		21		30	70 - 130
bis(2-chloroethoxy)methane	1920	1360	71		17		30	70 - 130
2,4-Dichlorophenol	1920	1380	72		19		30	70 - 130
1,2,4-Trichlorobenzene	1920	1340	70		19		30	70 - 130
Naphthalene	1920	1360	71		20		30	70 - 130
4-Chloroaniline	1920	341	18	*	49	*	30	20 - 160
Hexachlorobutadiene	1920	1310	68	*	21		30	70 - 130
4-Chloro-3-methylphenol	1920	1380	72		17		30	70 - 130
2-Methylnaphthylene	1920	1360	71		19		30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	87.00	Laboratory ID:	B5J2601-MSD1
		Client Sample ID:	1501903-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
Hexachlorocyclopentadiene	1920	227	12	*	20		30	20 - 160
2,4,6-Trichlorophenol	1920	1430	75		19		30	70 - 130
2,4,5-Trichlorophenol	1920	1410	74		19		30	70 - 130
2-Chloronaphthalene	1920	1300	68	*	20		30	70 - 130
2-Nitroaniline	1920	1470	77		19		30	70 - 130
Dimethylphthalate	1920	1430	75		17		30	70 - 130
Acenaphthylene	1920	1510	75		23		30	70 - 130
3-Nitroaniline	1920	1070	56	*	23		30	70 - 130
Acenaphthene	1920	1480	72		22		30	70 - 130
2,4-Dinitrophenol	1920	328	17	*	42	*	30	20 - 160
4-Nitrophenol	1920	1370	72		22		30	20 - 160
Dibenzofuran	1920	1400	71		21		30	70 - 130
2,6-Dinitrotoluene	1920	1380	72		20		30	70 - 130
2,4-Dinitrotoluene	1920	1420	74		21		30	70 - 130
2,3,4,6-Tetrachlorophenol	1920	1390	73		22		30	70 - 130
Diethyl phthalate	1920	1350	70		21		30	70 - 130
4-Chlorophenyl-phenylether	1920	1300	68	*	21		30	70 - 130
Fluorene	1920	1440	69	*	20		30	70 - 130
4-Nitroaniline	1920	1420	74		18		30	70 - 130
4,6-Dinitro-2-methylphenol	1920	200	10	*	93	*	30	70 - 130
Carbazole	1920	1540	74		23		30	70 - 130
N-Nitrosodiphenylamine	1920	1300	68		23		30	20 - 160
Azobenzene	1920	1580	82		22		30	70 - 130
4-Bromophenyl-phenylether	1920	1320	69	*	22		30	70 - 130
Hexachlorobenzene	1920	1290	67	*	22		30	70 - 130
Pentachlorophenol	1920	1120	58		23		30	20 - 160
Phenanthrene	1920	2540	76		26		30	70 - 130

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	87.00	Laboratory ID:	B5J2601-MSD1
		Client Sample ID:	1501903-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
Anthracene	1920	1710	74		22		30	70 - 130
Di-n-butyl phthalate	1920	1450	74		20		30	70 - 130
Fluoranthene	1920	3180	80		30	*	30	70 - 130
Pyrene	1920	4340	135	*	19		30	70 - 130
Butylbenzylphthalate	1920	2140	110		12		30	70 - 130
Benzo[a]anthracene	1920	2340	77		27		30	70 - 130
bis(2-ethylhexyl)phthalate	1920	2280	114		12		30	70 - 130
Chrysene	1920	2500	77		27		30	70 - 130
Di-n-octyl phthalate	1920	5660	295	*	0.9		30	70 - 130
Benzo[b]fluoranthene	1920	3480	127		27		30	70 - 130
Benzo[k]fluoranthene	1920	2800	113		20		30	70 - 130
Benzo[a]pyrene	1920	2550	90		24		30	70 - 130
Indeno(1,2,3-cd)pyrene	1920	862	29	*	28		30	70 - 130
Dibenzo(a,h)anthracene	1920	829	36	*	19		30	70 - 130
Benzo[ghi]perylene	1920	753	24	*	27		30	70 - 130

* Values outside of QC limits

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LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5J2601	Lab Sample ID:	B5J2601-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1350	81	20 - 160
N-Nitrosodimethylamine	1670	1450	87	20 - 160
Aniline	1670	1360	82	20 - 160
Phenol	1670	1680	101	20 - 160
bis(2-chloroethyl)ether	1670	1610	97	70 - 130
2-Chlorophenol	1670	1540	93	70 - 130
1,3-Dichlorobenzene	1670	1480	89	70 - 130
1,4-Dichlorobenzene	1670	1480	89	70 - 130
Benzyl alcohol	1670	1470	88	20 - 160
1,2-Dichlorobenzene	1670	1470	88	70 - 130
2-Methylphenol	1670	1490	89	20 - 160
bis(2-chloroisopropyl)ether	1670	1800	108	70 - 130
3 & 4-Methylphenol	1670	1390	84	20 - 160
N-Nitroso-di-n-propylamine	1670	1450	87	70 - 130
Hexachloroethane	1670	1490	89	20 - 160
Nitrobenzene	1670	1500	90	70 - 130
Isophorone	1670	1530	92	70 - 130
2-Nitrophenol	1670	1530	92	70 - 130
2,4-Dimethylphenol	1670	1550	93	70 - 130
bis(2-chloroethoxy)methane	1670	1530	92	70 - 130
2,4-Dichlorophenol	1670	1480	89	70 - 130
1,2,4-Trichlorobenzene	1670	1420	85	70 - 130
Naphthalene	1670	1450	87	70 - 130
4-Chloroaniline	1670	648	39 *	70 - 130
Hexachlorobutadiene	1670	1400	84	70 - 130
4-Chloro-3-methylphenol	1670	1510	91	70 - 130
2-Methylnaphthylene	1670	1490	89	70 - 130
Hexachlorocyclopentadiene	1670	992	60	20 - 160

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ANALYSIS DATA SHEET

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Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501909
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5J2622-BLK1	File ID:	D12785.D
Batch:	B5J2622	Prepared:	10/26/15 10:59	Analyzed:	10/26/15 10:59
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5J2611	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	2.37	1.00	2.00	
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	4.39	1.00	2.00	
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501909
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5J2622-BLK1	File ID:	D12785.D
Batch:	B5J2622	Prepared:	10/26/15 10:59	Analyzed:	10/26/15 10:59
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5J2611	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
71-43-2	Benzene	ND	1.00	2.00	U
79-01-6	Trichloroethene	ND	1.00	2.00	U
78-87-5	1,2-Dichloropropane	ND	1.00	2.00	U
75-27-4	Bromodichloromethane	ND	1.00	2.00	U
74-95-3	Dibromomethane	ND	1.00	2.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.00	2.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.00	2.00	U
108-88-3	Toluene	ND	1.00	2.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.00	2.00	U
79-00-5	1,1,2-Trichloroethane	ND	1.00	2.00	U
108-10-1	4-Methyl-2-pentanone	ND	1.00	2.00	U
106-93-4	1,2-Dibromoethane	ND	1.00	2.00	U
591-78-6	2-Hexanone	ND	1.00	2.00	U
142-28-9	1,3-Dichloropropane	ND	1.00	2.00	U
127-18-4	Tetrachloroethene	ND	1.00	2.00	U
124-48-1	Dibromochloromethane	ND	1.00	2.00	U
100-41-4	Ethylbenzene	ND	1.00	2.00	U
108-90-7	Chlorobenzene	ND	1.00	2.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.00	2.00	U
108-38-3/106-42-3	m,p-Xylenes	ND	2.00	4.00	U
95-47-6	o-Xylene	ND	2.00	4.00	U
100-42-5	Styrene	ND	1.00	4.00	U
75-25-2	Bromoform	ND	1.00	2.00	U
98-82-8	Isopropylbenzene	ND	1.00	2.00	U

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ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501909
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5J2622-BLK1	File ID:	D12785.D
Batch:	B5J2622	Prepared:	10/26/15 10:59	Analyzed:	10/26/15 10:59
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5J2611	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane	ND	1.00	2.00	U
103-65-1	n-Propyl Benzene	ND	1.00	2.00	U
108-86-1	Bromobenzene	ND	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.00	2.00	U
95-49-8	2-Chlorotoluene	ND	1.00	2.00	U
106-43-4	4-Chlorotoluene	ND	1.00	2.00	U
98-06-6	tert-Butylbenzene	ND	1.00	2.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.00	2.00	U
135-98-8	sec-Butylbenzene	ND	1.00	2.00	U
99-87-6	p-Isopropyltoluene	ND	1.00	2.00	U
541-73-1	1,3-Dichlorobenzene	ND	1.00	2.00	U
106-46-7	1,4-Dichlorobenzene	ND	1.00	2.00	U
104-51-8	n-Butyl Benzene	ND	1.00	2.00	U
95-50-1	1,2-Dichlorobenzene	ND	1.00	2.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.00	2.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.00	2.00	U
87-68-3	Hexachlorobutadiene	ND	1.00	2.00	U
91-20-3	Naphthalene	ND	1.00	2.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.00	2.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	106%	70-130
Toluene-d8	104%	70-130
Bromofluorobenzene	101%	70-130

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SYSTEM MONITORING COMPOUND SUMMARY

EPA 8260

Client:	**BRINKERHOFF ENVIRONMENTAL**		
Project:	**138th Street, Bronx, NY; 10BR188**	Matrix:	Solid
Work Order:	**1501909**	Instrument:	GC/MS D

Lab Sample ID:	1,2-DCE-d4 (70% - 130%)	BFB (70% - 130%)	TOL-d8 (70% - 130%)
1501909-01	118	56*	93
1501909-02	111	87	102
B5J2622-BLK1	106	101	104
B5J2622-BS1	103	110	104
B5J2622-MS1	112	103	105
B5J2622-MSD1	114	101	105

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SYSTEM MONITORING COMPOUND SUMMARY

EPA 8260

Client:	**BRINKERHOFF ENVIRONMENTAL**		
Project:	**138th Street, Bronx, NY; 10BR188**	Matrix:	Solid
Work Order:	**1501909**	Instrument:	GC/MS D

Lab Sample ID:	1,2-DCE-d4 (70% - 130%)	BFB (70% - 130%)	TOL-d8 (70% - 130%)
1501909-01RE1	110	51*	96
1501909-03	122	78	99
B5J2718-BLK1	108	104	106
B5J2718-BS1	105	116	108
B5J2718-MS1	112	113	103
B5J2718-MSD1	114	109	101

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5J2622	Prep Method:	EPA 5035A
Percent Solids:	93.00	Laboratory ID:	B5J2622-MS1
		Client Sample ID:	1501906-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Acrolein	269	ND	286	107		40 - 160
Acrylonitrile	269	ND	301	112		70 - 130
Acetone	53.8	2.84	62.0	110		40 - 160
Dichlorodifluoromethane	53.8	ND	52.7	98		40 - 160
Chloromethane	53.8	ND	62.2	116		40 - 160
Vinyl chloride	53.8	ND	61.5	114		70 - 130
Bromomethane	53.8	ND	61.0	113		40 - 160
Chloroethane	53.8	ND	54.7	102		40 - 160
Trichlorofluoromethane	53.8	ND	57.5	107		40 - 160
Freon 113	53.8	ND	51.3	95		70 - 130
1,1-Dichloroethene	53.8	ND	60.7	113		70 - 130
Carbon disulfide	53.8	ND	60.2	112		70 - 130
Methyl Acetate	53.8	ND	66.8	124		70 - 130
Methylene Chloride	53.8	1.90	75.0	136	*	70 - 130
trans-1,2-Dichloroethene	53.8	ND	61.8	115		70 - 130
1,1-Dichloroethane	53.8	ND	63.1	117		70 - 130
2,2-Dichloropropane	53.8	ND	61.0	113		70 - 130
2-Butanone	53.8	ND	55.5	103		40 - 160
cis-1,2-Dichloroethene	53.8	ND	64.1	119		70 - 130
Chloroform	53.8	ND	60.2	112		70 - 130
Bromochloromethane	53.8	ND	60.9	113		70 - 130
Cyclohexane	53.8	ND	51.7	96		70 - 130
1,1,1-Trichloroethane	53.8	ND	59.9	111		70 - 130
t-Butyl alcohol	538	ND	625	116		40 - 160
1,1-Dichloropropene	53.8	ND	55.2	103		70 - 130
Carbon Tetrachloride	53.8	ND	53.2	99		70 - 130
1,2-Dichloroethane	53.8	ND	61.1	114		70 - 130

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5J2622	Prep Method:	EPA 5035A
Percent Solids:	93.00	Laboratory ID:	B5J2622-MSD1
		Client Sample ID:	1501906-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Acrolein	269	240	89	18	30	40 - 160
Acrylonitrile	269	312	116	3	30	70 - 130
Acetone	53.8	66.6	119	7	30	40 - 160
Dichlorodifluoromethane	53.8	53.3	99	1	30	40 - 160
Chloromethane	53.8	61.7	115	0.8	30	40 - 160
Vinyl chloride	53.8	61.4	114	0.2	30	70 - 130
Bromomethane	53.8	61.8	115	1	30	40 - 160
Chloroethane	53.8	52.5	98	4	30	40 - 160
Trichlorofluoromethane	53.8	57.3	107	0.3	30	40 - 160
Freon 113	53.8	50.4	94	2	30	70 - 130
1,1-Dichloroethene	53.8	62.0	115	2	30	70 - 130
Carbon disulfide	53.8	59.5	111	1	30	70 - 130
Methyl Acetate	53.8	75.0	139 *	12	30	70 - 130
Methylene Chloride	53.8	79.3	144 *	6	30	70 - 130
trans-1,2-Dichloroethene	53.8	62.9	117	2	30	70 - 130
1,1-Dichloroethane	53.8	64.1	119	2	30	70 - 130
2,2-Dichloropropane	53.8	61.5	114	0.8	30	70 - 130
2-Butanone	53.8	61.2	114	10	30	40 - 160
cis-1,2-Dichloroethene	53.8	64.7	120	1	30	70 - 130
Chloroform	53.8	61.3	114	2	30	70 - 130
Bromochloromethane	53.8	65.8	122	8	30	70 - 130
Cyclohexane	53.8	50.0	93	3	30	70 - 130
1,1,1-Trichloroethane	53.8	60.1	112	0.4	30	70 - 130
t-Butyl alcohol	538	702	131	12	30	40 - 160
1,1-Dichloropropene	53.8	54.2	101	2	30	70 - 130
Carbon Tetrachloride	53.8	52.8	98	0.7	30	70 - 130
1,2-Dichloroethane	53.8	62.5	116	2	30	70 - 130

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5J2622	Prep Method:	EPA 5035A
Percent Solids:	93.00	Laboratory ID:	B5J2622-MSD1
		Client Sample ID:	1501906-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	53.8	60.2	112	2	30	70 - 130
Trichloroethene	53.8	67.2	125	10	30	70 - 130
Methylcyclohexane	53.8	41.9	78	6	30	70 - 130
1,2-Dichloropropane	53.8	63.7	118	3	30	70 - 130
Bromodichloromethane	53.8	60.3	112	0.2	30	70 - 130
Dibromomethane	53.8	63.0	117	5	30	70 - 130
2-Chloroethyl vinyl ether	53.8	64.7	120	5	30	40 - 160
cis-1,3-Dichloropropene	53.8	62.8	117	2	30	70 - 130
Toluene	53.8	56.7	105	0.3	30	70 - 130
trans-1,3-Dichloropropene	53.8	64.3	120	3	30	70 - 130
1,1,2-Trichloroethane	53.8	66.2	123	3	30	70 - 130
4-Methyl-2-pentanone	53.8	64.5	120	7	30	40 - 160
1,2-Dibromoethane	53.8	65.6	122	5	30	70 - 130
2-Hexanone	53.8	57.9	108	9	30	40 - 160
1,3-Dichloropropane	53.8	66.7	124	5	30	70 - 130
Tetrachloroethene	53.8	50.7	94	2	30	70 - 130
Dibromochloromethane	53.8	63.3	118	5	30	70 - 130
Ethylbenzene	53.8	54.9	102	1	30	70 - 130
Chlorobenzene	53.8	55.8	104	1	30	70 - 130
1,1,1,2-Tetrachloroethane	53.8	59.0	110	2	30	70 - 130
m,p-Xylenes	108	108	101	3	30	70 - 130
o-Xylene	108	105	98	1	30	70 - 130
Styrene	108	101	94	3	30	70 - 130
Bromoform	53.8	58.6	109	0.4	30	70 - 130
Isopropylbenzene	53.8	58.2	108	4	30	70 - 130
1,1,2,2-Tetrachloroethane	53.8	61.3	~~114~~	3	30	70 - 130
1,2,3-Trichloropropane	53.8	78.6	146 *	16	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5J2622	Prep Method:	EPA 5035A
Percent Solids:	93.00	Laboratory ID:	B5J2622-MSD1
		Client Sample ID:	1501906-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
n-Propyl Benzene	53.8	57.8	108	1	30	70 - 130
Bromobenzene	53.8	63.3	118	5	30	70 - 130
1,3,5-Trimethylbenzene	53.8	56.9	106	2	30	70 - 130
2-Chlorotoluene	53.8	59.9	111	3	30	70 - 130
4-Chlorotoluene	53.8	58.3	108	2	30	70 - 130
tert-Butylbenzene	53.8	55.8	104	0.7	30	70 - 130
1,2,4-Trimethylbenzene	53.8	57.0	106	2	30	70 - 130
sec-Butylbenzene	53.8	51.5	96	2	30	70 - 130
p-Isopropyltoluene	53.8	53.8	100	0.5	30	70 - 130
1,3-Dichlorobenzene	53.8	54.9	102	0.2	30	70 - 130
1,4-Dichlorobenzene	53.8	54.6	102	0.4	30	70 - 130
n-Butyl Benzene	53.8	51.4	96	4	30	70 - 130
1,2-Dichlorobenzene	53.8	57.4	107	2	30	70 - 130
1,2-Dibromo-3-chloropropane	53.8	70.7	132	13	30	40 - 160
1,2,4-Trichlorobenzene	53.8	45.8	85	6	30	70 - 130
Hexachlorobutadiene	53.8	36.1	67 *	12	30	70 - 130
Naphthalene	53.8	55.6	103	1	30	40 - 160
1,2,3-Trichlorobenzene	53.8	44.4	83	9	30	70 - 130
Methyl tert-Butyl Ether	108	139	130	16	30	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Matrix:	Solid	Prep Method:	EPA 5035A
Prep Batch:	B5J2622	Lab Sample ID:	B5J2622-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Acrolein	250	274	110	40 - 160
Acrylonitrile	250	281	112	70 - 130
Acetone	50.0	47.2	94	40 - 160
Dichlorodifluoromethane	50.0	52.6	105	40 - 160
Chloromethane	50.0	57.8	116	40 - 160
Vinyl chloride	50.0	58.8	118	70 - 130
Bromomethane	50.0	54.7	109	40 - 160
Chloroethane	50.0	51.8	104	40 - 160
Trichlorofluoromethane	50.0	53.0	106	40 - 160
Freon 113	50.0	50.0	100	70 - 130
1,1-Dichloroethene	50.0	59.3	119	70 - 130
Carbon disulfide	50.0	62.2	124	70 - 130
Methyl Acetate	50.0	52.2	104	70 - 130
Methylene Chloride	50.0	66.5	133 *	70 - 130
trans-1,2-Dichloroethene	50.0	60.7	121	70 - 130
1,1-Dichloroethane	50.0	58.6	117	70 - 130
2,2-Dichloropropane	50.0	57.0	114	70 - 130
2-Butanone	50.0	47.9	96	40 - 160
cis-1,2-Dichloroethene	50.0	58.6	117	70 - 130
Chloroform	50.0	53.0	106	70 - 130
Bromochloromethane	50.0	54.6	109	70 - 130
Cyclohexane	50.0	52.0	104	70 - 130
1,1,1-Trichloroethane	50.0	57.4	115	70 - 130
t-Butyl alcohol	500	547	109	40 - 160
1,1-Dichloropropene	50.0	53.9	108	70 - 130
Carbon Tetrachloride	50.0	52.7	105	70 - 130
1,2-Dichloroethane	50.0	54.9	110	70 - 130
Benzene	50.0	56.3	113	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Matrix:	Solid	Prep Method:	EPA 5035A
Prep Batch:	B5J2718	Lab Sample ID:	B5J2718-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Acrolein	250	291	116	40 - 160
Acrylonitrile	250	281	112	70 - 130
Acetone	50.0	37.0	74	40 - 160
Dichlorodifluoromethane	50.0	47.2	94	40 - 160
Chloromethane	50.0	55.3	111	40 - 160
Vinyl chloride	50.0	58.8	118	70 - 130
Bromomethane	50.0	57.5	115	40 - 160
Chloroethane	50.0	56.7	113	40 - 160
Trichlorofluoromethane	50.0	56.3	113	40 - 160
Freon 113	50.0	53.8	108	70 - 130
1,1-Dichloroethene	50.0	63.0	126	70 - 130
Carbon disulfide	50.0	62.3	125	70 - 130
Methyl Acetate	50.0	56.0	112	70 - 130
Methylene Chloride	50.0	69.1	138 *	70 - 130
trans-1,2-Dichloroethene	50.0	63.4	127	70 - 130
1,1-Dichloroethane	50.0	63.5	127	70 - 130
2,2-Dichloropropane	50.0	59.7	119	70 - 130
2-Butanone	50.0	53.3	107	40 - 160
cis-1,2-Dichloroethene	50.0	64.0	128	70 - 130
Chloroform	50.0	57.9	116	70 - 130
Bromochloromethane	50.0	57.8	116	70 - 130
Cyclohexane	50.0	54.7	109	70 - 130
1,1,1-Trichloroethane	50.0	59.4	119	70 - 130
t-Butyl alcohol	500	592	118	40 - 160
1,1-Dichloropropene	50.0	54.6	109	70 - 130
Carbon Tetrachloride	50.0	52.2	104	70 - 130
1,2-Dichloroethane	50.0	56.7	113	70 - 130
Benzene	50.0	57.0	114	70 - 130

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501909
Project: 138th Street, Bronx, NY; 10BR188

Sequence: S5J2611 Instrument: GC/MS D
Calibration: 15J2804

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-6 (1501909-01)			*Lab File ID: D12798.D*			*Analyzed: 10/26/15 17:52*			
Pentafluorobenzene	294219	6.44	899797	6.44	33	50 - 200	0.0000	+/-0.50	*
1,4-Difluorobenzene	513110	7.15	1569163	7.14	33	50 - 200	0.0100	+/-0.50	*
Chlorobenzene-d5	291861	11.19	1254965	11.18	23	50 - 200	0.0100	+/-0.50	*
1,4-Dichlorobenzene-d4	72799	14.19	553332	14.19	13	50 - 200	0.0000	+/-0.50	*
EP-7 (1501909-02)			*Lab File ID: D12799.D*			*Analyzed: 10/26/15 18:22*			
Pentafluorobenzene	543658	6.44	899797	6.44	60	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1014165	7.14	1569163	7.14	65	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	776739	11.18	1254965	11.18	62	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	283024	14.18	553332	14.19	51	50 - 200	-0.0100	+/-0.50	
EP-8 (1501909-03RE1)			*Lab File ID: D12800.D*			*Analyzed: 10/26/15 18:52*			
Pentafluorobenzene	343654	6.44	899797	6.44	38	50 - 200	0.0000	+/-0.50	*
1,4-Difluorobenzene	645781	7.14	1569163	7.14	41	50 - 200	0.0000	+/-0.50	*
Chlorobenzene-d5	422796	11.18	1254965	11.18	34	50 - 200	0.0000	+/-0.50	*
1,4-Dichlorobenzene-d4	127612	14.19	553332	14.19	23	50 - 200	0.0000	+/-0.50	*

* Values outside of QC limits

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501909
Project: 138th Street, Bronx, NY; 10BR188

Sequence: S5J2714 Instrument: GC/MS D
Calibration: 15J2804

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-6 (1501909-01RE1)			*Lab File ID: D12825.D*			*Analyzed: 10/27/15 20:53*			
Pentafluorobenzene	292966	6.44	827579	6.43	35	50 - 200	0.0100	+/-0.50	*
1,4-Difluorobenzene	498711	7.15	1476809	7.13	34	50 - 200	0.0200	+/-0.50	*
Chlorobenzene-d5	279560	11.19	1198510	11.18	23	50 - 200	0.0100	+/-0.50	*
1,4-Dichlorobenzene-d4	66108	14.18	494191	14.18	13	50 - 200	0.0000	+/-0.50	*
EP-8 (1501909-03)			*Lab File ID: D12826.D*			*Analyzed: 10/27/15 21:23*			
Pentafluorobenzene	318734	6.44	827579	6.43	39	50 - 200	0.0100	+/-0.50	*
1,4-Difluorobenzene	591003	7.14	1476809	7.13	40	50 - 200	0.0100	+/-0.50	*
Chlorobenzene-d5	407796	11.18	1198510	11.18	34	50 - 200	0.0000	+/-0.50	*
1,4-Dichlorobenzene-d4	133683	14.19	494191	14.18	27	50 - 200	0.0100	+/-0.50	*

* Values outside of QC limits

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501909
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5J2620	Preparation:	EPA 3050B
% Solids:	93.00	Laboratory ID:	B5J2620-MS1
		Client Sample ID:	1501906-03

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)		MS % REC.		QC LIMITS REC.
Aluminum	269	7650	11500	*	1430 *	*	75 - 125
Antimony	269	ND	243		90.3		75 - 125
Arsenic	269	6.96	263		95.1		75 - 125
Barium	269	79.9	331		93.5		75 - 125
Beryllium	269	ND	251		93.3		75 - 125
Cadmium	269	0.862	246		91.2		75 - 125
Calcium	269	8020	7160	*	-318 *	*	75 - 125
Chromium	269	13.5	263		93.0		75 - 125
Cobalt	269	5.47	242		87.8		75 - 125
Copper	269	49.3	306		95.5		75 - 125
Iron	269	14900	17900	*	1110 *	*	75 - 125
Lead	269	105	340		87.5		75 - 125
Magnesium	269	2270	2820	*	206 *	*	75 - 125
Manganese	269	493	580	*	32.5	*	75 - 125
Nickel	269	10.6	247		87.8		75 - 125
Potassium	269	597	1460	*	321	*	75 - 125
Selenium	269	ND	235		87.4		75 - 125
Silver	26.9	ND	23.2		86.4		75 - 125
Sodium	269	138	428		108		75 - 125
Thallium	269	ND	219		81.6		75 - 125
Vanadium	269	18.6	275		95.3		75 - 125
Zinc	269	132	377		91.0		75 - 125

* spiked too low

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501909
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5J2620	Preparation:	EPA 3050B
% Solids:	93.00	Laboratory ID:	B5J2620-MSD1
		Client Sample ID:	1501906-03

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Aluminum	269	11200	1340	* *	2.27	20	75 - 125
Antimony	269	241	89.6		0.800	20	75 - 125
Arsenic	269	260	94.2		0.967	20	75 - 125
Barium	269	324	90.7		2.23	20	75 - 125
Beryllium	269	249	92.7		0.624	20	75 - 125
Cadmium	269	245	90.9		0.329	20	75 - 125
Calcium	269	6520	-558	* *	9.43	20	75 - 125
Chromium	269	259	91.5		1.54	20	75 - 125
Cobalt	269	240	87.4		0.469	20	75 - 125
Copper	269	303	94.4		1.02	20	75 - 125
Iron	269	16100	454	* *	10.3	20	75 - 125
Lead	269	331	84.3		2.60	20	75 - 125
Magnesium	269	2810	203	* *	0.248	20	75 - 125
Manganese	269	592	36.9		2.02	20	75 - 125
Nickel	269	246	87.7		0.196	20	75 - 125
Potassium	269	1400	299	*	4.25	20	75 - 125
Selenium	269	234	86.9		0.574	20	75 - 125
Silver	26.9	23.1	86.1		0.394	20	75 - 125
Sodium	269	441	113		2.99	20	75 - 125
Thallium	269	219	81.5		0.172	20	75 - 125
Vanadium	269	275	95.4		0.0391	20	75 - 125
Zinc	269	369	88.1		2.07	20	75 - 125

* spiked too low

* Values outside of QC limits

Appendix C

Validator Qualifications

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Block 2333, Lot 1
Bronx, Bronx County, NY
NYSDEC BCP # C203057

SDG: 1501914

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

December 2015

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1501914

The data associated with this Sample Delivery Group (SDG) 1501914, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/12/15

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx , NY
SAMPLING DATE:	October 23, 2015
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1501914

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on October 23, 2015. This sample was analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1501914. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1501914, one sample was analyzed and results were reported for 188 analytes. One result was rejected. Even though some results were flagged with a "J" as estimated, all other results (99 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-9(1501914-01)	Several compounds	none	MS/MSD > QC limit	Matrix interference suspected/LCS within QC limits
EP-9(1501914-01)	Methylene Chloride	J detects	LCS > QC limit	Detected results are estimated
EP-9(1501914-01)	Acetone Methylene Chloride	B	Method Blank contamination	Sample results up to 10X blank level have been flagged with a "B". Common lab contaminants.
EP-6(1501909-01)	All analytes	J detects/UJ non-detects	% BFB < QC limit	All results are estimated.
EP-9(1501914-01)	All analytes	J detects/UJ non-detects	IS#1,2,3, and 4 <50 % QC limit	All results are estimated.

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-9(1501914-01)	Several compounds	none	MS/MSD < QC limit	Matrix interference suspected/LCS within QC limits
EP-9(1501914-01)	4-Chloroanailine	"UJ"	LCS < QC limit	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-9(1501914-01)	Manganese	R all data	% Recovery > 200 %	One result was rejected.

Table 6-6 Total Cyanide

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1501914

Client Sample ID:	Lab Sample ID:
EP-9	1501914-01

This data has been reviewed and accepted by:

Daniel Miguel 11/19/2015
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th St., Bronx, NY, 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #:	732-223-2225
OFFICE FAX #:	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brinc.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #:	1501914
AAR WORK ORDER #:	
P.O. #:	

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full											AAR SAMPLE #
EP-9	10/23/15 11:00 AM	S		4	G	✓	✓											-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC ~~E = ENCORE~~ PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____ (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED X FULL ____ EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: J. McGee	Print Name: J. McGee	Print Name: K. Nuniz
Signature: Monica Norton	Signature: [signature]	Signature: [signature]	Signature: K. Nuniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10/26/15	Time: 9:50	Date Received: 10/26/15	Time: 12:20

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 10/26/2015 12:20:00 PM.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2622 and B5J2718 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the Volatile Organic analyses, the MS/MSD for B5J2622 and B5J2718 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits; therefore, no further action required.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2710 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for B5J2710 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9
Lab Sample ID: 1501914-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Date Sampled:	10/23/15 11:00	Prep Date:	10/27/15 09:15	Matrix:	Soil
Percent Solids:	68.60	Prep Method:	EPA 3550B	File ID:	A20145.D
Prep Batch:	B5J2708	Sequence:	S5J2703	Analyzed:	10/27/15 23:05
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.962	0.962	U
319-85-7	beta-BHC	ND	0.962	0.962	U
319-86-8	delta-BHC	ND	0.962	0.962	U
58-89-9	gamma-BHC [Lindane]	ND	0.962	0.962	U
76-44-8	Heptachlor	ND	0.962	0.962	U
309-00-2	Aldrin	ND	0.962	0.962	U
1024-57-3	Heptachlor Epoxide	ND	0.962	0.962	U
959-98-8	Endosulfan I	ND	0.962	0.962	U
60-57-1	Dieldrin	ND	1.94	1.94	U
72-55-9	4,4'-DDE	ND	1.94	1.94	U
72-20-8	Endrin	ND	1.94	1.94	U
33213-65-9	Endosulfan II	ND	1.94	1.94	U
72-54-8	4,4'-DDD	ND	1.94	1.94	U
1031-07-8	Endosulfan sulfate	ND	1.94	1.94	U
50-29-3	4,4'-DDT	ND	1.94	1.94	U
72-43-5	Methoxychlor	ND	9.71	9.71	U
53494-70-5	Endrin ketone	ND	1.94	1.94	U
7421-93-4	Endrin aldehyde	ND	1.94	1.94	U
5103-71-9	alpha-Chlordane	ND	0.962	0.962	U
5566-34-7	gamma-Chlordane	ND	0.962	0.962	U
8001-35-2	Toxaphene	ND	48.5	48.5	U
12674-11-2	Aroclor-1016	ND	24.2	48.5	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9
Lab Sample ID: 1501914-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Date Sampled:	10/23/15 11:00	Prep Date:	10/27/15 09:15	Matrix:	Soil
Percent Solids:	68.60	Prep Method:	EPA 3550B	File ID:	A20145.D
Prep Batch:	B5J2708	Sequence:	S5J2703	Analyzed:	10/27/15 23:05
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	24.2	48.5	U
11141-16-5	Aroclor-1232	ND	24.2	48.5	U
53469-21-9	Aroclor-1242	ND	24.2	48.5	U
12672-29-6	Aroclor-1248	ND	24.2	48.5	U
11097-69-1	Aroclor-1254	ND	24.2	48.5	U
11096-82-5	Aroclor-1260	ND	24.2	48.5	U
37324-23-5	Aroclor-1262	ND	24.2	48.5	U
11100-14-4	Aroclor-1268	ND	24.2	48.5	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	77.7%	30-150
Tetrachloro-m-xylene [2C]	84.9%	30-150
Decachlorobiphenyl	89.5%	30-150
Decachlorobiphenyl [2C]	105%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9
Lab Sample ID: 1501914-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Date Sampled:	10/23/15 11:00	Prep Date:	10/27/15 10:13	Matrix:	Soil
Percent Solids:	68.60	Prep Method:	EPA 3550B GCMS	File ID:	E9353.D
Prep Batch:	B5J2710	Sequence:	S5J2709	Analyzed:	10/27/15 18:25
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	48.5	243	U
108-95-2	Phenol	ND	48.5	243	U
111-44-4	bis(2-chloroethyl)ether	ND	48.5	243	U
95-57-8	2-Chlorophenol	ND	48.5	243	U
541-73-1	1,3-Dichlorobenzene	ND	48.5	243	U
106-46-7	1,4-Dichlorobenzene	ND	48.5	243	U
100-51-6	Benzyl alcohol	ND	48.5	243	U
95-50-1	1,2-Dichlorobenzene	ND	48.5	243	U
95-48-7	2-Methylphenol	ND	48.5	243	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	48.5	243	U
106-44-5	3 & 4-Methylphenol	ND	48.5	243	U
621-64-7	N-Nitroso-di-n-propylamine	ND	48.5	243	U
67-72-1	Hexachloroethane	ND	48.5	243	U
98-95-3	Nitrobenzene	ND	48.5	243	U
78-59-1	Isophorone	ND	48.5	243	U
88-75-5	2-Nitrophenol	ND	48.5	243	U
105-67-9	2,4-Dimethylphenol	ND	48.5	243	U
65-85-0	Benzoic acid	ND	121	485	U
111-91-1	bis(2-chloroethoxy)methane	ND	48.5	243	U
120-83-2	2,4-Dichlorophenol	ND	48.5	243	U
120-82-1	1,2,4-Trichlorobenzene	ND	48.5	243	U
91-20-3	Naphthalene	ND	48.5	243	U
106-47-8	4-Chloroaniline	ND UJ	48.5	243 UJ	U
87-68-3	Hexachlorobutadiene	ND	48.5	243	U
59-50-7	4-Chloro-3-methylphenol	ND	48.5	243	U

MW 12/10/14

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9
Lab Sample ID: 1501914-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Date Sampled:	10/23/15 11:00	Prep Date:	10/27/15 10:13	Matrix:	Soil
Percent Solids:	68.60	Prep Method:	EPA 3550B GCMS	File ID:	E9353.D
Prep Batch:	B5J2710	Sequence:	S5J2709	Analyzed:	10/27/15 18:25
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	48.5	243	U
77-47-4	Hexachlorocyclopentadiene	ND	48.5	243	U
88-06-2	2,4,6-Trichlorophenol	ND	48.5	243	U
95-95-4	2,4,5-Trichlorophenol	ND	48.5	243	U
91-58-7	2-Chloronaphthalene	ND	48.5	243	U
88-74-4	2-Nitroaniline	ND	48.5	243	U
131-11-3	Dimethylphthalate	ND	48.5	243	U
208-96-8	Acenaphthylene	ND	48.5	243	U
99-09-2	3-Nitroaniline	ND	48.5	243	U
83-32-9	Acenaphthene	ND	48.5	243	U
51-28-5	2,4-Dinitrophenol	ND	48.5	485	U
100-02-7	4-Nitrophenol	ND	48.5	243	U
132-64-9	Dibenzofuran	ND	48.5	243	U
606-20-2	2,6-Dinitrotoluene	ND	48.5	243	U
121-14-2	2,4-Dinitrotoluene	ND	48.5	243	U
84-66-2	Diethyl phthalate	ND	48.5	243	U
7005-72-3	4-Chlorophenyl-phenylether	ND	48.5	243	U
86-73-7	Fluorene	ND	48.5	243	U
100-01-6	4-Nitroaniline	ND	48.5	243	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	48.5	243	U
86-30-6	N-Nitrosodiphenylamine	ND	48.5	243	U
101-55-3	4-Bromophenyl-phenylether	ND	48.5	243	U
118-74-1	Hexachlorobenzene	ND	48.5	243	U
87-86-5	Pentachlorophenol	ND	48.5	243	U
85-01-8	Phenanthrene	72.4	48.5	243	J

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9
Lab Sample ID: 1501914-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Date Sampled:	10/23/15 11:00	Prep Date:	10/27/15 10:13	Matrix:	Soil
Percent Solids:	68.60	Prep Method:	EPA 3550B GCMS	File ID:	E9353.D
Prep Batch:	B5J2710	Sequence:	S5J2709	Analyzed:	10/27/15 18:25
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	48.5	243	U
84-74-2	Di-n-butyl phthalate	ND	48.5	243	U
206-44-0	Fluoranthene	86.0	48.5	243	J
129-00-0	Pyrene	85.5	48.5	243	J
85-68-7	Butylbenzylphthalate	ND	48.5	243	U
91-94-1	3,3'-Dichlorobenzidine	ND	121	243	U
56-55-3	Benzo[a]anthracene	ND	48.5	243	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	48.5	243	U
218-01-9	Chrysene	ND	48.5	243	U
117-84-0	Di-n-octyl phthalate	ND	48.5	243	U
205-99-2	Benzo[b]fluoranthene	ND	48.5	243	U
207-08-9	Benzo[k]fluoranthene	ND	48.5	243	U
50-32-8	Benzo[a]pyrene	ND	48.5	243	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	48.5	243	U
53-70-3	Dibenzo(a,h)anthracene	ND	48.5	243	U
191-24-2	Benzo[ghi]perylene	ND	48.5	243	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	60%	30-130
Phenol-d5	74%	30-130
Nitrobenzene-d5	70%	30-130
2-Fluorobiphenyl	68%	30-130
2,4,6-Tribromophenol	74%	30-130
Terphenyl-d14	84%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9
Lab Sample ID: 1501914-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Date Sampled:	10/23/15 11:00	Prep Date:	10/26/15 19:22	Matrix:	Soil
Percent Solids:	68.60	Prep Method:	EPA 5035A	File ID:	D12801.D
Prep Batch:	B5J2622	Sequence:	S5J2611	Analyzed:	10/26/15 19:22
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND UJ	9.76	16.3	U
107-13-1	Acrylonitrile	ND J	3.25	16.3	U
67-64-1	Acetone	5.58 B	1.63	3.25	B
75-71-8	Dichlorodifluoromethane	ND UJ	1.63	3.25	U
74-87-3	Chloromethane	ND	1.63	3.25	U
75-01-4	Vinyl chloride	ND	1.63	3.25	U
74-83-9	Bromomethane	ND	1.63	3.25	U
75-00-3	Chloroethane	ND	1.63	3.25	U
75-69-4	Trichlorofluoromethane	ND	1.63	3.25	U
75-35-4	1,1-Dichloroethene	ND	1.63	3.25	U
75-15-0	Carbon disulfide	ND	1.63	3.25	U
75-09-2	Methylene Chloride	13.4 JB	1.63	3.25	B
156-60-5	trans-1,2-Dichloroethene	ND UJ	1.63	3.25	U
75-34-3	1,1-Dichloroethane	ND	1.63	3.25	U
108-05-4	Vinyl acetate	ND	1.63	3.25	U
590-20-7	2,2-Dichloropropane	ND	1.63	3.25	U
78-93-3	2-Butanone	ND	1.63	3.25	U
156-59-4	cis-1,2-Dichloroethene	ND	1.63	3.25	U
67-66-3	Chloroform	ND	1.63	3.25	U
74-97-5	Bromochloromethane	ND	1.63	3.25	U
71-55-6	1,1,1-Trichloroethane	ND	1.63	3.25	U
563-58-6	1,1-Dichloropropene	ND	1.63	3.25	U
56-23-5	Carbon Tetrachloride	ND	1.63	3.25	U
107-06-2	1,2-Dichloroethane	ND	1.63	3.25	U
71-43-2	Benzene	ND	1.63	3.25	U

MKP 12/10/15

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9
Lab Sample ID: 1501914-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Date Sampled:	10/23/15 11:00	Prep Date:	10/26/15 19:22	Matrix:	Soil
Percent Solids:	68.60	Prep Method:	EPA 5035A	File ID:	D12801.D
Prep Batch:	B5J2622	Sequence:	S5J2611	Analyzed:	10/26/15 19:22
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND uJ	1.63	3.25	U
78-87-5	1,2-Dichloropropane	ND	1.63	3.25	U
75-27-4	Bromodichloromethane	ND	1.63	3.25	U
74-95-3	Dibromomethane	ND	1.63	3.25	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.63	3.25	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.63	3.25	U
108-88-3	Toluene	ND	1.63	3.25	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.63	3.25	U
79-00-5	1,1,2-Trichloroethane	ND	1.63	3.25	U
108-10-1	4-Methyl-2-pentanone	ND	1.63	3.25	U
106-93-4	1,2-Dibromoethane	ND	1.63	3.25	U
591-78-6	2-Hexanone	ND	1.63	3.25	U
142-28-9	1,3-Dichloropropane	ND	1.63	3.25	U
127-18-4	Tetrachloroethene	ND	1.63	3.25	U
124-48-1	Dibromochloromethane	ND	1.63	3.25	U
100-41-4	Ethylbenzene	ND	1.63	3.25	U
108-90-7	Chlorobenzene	ND	1.63	3.25	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.63	3.25	U
108-38-3/106-42	m,p-Xylenes	ND	3.25	6.51	U
95-47-6	o-Xylene	ND	3.25	6.51	U
100-42-5	Styrene	ND	1.63	6.51	U
75-25-2	Bromoform	ND	1.63	3.25	U
98-82-8	Isopropylbenzene	ND	1.63	3.25	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.63	3.25	U
96-18-4	1,2,3-Trichloropropane	ND	1.63	3.25	U

mvp 12/16/15

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9
Lab Sample ID: 1501914-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Date Sampled:	10/23/15 11:00	Prep Date:	10/26/15 19:22	Matrix:	Soil
Percent Solids:	68.60	Prep Method:	EPA 5035A	File ID:	D12801.D
Prep Batch:	B5J2622	Sequence:	S5J2611	Analyzed:	10/26/15 19:22
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND UJ	1.63	3.25	U
108-86-1	Bromobenzene	ND	1.63	3.25	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.63	3.25	U
95-49-8	2-Chlorotoluene	ND	1.63	3.25	U
106-43-4	4-Chlorotoluene	ND	1.63	3.25	U
98-06-6	tert-Butylbenzene	ND	1.63	3.25	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.63	3.25	U
135-98-8	sec-Butylbenzene	ND	1.63	3.25	U
99-87-6	p-Isopropyltoluene	ND	1.63	3.25	U
541-73-1	1,3-Dichlorobenzene	ND	1.63	3.25	U
106-46-7	1,4-Dichlorobenzene	ND	1.63	3.25	U
104-51-8	n-Butyl Benzene	ND	1.63	3.25	U
95-50-1	1,2-Dichlorobenzene	ND	1.63	3.25	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.63	3.25	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.63	3.25	U
87-68-3	Hexachlorobutadiene	ND	1.63	3.25	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.63	3.25	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	123%	70-130
Toluene-d8	98%	70-130
Bromofluorobenzene	77%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

mmp 12/10/15

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9
Lab Sample ID: 1501914-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Date Sampled:	10/23/15 11:00	Matrix:	Soil
Percent Solids:	68.60	File ID:	102715B-016

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	9500	29.2	29.2	1		10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7439-97-6	Mercury	0.170	0.109	0.109	1		10/27/15 09:49	EPA 7471A	10/27/15 12:39 PRT	EPA 7471
7440-36-0	Antimony	ND	5.83	5.83	1	U	10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7440-38-2	Arsenic	2.35	1.46	1.46	1		10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7440-39-3	Barium	57.9	29.2	29.2	1		10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.729	0.729	1	U	10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.729	0.729	1	U	10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7440-70-2	Calcium	8950	36.4	36.4	1		10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7440-47-3	Chromium	16.2	2.92	2.92	1		10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7440-48-4	Cobalt	7.86	7.29	7.29	1		10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7440-50-8	Copper	17.3	4.37	4.37	1		10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7439-89-6	Iron	15100	36.4	36.4	1		10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7439-92-1	Lead	23.1	1.46	1.46	1		10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7439-95-4	Magnesium	7920	72.9	72.9	1		10/27/15 11:02	EPA 3050B	10/28/15 12:38 LIT	EPA 6010
7439-96-5	Manganese	~~278~~ R	2.92	2.92	1		10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7440-02-0	Nickel	14.7	5.83	5.83	1		10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7440-09-7	Potassium	1210	72.9	72.9	1		10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7782-49-2	Selenium	ND	5.83	5.83	1	U	10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7440-22-4	Silver	ND	0.729	0.729	1	U	10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7440-23-5	Sodium	237	72.9	72.9	1		10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7440-28-0	Thallium	ND	2.19	4.37	1	U	10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7440-62-2	Vanadium	21.2	7.29	7.29	1		10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010
7440-66-6	Zinc	52.4	8.75	8.75	1		10/27/15 11:02	EPA 3050B	10/28/15 12:38 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MRP 12/10/15

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9
Lab Sample ID: 1501914-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Date Sampled:	10/23/15 11:00	Matrix:	Soil
Percent Solids:	68.60	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Cyanide (total)	ND	1.46	1.46	1	U	11/03/15 10:10	EPA 9010C	11/03/15 15:07 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	68.6	0.100	0.100	1		10/27/15 14:00	Percent Solids	10/28/15 09:00 CLD	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2710	Prep Method:	EPA 3550B GCMS
Percent Solids:	85.30	Laboratory ID:	B5J2710-MS1
		Client Sample ID:	1501907-04

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Pyridine	1950	ND	1170	60	20 - 160
N-Nitrosodimethylamine	1950	ND	1210	62	20 - 160
Aniline	1950	ND	1730	89	20 - 160
Phenol	1950	ND	1710	88	20 - 160
bis(2-chloroethyl)ether	1950	ND	1520	78	70 - 130
2-Chlorophenol	1950	ND	1800	92	70 - 130
1,3-Dichlorobenzene	1950	ND	1690	86	70 - 130
1,4-Dichlorobenzene	1950	ND	1680	86	70 - 130
Benzyl alcohol	1950	ND	1780	91	20 - 160
1,2-Dichlorobenzene	1950	ND	1680	86	70 - 130
2-Methylphenol	1950	ND	1840	94	20 - 160
bis(2-chloroisopropyl)ether	1950	ND	1510	77	70 - 130
3 & 4-Methylphenol	1950	ND	1880	96	20 - 160
N-Nitroso-di-n-propylamine	1950	ND	1700	87	70 - 130
Hexachloroethane	1950	ND	1620	83	20 - 160
Nitrobenzene	1950	ND	1610	82	70 - 130
Isophorone	1950	ND	1570	80	70 - 130
2-Nitrophenol	1950	ND	1770	91	70 - 130
2,4-Dimethylphenol	1950	ND	1690	86	70 - 130
bis(2-chloroethoxy)methane	1950	ND	1610	82	70 - 130
2,4-Dichlorophenol	1950	ND	1710	87	70 - 130
1,2,4-Trichlorobenzene	1950	ND	1650	84	70 - 130
Naphthalene	1950	ND	1620	83	70 - 130
4-Chloroaniline	1950	ND	1510	77	20 - 160
Hexachlorobutadiene	1950	ND	1570	80	70 - 130
4-Chloro-3-methylphenol	1950	ND	1680	86	70 - 130
2-Methylnaphthylene	1950	ND	1630	83	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2710	Prep Method:	EPA 3550B GCMS
Percent Solids:	85.30	Laboratory ID:	B5J2710-MS1
		Client Sample ID:	1501907-04

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Hexachlorocyclopentadiene	1950	ND	553	28		20 - 160
2,4,6-Trichlorophenol	1950	ND	1690	86		70 - 130
2,4,5-Trichlorophenol	1950	ND	1750	90		70 - 130
2-Chloronaphthalene	1950	ND	1690	87		70 - 130
2-Nitroaniline	1950	ND	1660	85		70 - 130
Dimethylphthalate	1950	ND	1630	83		70 - 130
Acenaphthylene	1950	ND	1570	81		70 - 130
3-Nitroaniline	1950	ND	1680	86		70 - 130
Acenaphthene	1950	ND	1630	83		70 - 130
2,4-Dinitrophenol	1950	ND	989	51		20 - 160
4-Nitrophenol	1950	ND	1280	66		20 - 160
Dibenzofuran	1950	ND	1710	87		70 - 130
2,6-Dinitrotoluene	1950	ND	1750	89		70 - 130
2,4-Dinitrotoluene	1950	ND	1750	90		70 - 130
2,3,4,6-Tetrachlorophenol	1950	ND	1630	84		70 - 130
Diethyl phthalate	1950	ND	1640	84		70 - 130
4-Chlorophenyl-phenylether	1950	ND	1570	80		70 - 130
Fluorene	1950	ND	1610	82		70 - 130
4-Nitroaniline	1950	ND	2000	102		70 - 130
4,6-Dinitro-2-methylphenol	1950	ND	1280	65	*	70 - 130
Carbazole	1950	ND	1700	87		70 - 130
N-Nitrosodiphenylamine	1950	ND	1660	85		20 - 160
Azobenzene	1950	ND	1600	82		70 - 130
4-Bromophenyl-phenylether	1950	ND	1640	84		70 - 130
Hexachlorobenzene	1950	ND	1690	86		70 - 130
Pentachlorophenol	1950	ND	1230	63		20 - 160
Phenanthrene	1950	39.5	1750	87		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2710	Prep Method:	EPA 3550B GCMS
Percent Solids:	85.30	Laboratory ID:	B5J2710-MS1
		Client Sample ID:	1501907-04

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Anthracene	1950	ND	1520	78		70 - 130
Di-n-butyl phthalate	1950	ND	1330	68	*	70 - 130
Fluoranthene	1950	88.3	1670	81		70 - 130
Pyrene	1950	104	2140	104		70 - 130
Butylbenzylphthalate	1950	ND	1950	100		70 - 130
Benzo[a]anthracene	1950	39.1	1620	81		70 - 130
bis(2-ethylhexyl)phthalate	1950	ND	1770	91		70 - 130
Chrysene	1950	54.3	1940	96		70 - 130
Di-n-octyl phthalate	1950	ND	1870	96		70 - 130
Benzo[b]fluoranthene	1950	46.5	1900	95		70 - 130
Benzo[k]fluoranthene	1950	43.4	2150	108		70 - 130
Benzo[a]pyrene	1950	41.8	1750	87		70 - 130
Indeno(1,2,3-cd)pyrene	1950	ND	1220	62	*	70 - 130
Dibenzo(a,h)anthracene	1950	ND	1290	66	*	70 - 130
Benzo[ghi]perylene	1950	ND	1030	53	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2710	Prep Method:	EPA 3550B GCMS
Percent Solids:	85.30	Laboratory ID:	B5J2710-MSD1
		Client Sample ID:	1501907-04

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Pyridine	1950	1200	61	3	30	20 - 160
N-Nitrosodimethylamine	1950	1250	64	3	30	20 - 160
Aniline	1950	1650	84	5	30	20 - 160
Phenol	1950	1610	83	6	30	20 - 160
bis(2-chloroethyl)ether	1950	1490	76	2	30	70 - 130
2-Chlorophenol	1950	1730	88	4	30	70 - 130
1,3-Dichlorobenzene	1950	1620	83	4	30	70 - 130
1,4-Dichlorobenzene	1950	1600	82	5	30	70 - 130
Benzyl alcohol	1950	1710	87	4	30	20 - 160
1,2-Dichlorobenzene	1950	1600	82	5	30	70 - 130
2-Methylphenol	1950	1740	89	6	30	20 - 160
bis(2-chloroisopropyl)ether	1950	1400	72	8	30	70 - 130
3 & 4-Methylphenol	1950	1780	91	5	30	20 - 160
N-Nitroso-di-n-propylamine	1950	1590	81	7	30	70 - 130
Hexachloroethane	1950	1600	82	2	30	20 - 160
Nitrobenzene	1950	1540	79	4	30	70 - 130
Isophorone	1950	1500	77	5	30	70 - 130
2-Nitrophenol	1950	1660	85	6	30	70 - 130
2,4-Dimethylphenol	1950	1580	81	6	30	70 - 130
bis(2-chloroethoxy)methane	1950	1530	78	5	30	70 - 130
2,4-Dichlorophenol	1950	1650	85	3	30	70 - 130
1,2,4-Trichlorobenzene	1950	1610	82	3	30	70 - 130
Naphthalene	1950	1550	79	5	30	70 - 130
4-Chloroaniline	1950	1320	68	13	30	20 - 160
Hexachlorobutadiene	1950	1540	79	2	30	70 - 130
4-Chloro-3-methylphenol	1950	1610	83	4	30	70 - 130
2-Methylnaphthylene	1950	1550	79	5	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2710	Prep Method:	EPA 3550B GCMS
Percent Solids:	85.30	Laboratory ID:	B5J2710-MSD1
		Client Sample ID:	1501907-04

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Hexachlorocyclopentadiene	1950	604	31	9	30	20 - 160
2,4,6-Trichlorophenol	1950	1670	85	1	30	70 - 130
2,4,5-Trichlorophenol	1950	1680	86	4	30	70 - 130
2-Chloronaphthalene	1950	1660	85	2	30	70 - 130
2-Nitroaniline	1950	1590	81	4	30	70 - 130
Dimethylphthalate	1950	1570	81	3	30	70 - 130
Acenaphthylene	1950	1570	80	0.3	30	70 - 130
3-Nitroaniline	1950	1620	83	4	30	70 - 130
Acenaphthene	1950	1570	80	4	30	70 - 130
2,4-Dinitrophenol	1950	827	42	18	30	20 - 160
4-Nitrophenol	1950	1250	64	3	30	20 - 160
Dibenzofuran	1950	1650	85	3	30	70 - 130
2,6-Dinitrotoluene	1950	1650	84	6	30	70 - 130
2,4-Dinitrotoluene	1950	1670	86	5	30	70 - 130
2,3,4,6-Tetrachlorophenol	1950	1580	81	4	30	70 - 130
Diethyl phthalate	1950	1570	80	4	30	70 - 130
4-Chlorophenyl-phenylether	1950	1570	80	0.1	30	70 - 130
Fluorene	1950	1590	81	2	30	70 - 130
4-Nitroaniline	1950	1890	97	6	30	70 - 130
4,6-Dinitro-2-methylphenol	1950	1210	62 *	5	30	70 - 130
Carbazole	1950	1630	84	4	30	70 - 130
N-Nitrosodiphenylamine	1950	1570	80	6	30	20 - 160
Azobenzene	1950	1540	79	4	30	70 - 130
4-Bromophenyl-phenylether	1950	1550	79	6	30	70 - 130
Hexachlorobenzene	1950	1620	83	4	30	70 - 130
Pentachlorophenol	1950	1200	61	3	30	20 - 160
Phenanthrene	1950	1550	77	12	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J2710	Prep Method:	EPA 3550B GCMS
Percent Solids:	85.30	Laboratory ID:	B5J2710-MSD1
		Client Sample ID:	1501907-04

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Anthracene	1950	1470	75		4	30	70 - 130
Di-n-butyl phthalate	1950	1430	73		7	30	70 - 130
Fluoranthene	1950	1560	75		7	30	70 - 130
Pyrene	1950	2060	100		4	30	70 - 130
Butylbenzylphthalate	1950	2090	107		7	30	70 - 130
Benzo[a]anthracene	1950	1540	77		5	30	70 - 130
bis(2-ethylhexyl)phthalate	1950	1720	88		3	30	70 - 130
Chrysene	1950	1770	88		9	30	70 - 130
Di-n-octyl phthalate	1950	1850	95		1	30	70 - 130
Benzo[b]fluoranthene	1950	1770	88		7	30	70 - 130
Benzo[k]fluoranthene	1950	1960	98		9	30	70 - 130
Benzo[a]pyrene	1950	1620	81		8	30	70 - 130
Indeno(1,2,3-cd)pyrene	1950	1110	57	*	9	30	70 - 130
Dibenzo(a,h)anthracene	1950	1170	60	*	10	30	70 - 130
Benzo[ghi]perylene	1950	916	47	*	12	30	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5J2710	Lab Sample ID:	B5J2710-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1330	80	20 - 160
N-Nitrosodimethylamine	1670	1340	80	20 - 160
Aniline	1670	1450	87	20 - 160
Phenol	1670	1650	99	20 - 160
bis(2-chloroethyl)ether	1670	1600	96	70 - 130
2-Chlorophenol	1670	1490	89	70 - 130
1,3-Dichlorobenzene	1670	1470	88	70 - 130
1,4-Dichlorobenzene	1670	1480	89	70 - 130
Benzyl alcohol	1670	1450	87	20 - 160
1,2-Dichlorobenzene	1670	1470	88	70 - 130
2-Methylphenol	1670	1460	88	20 - 160
bis(2-chloroisopropyl)ether	1670	1740	104	70 - 130
3 & 4-Methylphenol	1670	1350	81	20 - 160
N-Nitroso-di-n-propylamine	1670	1400	84	70 - 130
Hexachloroethane	1670	1470	88	20 - 160
Nitrobenzene	1670	1460	88	70 - 130
Isophorone	1670	1470	88	70 - 130
2-Nitrophenol	1670	1480	89	70 - 130
2,4-Dimethylphenol	1670	1490	90	70 - 130
bis(2-chloroethoxy)methane	1670	1470	88	70 - 130
2,4-Dichlorophenol	1670	1440	87	70 - 130
1,2,4-Trichlorobenzene	1670	1380	83	70 - 130
Naphthalene	1670	1420	85	70 - 130
4-Chloroaniline	1670	937	56 *	70 - 130
Hexachlorobutadiene	1670	1330	80	70 - 130
4-Chloro-3-methylphenol	1670	1480	89	70 - 130
2-Methylnaphthylene	1670	1420	85	70 - 130
Hexachlorocyclopentadiene	1670	966	58	20 - 160

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

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Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501914
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5J2622-BLK1	File ID:	D12785.D
Batch:	B5J2622	Prepared:	10/26/15 10:59	Analyzed:	10/26/15 10:59
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5J2611	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	2.37	1.00	2.00	
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	4.39	1.00	2.00	
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501914
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5J2622-BLK1	File ID:	D12785.D
Batch:	B5J2622	Prepared:	10/26/15 10:59	Analyzed:	10/26/15 10:59
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5J2611	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
71-43-2	Benzene	ND	1.00	2.00	U
79-01-6	Trichloroethene	ND	1.00	2.00	U
78-87-5	1,2-Dichloropropane	ND	1.00	2.00	U
75-27-4	Bromodichloromethane	ND	1.00	2.00	U
74-95-3	Dibromomethane	ND	1.00	2.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.00	2.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.00	2.00	U
108-88-3	Toluene	ND	1.00	2.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.00	2.00	U
79-00-5	1,1,2-Trichloroethane	ND	1.00	2.00	U
108-10-1	4-Methyl-2-pentanone	ND	1.00	2.00	U
106-93-4	1,2-Dibromoethane	ND	1.00	2.00	U
591-78-6	2-Hexanone	ND	1.00	2.00	U
142-28-9	1,3-Dichloropropane	ND	1.00	2.00	U
127-18-4	Tetrachloroethene	ND	1.00	2.00	U
124-48-1	Dibromochloromethane	ND	1.00	2.00	U
100-41-4	Ethylbenzene	ND	1.00	2.00	U
108-90-7	Chlorobenzene	ND	1.00	2.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.00	2.00	U
108-38-3/106-42-3	m,p-Xylenes	ND	2.00	4.00	U
95-47-6	o-Xylene	ND	2.00	4.00	U
100-42-5	Styrene	ND	1.00	4.00	U
75-25-2	Bromoform	ND	1.00	2.00	U
98-82-8	Isopropylbenzene	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501914
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5J2622-BLK1	File ID:	D12785.D
Batch:	B5J2622	Prepared:	10/26/15 10:59	Analyzed:	10/26/15 10:59
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5J2611	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane	ND	1.00	2.00	U
103-65-1	n-Propyl Benzene	ND	1.00	2.00	U
108-86-1	Bromobenzene	ND	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.00	2.00	U
95-49-8	2-Chlorotoluene	ND	1.00	2.00	U
106-43-4	4-Chlorotoluene	ND	1.00	2.00	U
98-06-6	tert-Butylbenzene	ND	1.00	2.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.00	2.00	U
135-98-8	sec-Butylbenzene	ND	1.00	2.00	U
99-87-6	p-Isopropyltoluene	ND	1.00	2.00	U
541-73-1	1,3-Dichlorobenzene	ND	1.00	2.00	U
106-46-7	1,4-Dichlorobenzene	ND	1.00	2.00	U
104-51-8	n-Butyl Benzene	ND	1.00	2.00	U
95-50-1	1,2-Dichlorobenzene	ND	1.00	2.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.00	2.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.00	2.00	U
87-68-3	Hexachlorobutadiene	ND	1.00	2.00	U
91-20-3	Naphthalene	ND	1.00	2.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.00	2.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	106%	70-130
Toluene-d8	104%	70-130
Bromofluorobenzene	101%	70-130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5J2622	Prep Method:	EPA 5035A
Percent Solids:	93.00	Laboratory ID:	B5J2622-MS1
		Client Sample ID:	1501906-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Acrolein	269	ND	286	107		40 - 160
Acrylonitrile	269	ND	301	112		70 - 130
Acetone	53.8	2.84	62.0	110		40 - 160
Dichlorodifluoromethane	53.8	ND	52.7	98		40 - 160
Chloromethane	53.8	ND	62.2	116		40 - 160
Vinyl chloride	53.8	ND	61.5	114		70 - 130
Bromomethane	53.8	ND	61.0	113		40 - 160
Chloroethane	53.8	ND	54.7	102		40 - 160
Trichlorofluoromethane	53.8	ND	57.5	107		40 - 160
Freon 113	53.8	ND	51.3	95		70 - 130
1,1-Dichloroethene	53.8	ND	60.7	113		70 - 130
Carbon disulfide	53.8	ND	60.2	112		70 - 130
Methyl Acetate	53.8	ND	66.8	124		70 - 130
Methylene Chloride	53.8	1.90	75.0	136	*	70 - 130
trans-1,2-Dichloroethene	53.8	ND	61.8	115		70 - 130
1,1-Dichloroethane	53.8	ND	63.1	117		70 - 130
2,2-Dichloropropane	53.8	ND	61.0	113		70 - 130
2-Butanone	53.8	ND	55.5	103		40 - 160
cis-1,2-Dichloroethene	53.8	ND	64.1	119		70 - 130
Chloroform	53.8	ND	60.2	112		70 - 130
Bromochloromethane	53.8	ND	60.9	113		70 - 130
Cyclohexane	53.8	ND	51.7	96		70 - 130
1,1,1-Trichloroethane	53.8	ND	59.9	111		70 - 130
t-Butyl alcohol	538	ND	625	116		40 - 160
1,1-Dichloropropene	53.8	ND	55.2	103		70 - 130
Carbon Tetrachloride	53.8	ND	53.2	99		70 - 130
1,2-Dichloroethane	53.8	ND	61.1	114		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5J2622	Prep Method:	EPA 5035A
Percent Solids:	93.00	Laboratory ID:	B5J2622-MS1
		Client Sample ID:	1501906-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Benzene	53.8	ND	59.3	110	70 - 130
Trichloroethene	53.8	ND	60.8	113	70 - 130
Methylcyclohexane	53.8	ND	44.7	83	70 - 130
1,2-Dichloropropane	53.8	ND	61.7	115	70 - 130
Bromodichloromethane	53.8	ND	60.2	112	70 - 130
Dibromomethane	53.8	ND	60.2	112	70 - 130
2-Chloroethyl vinyl ether	53.8	ND	61.4	114	40 - 160
cis-1,3-Dichloropropene	53.8	ND	61.7	115	70 - 130
Toluene	53.8	ND	56.9	106	70 - 130
trans-1,3-Dichloropropene	53.8	ND	62.1	116	70 - 130
1,1,2-Trichloroethane	53.8	ND	64.0	119	70 - 130
4-Methyl-2-pentanone	53.8	ND	59.9	111	40 - 160
1,2-Dibromoethane	53.8	ND	62.7	117	70 - 130
2-Hexanone	53.8	ND	53.1	99	40 - 160
1,3-Dichloropropane	53.8	ND	63.2	118	70 - 130
Tetrachloroethene	53.8	ND	51.9	97	70 - 130
Dibromochloromethane	53.8	ND	59.9	111	70 - 130
Ethylbenzene	53.8	ND	55.7	104	70 - 130
Chlorobenzene	53.8	ND	56.4	105	70 - 130
1,1,1,2-Tetrachloroethane	53.8	ND	58.0	108	70 - 130
m,p-Xylenes	108	ND	111	103	70 - 130
o-Xylene	108	ND	107	99	70 - 130
Styrene	108	ND	105	98	70 - 130
Bromoform	53.8	ND	58.8	109	70 - 130
Isopropylbenzene	53.8	ND	56.1	104	70 - 130
1,1,2,2-Tetrachloroethane	53.8	ND	63.3	118	70 - 130
1,2,3-Trichloropropane	53.8	ND	67.2	125	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5J2622	Prep Method:	EPA 5035A
Percent Solids:	93.00	Laboratory ID:	B5J2622-MS1
		Client Sample ID:	1501906-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
n-Propyl Benzene	53.8	ND	57.3	107	70 - 130
Bromobenzene	53.8	ND	59.9	111	70 - 130
1,3,5-Trimethylbenzene	53.8	ND	55.8	104	70 - 130
2-Chlorotoluene	53.8	ND	58.4	109	70 - 130
4-Chlorotoluene	53.8	ND	57.4	107	70 - 130
tert-Butylbenzene	53.8	ND	55.4	103	70 - 130
1,2,4-Trimethylbenzene	53.8	ND	55.7	104	70 - 130
sec-Butylbenzene	53.8	ND	52.8	98	70 - 130
p-Isopropyltoluene	53.8	ND	54.1	101	70 - 130
1,3-Dichlorobenzene	53.8	ND	54.8	102	70 - 130
1,4-Dichlorobenzene	53.8	ND	54.8	102	70 - 130
n-Butyl Benzene	53.8	ND	53.5	99	70 - 130
1,2-Dichlorobenzene	53.8	ND	56.3	105	70 - 130
1,2-Dibromo-3-chloropropane	53.8	ND	61.8	115	40 - 160
1,2,4-Trichlorobenzene	53.8	ND	48.8	91	70 - 130
Hexachlorobutadiene	53.8	ND	40.7	76	70 - 130
Naphthalene	53.8	ND	56.1	104	40 - 160
1,2,3-Trichlorobenzene	53.8	ND	48.8	91	70 - 130
Methyl tert-Butyl Ether	108	ND	119	110	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5J2622	Prep Method:	EPA 5035A
Percent Solids:	93.00	Laboratory ID:	B5J2622-MSD1
		Client Sample ID:	1501906-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Acrolein	269	240	89	18	30	40 - 160
Acrylonitrile	269	312	116	3	30	70 - 130
Acetone	53.8	66.6	119	7	30	40 - 160
Dichlorodifluoromethane	53.8	53.3	99	1	30	40 - 160
Chloromethane	53.8	61.7	115	0.8	30	40 - 160
Vinyl chloride	53.8	61.4	114	0.2	30	70 - 130
Bromomethane	53.8	61.8	115	1	30	40 - 160
Chloroethane	53.8	52.5	98	4	30	40 - 160
Trichlorofluoromethane	53.8	57.3	107	0.3	30	40 - 160
Freon 113	53.8	50.4	94	2	30	70 - 130
1,1-Dichloroethene	53.8	62.0	115	2	30	70 - 130
Carbon disulfide	53.8	59.5	111	1	30	70 - 130
Methyl Acetate	53.8	75.0	139 *	12	30	70 - 130
Methylene Chloride	53.8	79.3	144 *	6	30	70 - 130
trans-1,2-Dichloroethene	53.8	62.9	117	2	30	70 - 130
1,1-Dichloroethane	53.8	64.1	119	2	30	70 - 130
2,2-Dichloropropane	53.8	61.5	114	0.8	30	70 - 130
2-Butanone	53.8	61.2	114	10	30	40 - 160
cis-1,2-Dichloroethene	53.8	64.7	120	1	30	70 - 130
Chloroform	53.8	61.3	114	2	30	70 - 130
Bromochloromethane	53.8	65.8	122	8	30	70 - 130
Cyclohexane	53.8	50.0	93	3	30	70 - 130
1,1,1-Trichloroethane	53.8	60.1	112	0.4	30	70 - 130
t-Butyl alcohol	538	702	131	12	30	40 - 160
1,1-Dichloropropene	53.8	54.2	101	2	30	70 - 130
Carbon Tetrachloride	53.8	52.8	98	0.7	30	70 - 130
1,2-Dichloroethane	53.8	62.5	116	2	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5J2622	Prep Method:	EPA 5035A
Percent Solids:	93.00	Laboratory ID:	B5J2622-MSD1
		Client Sample ID:	1501906-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	53.8	60.2	112	2	30	70 - 130
Trichloroethene	53.8	67.2	125	10	30	70 - 130
Methylcyclohexane	53.8	41.9	78	6	30	70 - 130
1,2-Dichloropropane	53.8	63.7	118	3	30	70 - 130
Bromodichloromethane	53.8	60.3	112	0.2	30	70 - 130
Dibromomethane	53.8	63.0	117	5	30	70 - 130
2-Chloroethyl vinyl ether	53.8	64.7	120	5	30	40 - 160
cis-1,3-Dichloropropene	53.8	62.8	117	2	30	70 - 130
Toluene	53.8	56.7	105	0.3	30	70 - 130
trans-1,3-Dichloropropene	53.8	64.3	120	3	30	70 - 130
1,1,2-Trichloroethane	53.8	66.2	123	3	30	70 - 130
4-Methyl-2-pentanone	53.8	64.5	120	7	30	40 - 160
1,2-Dibromoethane	53.8	65.6	122	5	30	70 - 130
2-Hexanone	53.8	57.9	108	9	30	40 - 160
1,3-Dichloropropane	53.8	66.7	124	5	30	70 - 130
Tetrachloroethene	53.8	50.7	94	2	30	70 - 130
Dibromochloromethane	53.8	63.3	118	5	30	70 - 130
Ethylbenzene	53.8	54.9	102	1	30	70 - 130
Chlorobenzene	53.8	55.8	104	1	30	70 - 130
1,1,1,2-Tetrachloroethane	53.8	59.0	110	2	30	70 - 130
m,p-Xylenes	108	108	101	3	30	70 - 130
o-Xylene	108	105	98	1	30	70 - 130
Styrene	108	101	94	3	30	70 - 130
Bromoform	53.8	58.6	109	0.4	30	70 - 130
Isopropylbenzene	53.8	58.2	108	4	30	70 - 130
1,1,2,2-Tetrachloroethane	53.8	61.3	114	3	30	70 - 130
1,2,3-Trichloropropane	53.8	78.6	146	16	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5J2622	Prep Method:	EPA 5035A
Percent Solids:	93.00	Laboratory ID:	B5J2622-MSD1
		Client Sample ID:	1501906-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
n-Propyl Benzene	53.8	57.8	108	1	30	70 - 130
Bromobenzene	53.8	63.3	118	5	30	70 - 130
1,3,5-Trimethylbenzene	53.8	56.9	106	2	30	70 - 130
2-Chlorotoluene	53.8	59.9	111	3	30	70 - 130
4-Chlorotoluene	53.8	58.3	108	2	30	70 - 130
tert-Butylbenzene	53.8	55.8	104	0.7	30	70 - 130
1,2,4-Trimethylbenzene	53.8	57.0	106	2	30	70 - 130
sec-Butylbenzene	53.8	51.5	96	2	30	70 - 130
p-Isopropyltoluene	53.8	53.8	100	0.5	30	70 - 130
1,3-Dichlorobenzene	53.8	54.9	102	0.2	30	70 - 130
1,4-Dichlorobenzene	53.8	54.6	102	0.4	30	70 - 130
n-Butyl Benzene	53.8	51.4	96	4	30	70 - 130
1,2-Dichlorobenzene	53.8	57.4	107	2	30	70 - 130
1,2-Dibromo-3-chloropropane	53.8	70.7	132	13	30	40 - 160
1,2,4-Trichlorobenzene	53.8	45.8	85	6	30	70 - 130
Hexachlorobutadiene	53.8	36.1	67 *	12	30	70 - 130
Naphthalene	53.8	55.6	103	1	30	40 - 160
1,2,3-Trichlorobenzene	53.8	44.4	83	9	30	70 - 130
Methyl tert-Butyl Ether	108	139	130	16	30	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Matrix:	Solid	Prep Method:	EPA 5035A
Prep Batch:	B5J2622	Lab Sample ID:	B5J2622-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Acrolein	250	274	110	40 - 160
Acrylonitrile	250	281	112	70 - 130
Acetone	50.0	47.2	94	40 - 160
Dichlorodifluoromethane	50.0	52.6	105	40 - 160
Chloromethane	50.0	57.8	116	40 - 160
Vinyl chloride	50.0	58.8	118	70 - 130
Bromomethane	50.0	54.7	109	40 - 160
Chloroethane	50.0	51.8	104	40 - 160
Trichlorofluoromethane	50.0	53.0	106	40 - 160
Freon 113	50.0	50.0	100	70 - 130
1,1-Dichloroethene	50.0	59.3	119	70 - 130
Carbon disulfide	50.0	62.2	124	70 - 130
Methyl Acetate	50.0	52.2	104	70 - 130
Methylene Chloride	50.0	66.5	133 *	70 - 130
trans-1,2-Dichloroethene	50.0	60.7	121	70 - 130
1,1-Dichloroethane	50.0	58.6	117	70 - 130
2,2-Dichloropropane	50.0	57.0	114	70 - 130
2-Butanone	50.0	47.9	96	40 - 160
cis-1,2-Dichloroethene	50.0	58.6	117	70 - 130
Chloroform	50.0	53.0	106	70 - 130
Bromochloromethane	50.0	54.6	109	70 - 130
Cyclohexane	50.0	52.0	104	70 - 130
1,1,1-Trichloroethane	50.0	57.4	115	70 - 130
t-Butyl alcohol	500	547	109	40 - 160
1,1-Dichloropropene	50.0	53.9	108	70 - 130
Carbon Tetrachloride	50.0	52.7	105	70 - 130
1,2-Dichloroethane	50.0	54.9	110	70 - 130
Benzene	50.0	56.3	113	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Matrix:	Solid	Prep Method:	EPA 5035A
Prep Batch:	B5J2718	Lab Sample ID:	B5J2718-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Acrolein	250	291	116	40 - 160
Acrylonitrile	250	281	112	70 - 130
Acetone	50.0	37.0	74	40 - 160
Dichlorodifluoromethane	50.0	47.2	94	40 - 160
Chloromethane	50.0	55.3	111	40 - 160
Vinyl chloride	50.0	58.8	118	70 - 130
Bromomethane	50.0	57.5	115	40 - 160
Chloroethane	50.0	56.7	113	40 - 160
Trichlorofluoromethane	50.0	56.3	113	40 - 160
Freon 113	50.0	53.8	108	70 - 130
1,1-Dichloroethene	50.0	63.0	126	70 - 130
Carbon disulfide	50.0	62.3	125	70 - 130
Methyl Acetate	50.0	56.0	112	70 - 130
Methylene Chloride	50.0	69.1	138	70 - 130
trans-1,2-Dichloroethene	50.0	63.4	127	70 - 130
1,1-Dichloroethane	50.0	63.5	127	70 - 130
2,2-Dichloropropane	50.0	59.7	119	70 - 130
2-Butanone	50.0	53.3	107	40 - 160
cis-1,2-Dichloroethene	50.0	64.0	128	70 - 130
Chloroform	50.0	57.9	116	70 - 130
Bromochloromethane	50.0	57.8	116	70 - 130
Cyclohexane	50.0	54.7	109	70 - 130
1,1,1-Trichloroethane	50.0	59.4	119	70 - 130
t-Butyl alcohol	500	592	118	40 - 160
1,1-Dichloropropene	50.0	54.6	109	70 - 130
Carbon Tetrachloride	50.0	52.2	104	70 - 130
1,2-Dichloroethane	50.0	56.7	113	70 - 130
Benzene	50.0	57.0	114	70 - 130

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501914
Project: 138th Street, Bronx, NY; 10BR188

Sequence: S5J2611 Instrument: GC/MS D
Calibration: 15J2804

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-9 (1501914-01)			*Lab File ID: D12801.D*			*Analyzed: 10/26/15 19:22*			
Pentafluorobenzene	410496	6.44	899797	6.44	46	50 - 200	0.0000	+/-0.50	*
1,4-Difluorobenzene	759935	7.14	1569163	7.14	48	50 - 200	0.0000	+/-0.50	*
Chlorobenzene-d5	541351	11.18	1254965	11.18	43	50 - 200	0.0000	+/-0.50	*
1,4-Dichlorobenzene-d4	177387	14.18	553332	14.19	32	50 - 200	-0.0100	+/-0.50	*

* Values outside of QC limits

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501914
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5J2712	Preparation:	EPA 3050B
% Solids:	85.30	Laboratory ID:	B5J2712-MS1
		Client Sample ID:	1501907-04

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)		MS % REC.		QC LIMITS REC.
Aluminum	293	16100	23300	*	2460 *	*	75 - 125
Antimony	293	ND	262		89.3		75 - 125
Arsenic	293	6.64	289		96.4		75 - 125
Barium	293	180	490		106		75 - 125
Beryllium	293	1.24	275		93.5		75 - 125
Cadmium	293	ND	267		91.2		75 - 125
Calcium	293	1930	3610	*	572 *	*	75 - 125
Chromium	293	31.4	304		93.2		75 - 125
Cobalt	293	12.9	277		90.2		75 - 125
Copper	293	10.5	287		94.3		75 - 125
Lead	293	134	450		108		75 - 125
Manganese	293	651	1650	*	341	*	75 - 125
Nickel	293	27.0	287		88.7		75 - 125
Potassium	293	1400	2930	*	524 *	*	75 - 125
Selenium	293	ND	258		88.0		75 - 125
Silver	29.3	ND	25.8		87.9		75 - 125
Sodium	293	127	447		109		75 - 125
Thallium	293	ND	242		82.6		75 - 125
Vanadium	293	39.1	320		95.9		75 - 125

* spiked too low

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501914
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5J2712	Preparation:	EPA 3050B
% Solids:	85.30	Laboratory ID:	B5J2712-MSD1
		Client Sample ID:	1501907-04

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Aluminum	293	23200	2430 *	0.379	20	75 - 125
Antimony	293	252	86.1	3.67	20	75 - 125
Arsenic	293	279	93.1	3.36	20	75 - 125
Barium	293	471	99.2	3.97	20	75 - 125
Beryllium	293	265	90.0	3.78	20	75 - 125
Cadmium	293	258	88.1	3.50	20	75 - 125
Calcium	293	3400	499 *	6.12	20	75 - 125
Chromium	293	294	89.6	3.55	20	75 - 125
Cobalt	293	264	85.6	5.00	20	75 - 125
Copper	293	276	90.5	3.98	20	75 - 125
Lead	293	369	80.2	19.8	20	75 - 125
Manganese	293	1380	247 *	18.2	20	75 - 125
Nickel	293	277	85.2	3.64	20	75 - 125
Potassium	293	3200	615 *	8.74	20	75 - 125
Selenium	293	250	85.4	3.00	20	75 - 125
Silver	29.3	25.0	85.2	3.14	20	75 - 125
Sodium	293	439	106	1.76	20	75 - 125
Thallium	293	234	80.0	3.20	20	75 - 125
Vanadium	293	307	91.6	4.05	20	75 - 125

Appendix C

Validator Qualifications

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Block 2333, Lot 1
Bronx, Bronx County, NY
NYSDEC BCP # C203057

SDG: 1501923

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

December 2015

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

REVIEWER'S NARRATIVE
SDG 1501923

The data associated with this Sample Delivery Group (SDG) 1501923, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/12/15
Michael K. Perry
Chemist

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1.0 SUMMARY

SITE:	255 East 138th Street. Bronx , NY
SAMPLING DATE:	October 26, 2015
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1501923

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on October 26, 2015. This sample was analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1501923. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1501923, one sample was analyzed and results were reported for 188 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that are estimated and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-10(1501923-01)	Several compounds	none	MS/MSD > QC limit	Matrix interference suspected/LCS within QC limits
EP-10(1501923-01)	Acetone	B	Method Blank contamination	Sample results up to 10X blank level have been flagged with a "B". Common lab contaminants.

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-10(1501923-01)	Several compounds	none	MS/MSD < QC limit	Matrix interference suspected/LCS within QC limits
EP-10(1501923-01)	4-Chloroanailine	"UJ"	LCS < QC limit	All samples non-detect
EP-10(1501923-01)	2,4-Dinitrophenol	J detects	ICV > 40 %	All samples non-detect
EP-10(1501923-01)	2,4-Dinitrophenol	J detects	CCV > 40 %	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-10(1501923-01)	Potassium	J detects	% Recovery > QC limit	Results are estimated.
EP-10(1501923-01)	Manganese	J detects/UJ non-detects	% Recovery < QC limit	Results are estimated.
EP-10(1501923-01)	Zinc	J detects	Serial dilution > 10%	Results are estimated.

Table 6-6 Total Cyanide

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

10 November 2015

AAR Work Order: 1501923

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 10/27/2015 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1501923
P.O. #	

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full											AAR SAMPLE #
EP-10	10/26/15/12:05	S		4	G	✓	✓											-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: John Ivano	Print Name: John Ivano	Print Name: K. Muniz
Signature: Monica Norton	Signature: [signature]	Signature: [signature]	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10/27/15	Time: 1360	Date Received: 10/27/15	Time: 1415

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 10/27/2015 2:15:00 PM.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5K0314-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J3001 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5J3001 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/10/2015 08:23

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-10	1501923-01	Soil	10/26/2015 12:05	10/27/2015 14:15

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
D	Data reported from a dilution
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/10/2015 08:23

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/10/2015 08:23

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/10/2015 08:23

Client ID: EP-10

Lab ID: 1501923-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
Sample Prepared by Method:EPA 5035A										
107-02-8	Acrolein	ND	9.17	15.3	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	3.06	15.3	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
67-64-1	**Acetone**	**18.3** B	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**2.92**	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	J
156-60-5	trans-1,2-Dichloroethene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
71-43-2	Benzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U

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Daniel Miguel, Technical Director

MFP 12/10/15

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/10/2015 08:23

Client ID: EP-10

Lab ID: 1501923-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-88-3	Toluene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	3.06	6.11	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
95-47-6	o-Xylene	ND	3.06	6.11	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
100-42-5	Styrene	ND	1.53	6.11	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	Reported: 11/10/2015 08:23

Client ID: EP-10

Lab ID: 1501923-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*106 %*	*70-130*		*11/03/15 15:36*	*11/03/15 15:36/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*94 %*	*70-130*		*11/03/15 15:36*	*11/03/15 15:36/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*86 %*	*70-130*		*11/03/15 15:36*	*11/03/15 15:36/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
108-95-2	Phenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U

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Client ID: EP-10

Lab ID: 1501923-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
78-59-1	Isophorone	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	123	495	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND UJ	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	49.5	495	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

APRP 12/11/15

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/10/2015 08:23

Client ID: EP-10

Lab ID: 1501923-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
7005-72-3	4-Chlorophenyl-phenylether	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
86-73-7	Fluorene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**133**	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	J
120-12-7	Anthracene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**99.1**	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	J
129-00-0	**Pyrene**	**139**	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	123	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
218-01-9	**Chrysene**	**50.0**	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*47 %*	*30-130*		*10/30/15 06:08*	*10/30/15 19:53/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*52 %*	*30-130*		*10/30/15 06:08*	*10/30/15 19:53/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*41 %*	*30-130*		*10/30/15 06:08*	*10/30/15 19:53/JMM*	*EPA 8270*	

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/10/2015 08:23

Client ID: EP-10

Lab ID: 1501923-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: 2-Fluorobiphenyl				*45 %*	*30-130*		*10/30/15 06:08*	*10/30/15 19:53/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*54 %*	*30-130*		*10/30/15 06:08*	*10/30/15 19:53/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*60 %*	*30-130*		*10/30/15 06:08*	*10/30/15 19:53/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	9.90	9.90	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	49.5	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U

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Client ID: EP-10

Lab ID: 1501923-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*74.7 %*	*30-150*		*11/02/15 05:57*	*11/02/15 20:02/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*82.1 %*	*30-150*		*11/02/15 05:57*	*11/02/15 20:02/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*87.2 %*	*30-150*		*11/02/15 05:57*	*11/02/15 20:02/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*94.8 %*	*30-150*		*11/02/15 05:57*	*11/02/15 20:02/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8980**	29.7	29.7	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.94	5.94	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.67**	1.49	1.49	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-39-3	**Barium**	**51.8**	29.7	29.7	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.743	0.743	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.743	0.743	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-70-2	**Calcium**	**7450**	37.1	37.1	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-47-3	**Chromium**	**14.7**	2.97	2.97	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-48-4	**Cobalt**	**7.93**	7.43	7.43	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-50-8	**Copper**	**21.9**	4.46	4.46	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7439-89-6	**Iron**	**13900**	37.1	37.1	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7439-92-1	**Lead**	**22.0**	1.49	1.49	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7439-95-4	**Magnesium**	**7100**	74.3	74.3	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7439-96-5	**Manganese**	**350** J	2.97	2.97	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/10/2015 08:23

Client ID: EP-10

Lab ID: 1501923-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**15.5**	5.94	5.94	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-09-7	**Potassium**	**1150** J	74.3	74.3	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.94	5.94	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.743	0.743	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-23-5	**Sodium**	**289**	74.3	74.3	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.23	4.46	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**19.2**	7.43	7.43	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-66-6	**Zinc**	**51.0**	8.92	8.92	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.111	0.111	mg/kg dry	1	10/30/15 08:00	10/30/15 14:10/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.49	1.49	mg/kg dry	1	11/03/15 10:10	11/03/15 15:07/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**67.3**	0.100	0.100	%	1	10/30/15 15:15	11/02/15 10:42/CLD	SM 2540 G	

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Daniel Miguel, Technical Director

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501923

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J3001	Prep Method:	EPA 3550B GCMS
Percent Solids:	88.10	Laboratory ID:	B5J3001-MS1
		Client Sample ID:	1501921-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Pyridine	1890	ND	1010	53		20 - 160
N-Nitrosodimethylamine	1890	ND	1020	54		20 - 160
Aniline	1890	ND	1390	73		20 - 160
Phenol	1890	ND	1380	73		20 - 160
bis(2-chloroethyl)ether	1890	ND	1320	70		70 - 130
2-Chlorophenol	1890	ND	1500	79		70 - 130
1,3-Dichlorobenzene	1890	ND	1400	74		70 - 130
1,4-Dichlorobenzene	1890	ND	1370	73		70 - 130
Benzyl alcohol	1890	ND	1330	71		20 - 160
1,2-Dichlorobenzene	1890	ND	1390	74		70 - 130
2-Methylphenol	1890	ND	1440	76		20 - 160
bis(2-chloroisopropyl)ether	1890	ND	1080	57	*	70 - 130
3 & 4-Methylphenol	1890	ND	1430	76		20 - 160
N-Nitroso-di-n-propylamine	1890	ND	1240	66	*	70 - 130
Hexachloroethane	1890	ND	1310	69		20 - 160
Nitrobenzene	1890	ND	1390	73		70 - 130
Isophorone	1890	ND	1210	64	*	70 - 130
2-Nitrophenol	1890	ND	1440	76		70 - 130
2,4-Dimethylphenol	1890	ND	1360	72		70 - 130
bis(2-chloroethoxy)methane	1890	ND	1260	67	*	70 - 130
2,4-Dichlorophenol	1890	ND	1430	76		70 - 130
1,2,4-Trichlorobenzene	1890	ND	1410	75		70 - 130
Naphthalene	1890	ND	1330	71		70 - 130
4-Chloroaniline	1890	ND	955	50		20 - 160
Hexachlorobutadiene	1890	ND	1240	66	*	70 - 130
4-Chloro-3-methylphenol	1890	ND	919	49	*	70 - 130
2-Methylnaphthylene	1890	53.0	1130	57	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501923

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J3001	Prep Method:	EPA 3550B GCMS
Percent Solids:	88.10	Laboratory ID:	B5J3001-MS1
		Client Sample ID:	1501921-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Hexachlorocyclopentadiene	1890	ND	574	30		20 - 160
2,4,6-Trichlorophenol	1890	ND	1460	77		70 - 130
2,4,5-Trichlorophenol	1890	ND	1500	79		70 - 130
2-Chloronaphthalene	1890	ND	1400	74		70 - 130
2-Nitroaniline	1890	ND	817	43	*	70 - 130
Dimethylphthalate	1890	ND	1350	71		70 - 130
Acenaphthylene	1890	77.6	1320	66	*	70 - 130
3-Nitroaniline	1890	ND	1170	62	*	70 - 130
Acenaphthene	1890	ND	1270	67	*	70 - 130
2,4-Dinitrophenol	1890	ND	774	41		20 - 160
4-Nitrophenol	1890	ND	1100	58		20 - 160
Dibenzofuran	1890	ND	1300	69	*	70 - 130
2,6-Dinitrotoluene	1890	ND	1260	67	*	70 - 130
2,4-Dinitrotoluene	1890	ND	1230	65	*	70 - 130
2,3,4,6-Tetrachlorophenol	1890	ND	1340	71		70 - 130
Diethyl phthalate	1890	ND	1460	77		70 - 130
4-Chlorophenyl-phenylether	1890	ND	1370	73		70 - 130
Fluorene	1890	ND	1400	74		70 - 130
4-Nitroaniline	1890	ND	1020	54	*	70 - 130
4,6-Dinitro-2-methylphenol	1890	ND	1130	60	*	70 - 130
Carbazole	1890	ND	1320	70		70 - 130
N-Nitrosodiphenylamine	1890	ND	1480	78		20 - 160
Azobenzene	1890	ND	1090	58	*	70 - 130
4-Bromophenyl-phenylether	1890	ND	1380	73		70 - 130
Hexachlorobenzene	1890	ND	1390	74		70 - 130
Pentachlorophenol	1890	ND	1210	64		20 - 160
Phenanthrene	1890	172	1420	66	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501923

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J3001	Prep Method:	EPA 3550B GCMS
Percent Solids:	88.10	Laboratory ID:	B5J3001-MS1
		Client Sample ID:	1501921-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Anthracene	1890	60.9	1400	71		70 - 130
Di-n-butyl phthalate	1890	ND	1190	63	*	70 - 130
Fluoranthene	1890	472	1560	58	*	70 - 130
Pyrene	1890	409	1320	48	*	70 - 130
Butylbenzylphthalate	1890	ND	1260	67	*	70 - 130
Benzo[a]anthracene	1890	272	1300	55	*	70 - 130
bis(2-ethylhexyl)phthalate	1890	ND	1310	69	*	70 - 130
Chrysene	1890	344	1560	64	*	70 - 130
Di-n-octyl phthalate	1890	ND	1130	60	*	70 - 130
Benzo[b]fluoranthene	1890	328	1520	63	*	70 - 130
Benzo[k]fluoranthene	1890	191	1400	64	*	70 - 130
Benzo[a]pyrene	1890	253	1340	58	*	70 - 130
Indeno(1,2,3-cd)pyrene	1890	138	1130	52	*	70 - 130
Dibenzo(a,h)anthracene	1890	50.3	1150	58	*	70 - 130
Benzo[ghi]perylene	1890	155	969	43	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501923

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J3001	Prep Method:	EPA 3550B GCMS
Percent Solids:	88.10	Laboratory ID:	B5J3001-MSD1
		Client Sample ID:	1501921-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
Pyridine	1890	931	49		8		30	20 - 160
N-Nitrosodimethylamine	1890	1020	54		0.3		30	20 - 160
Aniline	1890	1260	67		9		30	20 - 160
Phenol	1890	1280	68		7		30	20 - 160
bis(2-chloroethyl)ether	1890	1230	65	*	7		30	70 - 130
2-Chlorophenol	1890	1390	73		8		30	70 - 130
1,3-Dichlorobenzene	1890	1340	71		4		30	70 - 130
1,4-Dichlorobenzene	1890	1320	70		4		30	70 - 130
Benzyl alcohol	1890	1310	69		2		30	20 - 160
1,2-Dichlorobenzene	1890	1300	68	*	7		30	70 - 130
2-Methylphenol	1890	1370	73		5		30	20 - 160
bis(2-chloroisopropyl)ether	1890	1090	58	*	0.5		30	70 - 130
3 & 4-Methylphenol	1890	1360	72		5		30	20 - 160
N-Nitroso-di-n-propylamine	1890	1220	65	*	2		30	70 - 130
Hexachloroethane	1890	1280	68		2		30	20 - 160
Nitrobenzene	1890	1240	65	*	11		30	70 - 130
Isophorone	1890	1130	60	*	7		30	70 - 130
2-Nitrophenol	1890	1340	71		7		30	70 - 130
2,4-Dimethylphenol	1890	1260	66	*	8		30	70 - 130
bis(2-chloroethoxy)methane	1890	1160	62	*	8		30	70 - 130
2,4-Dichlorophenol	1890	1290	68	*	11		30	70 - 130
1,2,4-Trichlorobenzene	1890	1290	68	*	9		30	70 - 130
Naphthalene	1890	1240	66	*	7		30	70 - 130
4-Chloroaniline	1890	567	30		51	*	30	20 - 160
Hexachlorobutadiene	1890	1190	63	*	5		30	70 - 130
4-Chloro-3-methylphenol	1890	958	51	*	4		30	70 - 130
2-Methylnaphthylene	1890	1060	53	*	6		30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501923

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J3001	Prep Method:	EPA 3550B GCMS
Percent Solids:	88.10	Laboratory ID:	B5J3001-MSD1
		Client Sample ID:	1501921-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Hexachlorocyclopentadiene	1890	498	26		14	30	20 - 160
2,4,6-Trichlorophenol	1890	1480	78		1	30	70 - 130
2,4,5-Trichlorophenol	1890	1550	82		3	30	70 - 130
2-Chloronaphthalene	1890	1450	77		3	30	70 - 130
2-Nitroaniline	1890	853	45	*	4	30	70 - 130
Dimethylphthalate	1890	1290	68	*	5	30	70 - 130
Acenaphthylene	1890	1290	64	*	2	30	70 - 130
3-Nitroaniline	1890	986	52	*	17	30	70 - 130
Acenaphthene	1890	1290	68	*	1	30	70 - 130
2,4-Dinitrophenol	1890	646	34		18	30	20 - 160
4-Nitrophenol	1890	1170	62		6	30	20 - 160
Dibenzofuran	1890	1290	68	*	0.1	30	70 - 130
2,6-Dinitrotoluene	1890	1260	66	*	0.4	30	70 - 130
2,4-Dinitrotoluene	1890	1270	67	*	4	30	70 - 130
2,3,4,6-Tetrachlorophenol	1890	1330	71		0.1	30	70 - 130
Diethyl phthalate	1890	1330	71		9	30	70 - 130
4-Chlorophenyl-phenylether	1890	1270	67	*	8	30	70 - 130
Fluorene	1890	1310	69	*	7	30	70 - 130
4-Nitroaniline	1890	993	52	*	3	30	70 - 130
4,6-Dinitro-2-methylphenol	1890	1060	56	*	6	30	70 - 130
Carbazole	1890	1310	69	*	0.5	30	70 - 130
N-Nitrosodiphenylamine	1890	1440	76		3	30	20 - 160
Azobenzene	1890	1080	57	*	1	30	70 - 130
4-Bromophenyl-phenylether	1890	1280	68	*	7	30	70 - 130
Hexachlorobenzene	1890	1300	69	*	7	30	70 - 130
Pentachlorophenol	1890	1160	61		4	30	20 - 160
Phenanthrene	1890	1340	62	*	6	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501923

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J3001	Prep Method:	EPA 3550B GCMS
Percent Solids:	88.10	Laboratory ID:	B5J3001-MSD1
		Client Sample ID:	1501921-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Anthracene	1890	1360	69	*	3	30	70 - 130
Di-n-butyl phthalate	1890	1150	61	*	4	30	70 - 130
Fluoranthene	1890	1450	52	*	7	30	70 - 130
Pyrene	1890	1250	44	*	5	30	70 - 130
Butylbenzylphthalate	1890	1210	64	*	4	30	70 - 130
Benzo[a]anthracene	1890	1210	49	*	8	30	70 - 130
bis(2-ethylhexyl)phthalate	1890	1260	66	*	4	30	70 - 130
Chrysene	1890	1480	60	*	5	30	70 - 130
Di-n-octyl phthalate	1890	1130	60	*	0.3	30	70 - 130
Benzo[b]fluoranthene	1890	1400	57	*	8	30	70 - 130
Benzo[k]fluoranthene	1890	1530	71		9	30	70 - 130
Benzo[a]pyrene	1890	1240	52	*	8	30	70 - 130
Indeno(1,2,3-cd)pyrene	1890	943	43	*	18	30	70 - 130
Dibenzo(a,h)anthracene	1890	1020	51	*	12	30	70 - 130
Benzo[ghi]perylene	1890	785	33	*	21	30	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501923

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5J3001	Lab Sample ID:	B5J3001-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1390	83	20 - 160
N-Nitrosodimethylamine	1670	1460	87	20 - 160
Aniline	1670	1530	92	20 - 160
Phenol	1670	1500	90	20 - 160
bis(2-chloroethyl)ether	1670	1420	85	70 - 130
2-Chlorophenol	1670	1610	96	70 - 130
1,3-Dichlorobenzene	1670	1500	90	70 - 130
1,4-Dichlorobenzene	1670	1490	89	70 - 130
Benzyl alcohol	1670	1580	95	20 - 160
1,2-Dichlorobenzene	1670	1480	89	70 - 130
2-Methylphenol	1670	1540	92	20 - 160
bis(2-chloroisopropyl)ether	1670	1270	76	70 - 130
3 & 4-Methylphenol	1670	1590	95	20 - 160
N-Nitroso-di-n-propylamine	1670	1440	87	70 - 130
Hexachloroethane	1670	1560	94	20 - 160
Nitrobenzene	1670	1460	87	70 - 130
Isophorone	1670	1410	85	70 - 130
2-Nitrophenol	1670	1560	94	70 - 130
2,4-Dimethylphenol	1670	1420	85	70 - 130
bis(2-chloroethoxy)methane	1670	1400	84	70 - 130
2,4-Dichlorophenol	1670	1570	94	70 - 130
1,2,4-Trichlorobenzene	1670	1500	90	70 - 130
Naphthalene	1670	1420	85	70 - 130
4-Chloroaniline	1670	1020	61 *	70 - 130
Hexachlorobutadiene	1670	1420	85	70 - 130
4-Chloro-3-methylphenol	1670	1550	93	70 - 130
2-Methylnaphthylene	1670	1440	86	70 - 130
Hexachlorocyclopentadiene	1670	1400	84	20 - 160

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INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501923
Project: 138th Street, Bronx, NY; 10BR188

Calibration:	15J2801	Instrument:	GC/MS F
		Calibration Date:	10/14/2015 11:58:45AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	1.046911	9.03924		
4-Chloroaniline	0.4698055	3.957397		
Hexachlorobutadiene	0.1760276	3.718634	CCC (20)	
Caprolactam	0.1626493	9.438644		
4-Chloro-3-methylphenol	0.3365877	3.635553	CCC (20)	
2-Methylnaphthylene	0.697018	10.32335		
1,2,4,5-Tetrachlorobenzene	0.7846604	3.175806		
Hexachlorocyclopentadiene	0.2698404	26.71039	SPCC (0.05)	
2,4,6-Trichlorophenol	0.4396401	4.809339	CCC (20)	
2,4,5-Trichlorophenol	0.4343777	8.465463		
2-Chloronaphthalene	1.273224	9.135137		
1,1-Biphenyl	1.901611	12.61078		
2-Nitroaniline	0.4465861	3.27539		
Dimethylphthalate	1.571915	10.43119		
Acenaphthylene	2.112104	11.76371		
3-Nitroaniline	0.4648623	4.743253		
Acenaphthene	1.258578	11.18945	CCC (20)	
2,4-Dinitrophenol	0.1670239	68.69134	SPCC (0.05)	
4-Nitrophenol	0.1289473	34.71536	SPCC (0.05)	
Dibenzofuran	1.850723	7.017351		
2,6-Dinitrotoluene	0.4220418	4.567939		
2,4-Dinitrotoluene	0.5799641	3.417658		
2,3,4,6-Tetrachlorophenol	0.3782584	6.204434		
Diethyl phthalate	1.650577	14.88571		
4-Chlorophenyl-phenylether	0.6605373	9.298071		

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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501923
Project: 138th Street, Bronx, NY; 10BR188

Instrument ID:	GC/MS F	Calibration:	15J2801
Lab File ID:	F12110.D	Calibration Date:	10/14/15 11:58
Sequence:	S5J3008	Injection Date:	10/30/15
Lab Sample ID:	S5J3008-CCV1	Injection Time:	13:44

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	51.2	1.088112	1.113819		2.4	
N-Nitrosodimethylamine	A	50.0	55.5	0.821932	0.9129955		11.1	
Benzaldehyde	A	50.0	76.7	0.2537039	0.3890459		53.3	-Non-Target
Aniline	A	50.0	51.7	2.543239	2.630197		3.4	
Phenol	A	50.0	49.0	2.156667	2.11213		-2.1	20
bis(2-chloroethyl)ether	A	50.0	48.6	1.915634	1.859897		-2.9	
2-Chlorophenol	A	50.0	49.6	1.572737	1.561022		-0.7	
1,3-Dichlorobenzene	A	50.0	47.9	1.572627	1.507521		-4.1	
1,4-Dichlorobenzene	A	50.0	48.4	1.595532	1.546125		-3.1	20
Benzyl alcohol	A	50.0	51.8	1.29629	1.341898		3.5	
1,2-Dichlorobenzene	A	50.0	47.9	1.561313	1.497067		-4.1	
2-Methylphenol	A	50.0	50.4	1.49489	1.506167		0.8	
bis(2-chloroisopropyl)ether	A	50.0	45.9	2.771059	2.546142		-8.1	
Acetophenone	A	50.0	40.9	2.648969	2.167571		-18.2	
3 & 4-Methylphenol	A	50.0	51.3	1.541056	1.580244		2.5	
N-Nitroso-di-n-propylamine	A	50.0	48.8	1.335053	1.301948	0.05	-2.5	
Hexachloroethane	A	50.0	49.6	0.7020757	0.6964307		-0.8	
Nitrobenzene	A	50.0	47.2	0.4070011	0.3842465		-5.6	
Isophorone	A	50.0	47.5	0.9358429	0.8885616		-5.1	
2-Nitrophenol	A	50.0	50.3	0.2214226	0.2228792		0.7	20
2,4-Dimethylphenol	A	50.0	47.6	0.3680573	0.3505753		-4.7	
Benzoic acid	A	50.0	53.0	0.1586347	0.168168		6.0	
bis(2-chloroethoxy)methane	A	50.0	47.3	0.5429761	0.5134164		-5.4	

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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client:	**BRINKERHOFF ENVIRONMENTAL**		
Work Order:	**1501923**		
Project:	**138th Street, Bronx, NY; 10BR188**		
Instrument ID:	GC/MS F	Calibration:	15J2801
Lab File ID:	F12227.D	Calibration Date:	10/14/15 11:58
Sequence:	S5K1307	Injection Date:	11/13/15
Lab Sample ID:	S5K1307-CCV1	Injection Time:	13:24

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	**TYPE**	**STD**	**CCV**	**ICAL**	**CCV**	**MIN (#)**	**CCV**	**LIMIT (#)**
2,4-Dichlorophenol	A	50.0	51.2	0.3034206	0.3108435		2.4	20
1,2,4-Trichlorobenzene	A	50.0	49.8	0.3152609	0.3142394		-0.3	
Naphthalene	A	50.0	48.6	1.046911	1.016873		-2.9	
4-Chloroaniline	A	50.0	52.5	0.4698055	0.4936886		5.1	
Hexachlorobutadiene	A	50.0	47.6	0.1760276	0.1674627		-4.9	20
Caprolactam	A	50.0	47.2	0.1626493	0.1536029		-5.6	
4-Chloro-3-methylphenol	A	50.0	50.0	0.3365877	0.3367817		0.06	20
2-Methylnaphthylene	A	50.0	49.4	0.697018	0.6887716		-1.2	
1,2,4,5-Tetrachlorobenzene	A	50.0	38.9	0.7846604	0.6102237		-22.2	
Hexachlorocyclopentadiene	L	50.0	44.0	0.2698404	0.2906195	0.05	7.7	
2,4,6-Trichlorophenol	A	50.0	51.6	0.4396401	0.4539921		3.3	20
2,4,5-Trichlorophenol	A	50.0	53.5	0.4343777	0.4646402		7.0	
2-Chloronaphthalene	A	50.0	48.2	1.273224	1.22614		-3.7	
1,1-Biphenyl	A	50.0	38.1	1.901611	1.448351		-23.8	
2-Nitroaniline	A	50.0	47.1	0.4465861	0.4207287		-5.8	
Dimethylphthalate	A	50.0	48.7	1.571915	1.531387		-2.6	
Acenaphthylene	A	50.0	46.4	2.112104	1.961567		-7.1	
3-Nitroaniline	A	50.0	51.8	0.4648623	0.4816328		3.6	
Acenaphthene	A	50.0	46.3	1.258578	1.16479		-7.5	20
2,4-Dinitrophenol	L	50.0	47.6	0.1670239	0.2576149	0.05	54.2	
4-Nitrophenol	L	50.0	43.5	0.1289473	0.1430273	0.05	10.9	
Dibenzofuran	A	50.0	49.0	1.850723	1.814557		-2.0	
2,6-Dinitrotoluene	A	50.0	51.9	0.4220418	0.4380424		3.8	

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ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501923
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5K0314-BLK1	File ID:	D12856.D
Batch:	B5K0314	Prepared:	11/03/15 12:04	Analyzed:	11/03/15 12:04
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5K0304	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	6.85	1.00	2.00	
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	ND	1.00	2.00	U
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501923
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5K0314-BLK1	File ID:	D12856.D
Batch:	B5K0314	Prepared:	11/03/15 12:04	Analyzed:	11/03/15 12:04
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5K0304	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
71-43-2	Benzene	ND	1.00	2.00	U
79-01-6	Trichloroethene	ND	1.00	2.00	U
78-87-5	1,2-Dichloropropane	ND	1.00	2.00	U
75-27-4	Bromodichloromethane	ND	1.00	2.00	U
74-95-3	Dibromomethane	ND	1.00	2.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.00	2.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.00	2.00	U
108-88-3	Toluene	ND	1.00	2.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.00	2.00	U
79-00-5	1,1,2-Trichloroethane	ND	1.00	2.00	U
108-10-1	4-Methyl-2-pentanone	ND	1.00	2.00	U
106-93-4	1,2-Dibromoethane	ND	1.00	2.00	U
591-78-6	2-Hexanone	ND	1.00	2.00	U
142-28-9	1,3-Dichloropropane	ND	1.00	2.00	U
127-18-4	Tetrachloroethene	ND	1.00	2.00	U
124-48-1	Dibromochloromethane	ND	1.00	2.00	U
100-41-4	Ethylbenzene	ND	1.00	2.00	U
108-90-7	Chlorobenzene	ND	1.00	2.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.00	2.00	U
108-38-3/106-42-3	m,p-Xylenes	ND	2.00	4.00	U
95-47-6	o-Xylene	ND	2.00	4.00	U
100-42-5	Styrene	ND	1.00	4.00	U
75-25-2	Bromoform	ND	1.00	2.00	U
98-82-8	Isopropylbenzene	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501923
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5K0314-BLK1	File ID:	D12856.D
Batch:	B5K0314	Prepared:	11/03/15 12:04	Analyzed:	11/03/15 12:04
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5K0304	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane	ND	1.00	2.00	U
103-65-1	n-Propyl Benzene	ND	1.00	2.00	U
108-86-1	Bromobenzene	ND	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.00	2.00	U
95-49-8	2-Chlorotoluene	ND	1.00	2.00	U
106-43-4	4-Chlorotoluene	ND	1.00	2.00	U
98-06-6	tert-Butylbenzene	ND	1.00	2.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.00	2.00	U
135-98-8	sec-Butylbenzene	ND	1.00	2.00	U
99-87-6	p-Isopropyltoluene	ND	1.00	2.00	U
541-73-1	1,3-Dichlorobenzene	ND	1.00	2.00	U
106-46-7	1,4-Dichlorobenzene	ND	1.00	2.00	U
104-51-8	n-Butyl Benzene	ND	1.00	2.00	U
95-50-1	1,2-Dichlorobenzene	ND	1.00	2.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.00	2.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.00	2.00	U
87-68-3	Hexachlorobutadiene	ND	1.00	2.00	U
91-20-3	Naphthalene	ND	1.00	2.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.00	2.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	103%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	94%	70-130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501923

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0314	Prep Method:	EPA 5035A
Percent Solids:	85.30	Laboratory ID:	B5K0314-MSD1
		Client Sample ID:	1501917-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	58.6	60.6	103	6	30	70 - 130
Trichloroethene	58.6	59.7	102	6	30	70 - 130
Methylcyclohexane	58.6	51.1	87	6	30	70 - 130
1,2-Dichloropropane	58.6	67.0	114	8	30	70 - 130
Bromodichloromethane	58.6	65.4	112	8	30	70 - 130
Dibromomethane	58.6	68.1	116	8	30	70 - 130
2-Chloroethyl vinyl ether	58.6	72.3	123	10	30	40 - 160
cis-1,3-Dichloropropene	58.6	69.7	119	10	30	70 - 130
Toluene	58.6	61.6	105	7	30	70 - 130
trans-1,3-Dichloropropene	58.6	72.6	124	11	30	70 - 130
1,1,2-Trichloroethane	58.6	72.6	124	10	30	70 - 130
4-Methyl-2-pentanone	58.6	72.3	123	12	30	40 - 160
1,2-Dibromoethane	58.6	75.3	128	12	30	70 - 130
2-Hexanone	58.6	64.3	110	13	30	40 - 160
1,3-Dichloropropane	58.6	73.6	126	12	30	70 - 130
Tetrachloroethene	58.6	57.6	98	10	30	70 - 130
Dibromochloromethane	58.6	72.2	123	12	30	70 - 130
Ethylbenzene	58.6	63.6	108	9	30	70 - 130
Chlorobenzene	58.6	65.6	112	10	30	70 - 130
1,1,1,2-Tetrachloroethane	58.6	67.4	115	10	30	70 - 130
m,p-Xylenes	117	126	108	8	30	70 - 130
o-Xylene	117	123	105	9	30	70 - 130
Styrene	117	122	104	9	30	70 - 130
Bromoform	58.6	71.1	121	13	30	70 - 130
Isopropylbenzene	58.6	65.7	112	13	30	70 - 130
1,1,2,2-Tetrachloroethane	58.6	83.0	142	13	30	70 - 130
1,2,3-Trichloropropane	58.6	79.6	136	12	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501923
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5J3010	Preparation:	EPA 3050B
% Solids:	88.10	Laboratory ID:	B5J3010-MSD1
		Client Sample ID:	1501921-01

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
Aluminum	284	18700	1810	* *	6.84		20	75 - 125
Antimony	284	252	88.9		4.08		20	75 - 125
Arsenic	284	269	92.9		2.66		20	75 - 125
Barium	284	324	96.2		4.75		20	75 - 125
Beryllium	284	271	95.3		3.19		20	75 - 125
Cadmium	284	260	91.7		2.71		20	75 - 125
Calcium	284	1560	24.4	* *	20.7	*	20	75 - 125
Chromium	284	283	90.5		2.40		20	75 - 125
Cobalt	284	263	87.4		3.21		20	75 - 125
Copper	284	294	90.3		2.90		20	75 - 125
Lead	284	280	82.7		5.01		20	75 - 125
Magnesium	284	1740	14.4	* *	3.40		20	75 - 125
Manganese	284	690	65.8	*	3.17		20	75 - 125
Nickel	284	266	88.6		2.59		20	75 - 125
Potassium	284	900	132	*	10.1		20	75 - 125
Selenium	284	242	85.2		4.14		20	75 - 125
Silver	28.4	24.9	87.7		4.54		20	75 - 125
Sodium	284	331	91.4		5.43		20	75 - 125
Thallium	284	235	82.9		4.09		20	75 - 125
Vanadium	284	307	95.6		1.14		20	75 - 125
Zinc	284	321	76.5		3.72		20	75 - 125

* spiked too low

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501923
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5J3010	Preparation:	EPA 3050B
% Solids:	88.10	Laboratory ID:	B5J3010-MS1
		Client Sample ID:	1501921-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)		MS % REC.		QC LIMITS REC.
Aluminum	284	13500	20000	*	2280 *	*	75 - 125
Antimony	284	ND	263		92.6		75 - 125
Arsenic	284	5.81	277		95.5		75 - 125
Barium	284	51.1	340		102		75 - 125
Beryllium	284	0.810	280		98.4		75 - 125
Cadmium	284	ND	267		94.2		75 - 125
Calcium	284	1500	1930	*	152 *	*	75 - 125
Chromium	284	26.1	290		92.9		75 - 125
Cobalt	284	15.0	272		90.4		75 - 125
Copper	284	37.5	302		93.3		75 - 125
Lead	284	44.8	294		87.8		75 - 125
Magnesium	284	1700	1800	*	35.6 *	*	75 - 125
Manganese	284	503	669	*	58.2	*	75 - 125
Nickel	284	14.7	273		91.1		75 - 125
Potassium	284	525	995	*	166	*	75 - 125
Selenium	284	ND	252		88.8		75 - 125
Silver	28.4	ND	26.1		91.8		75 - 125
Sodium	284	71.7	350		98.0		75 - 125
Thallium	284	ND	245		86.3		75 - 125
Vanadium	284	35.4	310		96.9		75 - 125
Zinc	284	104	333		80.8		75 - 125

* spiked too low

Accredited Analytical Resources, LLC.

SERIAL DILUTION

EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1501923
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	138th Street, Bronx, NY; 10BR188
Matrix:	Solid	Laboratory ID:	S5J3004-SRD1
Sequence:	S5J3004	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Magnesium	1700	1740	2.30		10.00
Antimony	ND	ND	N/A		10.00
Arsenic	5.81	6.34	8.73		10.00
Barium	51.1	ND	N/A		10.00
Beryllium	0.810	ND	N/A		10.00
Cadmium	ND	ND	N/A		10.00
Calcium	1500	1570	4.60		10.00
Chromium	26.1	26.8	2.49		10.00
Cobalt	15.0	ND	N/A		10.00
Aluminum	13500	13600	0.314		10.00
Lead	44.8	48.8	8.46		10.00
Manganese	503	529	4.94		10.00
Nickel	14.7	ND	N/A		10.00
Potassium	525	510	2.82		10.00
Selenium	ND	ND	N/A		10.00
Silver	ND	ND	N/A		10.00
Sodium	71.7	ND	N/A		10.00
Thallium	ND	ND	N/A		10.00
Vanadium	35.4	36.7	3.62		10.00
Zinc	104	115	10.6	*	10.00
Copper	37.5	39.4	5.06		10.00

* Values outside of QC limits

Appendix C

Validator Qualifications

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Block 2333, Lot 1
Bronx, Bronx County, NY
NYSDEC BCP # C203057

SDG: 1501955

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

December 2015

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REVIEWER'S NARRATIVE
SDG 1501955

The data associated with this Sample Delivery Group (SDG) 1501955, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/12/15
Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx , NY
SAMPLING DATE:	October 28, 2015
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1501955

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on October 28, 2015. This sample was analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1501955. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1501955, one sample was analyzed and results were reported for 188 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that are estimated and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-11(1501955-01)	Several compounds	none	MS/MSD recoveries outside QC limit	Matrix interference suspected/LCS within QC limits
EP-11(1501955-01)	Acetone Methylene Chloride	B	Method Blank contamination	Sample results up to 10X blank level have been flagged with a "B". Common lab contaminants.
EP-11(1501955-01)	Isopropylbenzene 1,1,2,2-Tetrchloroethane 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene 2-Chlorotoluene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene p-Isopropylbenzene 1,2,4-Trichlorobenzene 1,2-Dibromo-3-chloropropane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Naphthalene n-Butylbenzene Hexachlorobutadiene	J detects/UJ non-detects	IS# 4 <50 % QC limit	Results are estimated.

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-11(1501955-01)	Several compounds	none	MS/MSD < QC limit	Matrix interference suspected/LCS within QC limits
EP-11(1501955-01)	4-Chloroanailine	"UJ"	LCS < QC limit	All samples non-detect
EP-11(1501955-01)	2,4-Dinitrophenol	J detects	ICV > 40 %	All samples non-detect
EP-11(1501955-01)	2,4-Dinitrophenol	J detects	CCV > 40 %	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-11(1501955-01)	Potassium	J detects	% Recovery > QC limit	Results are estimated.
EP-11(1501955-01)	Manganese	J detects/UJ non-detects	% Recovery < QC limit	Results are estimated.
EP-11(1501955-01)	Zinc	J detects	Serial dilution > 10%	Results are estimated.

Table 6-6 Total Cyanide

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

12 November 2015

AAR Work Order: 1501955

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 10/29/2015 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-11	1501955-01	Soil	10/28/2015 11:20	10/29/2015 15:40

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
D	Data reported from a dilution
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/12/2015 09:12

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #
AAR WORK ORDER # 1501955
P.O. #

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL Full	TCL Full	AAR SAMPLE #
EP-11	10/28/15 11:20	S		4	G	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable
COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: John Ignacio	Print Name: John Ignacio	Print Name: K. Muniz
Signature: Monica Norton	Signature: [signature]	Signature: [signature]	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10/29/15	Time: 12:45	Date Received: 10/29/15	Time: 1540

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 10/29/2015 3:40:00 PM.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5K0314-MS1/MSD1 and B5K0509-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits for all compounds; therefore, no further action required.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J3001 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5J3001 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	Reported:
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	12.0	20.0	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	4.00	20.0	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
67-64-1	**Acetone**	**15.5** B	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**36.5** B	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
78-93-3	2-Butanone	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
71-43-2	Benzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

MKP 12/11/15

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-88-3	Toluene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	4.00	8.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
95-47-6	o-Xylene	ND	4.00	8.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
100-42-5	Styrene	ND	2.00	8.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND UJ	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U

Accredited Analytical Resources LLC

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MMP 12/11/15

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*113 %*	*70-130*		*11/05/15 15:04*	*11/05/15 15:04/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*92 %*	*70-130*		*11/05/15 15:04*	*11/05/15 15:04/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*75 %*	*70-130*		*11/05/15 15:04*	*11/05/15 15:04/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
108-95-2	Phenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U

Accredited Analytical Resources LLC

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MGP 12/11/15

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
67-72-1	Hexachloroethane	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
78-59-1	Isophorone	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	166	666	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**199**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND UJ	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
91-57-6	**2-Methylnaphthylene**	**72.7**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
77-47-4	Hexachlorocyclopentadiene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
83-32-9	**Acenaphthene**	**141**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	66.6	666	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
132-64-9	**Dibenzofuran**	**86.7**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
606-20-2	2,6-Dinitrotoluene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
84-66-2	Diethyl phthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
86-73-7	**Fluorene**	**109**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
100-01-6	4-Nitroaniline	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**297**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
120-12-7	**Anthracene**	**72.0**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**167**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
129-00-0	**Pyrene**	**177**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	166	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**85.3**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
218-01-9	**Chrysene**	**103**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*41 %*	*30-130*		*10/30/15 06:08*	*10/30/15 20:39/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*42 %*	*30-130*		*10/30/15 06:08*	*10/30/15 20:39/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Nitrobenzene-d5				*36 %*	*30-130*		*10/30/15 06:08*	*10/30/15 20:39/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*38 %*	*30-130*		*10/30/15 06:08*	*10/30/15 20:39/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*46 %*	*30-130*		*10/30/15 06:08*	*10/30/15 20:39/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*42 %*	*30-130*		*10/30/15 06:08*	*10/30/15 20:39/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	13.3	13.3	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	66.6	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
11104-28-2	Aroclor-1221	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*83.6 %*	*30-150*		*11/04/15 09:45*	*11/04/15 18:51/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*80.3 %*	*30-150*		*11/04/15 09:45*	*11/04/15 18:51/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*86.1 %*	*30-150*		*11/04/15 09:45*	*11/04/15 18:51/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*88.6 %*	*30-150*		*11/04/15 09:45*	*11/04/15 18:51/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8180**	40.0	40.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-36-0	Antimony	ND	8.00	8.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-38-2	Arsenic	ND	2.00	2.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-39-3	**Barium**	**57.1**	40.0	40.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-41-7	Beryllium	ND	1.00	1.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	1.00	1.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-70-2	**Calcium**	**8690**	50.0	50.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-47-3	**Chromium**	**13.4**	4.00	4.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-48-4	Cobalt	ND	10.0	10.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-50-8	**Copper**	**21.0**	6.00	6.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7439-89-6	**Iron**	**13000**	50.0	50.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7439-92-1	**Lead**	**90.0**	2.00	2.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7439-95-4	**Magnesium**	**6420**	100	100	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7439-96-5	**Manganese**	**158** J	4.00	4.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-02-0	**Nickel**	**14.2**	8.00	8.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-09-7	**Potassium**	**1100** J	100	100	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7782-49-2	Selenium	ND	8.00	8.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-22-4	Silver	ND	1.00	1.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-23-5	**Sodium**	**557**	100	100	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-28-0	Thallium	ND	3.00	6.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**18.7**	10.0	10.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-66-6	**Zinc**	**48.5** J	12.0	12.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.150	0.150	mg/kg dry	1	10/30/15 08:00	10/30/15 14:13/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	2.00	2.00	mg/kg dry	1	11/03/15 10:10	11/03/15 15:07/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**50.0**	0.100	0.100	%	1	10/30/15 15:15	11/02/15 10:42/CLD	SM 2540 G	

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Daniel Miguel, Technical Director

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501955

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J3001	Prep Method:	EPA 3550B GCMS
Percent Solids:	88.10	Laboratory ID:	B5J3001-MS1
		Client Sample ID:	1501921-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Pyridine	1890	ND	1010	53		20 - 160
N-Nitrosodimethylamine	1890	ND	1020	54		20 - 160
Aniline	1890	ND	1390	73		20 - 160
Phenol	1890	ND	1380	73		20 - 160
bis(2-chloroethyl)ether	1890	ND	1320	70		70 - 130
2-Chlorophenol	1890	ND	1500	79		70 - 130
1,3-Dichlorobenzene	1890	ND	1400	74		70 - 130
1,4-Dichlorobenzene	1890	ND	1370	73		70 - 130
Benzyl alcohol	1890	ND	1330	71		20 - 160
1,2-Dichlorobenzene	1890	ND	1390	74		70 - 130
2-Methylphenol	1890	ND	1440	76		20 - 160
bis(2-chloroisopropyl)ether	1890	ND	1080	57	*	70 - 130
3 & 4-Methylphenol	1890	ND	1430	76		20 - 160
N-Nitroso-di-n-propylamine	1890	ND	1240	66	*	70 - 130
Hexachloroethane	1890	ND	1310	69		20 - 160
Nitrobenzene	1890	ND	1390	73		70 - 130
Isophorone	1890	ND	1210	64	*	70 - 130
2-Nitrophenol	1890	ND	1440	76		70 - 130
2,4-Dimethylphenol	1890	ND	1360	72		70 - 130
bis(2-chloroethoxy)methane	1890	ND	1260	67	*	70 - 130
2,4-Dichlorophenol	1890	ND	1430	76		70 - 130
1,2,4-Trichlorobenzene	1890	ND	1410	75		70 - 130
Naphthalene	1890	ND	1330	71		70 - 130
4-Chloroaniline	1890	ND	955	50		20 - 160
Hexachlorobutadiene	1890	ND	1240	66	*	70 - 130
4-Chloro-3-methylphenol	1890	ND	919	49	*	70 - 130
2-Methylnaphthylene	1890	53.0	1130	57	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501955

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J3001	Prep Method:	EPA 3550B GCMS
Percent Solids:	88.10	Laboratory ID:	B5J3001-MS1
		Client Sample ID:	1501921-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Hexachlorocyclopentadiene	1890	ND	574	30		20 - 160
2,4,6-Trichlorophenol	1890	ND	1460	77		70 - 130
2,4,5-Trichlorophenol	1890	ND	1500	79		70 - 130
2-Chloronaphthalene	1890	ND	1400	74		70 - 130
2-Nitroaniline	1890	ND	817	43	*	70 - 130
Dimethylphthalate	1890	ND	1350	71		70 - 130
Acenaphthylene	1890	77.6	1320	66	*	70 - 130
3-Nitroaniline	1890	ND	1170	62	*	70 - 130
Acenaphthene	1890	ND	1270	67	*	70 - 130
2,4-Dinitrophenol	1890	ND	774	41		20 - 160
4-Nitrophenol	1890	ND	1100	58		20 - 160
Dibenzofuran	1890	ND	1300	69	*	70 - 130
2,6-Dinitrotoluene	1890	ND	1260	67	*	70 - 130
2,4-Dinitrotoluene	1890	ND	1230	65	*	70 - 130
2,3,4,6-Tetrachlorophenol	1890	ND	1340	71		70 - 130
Diethyl phthalate	1890	ND	1460	77		70 - 130
4-Chlorophenyl-phenylether	1890	ND	1370	73		70 - 130
Fluorene	1890	ND	1400	74		70 - 130
4-Nitroaniline	1890	ND	1020	54	*	70 - 130
4,6-Dinitro-2-methylphenol	1890	ND	1130	60	*	70 - 130
Carbazole	1890	ND	1320	70		70 - 130
N-Nitrosodiphenylamine	1890	ND	1480	78		20 - 160
Azobenzene	1890	ND	1090	58	*	70 - 130
4-Bromophenyl-phenylether	1890	ND	1380	73		70 - 130
Hexachlorobenzene	1890	ND	1390	74		70 - 130
Pentachlorophenol	1890	ND	1210	64		20 - 160
Phenanthrene	1890	172	1420	66	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501955

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J3001	Prep Method:	EPA 3550B GCMS
Percent Solids:	88.10	Laboratory ID:	B5J3001-MS1
		Client Sample ID:	1501921-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Anthracene	1890	60.9	1400	71		70 - 130
Di-n-butyl phthalate	1890	ND	1190	63	*	70 - 130
Fluoranthene	1890	472	1560	58	*	70 - 130
Pyrene	1890	409	1320	48	*	70 - 130
Butylbenzylphthalate	1890	ND	1260	67	*	70 - 130
Benzo[a]anthracene	1890	272	1300	55	*	70 - 130
bis(2-ethylhexyl)phthalate	1890	ND	1310	69	*	70 - 130
Chrysene	1890	344	1560	64	*	70 - 130
Di-n-octyl phthalate	1890	ND	1130	60	*	70 - 130
Benzo[b]fluoranthene	1890	328	1520	63	*	70 - 130
Benzo[k]fluoranthene	1890	191	1400	64	*	70 - 130
Benzo[a]pyrene	1890	253	1340	58	*	70 - 130
Indeno(1,2,3-cd)pyrene	1890	138	1130	52	*	70 - 130
Dibenzo(a,h)anthracene	1890	50.3	1150	58	*	70 - 130
Benzo[ghi]perylene	1890	155	969	43	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501955

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J3001	Prep Method:	EPA 3550B GCMS
Percent Solids:	88.10	Laboratory ID:	B5J3001-MSD1
		Client Sample ID:	1501921-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
Pyridine	1890	931	49		8		30	20 - 160
N-Nitrosodimethylamine	1890	1020	54		0.3		30	20 - 160
Aniline	1890	1260	67		9		30	20 - 160
Phenol	1890	1280	68		7		30	20 - 160
bis(2-chloroethyl)ether	1890	1230	65	*	7		30	70 - 130
2-Chlorophenol	1890	1390	73		8		30	70 - 130
1,3-Dichlorobenzene	1890	1340	71		4		30	70 - 130
1,4-Dichlorobenzene	1890	1320	70		4		30	70 - 130
Benzyl alcohol	1890	1310	69		2		30	20 - 160
1,2-Dichlorobenzene	1890	1300	68	*	7		30	70 - 130
2-Methylphenol	1890	1370	73		5		30	20 - 160
bis(2-chloroisopropyl)ether	1890	1090	58	*	0.5		30	70 - 130
3 & 4-Methylphenol	1890	1360	72		5		30	20 - 160
N-Nitroso-di-n-propylamine	1890	1220	65	*	2		30	70 - 130
Hexachloroethane	1890	1280	68		2		30	20 - 160
Nitrobenzene	1890	1240	65	*	11		30	70 - 130
Isophorone	1890	1130	60	*	7		30	70 - 130
2-Nitrophenol	1890	1340	71		7		30	70 - 130
2,4-Dimethylphenol	1890	1260	66	*	8		30	70 - 130
bis(2-chloroethoxy)methane	1890	1160	62	*	8		30	70 - 130
2,4-Dichlorophenol	1890	1290	68	*	11		30	70 - 130
1,2,4-Trichlorobenzene	1890	1290	68	*	9		30	70 - 130
Naphthalene	1890	1240	66	*	7		30	70 - 130
4-Chloroaniline	1890	567	30		51	*	30	20 - 160
Hexachlorobutadiene	1890	1190	63	*	5		30	70 - 130
4-Chloro-3-methylphenol	1890	958	51	*	4		30	70 - 130
2-Methylnaphthylene	1890	1060	53	*	6		30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501955

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J3001	Prep Method:	EPA 3550B GCMS
Percent Solids:	88.10	Laboratory ID:	B5J3001-MSD1
		Client Sample ID:	1501921-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Hexachlorocyclopentadiene	1890	498	26		14	30	20 - 160
2,4,6-Trichlorophenol	1890	1480	78		1	30	70 - 130
2,4,5-Trichlorophenol	1890	1550	82		3	30	70 - 130
2-Chloronaphthalene	1890	1450	77		3	30	70 - 130
2-Nitroaniline	1890	853	45	*	4	30	70 - 130
Dimethylphthalate	1890	1290	68	*	5	30	70 - 130
Acenaphthylene	1890	1290	64	*	2	30	70 - 130
3-Nitroaniline	1890	986	52	*	17	30	70 - 130
Acenaphthene	1890	1290	68	*	1	30	70 - 130
2,4-Dinitrophenol	1890	646	34		18	30	20 - 160
4-Nitrophenol	1890	1170	62		6	30	20 - 160
Dibenzofuran	1890	1290	68	*	0.1	30	70 - 130
2,6-Dinitrotoluene	1890	1260	66	*	0.4	30	70 - 130
2,4-Dinitrotoluene	1890	1270	67	*	4	30	70 - 130
2,3,4,6-Tetrachlorophenol	1890	1330	71		0.1	30	70 - 130
Diethyl phthalate	1890	1330	71		9	30	70 - 130
4-Chlorophenyl-phenylether	1890	1270	67	*	8	30	70 - 130
Fluorene	1890	1310	69	*	7	30	70 - 130
4-Nitroaniline	1890	993	52	*	3	30	70 - 130
4,6-Dinitro-2-methylphenol	1890	1060	56	*	6	30	70 - 130
Carbazole	1890	1310	69	*	0.5	30	70 - 130
N-Nitrosodiphenylamine	1890	1440	76		3	30	20 - 160
Azobenzene	1890	1080	57	*	1	30	70 - 130
4-Bromophenyl-phenylether	1890	1280	68	*	7	30	70 - 130
Hexachlorobenzene	1890	1300	69	*	7	30	70 - 130
Pentachlorophenol	1890	1160	61		4	30	20 - 160
Phenanthrene	1890	1340	62	*	6	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501955

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5J3001	Prep Method:	EPA 3550B GCMS
Percent Solids:	88.10	Laboratory ID:	B5J3001-MSD1
		Client Sample ID:	1501921-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Anthracene	1890	1360	69	*	3	30	70 - 130
Di-n-butyl phthalate	1890	1150	61	*	4	30	70 - 130
Fluoranthene	1890	1450	52	*	7	30	70 - 130
Pyrene	1890	1250	44	*	5	30	70 - 130
Butylbenzylphthalate	1890	1210	64	*	4	30	70 - 130
Benzo[a]anthracene	1890	1210	49	*	8	30	70 - 130
bis(2-ethylhexyl)phthalate	1890	1260	66	*	4	30	70 - 130
Chrysene	1890	1480	60	*	5	30	70 - 130
Di-n-octyl phthalate	1890	1130	60	*	0.3	30	70 - 130
Benzo[b]fluoranthene	1890	1400	57	*	8	30	70 - 130
Benzo[k]fluoranthene	1890	1530	71		9	30	70 - 130
Benzo[a]pyrene	1890	1240	52	*	8	30	70 - 130
Indeno(1,2,3-cd)pyrene	1890	943	43	*	18	30	70 - 130
Dibenzo(a,h)anthracene	1890	1020	51	*	12	30	70 - 130
Benzo[ghi]perylene	1890	785	33	*	21	30	70 - 130

* Values outside of QC limits

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LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501955

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5J3001	Lab Sample ID:	B5J3001-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1390	83	20 - 160
N-Nitrosodimethylamine	1670	1460	87	20 - 160
Aniline	1670	1530	92	20 - 160
Phenol	1670	1500	90	20 - 160
bis(2-chloroethyl)ether	1670	1420	85	70 - 130
2-Chlorophenol	1670	1610	96	70 - 130
1,3-Dichlorobenzene	1670	1500	90	70 - 130
1,4-Dichlorobenzene	1670	1490	89	70 - 130
Benzyl alcohol	1670	1580	95	20 - 160
1,2-Dichlorobenzene	1670	1480	89	70 - 130
2-Methylphenol	1670	1540	92	20 - 160
bis(2-chloroisopropyl)ether	1670	1270	76	70 - 130
3 & 4-Methylphenol	1670	1590	95	20 - 160
N-Nitroso-di-n-propylamine	1670	1440	87	70 - 130
Hexachloroethane	1670	1560	94	20 - 160
Nitrobenzene	1670	1460	87	70 - 130
Isophorone	1670	1410	85	70 - 130
2-Nitrophenol	1670	1560	94	70 - 130
2,4-Dimethylphenol	1670	1420	85	70 - 130
bis(2-chloroethoxy)methane	1670	1400	84	70 - 130
2,4-Dichlorophenol	1670	1570	94	70 - 130
1,2,4-Trichlorobenzene	1670	1500	90	70 - 130
Naphthalene	1670	1420	85	70 - 130
4-Chloroaniline	1670	1020	61 *	70 - 130
Hexachlorobutadiene	1670	1420	85	70 - 130
4-Chloro-3-methylphenol	1670	1550	93	70 - 130
2-Methylnaphthylene	1670	1440	86	70 - 130
Hexachlorocyclopentadiene	1670	1400	84	20 - 160

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INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501955
Project: 138th Street, Bronx, NY; 10BR188

Calibration:	15J2801	Instrument:	GC/MS F
		Calibration Date:	10/14/2015 11:58:45AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	1.046911	9.03924		
4-Chloroaniline	0.4698055	3.957397		
Hexachlorobutadiene	0.1760276	3.718634	CCC (20)	
Caprolactam	0.1626493	9.438644		
4-Chloro-3-methylphenol	0.3365877	3.635553	CCC (20)	
2-Methylnaphthylene	0.697018	10.32335		
1,2,4,5-Tetrachlorobenzene	0.7846604	3.175806		
Hexachlorocyclopentadiene	0.2698404	26.71039	SPCC (0.05)	
2,4,6-Trichlorophenol	0.4396401	4.809339	CCC (20)	
2,4,5-Trichlorophenol	0.4343777	8.465463		
2-Chloronaphthalene	1.273224	9.135137		
1,1-Biphenyl	1.901611	12.61078		
2-Nitroaniline	0.4465861	3.27539		
Dimethylphthalate	1.571915	10.43119		
Acenaphthylene	2.112104	11.76371		
3-Nitroaniline	0.4648623	4.743253		
Acenaphthene	1.258578	11.18945	CCC (20)	
2,4-Dinitrophenol	0.1670239	68.69134	SPCC (0.05)	
4-Nitrophenol	0.1289473	34.71536	SPCC (0.05)	
Dibenzofuran	1.850723	7.017351		
2,6-Dinitrotoluene	0.4220418	4.567939		
2,4-Dinitrotoluene	0.5799641	3.417658		
2,3,4,6-Tetrachlorophenol	0.3782584	6.204434		
Diethyl phthalate	1.650577	14.88571		
4-Chlorophenyl-phenylether	0.6605373	9.298071		

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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501955
Project: 138th Street, Bronx, NY; 10BR188

Instrument ID:	GC/MS F	Calibration:	15J2801
Lab File ID:	F12110.D	Calibration Date:	10/14/15 11:58
Sequence:	S5J3008	Injection Date:	10/30/15
Lab Sample ID:	S5J3008-CCV1	Injection Time:	13:44

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	51.2	1.088112	1.113819		2.4	
N-Nitrosodimethylamine	A	50.0	55.5	0.821932	0.9129955		11.1	
Benzaldehyde	A	50.0	76.7	0.2537039	0.3890459		53.3	- Non-target
Aniline	A	50.0	51.7	2.543239	2.630197		3.4	
Phenol	A	50.0	49.0	2.156667	2.11213		-2.1	20
bis(2-chloroethyl)ether	A	50.0	48.6	1.915634	1.859897		-2.9	
2-Chlorophenol	A	50.0	49.6	1.572737	1.561022		-0.7	
1,3-Dichlorobenzene	A	50.0	47.9	1.572627	1.507521		-4.1	
1,4-Dichlorobenzene	A	50.0	48.4	1.595532	1.546125		-3.1	20
Benzyl alcohol	A	50.0	51.8	1.29629	1.341898		3.5	
1,2-Dichlorobenzene	A	50.0	47.9	1.561313	1.497067		-4.1	
2-Methylphenol	A	50.0	50.4	1.49489	1.506167		0.8	
bis(2-chloroisopropyl)ether	A	50.0	45.9	2.771059	2.546142		-8.1	
Acetophenone	A	50.0	40.9	2.648969	2.167571		-18.2	
3 & 4-Methylphenol	A	50.0	51.3	1.541056	1.580244		2.5	
N-Nitroso-di-n-propylamine	A	50.0	48.8	1.335053	1.301948	0.05	-2.5	
Hexachloroethane	A	50.0	49.6	0.7020757	0.6964307		-0.8	
Nitrobenzene	A	50.0	47.2	0.4070011	0.3842465		-5.6	
Isophorone	A	50.0	47.5	0.9358429	0.8885616		-5.1	
2-Nitrophenol	A	50.0	50.3	0.2214226	0.2228792		0.7	20
2,4-Dimethylphenol	A	50.0	47.6	0.3680573	0.3505753		-4.7	
Benzoic acid	A	50.0	53.0	0.1586347	0.168168		6.0	
bis(2-chloroethoxy)methane	A	50.0	47.3	0.5429761	0.5134164		-5.4	

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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client:	**BRINKERHOFF ENVIRONMENTAL**		
Work Order:	**1501955**		
Project:	**138th Street, Bronx, NY; 10BR188**		
Instrument ID:	GC/MS F	Calibration:	15J2801
Lab File ID:	F12227.D	Calibration Date:	10/14/15 11:58
Sequence:	S5K1307	Injection Date:	11/13/15
Lab Sample ID:	S5K1307-CCV1	Injection Time:	13:24

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	**TYPE**	**STD**	**CCV**	**ICAL**	**CCV**	**MIN (#)**	**CCV**	**LIMIT (#)**
2,4-Dichlorophenol	A	50.0	51.2	0.3034206	0.3108435		2.4	20
1,2,4-Trichlorobenzene	A	50.0	49.8	0.3152609	0.3142394		-0.3	
Naphthalene	A	50.0	48.6	1.046911	1.016873		-2.9	
4-Chloroaniline	A	50.0	52.5	0.4698055	0.4936886		5.1	
Hexachlorobutadiene	A	50.0	47.6	0.1760276	0.1674627		-4.9	20
Caprolactam	A	50.0	47.2	0.1626493	0.1536029		-5.6	
4-Chloro-3-methylphenol	A	50.0	50.0	0.3365877	0.3367817		0.06	20
2-Methylnaphthylene	A	50.0	49.4	0.697018	0.6887716		-1.2	
1,2,4,5-Tetrachlorobenzene	A	50.0	38.9	0.7846604	0.6102237		-22.2	
Hexachlorocyclopentadiene	L	50.0	44.0	0.2698404	0.2906195	0.05	7.7	
2,4,6-Trichlorophenol	A	50.0	51.6	0.4396401	0.4539921		3.3	20
2,4,5-Trichlorophenol	A	50.0	53.5	0.4343777	0.4646402		7.0	
2-Chloronaphthalene	A	50.0	48.2	1.273224	1.22614		-3.7	
1,1-Biphenyl	A	50.0	38.1	1.901611	1.448351		-23.8	
2-Nitroaniline	A	50.0	47.1	0.4465861	0.4207287		-5.8	
Dimethylphthalate	A	50.0	48.7	1.571915	1.531387		-2.6	
Acenaphthylene	A	50.0	46.4	2.112104	1.961567		-7.1	
3-Nitroaniline	A	50.0	51.8	0.4648623	0.4816328		3.6	
Acenaphthene	A	50.0	46.3	1.258578	1.16479		-7.5	20
2,4-Dinitrophenol	L	50.0	47.6	0.1670239	0.2576149	0.05	54.2	
4-Nitrophenol	L	50.0	43.5	0.1289473	0.1430273	0.05	10.9	
Dibenzofuran	A	50.0	49.0	1.850723	1.814557		-2.0	
2,6-Dinitrotoluene	A	50.0	51.9	0.4220418	0.4380424		3.8	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501955
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5K0509-BLK1	File ID:	D12891.D
Batch:	B5K0509	Prepared:	11/05/15 10:47	Analyzed:	11/05/15 10:47
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5K0507	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	3.53	1.00	2.00	
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	4.55	1.00	2.00	
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501955
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5K0509-BLK1	File ID:	D12891.D
Batch:	B5K0509	Prepared:	11/05/15 10:47	Analyzed:	11/05/15 10:47
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5K0507	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
71-43-2	Benzene	ND	1.00	2.00	U
79-01-6	Trichloroethene	ND	1.00	2.00	U
78-87-5	1,2-Dichloropropane	ND	1.00	2.00	U
75-27-4	Bromodichloromethane	ND	1.00	2.00	U
74-95-3	Dibromomethane	ND	1.00	2.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.00	2.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.00	2.00	U
108-88-3	Toluene	ND	1.00	2.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.00	2.00	U
79-00-5	1,1,2-Trichloroethane	ND	1.00	2.00	U
108-10-1	4-Methyl-2-pentanone	ND	1.00	2.00	U
106-93-4	1,2-Dibromoethane	ND	1.00	2.00	U
591-78-6	2-Hexanone	ND	1.00	2.00	U
142-28-9	1,3-Dichloropropane	ND	1.00	2.00	U
127-18-4	Tetrachloroethene	ND	1.00	2.00	U
124-48-1	Dibromochloromethane	ND	1.00	2.00	U
100-41-4	Ethylbenzene	ND	1.00	2.00	U
108-90-7	Chlorobenzene	ND	1.00	2.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.00	2.00	U
108-38-3/106-42-3	m,p-Xylenes	ND	2.00	4.00	U
95-47-6	o-Xylene	ND	2.00	4.00	U
100-42-5	Styrene	ND	1.00	4.00	U
75-25-2	Bromoform	ND	1.00	2.00	U
98-82-8	Isopropylbenzene	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501955
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5K0509-BLK1	File ID:	D12891.D
Batch:	B5K0509	Prepared:	11/05/15 10:47	Analyzed:	11/05/15 10:47
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5K0507	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane	ND	1.00	2.00	U
103-65-1	n-Propyl Benzene	ND	1.00	2.00	U
108-86-1	Bromobenzene	ND	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.00	2.00	U
95-49-8	2-Chlorotoluene	ND	1.00	2.00	U
106-43-4	4-Chlorotoluene	ND	1.00	2.00	U
98-06-6	tert-Butylbenzene	ND	1.00	2.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.00	2.00	U
135-98-8	sec-Butylbenzene	ND	1.00	2.00	U
99-87-6	p-Isopropyltoluene	ND	1.00	2.00	U
541-73-1	1,3-Dichlorobenzene	ND	1.00	2.00	U
106-46-7	1,4-Dichlorobenzene	ND	1.00	2.00	U
104-51-8	n-Butyl Benzene	ND	1.00	2.00	U
95-50-1	1,2-Dichlorobenzene	ND	1.00	2.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.00	2.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.00	2.00	U
87-68-3	Hexachlorobutadiene	ND	1.00	2.00	U
91-20-3	Naphthalene	ND	1.00	2.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.00	2.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	102%	70-130
Toluene-d8	101%	70-130
Bromofluorobenzene	96%	70-130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501955

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0314	Prep Method:	EPA 5035A
Percent Solids:	85.30	Laboratory ID:	B5K0314-MSD1
		Client Sample ID:	1501917-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	58.6	60.6	103		6	30	70 - 130
Trichloroethene	58.6	59.7	102		6	30	70 - 130
Methylcyclohexane	58.6	51.1	87		6	30	70 - 130
1,2-Dichloropropane	58.6	67.0	114		8	30	70 - 130
Bromodichloromethane	58.6	65.4	112		8	30	70 - 130
Dibromomethane	58.6	68.1	116		8	30	70 - 130
2-Chloroethyl vinyl ether	58.6	72.3	123		10	30	40 - 160
cis-1,3-Dichloropropene	58.6	69.7	119		10	30	70 - 130
Toluene	58.6	61.6	105		7	30	70 - 130
trans-1,3-Dichloropropene	58.6	72.6	124		11	30	70 - 130
1,1,2-Trichloroethane	58.6	72.6	124		10	30	70 - 130
4-Methyl-2-pentanone	58.6	72.3	123		12	30	40 - 160
1,2-Dibromoethane	58.6	75.3	128		12	30	70 - 130
2-Hexanone	58.6	64.3	110		13	30	40 - 160
1,3-Dichloropropane	58.6	73.6	126		12	30	70 - 130
Tetrachloroethene	58.6	57.6	98		10	30	70 - 130
Dibromochloromethane	58.6	72.2	123		12	30	70 - 130
Ethylbenzene	58.6	63.6	108		9	30	70 - 130
Chlorobenzene	58.6	65.6	112		10	30	70 - 130
1,1,1,2-Tetrachloroethane	58.6	67.4	115		10	30	70 - 130
m,p-Xylenes	117	126	108		8	30	70 - 130
o-Xylene	117	123	105		9	30	70 - 130
Styrene	117	122	104		9	30	70 - 130
Bromoform	58.6	71.1	121		13	30	70 - 130
Isopropylbenzene	58.6	65.7	112		13	30	70 - 130
1,1,2,2-Tetrachloroethane	58.6	83.0	142	*	13	30	70 - 130
1,2,3-Trichloropropane	58.6	79.6	136	*	12	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501955

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0509	Prep Method:	EPA 5035A
Percent Solids:	90.00	Laboratory ID:	B5K0509-MS1
		Client Sample ID:	1501985-11

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Acrolein	278	ND	178	64		40 - 160
Acrylonitrile	278	ND	288	104		70 - 130
Acetone	55.6	1.87	62.6	109		40 - 160
Dichlorodifluoromethane	55.6	ND	56.9	102		40 - 160
Chloromethane	55.6	ND	55.1	99		40 - 160
Vinyl chloride	55.6	ND	58.9	106		70 - 130
Bromomethane	55.6	ND	61.3	110		40 - 160
Chloroethane	55.6	ND	60.9	110		40 - 160
Trichlorofluoromethane	55.6	ND	57.9	104		40 - 160
Freon 113	55.6	ND	40.6	73		70 - 130
1,1-Dichloroethene	55.6	ND	45.5	82		70 - 130
Carbon disulfide	55.6	ND	40.0	72		70 - 130
Methyl Acetate	55.6	ND	72.0	130		70 - 130
Methylene Chloride	55.6	22.1	82.9	109		70 - 130
trans-1,2-Dichloroethene	55.6	ND	46.9	84		70 - 130
1,1-Dichloroethane	55.6	ND	53.9	97		70 - 130
2,2-Dichloropropane	55.6	ND	52.0	94		70 - 130
2-Butanone	55.6	ND	57.2	103		40 - 160
cis-1,2-Dichloroethene	55.6	ND	52.6	95		70 - 130
Chloroform	55.6	ND	54.0	97		70 - 130
Bromochloromethane	55.6	ND	55.9	101		70 - 130
Cyclohexane	55.6	ND	35.0	63	*	70 - 130
1,1,1-Trichloroethane	55.6	ND	51.1	92		70 - 130
t-Butyl alcohol	556	ND	604	109		40 - 160
1,1-Dichloropropene	55.6	ND	43.9	79		70 - 130
Carbon Tetrachloride	55.6	ND	46.2	83		70 - 130
1,2-Dichloroethane	55.6	ND	56.5	102		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501955

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0509	Prep Method:	EPA 5035A
Percent Solids:	90.00	Laboratory ID:	B5K0509-MS1
		Client Sample ID:	1501985-11

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Benzene	55.6	ND	50.7	91		70 - 130
Trichloroethene	55.6	ND	47.1	85		70 - 130
Methylcyclohexane	55.6	ND	29.2	52	*	70 - 130
1,2-Dichloropropane	55.6	ND	56.5	102		70 - 130
Bromodichloromethane	55.6	ND	54.6	98		70 - 130
Dibromomethane	55.6	ND	55.1	99		70 - 130
2-Chloroethyl vinyl ether	55.6	ND	61.0	110		40 - 160
cis-1,3-Dichloropropene	55.6	ND	53.9	97		70 - 130
Toluene	55.6	ND	47.8	86		70 - 130
trans-1,3-Dichloropropene	55.6	ND	52.8	95		70 - 130
1,1,2-Trichloroethane	55.6	ND	57.0	103		70 - 130
4-Methyl-2-pentanone	55.6	ND	57.7	104		40 - 160
1,2-Dibromoethane	55.6	ND	57.8	104		70 - 130
2-Hexanone	55.6	ND	64.0	115		40 - 160
1,3-Dichloropropane	55.6	ND	62.0	112		70 - 130
Tetrachloroethene	55.6	ND	43.3	78		70 - 130
Dibromochloromethane	55.6	ND	62.8	113		70 - 130
Ethylbenzene	55.6	ND	48.7	88		70 - 130
Chlorobenzene	55.6	ND	52.0	94		70 - 130
1,1,1,2-Tetrachloroethane	55.6	ND	58.8	106		70 - 130
m,p-Xylenes	111	ND	94.3	85		70 - 130
o-Xylene	111	ND	97.6	88		70 - 130
Styrene	111	ND	98.9	89		70 - 130
Bromoform	55.6	ND	61.9	111		70 - 130
Isopropylbenzene	55.6	ND	53.9	97		70 - 130
1,1,2,2-Tetrachloroethane	55.6	ND	77.3	139	*	70 - 130
1,2,3-Trichloropropane	55.6	ND	73.1	132	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501955

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0509	Prep Method:	EPA 5035A
Percent Solids:	90.00	Laboratory ID:	B5K0509-MS1
		Client Sample ID:	1501985-11

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
n-Propyl Benzene	55.6	ND	49.5	89		70 - 130
Bromobenzene	55.6	ND	58.4	105		70 - 130
1,3,5-Trimethylbenzene	55.6	ND	50.4	91		70 - 130
2-Chlorotoluene	55.6	ND	54.9	99		70 - 130
4-Chlorotoluene	55.6	ND	54.2	98		70 - 130
tert-Butylbenzene	55.6	ND	50.0	90		70 - 130
1,2,4-Trimethylbenzene	55.6	ND	51.5	93		70 - 130
sec-Butylbenzene	55.6	ND	44.2	80		70 - 130
p-Isopropyltoluene	55.6	ND	43.9	79		70 - 130
1,3-Dichlorobenzene	55.6	ND	49.2	89		70 - 130
1,4-Dichlorobenzene	55.6	ND	50.0	90		70 - 130
n-Butyl Benzene	55.6	ND	38.9	70		70 - 130
1,2-Dichlorobenzene	55.6	ND	53.5	96		70 - 130
1,2-Dibromo-3-chloropropane	55.6	ND	74.1	133		40 - 160
1,2,4-Trichlorobenzene	55.6	ND	36.2	65	*	70 - 130
Hexachlorobutadiene	55.6	ND	28.4	51	*	70 - 130
Naphthalene	55.6	ND	52.3	94		40 - 160
1,2,3-Trichlorobenzene	55.6	ND	38.5	69	*	70 - 130
Methyl tert-Butyl Ether	111	ND	154	139	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501955

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0509	Prep Method:	EPA 5035A
Percent Solids:	90.00	Laboratory ID:	B5K0509-MSD1
		Client Sample ID:	1501985-11

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Acrolein	278	154	55	15	30	40 - 160
Acrylonitrile	278	295	106	3	30	70 - 130
Acetone	55.6	64.7	113	3	30	40 - 160
Dichlorodifluoromethane	55.6	57.9	104	2	30	40 - 160
Chloromethane	55.6	56.1	101	2	30	40 - 160
Vinyl chloride	55.6	61.0	110	3	30	70 - 130
Bromomethane	55.6	63.0	113	3	30	40 - 160
Chloroethane	55.6	66.4	120	9	30	40 - 160
Trichlorofluoromethane	55.6	60.7	109	5	30	40 - 160
Freon 113	55.6	45.6	82	12	30	70 - 130
1,1-Dichloroethene	55.6	48.1	87	5	30	70 - 130
Carbon disulfide	55.6	43.8	79	9	30	70 - 130
Methyl Acetate	55.6	76.6	138 *	6	30	70 - 130
Methylene Chloride	55.6	81.5	107	2	30	70 - 130
trans-1,2-Dichloroethene	55.6	50.0	90	6	30	70 - 130
1,1-Dichloroethane	55.6	58.3	105	8	30	70 - 130
2,2-Dichloropropane	55.6	55.5	100	6	30	70 - 130
2-Butanone	55.6	60.1	108	5	30	40 - 160
cis-1,2-Dichloroethene	55.6	56.0	101	6	30	70 - 130
Chloroform	55.6	57.7	104	6	30	70 - 130
Bromochloromethane	55.6	60.4	109	8	30	70 - 130
Cyclohexane	55.6	38.1	69 *	9	30	70 - 130
1,1,1-Trichloroethane	55.6	54.6	98	7	30	70 - 130
t-Butyl alcohol	556	615	111	2	30	40 - 160
1,1-Dichloropropene	55.6	46.7	84	6	30	70 - 130
Carbon Tetrachloride	55.6	49.7	89	7	30	70 - 130
1,2-Dichloroethane	55.6	58.4	105	3	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501955

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0509	Prep Method:	EPA 5035A
Percent Solids:	90.00	Laboratory ID:	B5K0509-MSD1
		Client Sample ID:	1501985-11

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	55.6	52.8	95		4	30	70 - 130
Trichloroethene	55.6	49.2	89		4	30	70 - 130
Methylcyclohexane	55.6	31.9	57	*	9	30	70 - 130
1,2-Dichloropropane	55.6	58.5	105		3	30	70 - 130
Bromodichloromethane	55.6	57.8	104		6	30	70 - 130
Dibromomethane	55.6	55.8	100		1	30	70 - 130
2-Chloroethyl vinyl ether	55.6	62.4	112		2	30	40 - 160
cis-1,3-Dichloropropene	55.6	55.7	100		3	30	70 - 130
Toluene	55.6	49.9	90		4	30	70 - 130
trans-1,3-Dichloropropene	55.6	55.6	100		5	30	70 - 130
1,1,2-Trichloroethane	55.6	59.4	107		4	30	70 - 130
4-Methyl-2-pentanone	55.6	56.6	102		2	30	40 - 160
1,2-Dibromoethane	55.6	57.9	104		0.06	30	70 - 130
2-Hexanone	55.6	64.1	115		0.2	30	40 - 160
1,3-Dichloropropane	55.6	64.0	115		3	30	70 - 130
Tetrachloroethene	55.6	46.6	84		7	30	70 - 130
Dibromochloromethane	55.6	65.7	118		5	30	70 - 130
Ethylbenzene	55.6	51.2	92		5	30	70 - 130
Chlorobenzene	55.6	54.5	98		5	30	70 - 130
1,1,1,2-Tetrachloroethane	55.6	63.3	114		7	30	70 - 130
m,p-Xylenes	111	99.6	90		5	30	70 - 130
o-Xylene	111	102	92		5	30	70 - 130
Styrene	111	103	93		4	30	70 - 130
Bromoform	55.6	62.5	112		1	30	70 - 130
Isopropylbenzene	55.6	58.1	105		8	30	70 - 130
1,1,2,2-Tetrachloroethane	55.6	78.0	140	*	0.8	30	70 - 130
1,2,3-Trichloropropane	55.6	76.4	138	*	4	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501955

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0509	Prep Method:	EPA 5035A
Percent Solids:	90.00	Laboratory ID:	B5K0509-MSD1
		Client Sample ID:	1501985-11

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
n-Propyl Benzene	55.6	53.3	96		7	30	70 - 130
Bromobenzene	55.6	62.4	112		7	30	70 - 130
1,3,5-Trimethylbenzene	55.6	53.4	96		6	30	70 - 130
2-Chlorotoluene	55.6	57.6	104		5	30	70 - 130
4-Chlorotoluene	55.6	55.6	100		3	30	70 - 130
tert-Butylbenzene	55.6	52.4	94		5	30	70 - 130
1,2,4-Trimethylbenzene	55.6	55.6	100		8	30	70 - 130
sec-Butylbenzene	55.6	47.2	85		7	30	70 - 130
p-Isopropyltoluene	55.6	47.0	85		7	30	70 - 130
1,3-Dichlorobenzene	55.6	52.2	94		6	30	70 - 130
1,4-Dichlorobenzene	55.6	51.7	93		3	30	70 - 130
n-Butyl Benzene	55.6	41.7	75		7	30	70 - 130
1,2-Dichlorobenzene	55.6	54.3	98		2	30	70 - 130
1,2-Dibromo-3-chloropropane	55.6	72.9	131		2	30	40 - 160
1,2,4-Trichlorobenzene	55.6	37.3	67	*	3	30	70 - 130
Hexachlorobutadiene	55.6	30.1	54	*	6	30	70 - 130
Naphthalene	55.6	48.6	87		7	30	40 - 160
1,2,3-Trichlorobenzene	55.6	34.7	62	*	10	30	70 - 130
Methyl tert-Butyl Ether	111	166	149	*	7	30	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501955
Project: 138th Street, Bronx, NY; 10BR188

Sequence: S5K0507 Instrument: GC/MS D
Calibration: 15K1802

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-11 (1501955-01)			*Lab File ID: D12898.D*			*Analyzed: 11/05/15 15:04*			
Pentafluorobenzene	491631	6.46	740552	6.46	66	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	865530	7.16	1275644	7.15	68	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	598542	11.21	1012725	11.2	59	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	183829	14.2	427329	14.2	43	50 - 200	0.0000	+/-0.50	*

* Values outside of QC limits

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501955
Project: 138th Street, Bronx, NY; 10BR188

Sequence: S5K0304 Instrument: GC/MS D
Calibration: 15J2804

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-11 (1501955-01RE1)			*Lab File ID: D12870.D*			*Analyzed: 11/03/15 19:48*			
Pentafluorobenzene	515590	6.46	864483	6.47	60	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene	876166	7.17	1450281	7.17	60	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	551057	11.21	1170910	11.21	47	50 - 200	0.0000	+/-0.50	*
1,4-Dichlorobenzene-d4	165398	14.2	501911	14.2	33	50 - 200	0.0000	+/-0.50	*

* Values outside of QC limits

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501955
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5J3010	Preparation:	EPA 3050B
% Solids:	88.10	Laboratory ID:	B5J3010-MS1
		Client Sample ID:	1501921-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)		MS % REC.		QC LIMITS REC.
Aluminum	284	13500	20000	*	2280	* *	75 - 125
Antimony	284	ND	263		92.6		75 - 125
Arsenic	284	5.81	277		95.5		75 - 125
Barium	284	51.1	340		102		75 - 125
Beryllium	284	0.810	280		98.4		75 - 125
Cadmium	284	ND	267		94.2		75 - 125
Calcium	284	1500	1930	*	152	* *	75 - 125
Chromium	284	26.1	290		92.9		75 - 125
Cobalt	284	15.0	272		90.4		75 - 125
Copper	284	37.5	302		93.3		75 - 125
Lead	284	44.8	294		87.8		75 - 125
Magnesium	284	1700	1800	*	35.6	* *	75 - 125
Manganese	284	503	669	*	58.2	*	75 - 125
Nickel	284	14.7	273		91.1		75 - 125
Potassium	284	525	995	*	166	*	75 - 125
Selenium	284	ND	252		88.8		75 - 125
Silver	28.4	ND	26.1		91.8		75 - 125
Sodium	284	71.7	350		98.0		75 - 125
Thallium	284	ND	245		86.3		75 - 125
Vanadium	284	35.4	310		96.9		75 - 125
Zinc	284	104	333		80.8		75 - 125

* spiked too low

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501955
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5J3010	Preparation:	EPA 3050B
% Solids:	88.10	Laboratory ID:	B5J3010-MSD1
		Client Sample ID:	1501921-01

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
Aluminum	284	18700	1810	* *	6.84		20	75 - 125
Antimony	284	252	88.9		4.08		20	75 - 125
Arsenic	284	269	92.9		2.66		20	75 - 125
Barium	284	324	96.2		4.75		20	75 - 125
Beryllium	284	271	95.3		3.19		20	75 - 125
Cadmium	284	260	91.7		2.71		20	75 - 125
Calcium	284	1560	24.4	* *	20.7	*	20	75 - 125
Chromium	284	283	90.5		2.40		20	75 - 125
Cobalt	284	263	87.4		3.21		20	75 - 125
Copper	284	294	90.3		2.90		20	75 - 125
Lead	284	280	82.7		5.01		20	75 - 125
Magnesium	284	1740	14.4	* *	3.40		20	75 - 125
Manganese	284	690	65.8	*	3.17		20	75 - 125
Nickel	284	266	88.6		2.59		20	75 - 125
Potassium	284	900	132	*	10.1		20	75 - 125
Selenium	284	242	85.2		4.14		20	75 - 125
Silver	28.4	24.9	87.7		4.54		20	75 - 125
Sodium	284	331	91.4		5.43		20	75 - 125
Thallium	284	235	82.9		4.09		20	75 - 125
Vanadium	284	307	95.6		1.14		20	75 - 125
Zinc	284	321	76.5		3.72		20	75 - 125

* spiked too low

Appendix C

Validator Qualifications

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Block 2333, Lot 1
Bronx, Bronx County, NY
NYSDEC BCP # C203057

SDG: 1501974

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

December 2015

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REVIEWER'S NARRATIVE
SDG 1501974

The data associated with this Sample Delivery Group (SDG) 1501974, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. P. Date: 12/12/15
Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx , NY
SAMPLING DATE:	October 30, 2015
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1501974

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on October 30, 2015. This sample was analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1501974. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1501974, one sample was analyzed and results were reported for 188 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that are estimated and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-12(1501974-01)	Several compounds	none	MS/MSD recoveries outside QC limit	Matrix interference suspected/LCS within QC limits
EP-12(1501974-01)	Acetone Methylene Chloride	B	Method Blank contamination	Sample results up to 10X blank level have been flagged with a "B". Common lab contaminants.
EP-12(1501974-01)	Isopropylbenzene 1,1,2,2-Tetrchloroethane 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene 2-Chlorotoluene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene p-Isopropylbenzene 1,2,4-Trichlorobenzene 1,2-Dibromo-3-chloropropane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Naphthalene n-Butylbenzene Hexachlorobutadiene	J detects/UJ non-detects	IS# 4 <50 % QC limit	Results are estimated.

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-12(1501974-01)	Several compounds	none	MS/MSD < QC limit	Matrix interference suspected/LCS within QC limits

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-12(1501974-01)	Sodium	J detects	% Recovery > QC limit	Results are estimated.
EP-12(1501974-01)	Zinc	J detects	Serial dilution > 10%	Results are estimated.

Table 6-6 Total Cyanide

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

16 November 2015

AAR Work Order: 1501974

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 11/02/2015 15:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brnk.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1501974
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-12	10/30/15/11:00AM	S		4	G	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC ~~E = ENCORE~~ PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable.
COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: [illegible]	Print Name: [illegible]	Print Name: K. Muniz
Signature: Monica Norton	Signature: [illegible]	Signature: [illegible]	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 11/2/15	Time: 13:40	Date Received 11/2/15	Time: 15:50

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 11/2/2015 3:50:00 PM.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5K0314-MS1/MSD1 and B5K0509-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits for all compounds; therefore, no further action required.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the BNA analyses, B5K0410-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	Reported:
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-12	1501974-01	Soil	10/30/2015 11:00	11/02/2015 15:50

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
Sample Prepared by Method:EPA 5035A										
107-02-8	Acrolein	ND	9.46	15.8	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	3.15	15.8	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
67-64-1	**Acetone**	**30.0** B	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**25.8** B	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
71-43-2	Benzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
75-27-4	Bromodichloromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-88-3	**Toluene**	**2.79**	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
100-41-4	**Ethylbenzene**	**4.67**	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	
108-90-7	Chlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-38-3/106-4	**m,p-Xylenes**	**4.56**	3.15	6.31	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	J
95-47-6	**o-Xylene**	**3.88**	3.15	6.31	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	J
100-42-5	Styrene	ND	1.58	6.31	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND UJ	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-67-8	**1,3,5-Trimethylbenzene**	**2.15** J	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	J
95-49-8	2-Chlorotoluene	ND UJ	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
98-06-6	tert-Butylbenzene	ND NJ	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
95-63-6	**1,2,4-Trimethylbenzene**	3.44 J	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	
135-98-8	sec-Butylbenzene	ND NJ	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*108 %*	*70-130*		*11/05/15 15:34*	*11/05/15 15:34/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*97 %*	*70-130*		*11/05/15 15:34*	*11/05/15 15:34/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*75 %*	*70-130*		*11/05/15 15:34*	*11/05/15 15:34/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
108-95-2	Phenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
621-64-7	N-Nitroso-di-n-propylamine	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
67-72-1	Hexachloroethane	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
78-59-1	Isophorone	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	131	525	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**335**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	
106-47-8	4-Chloroaniline	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
91-57-6	**2-Methylnaphthylene**	**75.4**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
77-47-4	Hexachlorocyclopentadiene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
83-32-9	**Acenaphthene**	**242**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	52.5	525	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
132-64-9	**Dibenzofuran**	**148**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
606-20-2	2,6-Dinitrotoluene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
121-14-2	2,4-Dinitrotoluene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
86-73-7	**Fluorene**	**181**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
100-01-6	4-Nitroaniline	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**489**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	
120-12-7	**Anthracene**	**93.2**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**326**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	
129-00-0	**Pyrene**	**216**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	131	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**77.1**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
218-01-9	**Chrysene**	**81.3**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*56 %*	*30-130*		*11/04/15 12:21*	*11/05/15 21:01/JMM*	*EPA 8270*	

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Phenol-d5				*69 %*	*30-130*		*11/04/15 12:21*	*11/05/15 21:01/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*53 %*	*30-130*		*11/04/15 12:21*	*11/05/15 21:01/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*53 %*	*30-130*		*11/04/15 12:21*	*11/05/15 21:01/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*84 %*	*30-130*		*11/04/15 12:21*	*11/05/15 21:01/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*61 %*	*30-130*		*11/04/15 12:21*	*11/05/15 21:01/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	10.5	10.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	52.5	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL 1805 Atlantic Ave. Manasquan NJ, 08736	Project: 138th Street, Bronx, NY; 10BR188 Project Manager: Doug Harm	**Reported:** 11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
				Accredited Analytical Resources LLC						
EPA Method SW846 8081/8082										
12674-11-2	Aroclor-1016	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*94.3 %*	*30-150*		*11/06/15 05:59*	*11/06/15 20:18/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*98.2 %*	*30-150*		*11/06/15 05:59*	*11/06/15 20:18/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*86.8 %*	*30-150*		*11/06/15 05:59*	*11/06/15 20:18/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*110 %*	*30-150*		*11/06/15 05:59*	*11/06/15 20:18/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8820**	31.5	31.5	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-36-0	Antimony	ND	6.31	6.31	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.65**	1.58	1.58	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-39-3	**Barium**	**50.9**	31.5	31.5	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.789	0.789	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.789	0.789	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-70-2	**Calcium**	**4870**	39.4	39.4	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-47-3	**Chromium**	**14.0**	3.15	3.15	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-48-4	Cobalt	ND	7.89	7.89	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-50-8	**Copper**	**23.2**	4.73	4.73	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7439-89-6	**Iron**	**13700**	39.4	39.4	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7439-92-1	**Lead**	**22.4**	1.58	1.58	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7439-95-4	**Magnesium**	**5430**	78.9	78.9	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7439-96-5	**Manganese**	**161**	3.15	3.15	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-02-0	**Nickel**	**15.8**	6.31	6.31	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-09-7	**Potassium**	**1010**	78.9	78.9	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7782-49-2	Selenium	ND	6.31	6.31	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.789	0.789	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-23-5	**Sodium**	**395** J	78.9	78.9	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.37	4.73	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**15.9**	7.89	7.89	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-66-6	**Zinc**	**60.7** J	9.46	9.46	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.118	0.118	mg/kg dry	1	11/04/15 07:58	11/04/15 14:57/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.58	1.58	mg/kg dry	1	11/03/15 10:10	11/03/15 15:07/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**63.4**	0.100	0.100	%	1	11/03/15 08:57	11/04/15 10:35/CLD	SM 2540 G	

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MAP 12/11/15

Daniel Miguel, Technical Director

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501974

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5K0410	Prep Method:	EPA 3550B GCMS
Percent Solids:	85.30	Laboratory ID:	B5K0410-MS1
		Client Sample ID:	1501965-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Anthracene	1950	ND	1940	99		70 - 130
Di-n-butyl phthalate	1950	ND	1940	99		70 - 130
Fluoranthene	1950	ND	1980	101		70 - 130
Pyrene	1950	ND	1780	91		70 - 130
Butylbenzylphthalate	1950	ND	1780	91		70 - 130
Benzo[a]anthracene	1950	ND	1800	92		70 - 130
bis(2-ethylhexyl)phthalate	1950	ND	1890	97		70 - 130
Chrysene	1950	ND	1780	91		70 - 130
Di-n-octyl phthalate	1950	ND	1700	87		70 - 130
Benzo[b]fluoranthene	1950	ND	1630	83		70 - 130
Benzo[k]fluoranthene	1950	ND	1600	82		70 - 130
Benzo[a]pyrene	1950	ND	1640	84		70 - 130
Indeno(1,2,3-cd)pyrene	1950	ND	1520	78		70 - 130
Dibenzo(a,h)anthracene	1950	ND	1600	82		70 - 130
Benzo[ghi]perylene	1950	ND	1340	69	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501974

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5K0410	Prep Method:	EPA 3550B GCMS
Percent Solids:	85.30	Laboratory ID:	B5K0410-MSD1
		Client Sample ID:	1501965-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Anthracene	1950	1730	89	11	30	70 - 130
Di-n-butyl phthalate	1950	1750	90	10	30	70 - 130
Fluoranthene	1950	1780	91	10	30	70 - 130
Pyrene	1950	1600	82	11	30	70 - 130
Butylbenzylphthalate	1950	1620	83	10	30	70 - 130
Benzo[a]anthracene	1950	1630	84	10	30	70 - 130
bis(2-ethylhexyl)phthalate	1950	1610	83	16	30	70 - 130
Chrysene	1950	1600	82	10	30	70 - 130
Di-n-octyl phthalate	1950	1540	79	10	30	70 - 130
Benzo[b]fluoranthene	1950	1530	79	6	30	70 - 130
Benzo[k]fluoranthene	1950	1470	75	8	30	70 - 130
Benzo[a]pyrene	1950	1480	76	10	30	70 - 130
Indeno(1,2,3-cd)pyrene	1950	1380	71	10	30	70 - 130
Dibenzo(a,h)anthracene	1950	1450	74	10	30	70 - 130
Benzo[ghi]perylene	1950	1230	63 *	9	30	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501974
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5K0509-BLK1	File ID:	D12891.D
Batch:	B5K0509	Prepared:	11/05/15 10:47	Analyzed:	11/05/15 10:47
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5K0507	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	3.53	1.00	2.00	
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	4.55	1.00	2.00	
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501974

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0314	Prep Method:	EPA 5035A
Percent Solids:	85.30	Laboratory ID:	B5K0314-MSD1
		Client Sample ID:	1501917-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	58.6	60.6	103		6	30	70 - 130
Trichloroethene	58.6	59.7	102		6	30	70 - 130
Methylcyclohexane	58.6	51.1	87		6	30	70 - 130
1,2-Dichloropropane	58.6	67.0	114		8	30	70 - 130
Bromodichloromethane	58.6	65.4	112		8	30	70 - 130
Dibromomethane	58.6	68.1	116		8	30	70 - 130
2-Chloroethyl vinyl ether	58.6	72.3	123		10	30	40 - 160
cis-1,3-Dichloropropene	58.6	69.7	119		10	30	70 - 130
Toluene	58.6	61.6	105		7	30	70 - 130
trans-1,3-Dichloropropene	58.6	72.6	124		11	30	70 - 130
1,1,2-Trichloroethane	58.6	72.6	124		10	30	70 - 130
4-Methyl-2-pentanone	58.6	72.3	123		12	30	40 - 160
1,2-Dibromoethane	58.6	75.3	128		12	30	70 - 130
2-Hexanone	58.6	64.3	110		13	30	40 - 160
1,3-Dichloropropane	58.6	73.6	126		12	30	70 - 130
Tetrachloroethene	58.6	57.6	98		10	30	70 - 130
Dibromochloromethane	58.6	72.2	123		12	30	70 - 130
Ethylbenzene	58.6	63.6	108		9	30	70 - 130
Chlorobenzene	58.6	65.6	112		10	30	70 - 130
1,1,1,2-Tetrachloroethane	58.6	67.4	115		10	30	70 - 130
m,p-Xylenes	117	126	108		8	30	70 - 130
o-Xylene	117	123	105		9	30	70 - 130
Styrene	117	122	104		9	30	70 - 130
Bromoform	58.6	71.1	121		13	30	70 - 130
Isopropylbenzene	58.6	65.7	112		13	30	70 - 130
1,1,2,2-Tetrachloroethane	58.6	83.0	142	*	13	30	70 - 130
1,2,3-Trichloropropane	58.6	79.6	136	*	12	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501974

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0509	Prep Method:	EPA 5035A
Percent Solids:	90.00	Laboratory ID:	B5K0509-MS1
		Client Sample ID:	1501985-11

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Acrolein	278	ND	178	64		40 - 160
Acrylonitrile	278	ND	288	104		70 - 130
Acetone	55.6	1.87	62.6	109		40 - 160
Dichlorodifluoromethane	55.6	ND	56.9	102		40 - 160
Chloromethane	55.6	ND	55.1	99		40 - 160
Vinyl chloride	55.6	ND	58.9	106		70 - 130
Bromomethane	55.6	ND	61.3	110		40 - 160
Chloroethane	55.6	ND	60.9	110		40 - 160
Trichlorofluoromethane	55.6	ND	57.9	104		40 - 160
Freon 113	55.6	ND	40.6	73		70 - 130
1,1-Dichloroethene	55.6	ND	45.5	82		70 - 130
Carbon disulfide	55.6	ND	40.0	72		70 - 130
Methyl Acetate	55.6	ND	72.0	130		70 - 130
Methylene Chloride	55.6	22.1	82.9	109		70 - 130
trans-1,2-Dichloroethene	55.6	ND	46.9	84		70 - 130
1,1-Dichloroethane	55.6	ND	53.9	97		70 - 130
2,2-Dichloropropane	55.6	ND	52.0	94		70 - 130
2-Butanone	55.6	ND	57.2	103		40 - 160
cis-1,2-Dichloroethene	55.6	ND	52.6	95		70 - 130
Chloroform	55.6	ND	54.0	97		70 - 130
Bromochloromethane	55.6	ND	55.9	101		70 - 130
Cyclohexane	55.6	ND	35.0	63	*	70 - 130
1,1,1-Trichloroethane	55.6	ND	51.1	92		70 - 130
t-Butyl alcohol	556	ND	604	109		40 - 160
1,1-Dichloropropene	55.6	ND	43.9	79		70 - 130
Carbon Tetrachloride	55.6	ND	46.2	83		70 - 130
1,2-Dichloroethane	55.6	ND	56.5	102		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501974

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0509	Prep Method:	EPA 5035A
Percent Solids:	90.00	Laboratory ID:	B5K0509-MS1
		Client Sample ID:	1501985-11

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Benzene	55.6	ND	50.7	91		70 - 130
Trichloroethene	55.6	ND	47.1	85		70 - 130
Methylcyclohexane	55.6	ND	29.2	52	*	70 - 130
1,2-Dichloropropane	55.6	ND	56.5	102		70 - 130
Bromodichloromethane	55.6	ND	54.6	98		70 - 130
Dibromomethane	55.6	ND	55.1	99		70 - 130
2-Chloroethyl vinyl ether	55.6	ND	61.0	110		40 - 160
cis-1,3-Dichloropropene	55.6	ND	53.9	97		70 - 130
Toluene	55.6	ND	47.8	86		70 - 130
trans-1,3-Dichloropropene	55.6	ND	52.8	95		70 - 130
1,1,2-Trichloroethane	55.6	ND	57.0	103		70 - 130
4-Methyl-2-pentanone	55.6	ND	57.7	104		40 - 160
1,2-Dibromoethane	55.6	ND	57.8	104		70 - 130
2-Hexanone	55.6	ND	64.0	115		40 - 160
1,3-Dichloropropane	55.6	ND	62.0	112		70 - 130
Tetrachloroethene	55.6	ND	43.3	78		70 - 130
Dibromochloromethane	55.6	ND	62.8	113		70 - 130
Ethylbenzene	55.6	ND	48.7	88		70 - 130
Chlorobenzene	55.6	ND	52.0	94		70 - 130
1,1,1,2-Tetrachloroethane	55.6	ND	58.8	106		70 - 130
m,p-Xylenes	111	ND	94.3	85		70 - 130
o-Xylene	111	ND	97.6	88		70 - 130
Styrene	111	ND	98.9	89		70 - 130
Bromoform	55.6	ND	61.9	111		70 - 130
Isopropylbenzene	55.6	ND	53.9	97		70 - 130
1,1,2,2-Tetrachloroethane	55.6	ND	77.3	139	*	70 - 130
1,2,3-Trichloropropane	55.6	ND	73.1	132	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501974

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0509	Prep Method:	EPA 5035A
Percent Solids:	90.00	Laboratory ID:	B5K0509-MS1
		Client Sample ID:	1501985-11

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
n-Propyl Benzene	55.6	ND	49.5	89		70 - 130
Bromobenzene	55.6	ND	58.4	105		70 - 130
1,3,5-Trimethylbenzene	55.6	ND	50.4	91		70 - 130
2-Chlorotoluene	55.6	ND	54.9	99		70 - 130
4-Chlorotoluene	55.6	ND	54.2	98		70 - 130
tert-Butylbenzene	55.6	ND	50.0	90		70 - 130
1,2,4-Trimethylbenzene	55.6	ND	51.5	93		70 - 130
sec-Butylbenzene	55.6	ND	44.2	80		70 - 130
p-Isopropyltoluene	55.6	ND	43.9	79		70 - 130
1,3-Dichlorobenzene	55.6	ND	49.2	89		70 - 130
1,4-Dichlorobenzene	55.6	ND	50.0	90		70 - 130
n-Butyl Benzene	55.6	ND	38.9	70		70 - 130
1,2-Dichlorobenzene	55.6	ND	53.5	96		70 - 130
1,2-Dibromo-3-chloropropane	55.6	ND	74.1	133		40 - 160
1,2,4-Trichlorobenzene	55.6	ND	36.2	65	*	70 - 130
Hexachlorobutadiene	55.6	ND	28.4	51	*	70 - 130
Naphthalene	55.6	ND	52.3	94		40 - 160
1,2,3-Trichlorobenzene	55.6	ND	38.5	69	*	70 - 130
Methyl tert-Butyl Ether	111	ND	154	139	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501974

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0509	Prep Method:	EPA 5035A
Percent Solids:	90.00	Laboratory ID:	B5K0509-MSD1
		Client Sample ID:	1501985-11

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Acrolein	278	154	55	15	30	40 - 160
Acrylonitrile	278	295	106	3	30	70 - 130
Acetone	55.6	64.7	113	3	30	40 - 160
Dichlorodifluoromethane	55.6	57.9	104	2	30	40 - 160
Chloromethane	55.6	56.1	101	2	30	40 - 160
Vinyl chloride	55.6	61.0	110	3	30	70 - 130
Bromomethane	55.6	63.0	113	3	30	40 - 160
Chloroethane	55.6	66.4	120	9	30	40 - 160
Trichlorofluoromethane	55.6	60.7	109	5	30	40 - 160
Freon 113	55.6	45.6	82	12	30	70 - 130
1,1-Dichloroethene	55.6	48.1	87	5	30	70 - 130
Carbon disulfide	55.6	43.8	79	9	30	70 - 130
Methyl Acetate	55.6	76.6	138 *	6	30	70 - 130
Methylene Chloride	55.6	81.5	107	2	30	70 - 130
trans-1,2-Dichloroethene	55.6	50.0	90	6	30	70 - 130
1,1-Dichloroethane	55.6	58.3	105	8	30	70 - 130
2,2-Dichloropropane	55.6	55.5	100	6	30	70 - 130
2-Butanone	55.6	60.1	108	5	30	40 - 160
cis-1,2-Dichloroethene	55.6	56.0	101	6	30	70 - 130
Chloroform	55.6	57.7	104	6	30	70 - 130
Bromochloromethane	55.6	60.4	109	8	30	70 - 130
Cyclohexane	55.6	38.1	69 *	9	30	70 - 130
1,1,1-Trichloroethane	55.6	54.6	98	7	30	70 - 130
t-Butyl alcohol	556	615	111	2	30	40 - 160
1,1-Dichloropropene	55.6	46.7	84	6	30	70 - 130
Carbon Tetrachloride	55.6	49.7	89	7	30	70 - 130
1,2-Dichloroethane	55.6	58.4	105	3	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501974

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0509	Prep Method:	EPA 5035A
Percent Solids:	90.00	Laboratory ID:	B5K0509-MSD1
		Client Sample ID:	1501985-11

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	55.6	52.8	95		4	30	70 - 130
Trichloroethene	55.6	49.2	89		4	30	70 - 130
Methylcyclohexane	55.6	31.9	57	*	9	30	70 - 130
1,2-Dichloropropane	55.6	58.5	105		3	30	70 - 130
Bromodichloromethane	55.6	57.8	104		6	30	70 - 130
Dibromomethane	55.6	55.8	100		1	30	70 - 130
2-Chloroethyl vinyl ether	55.6	62.4	112		2	30	40 - 160
cis-1,3-Dichloropropene	55.6	55.7	100		3	30	70 - 130
Toluene	55.6	49.9	90		4	30	70 - 130
trans-1,3-Dichloropropene	55.6	55.6	100		5	30	70 - 130
1,1,2-Trichloroethane	55.6	59.4	107		4	30	70 - 130
4-Methyl-2-pentanone	55.6	56.6	102		2	30	40 - 160
1,2-Dibromoethane	55.6	57.9	104		0.06	30	70 - 130
2-Hexanone	55.6	64.1	115		0.2	30	40 - 160
1,3-Dichloropropane	55.6	64.0	115		3	30	70 - 130
Tetrachloroethene	55.6	46.6	84		7	30	70 - 130
Dibromochloromethane	55.6	65.7	118		5	30	70 - 130
Ethylbenzene	55.6	51.2	92		5	30	70 - 130
Chlorobenzene	55.6	54.5	98		5	30	70 - 130
1,1,1,2-Tetrachloroethane	55.6	63.3	114		7	30	70 - 130
m,p-Xylenes	111	99.6	90		5	30	70 - 130
o-Xylene	111	102	92		5	30	70 - 130
Styrene	111	103	93		4	30	70 - 130
Bromoform	55.6	62.5	112		1	30	70 - 130
Isopropylbenzene	55.6	58.1	105		8	30	70 - 130
1,1,2,2-Tetrachloroethane	55.6	78.0	140	*	0.8	30	70 - 130
1,2,3-Trichloropropane	55.6	76.4	138	*	4	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501974

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0509	Prep Method:	EPA 5035A
Percent Solids:	90.00	Laboratory ID:	B5K0509-MSD1
		Client Sample ID:	1501985-11

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
n-Propyl Benzene	55.6	53.3	96	7	30	70 - 130
Bromobenzene	55.6	62.4	112	7	30	70 - 130
1,3,5-Trimethylbenzene	55.6	53.4	96	6	30	70 - 130
2-Chlorotoluene	55.6	57.6	104	5	30	70 - 130
4-Chlorotoluene	55.6	55.6	100	3	30	70 - 130
tert-Butylbenzene	55.6	52.4	94	5	30	70 - 130
1,2,4-Trimethylbenzene	55.6	55.6	100	8	30	70 - 130
sec-Butylbenzene	55.6	47.2	85	7	30	70 - 130
p-Isopropyltoluene	55.6	47.0	85	7	30	70 - 130
1,3-Dichlorobenzene	55.6	52.2	94	6	30	70 - 130
1,4-Dichlorobenzene	55.6	51.7	93	3	30	70 - 130
n-Butyl Benzene	55.6	41.7	75	7	30	70 - 130
1,2-Dichlorobenzene	55.6	54.3	98	2	30	70 - 130
1,2-Dibromo-3-chloropropane	55.6	72.9	131	2	30	40 - 160
1,2,4-Trichlorobenzene	55.6	37.3	67 *	3	30	70 - 130
Hexachlorobutadiene	55.6	30.1	54 *	6	30	70 - 130
Naphthalene	55.6	48.6	87	7	30	40 - 160
1,2,3-Trichlorobenzene	55.6	34.7	62 *	10	30	70 - 130
Methyl tert-Butyl Ether	111	166	149 *	7	30	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501974
Project: 138th Street, Bronx, NY; 10BR188

Sequence: S5K0507 Instrument: GC/MS D
Calibration: 15K1802

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-12 (1501974-01)			*Lab File ID: D12899.D*			*Analyzed: 11/05/15 15:34*			
Pentafluorobenzene	433904	6.47	740552	6.46	59	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	778243	7.17	1275644	7.15	61	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	536306	11.21	1012725	11.2	53	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	179170	14.2	427329	14.2	42	50 - 200	0.0000	+/-0.50	*

* Values outside of QC limits

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501974
Project: 138th Street, Bronx, NY; 10BR188

Sequence: S5K0304 Instrument: GC/MS D
Calibration: 15J2804

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-12 (1501974-01RE1)			*Lab File ID: D12871.D*			*Analyzed: 11/03/15 20:18*			
Pentafluorobenzene	470607	6.46	864483	6.47	54	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene	825309	7.16	1450281	7.17	57	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	478807	11.21	1170910	11.21	41	50 - 200	0.0000	+/-0.50	*
1,4-Dichlorobenzene-d4	128297	14.2	501911	14.2	26	50 - 200	0.0000	+/-0.50	*

* Values outside of QC limits

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501974
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5K0501	Preparation:	EPA 3050B
% Solids:	99.00	Laboratory ID:	B5K0501-MS1
		Client Sample ID:	1501995-10

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)		MS % REC.		QC LIMITS REC.	
Aluminum	253	8020	15300	*	2900 *	*	75 - 125	STL
Antimony	253	ND	245		96.9		75 - 125	
Arsenic	253	11.5	268		101		75 - 125	
Barium	253	46.1	317		107		75 - 125	
Beryllium	253	0.580	242		95.7		75 - 125	
Cadmium	253	0.676	238		94.0		75 - 125	
Calcium	253	6320	7780	*	576 *	*	75 - 125	STL
Chromium	253	17.9	265		97.8		75 - 125	
Cobalt	253	ND	233		92.2		75 - 125	
Copper	253	15.4	267		99.5		75 - 125	
Iron	253	17400	19000	*	638 *	*	75 - 125	STL
Lead	253	16.6	240		88.4		75 - 125	
Magnesium	253	2680	4240	*	615 *	*	75 - 125	STL
Manganese	253	127	368		95.7		75 - 125	
Nickel	253	6.41	237		91.4		75 - 125	
Potassium	253	1460	2780	*	522 *	*	75 - 125	Spiked too low
Selenium	253	ND	239		94.7		75 - 125	
Silver	25.3	ND	25.6		101		75 - 125	
Sodium	253	220	612	*	155	*	75 - 125	
Thallium	253	ND	210		83.0		75 - 125	
Vanadium	253	30.6	281		99.0		75 - 125	
Zinc	253	36.8	260		88.4		75 - 125	

* Spiked too low

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501974
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5K0501	Preparation:	EPA 3050B
% Solids:	99.00	Laboratory ID:	B5K0501-MSD1
		Client Sample ID:	1501995-10

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Aluminum	253	14800	2690	*	3.42	20	75 - 125
Antimony	253	244	96.7		0.227	20	75 - 125
Arsenic	253	266	101		0.473	20	75 - 125
Barium	253	306	103		3.62	20	75 - 125
Beryllium	253	241	95.4		0.334	20	75 - 125
Cadmium	253	239	94.2		0.254	20	75 - 125
Calcium	253	8560	886	*	9.58	20	75 - 125
Chromium	253	264	97.5		0.248	20	75 - 125
Cobalt	253	232	91.9		0.391	20	75 - 125
Copper	253	266	99.4		0.0569	20	75 - 125
Iron	253	19100	668	*	0.398	20	75 - 125
Lead	253	239	88.2		0.190	20	75 - 125
Magnesium	253	4750	818	*	11.4	20	75 - 125
Manganese	253	362	93.1		1.84	20	75 - 125
Nickel	253	237	91.3		0.149	20	75 - 125
Potassium	253	2690	487	*	3.21	20	75 - 125
Selenium	253	238	94.3		0.360	20	75 - 125
Silver	25.3	26.0	103		1.63	20	75 - 125
Sodium	253	596	149	*	2.59	20	75 - 125
Thallium	253	208	82.5		0.604	20	75 - 125
Vanadium	253	280	98.8		0.180	20	75 - 125
Zinc	253	263	89.5		1.06	20	75 - 125

* spiked too low

* Values outside of QC limits

Accredited Analytical Resources, LLC.

SERIAL DILUTION

EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1501974
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	138th Street, Bronx, NY; 10BR188
Matrix:	Solid	Laboratory ID:	S5K0506-SRD1
Sequence:	S5K0506	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Manganese	127	135	6.13		10.00
Antimony	ND	ND	N/A		10.00
Arsenic	11.5	11.7	2.22		10.00
Barium	46.1	ND	N/A		10.00
Beryllium	0.580	ND	N/A		10.00
Cadmium	0.676	ND	N/A		10.00
Calcium	6320	6690	5.70		10.00
Chromium	17.9	19.0	5.75		10.00
Cobalt	ND	ND	N/A		10.00
Aluminum	8020	8120	1.31		10.00
Magnesium	2680	2800	4.36		10.00
Nickel	6.41	ND	N/A		10.00
Potassium	1460	1460	0.554		10.00
Selenium	ND	ND	N/A		10.00
Silver	ND	ND	N/A		10.00
Sodium	220	ND	N/A		10.00
Thallium	ND	ND	N/A		10.00
Vanadium	30.6	32.0	4.45		10.00
Zinc	36.8	41.4	11.8	*	10.00
Copper	15.4	15.5	0.849		10.00

* Values outside of QC limits

Appendix C

Validator Qualifications

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1502015

2 Soil Samples

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1502015

The data associated with this Sample Delivery Group (SDG) 1502015, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. P Date: 10/24/16
Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx , NY
SAMPLING DATE:	November 04, 2015
SAMPLE TYPE:	2 soil samples
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1502015

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for two soil samples collected on November 4, 2015. These samples were analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1502015. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1502015, two samples were analyzed and results were reported for 380 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	Acetone Dichlorofluoromethane	J detects	ICV RPD > 20 %	Sample detects are estimated
All samples	Acetone Dichlorofluoromethane Methylene Chloride 1,2-Dibromo-3-chloropropane	UJ non-detects/J detects	CCV % D > 20 %	Samples are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	4-Chloroanailine 3-Nitroanailine	"UJ"	LCS < 70 % QC limit	All samples non-detect
All samples	2,4-Dinitrophenol	J detects	ICV > 40 %	All samples non-detect
All samples	2,4-Dinitrophenol	UJ non-detects/J detects	CCV > 40 %	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-6 Total Cyanide

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: E. 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1502015

Client Sample ID:	Lab Sample ID:
EP-13	1502015-01
EP-9b	1502015-02

This data has been reviewed and accepted by:

Daniel Miguel 12/28/2015
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 2 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: E. 138th Street, Bronx, NY; 10BR188) on 11/5/2015 4:25:00 PM.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5K0916-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5K1009 recovered outside control limits for multiple analytes. These analytes were within house limits; therefore, the data has been reporte.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria fro those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	E. 138TH Street, Bronx NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@bink.env

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1305 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502015
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-13	11/4/15/08:50	S		4	G	✓	✓	-01
EP-9b	11/4/15/13:15	S		4	G	✓	✓	-02

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC ~~E = ENCORE~~ PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send Invoice to Brinkerhoff; NYSDEC Category B data deliverable COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: J. Muñiz	Print Name:	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 11/05/15	Time: 11:40	Date Received: 11/5/15	Time: 1625

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-13
Lab Sample ID: 1502015-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 08:50	Prep Date:	11/09/15 18:31	Matrix:	Soil
Percent Solids:	20.60	Prep Method:	EPA 5035A	File ID:	A7130.D
Prep Batch:	B5K0916	Sequence:	S5K0908	Analyzed:	11/09/15 18:31
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	48.1	80.1	U
107-13-1	Acrylonitrile	ND	16.0	80.1	U
67-64-1	Acetone	71.9 J	8.01	16.0	
75-71-8	Dichlorodifluoromethane	ND UJ	8.01	16.0	U
74-87-3	Chloromethane	ND	8.01	16.0	U
75-01-4	Vinyl chloride	ND	8.01	16.0	U
74-83-9	Bromomethane	ND	8.01	16.0	U
75-00-3	Chloroethane	ND	8.01	16.0	U
75-69-4	Trichlorofluoromethane	ND	8.01	16.0	U
75-35-4	1,1-Dichloroethene	ND	8.01	16.0	U
75-15-0	Carbon disulfide	ND	8.01	16.0	U
75-09-2	Methylene Chloride	ND UJ	8.01	16.0	U
156-60-5	trans-1,2-Dichloroethene	ND	8.01	16.0	U
75-34-3	1,1-Dichloroethane	ND	8.01	16.0	U
108-05-4	Vinyl acetate	ND	8.01	16.0	U
590-20-7	2,2-Dichloropropane	ND	8.01	16.0	U
78-93-3	2-Butanone	ND	8.01	16.0	U
156-59-4	cis-1,2-Dichloroethene	ND	8.01	16.0	U
67-66-3	Chloroform	ND	8.01	16.0	U
74-97-5	Bromochloromethane	ND	8.01	16.0	U
71-55-6	1,1,1-Trichloroethane	ND	8.01	16.0	U
563-58-6	1,1-Dichloropropene	ND	8.01	16.0	U
56-23-5	Carbon Tetrachloride	ND	8.01	16.0	U
107-06-2	1,2-Dichloroethane	ND	8.01	16.0	U
71-43-2	Benzene	ND	8.01	16.0	U

MTP 10/24/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-13
Lab Sample ID: 1502015-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 08:50	Prep Date:	11/09/15 18:31	Matrix:	Soil
Percent Solids:	20.60	Prep Method:	EPA 5035A	File ID:	A7130.D
Prep Batch:	B5K0916	Sequence:	S5K0908	Analyzed:	11/09/15 18:31
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	8.01	16.0	U
78-87-5	1,2-Dichloropropane	ND	8.01	16.0	U
75-27-4	Bromodichloromethane	ND	8.01	16.0	U
74-95-3	Dibromomethane	ND	8.01	16.0	U
110-75-8	2-Chloroethyl vinyl ether	ND	8.01	16.0	U
10061-01-5	cis-1,3-Dichloropropene	ND	8.01	16.0	U
108-88-3	Toluene	ND	8.01	16.0	U
10061-02-6	trans-1,3-Dichloropropene	ND	8.01	16.0	U
79-00-5	1,1,2-Trichloroethane	ND	8.01	16.0	U
108-10-1	4-Methyl-2-pentanone	ND	8.01	16.0	U
106-93-4	1,2-Dibromoethane	ND	8.01	16.0	U
591-78-6	2-Hexanone	ND	8.01	16.0	U
142-28-9	1,3-Dichloropropane	ND	8.01	16.0	U
127-18-4	Tetrachloroethene	ND	8.01	16.0	U
124-48-1	Dibromochloromethane	ND	8.01	16.0	U
100-41-4	Ethylbenzene	ND	8.01	16.0	U
108-90-7	Chlorobenzene	ND	8.01	16.0	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	8.01	16.0	U
108-38-3/106-42	m,p-Xylenes	ND	16.0	32.0	U
95-47-6	o-Xylene	ND	16.0	32.0	U
100-42-5	Styrene	ND	8.01	32.0	U
75-25-2	Bromoform	ND	8.01	16.0	U
98-82-8	Isopropylbenzene	ND	8.01	16.0	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	8.01	16.0	U
96-18-4	1,2,3-Trichloropropane	ND	8.01	16.0	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-13
Lab Sample ID: 1502015-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 08:50	Prep Date:	11/09/15 18:31	Matrix:	Soil
Percent Solids:	20.60	Prep Method:	EPA 5035A	File ID:	A7130.D
Prep Batch:	B5K0916	Sequence:	S5K0908	Analyzed:	11/09/15 18:31
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	8.01	16.0	U
108-86-1	Bromobenzene	ND	8.01	16.0	U
108-67-8	1,3,5-Trimethylbenzene	ND	8.01	16.0	U
95-49-8	2-Chlorotoluene	ND	8.01	16.0	U
106-43-4	4-Chlorotoluene	ND	8.01	16.0	U
98-06-6	tert-Butylbenzene	ND	8.01	16.0	U
95-63-6	1,2,4-Trimethylbenzene	ND	8.01	16.0	U
135-98-8	sec-Butylbenzene	ND	8.01	16.0	U
99-87-6	p-Isopropyltoluene	ND	8.01	16.0	U
541-73-1	1,3-Dichlorobenzene	ND	8.01	16.0	U
106-46-7	1,4-Dichlorobenzene	ND	8.01	16.0	U
104-51-8	n-Butyl Benzene	ND	8.01	16.0	U
95-50-1	1,2-Dichlorobenzene	ND	8.01	16.0	U
96-12-8	1,2-Dibromo-3-chloropropane	ND UJ	8.01	16.0	U
120-82-1	1,2,4-Trichlorobenzene	ND	8.01	16.0	U
87-68-3	Hexachlorobutadiene	ND	8.01	16.0	U
87-61-6	1,2,3-Trichlorobenzene	ND	8.01	16.0	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	103%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	89%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MMP 10/24/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9b
Lab Sample ID: 1502015-02
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 13:15	Prep Date:	11/09/15 20:06	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 5035A	File ID:	A7133.D
Prep Batch:	B5K0916	Sequence:	S5K0908	Analyzed:	11/09/15 20:06
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	13.8	22.9	U
107-13-1	Acrylonitrile	ND	4.59	22.9	U
67-64-1	Acetone	ND UJ	2.29	4.59	U
75-71-8	Dichlorodifluoromethane	ND	2.29	4.59	U
74-87-3	Chloromethane	ND	2.29	4.59	U
75-01-4	Vinyl chloride	ND	2.29	4.59	U
74-83-9	Bromomethane	ND	2.29	4.59	U
75-00-3	Chloroethane	ND	2.29	4.59	U
75-69-4	Trichlorofluoromethane	ND	2.29	4.59	U
75-35-4	1,1-Dichloroethene	ND	2.29	4.59	U
75-15-0	Carbon disulfide	ND	2.29	4.59	U
75-09-2	Methylene Chloride	ND UJ	2.29	4.59	U
156-60-5	trans-1,2-Dichloroethene	ND	2.29	4.59	U
75-34-3	1,1-Dichloroethane	ND	2.29	4.59	U
108-05-4	Vinyl acetate	ND	2.29	4.59	U
590-20-7	2,2-Dichloropropane	ND	2.29	4.59	U
78-93-3	2-Butanone	ND	2.29	4.59	U
156-59-4	cis-1,2-Dichloroethene	ND	2.29	4.59	U
67-66-3	Chloroform	ND	2.29	4.59	U
74-97-5	Bromochloromethane	ND	2.29	4.59	U
71-55-6	1,1,1-Trichloroethane	ND	2.29	4.59	U
563-58-6	1,1-Dichloropropene	ND	2.29	4.59	U
56-23-5	Carbon Tetrachloride	ND	2.29	4.59	U
107-06-2	1,2-Dichloroethane	ND	2.29	4.59	U
71-43-2	Benzene	ND	2.29	4.59	U

 MKP 10/24/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9b
Lab Sample ID: 1502015-02
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 13:15	Prep Date:	11/09/15 20:06	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 5035A	File ID:	A7133.D
Prep Batch:	B5K0916	Sequence:	S5K0908	Analyzed:	11/09/15 20:06
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	2.29	4.59	U
78-87-5	1,2-Dichloropropane	ND	2.29	4.59	U
75-27-4	Bromodichloromethane	ND	2.29	4.59	U
74-95-3	Dibromomethane	ND	2.29	4.59	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.29	4.59	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.29	4.59	U
108-88-3	Toluene	ND	2.29	4.59	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.29	4.59	U
79-00-5	1,1,2-Trichloroethane	ND	2.29	4.59	U
108-10-1	4-Methyl-2-pentanone	ND	2.29	4.59	U
106-93-4	1,2-Dibromoethane	ND	2.29	4.59	U
591-78-6	2-Hexanone	ND	2.29	4.59	U
142-28-9	1,3-Dichloropropane	ND	2.29	4.59	U
127-18-4	Tetrachloroethene	ND	2.29	4.59	U
124-48-1	Dibromochloromethane	ND	2.29	4.59	U
100-41-4	Ethylbenzene	ND	2.29	4.59	U
108-90-7	Chlorobenzene	ND	2.29	4.59	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.29	4.59	U
108-38-3/106-42	m,p-Xylenes	ND	4.59	9.17	U
95-47-6	o-Xylene	ND	4.59	9.17	U
100-42-5	Styrene	ND	2.29	9.17	U
75-25-2	Bromoform	ND	2.29	4.59	U
98-82-8	Isopropylbenzene	2.59	2.29	4.59	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.29	4.59	U
96-18-4	1,2,3-Trichloropropane	ND	2.29	4.59	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9b
Lab Sample ID: 1502015-02
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 13:15	Prep Date:	11/09/15 20:06	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 5035A	File ID:	A7133.D
Prep Batch:	B5K0916	Sequence:	S5K0908	Analyzed:	11/09/15 20:06
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	4.54	2.29	4.59	J
108-86-1	Bromobenzene	ND	2.29	4.59	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.29	4.59	U
95-49-8	2-Chlorotoluene	ND	2.29	4.59	U
106-43-4	4-Chlorotoluene	ND	2.29	4.59	U
98-06-6	tert-Butylbenzene	ND	2.29	4.59	U
95-63-6	1,2,4-Trimethylbenzene	4.17	2.29	4.59	J
135-98-8	sec-Butylbenzene	ND	2.29	4.59	U
99-87-6	p-Isopropyltoluene	ND	2.29	4.59	U
541-73-1	1,3-Dichlorobenzene	ND	2.29	4.59	U
106-46-7	1,4-Dichlorobenzene	ND	2.29	4.59	U
104-51-8	n-Butyl Benzene	ND	2.29	4.59	U
95-50-1	1,2-Dichlorobenzene	ND	2.29	4.59	U
96-12-8	1,2-Dibromo-3-chloropropane	ND UJ	2.29	4.59	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.29	4.59	U
87-68-3	Hexachlorobutadiene	ND	2.29	4.59	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.29	4.59	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	107%	70-130
Toluene-d8	97%	70-130
Bromofluorobenzene	83%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

mrp 10/24/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-13
Lab Sample ID: 1502015-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 08:50	Prep Date:	11/10/15 11:59	Matrix:	Soil
Percent Solids:	20.60	Prep Method:	EPA 3550B GCMS	File ID:	F12203.D
Prep Batch:	B5K1009	Sequence:	S5K1113	Analyzed:	11/11/15 18:39
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	162	811	U
108-95-2	Phenol	ND	162	811	U
111-44-4	bis(2-chloroethyl)ether	ND	162	811	U
95-57-8	2-Chlorophenol	ND	162	811	U
541-73-1	1,3-Dichlorobenzene	ND	162	811	U
106-46-7	1,4-Dichlorobenzene	ND	162	811	U
100-51-6	Benzyl alcohol	ND	162	811	U
95-50-1	1,2-Dichlorobenzene	ND	162	811	U
95-48-7	2-Methylphenol	ND	162	811	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	162	811	U
106-44-5	3 & 4-Methylphenol	ND	162	811	U
621-64-7	N-Nitroso-di-n-propylamine	ND	162	811	U
67-72-1	Hexachloroethane	ND	162	811	U
98-95-3	Nitrobenzene	ND	162	811	U
78-59-1	Isophorone	ND	162	811	U
88-75-5	2-Nitrophenol	ND	162	811	U
105-67-9	2,4-Dimethylphenol	ND	162	811	U
65-85-0	Benzoic acid	ND	403	1620	U
111-91-1	bis(2-chloroethoxy)methane	ND	162	811	U
120-83-2	2,4-Dichlorophenol	ND	162	811	U
120-82-1	1,2,4-Trichlorobenzene	ND	162	811	U
91-20-3	Naphthalene	ND	162	811	U
106-47-8	4-Chloroaniline	ND UJ	162	811	U
87-68-3	Hexachlorobutadiene	ND	162	811	U
59-50-7	4-Chloro-3-methylphenol	ND	162	811	U

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-13
Lab Sample ID: 1502015-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 08:50	Prep Date:	11/10/15 11:59	Matrix:	Soil
Percent Solids:	20.60	Prep Method:	EPA 3550B GCMS	File ID:	F12203.D
Prep Batch:	B5K1009	Sequence:	S5K1113	Analyzed:	11/11/15 18:39
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	162	811	U
77-47-4	Hexachlorocyclopentadiene	ND	162	811	U
88-06-2	2,4,6-Trichlorophenol	ND	162	811	U
95-95-4	2,4,5-Trichlorophenol	ND	162	811	U
91-58-7	2-Chloronaphthalene	ND	162	811	U
88-74-4	2-Nitroaniline	ND	162	811	U
131-11-3	Dimethylphthalate	ND	162	811	U
208-96-8	Acenaphthylene	ND	162	811	U
99-09-2	3-Nitroaniline	ND UJ	162	811	U
83-32-9	Acenaphthene	163	162	811	J
51-28-5	2,4-Dinitrophenol	ND UJ	162	1620	U
100-02-7	4-Nitrophenol	ND	162	811	U
132-64-9	Dibenzofuran	ND	162	811	U
606-20-2	2,6-Dinitrotoluene	ND	162	811	U
121-14-2	2,4-Dinitrotoluene	ND	162	811	U
84-66-2	Diethyl phthalate	ND	162	811	U
7005-72-3	4-Chlorophenyl-phenylether	ND	162	811	U
86-73-7	Fluorene	ND	162	811	U
100-01-6	4-Nitroaniline	ND	162	811	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	162	811	U
86-30-6	N-Nitrosodiphenylamine	ND	162	811	U
101-55-3	4-Bromophenyl-phenylether	ND	162	811	U
118-74-1	Hexachlorobenzene	ND	162	811	U
87-86-5	Pentachlorophenol	ND	162	811	U
85-01-8	Phenanthrene	1240	162	811	

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-13
Lab Sample ID: 1502015-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 08:50	Prep Date:	11/10/15 11:59	Matrix:	Soil
Percent Solids:	20.60	Prep Method:	EPA 3550B GCMS	File ID:	F12203.D
Prep Batch:	B5K1009	Sequence:	S5K1113	Analyzed:	11/11/15 18:39
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	273	162	811	J
84-74-2	Di-n-butyl phthalate	ND	162	811	U
206-44-0	Fluoranthene	1120	162	811	
129-00-0	Pyrene	1540	162	811	
85-68-7	Butylbenzylphthalate	ND	162	811	U
91-94-1	3,3'-Dichlorobenzidine	ND	403	811	U
56-55-3	Benzo[a]anthracene	536	162	811	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	162	811	U
218-01-9	Chrysene	638	162	811	J
117-84-0	Di-n-octyl phthalate	ND	162	811	U
205-99-2	Benzo[b]fluoranthene	361	162	811	J
207-08-9	Benzo[k]fluoranthene	371	162	811	J
50-32-8	Benzo[a]pyrene	421	162	811	J
193-39-5	Indeno(1,2,3-cd)pyrene	243	162	811	J
53-70-3	Dibenzo(a,h)anthracene	ND	162	811	U
191-24-2	Benzo[ghi]perylene	272	162	811	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	81%	30-130
Phenol-d5	92%	30-130
Nitrobenzene-d5	86%	30-130
2-Fluorobiphenyl	87%	30-130
2,4,6-Tribromophenol	101%	30-130
Terphenyl-d14	124%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9b
Lab Sample ID: 1502015-02
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 13:15	Prep Date:	11/10/15 11:59	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 3550B GCMS	File ID:	F12204.D
Prep Batch:	B5K1009	Sequence:	S5K1113	Analyzed:	11/11/15 19:25
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	57.4	288	U
108-95-2	Phenol	ND	57.4	288	U
111-44-4	bis(2-chloroethyl)ether	ND	57.4	288	U
95-57-8	2-Chlorophenol	ND	57.4	288	U
541-73-1	1,3-Dichlorobenzene	ND	57.4	288	U
106-46-7	1,4-Dichlorobenzene	ND	57.4	288	U
100-51-6	Benzyl alcohol	ND	57.4	288	U
95-50-1	1,2-Dichlorobenzene	ND	57.4	288	U
95-48-7	2-Methylphenol	ND	57.4	288	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	57.4	288	U
106-44-5	3 & 4-Methylphenol	ND	57.4	288	U
621-64-7	N-Nitroso-di-n-propylamine	ND	57.4	288	U
67-72-1	Hexachloroethane	ND	57.4	288	U
98-95-3	Nitrobenzene	ND	57.4	288	U
78-59-1	Isophorone	ND	57.4	288	U
88-75-5	2-Nitrophenol	ND	57.4	288	U
105-67-9	2,4-Dimethylphenol	ND	57.4	288	U
65-85-0	Benzoic acid	ND	143	574	U
111-91-1	bis(2-chloroethoxy)methane	ND	57.4	288	U
120-83-2	2,4-Dichlorophenol	ND	57.4	288	U
120-82-1	1,2,4-Trichlorobenzene	ND	57.4	288	U
91-20-3	Naphthalene	70.7	57.4	288	J
106-47-8	4-Chloroaniline	ND UJ	57.4	288	U
87-68-3	Hexachlorobutadiene	ND	57.4	288	U
59-50-7	4-Chloro-3-methylphenol	ND	57.4	288	U

 MMP 10/24/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9b
Lab Sample ID: 1502015-02
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 13:15	Prep Date:	11/10/15 11:59	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 3550B GCMS	File ID:	F12204.D
Prep Batch:	B5K1009	Sequence:	S5K1113	Analyzed:	11/11/15 19:25
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	57.4	288	U
77-47-4	Hexachlorocyclopentadiene	ND	57.4	288	U
88-06-2	2,4,6-Trichlorophenol	ND	57.4	288	U
95-95-4	2,4,5-Trichlorophenol	ND	57.4	288	U
91-58-7	2-Chloronaphthalene	ND	57.4	288	U
88-74-4	2-Nitroaniline	ND	57.4	288	U
131-11-3	Dimethylphthalate	ND	57.4	288	U
208-96-8	Acenaphthylene	ND	57.4	288	U
99-09-2	3-Nitroaniline	ND UJ	57.4	288	U
83-32-9	Acenaphthene	107	57.4	288	J
51-28-5	2,4-Dinitrophenol	ND UJ	57.4	574	U
100-02-7	4-Nitrophenol	ND	57.4	288	U
132-64-9	Dibenzofuran	ND	57.4	288	U
606-20-2	2,6-Dinitrotoluene	ND	57.4	288	U
121-14-2	2,4-Dinitrotoluene	ND	57.4	288	U
84-66-2	Diethyl phthalate	ND	57.4	288	U
7005-72-3	4-Chlorophenyl-phenylether	ND	57.4	288	U
86-73-7	Fluorene	103	57.4	288	J
100-01-6	4-Nitroaniline	ND	57.4	288	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	57.4	288	U
86-30-6	N-Nitrosodiphenylamine	ND	57.4	288	U
101-55-3	4-Bromophenyl-phenylether	ND	57.4	288	U
118-74-1	Hexachlorobenzene	ND	57.4	288	U
87-86-5	Pentachlorophenol	ND	57.4	288	U
85-01-8	Phenanthrene	1240	57.4	288	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9b
Lab Sample ID: 1502015-02
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 13:15	Prep Date:	11/10/15 11:59	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 3550B GCMS	File ID:	F12204.D
Prep Batch:	B5K1009	Sequence:	S5K1113	Analyzed:	11/11/15 19:25
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	250	57.4	288	J
84-74-2	Di-n-butyl phthalate	ND	57.4	288	U
206-44-0	Fluoranthene	1020	57.4	288	
129-00-0	Pyrene	1440	57.4	288	
85-68-7	Butylbenzylphthalate	ND	57.4	288	U
91-94-1	3,3'-Dichlorobenzidine	ND	143	288	U
56-55-3	Benzo[a]anthracene	498	57.4	288	
117-81-7	bis(2-ethylhexyl)phthalate	ND	57.4	288	U
218-01-9	Chrysene	664	57.4	288	
117-84-0	Di-n-octyl phthalate	ND	57.4	288	U
205-99-2	Benzo[b]fluoranthene	342	57.4	288	
207-08-9	Benzo[k]fluoranthene	320	57.4	288	
50-32-8	Benzo[a]pyrene	393	57.4	288	
193-39-5	Indeno(1,2,3-cd)pyrene	209	57.4	288	J
53-70-3	Dibenzo(a,h)anthracene	97.7	57.4	288	J
191-24-2	Benzo[ghi]perylene	244	57.4	288	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	85%	30-130
Phenol-d5	94%	30-130
Nitrobenzene-d5	90%	30-130
2-Fluorobiphenyl	91%	30-130
2,4,6-Tribromophenol	99%	30-130
Terphenyl-d14	127%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-13
Lab Sample ID: 1502015-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 08:50	Prep Date:	11/10/15 05:32	Matrix:	Soil
Percent Solids:	20.60	Prep Method:	EPA 3550B	File ID:	A20470.D
Prep Batch:	B5K1001	Sequence:	S5K1204	Analyzed:	11/12/15 17:03
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	3.20	3.20	U
319-85-7	beta-BHC	ND	3.20	3.20	U
319-86-8	delta-BHC	ND	3.20	3.20	U
58-89-9	gamma-BHC [Lindane]	ND	3.20	3.20	U
76-44-8	Heptachlor	ND	3.20	3.20	U
309-00-2	Aldrin	ND	3.20	3.20	U
1024-57-3	Heptachlor Epoxide	ND	3.20	3.20	U
959-98-8	Endosulfan I	ND	3.20	3.20	U
60-57-1	Dieldrin	ND	6.46	6.46	U
72-55-9	4,4'-DDE	ND	6.46	6.46	U
72-20-8	Endrin	ND	6.46	6.46	U
33213-65-9	Endosulfan II	ND	6.46	6.46	U
72-54-8	4,4'-DDD	ND	6.46	6.46	U
1031-07-8	Endosulfan sulfate	ND	6.46	6.46	U
50-29-3	4,4'-DDT	ND	6.46	6.46	U
72-43-5	Methoxychlor	ND	32.3	32.3	U
53494-70-5	Endrin ketone	ND	6.46	6.46	U
7421-93-4	Endrin aldehyde	ND	6.46	6.46	U
5103-71-9	alpha-Chlordane	ND	3.20	3.20	U
5566-34-7	gamma-Chlordane	ND	3.20	3.20	U
8001-35-2	Toxaphene	ND	162	162	U
12674-11-2	Aroclor-1016	ND	80.6	162	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-13
Lab Sample ID: 1502015-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 08:50	Prep Date:	11/10/15 05:32	Matrix:	Soil
Percent Solids:	20.60	Prep Method:	EPA 3550B	File ID:	A20470.D
Prep Batch:	B5K1001	Sequence:	S5K1204	Analyzed:	11/12/15 17:03
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	80.6	162	U
11141-16-5	Aroclor-1232	ND	80.6	162	U
53469-21-9	Aroclor-1242	ND	80.6	162	U
12672-29-6	Aroclor-1248	ND	80.6	162	U
11097-69-1	Aroclor-1254	ND	80.6	162	U
11096-82-5	Aroclor-1260	ND	80.6	162	U
37324-23-5	Aroclor-1262	ND	80.6	162	U
11100-14-4	Aroclor-1268	ND	80.6	162	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	102%	30-150
Tetrachloro-m-xylene [2C]	85.8%	30-150
Decachlorobiphenyl	90.3%	30-150
Decachlorobiphenyl [2C]	83.5%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9b
Lab Sample ID: 1502015-02
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 13:15	Prep Date:	11/10/15 05:32	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 3550B	File ID:	A20471.D
Prep Batch:	B5K1001	Sequence:	S5K1204	Analyzed:	11/12/15 17:34
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	1.14	1.14	U
319-85-7	beta-BHC	ND	1.14	1.14	U
319-86-8	delta-BHC	ND	1.14	1.14	U
58-89-9	gamma-BHC [Lindane]	ND	1.14	1.14	U
76-44-8	Heptachlor	ND	1.14	1.14	U
309-00-2	Aldrin	ND	1.14	1.14	U
1024-57-3	Heptachlor Epoxide	ND	1.14	1.14	U
959-98-8	Endosulfan I	ND	1.14	1.14	U
60-57-1	Dieldrin	ND	2.29	2.29	U
72-55-9	4,4'-DDE	ND	2.29	2.29	U
72-20-8	Endrin	ND	2.29	2.29	U
33213-65-9	Endosulfan II	ND	2.29	2.29	U
72-54-8	4,4'-DDD	ND	2.29	2.29	U
1031-07-8	Endosulfan sulfate	ND	2.29	2.29	U
50-29-3	4,4'-DDT	ND	2.29	2.29	U
72-43-5	Methoxychlor	ND	11.5	11.5	U
53494-70-5	Endrin ketone	ND	2.29	2.29	U
7421-93-4	Endrin aldehyde	ND	2.29	2.29	U
5103-71-9	alpha-Chlordane	ND	1.14	1.14	U
5566-34-7	gamma-Chlordane	ND	1.14	1.14	U
8001-35-2	Toxaphene	ND	57.4	57.4	U
12674-11-2	Aroclor-1016	ND	28.6	57.4	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9b
Lab Sample ID: 1502015-02
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 13:15	Prep Date:	11/10/15 05:32	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 3550B	File ID:	A20471.D
Prep Batch:	B5K1001	Sequence:	S5K1204	Analyzed:	11/12/15 17:34
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	28.6	57.4	U
11141-16-5	Aroclor-1232	ND	28.6	57.4	U
53469-21-9	Aroclor-1242	ND	28.6	57.4	U
12672-29-6	Aroclor-1248	ND	28.6	57.4	U
11097-69-1	Aroclor-1254	ND	28.6	57.4	U
11096-82-5	Aroclor-1260	ND	28.6	57.4	U
37324-23-5	Aroclor-1262	ND	28.6	57.4	U
11100-14-4	Aroclor-1268	ND	28.6	57.4	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	99.5%	30-150
Tetrachloro-m-xylene [2C]	84.4%	30-150
Decachlorobiphenyl	90.2%	30-150
Decachlorobiphenyl [2C]	81.1%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-13
Lab Sample ID: 1502015-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 08:50	Matrix:	Soil
Percent Solids:	20.60	File ID:	110915D-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	3570	97.1	97.1	1		11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7439-97-6	Mercury	ND	0.364	0.364	1	U	11/09/15 07:46	EPA 7471A	11/09/15 15:32 PRT	EPA 7471
7440-36-0	Antimony	ND	19.4	19.4	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7440-38-2	Arsenic	ND	4.85	4.85	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7440-39-3	Barium	ND	97.1	97.1	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7440-41-7	Beryllium	ND	2.43	2.43	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7440-43-9	Cadmium	ND	2.43	2.43	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7440-70-2	Calcium	22800	121	121	1		11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7440-47-3	Chromium	ND	9.71	9.71	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7440-48-4	Cobalt	ND	24.3	24.3	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7440-50-8	Copper	27.3	14.6	14.6	1		11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7439-89-6	Iron	9180	121	121	1		11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7439-92-1	Lead	10.2	4.85	4.85	1		11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7439-95-4	Magnesium	10700	243	243	1		11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7439-96-5	Manganese	211	9.71	9.71	1		11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7440-02-0	Nickel	ND	19.4	19.4	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7440-09-7	Potassium	762	243	243	1		11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7782-49-2	Selenium	ND	19.4	19.4	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7440-22-4	Silver	ND	2.43	2.43	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7440-23-5	Sodium	3730	243	243	1		11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7440-28-0	Thallium	ND	7.28	14.6	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7440-62-2	Vanadium	ND	24.3	24.3	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010
7440-66-6	Zinc	166	29.1	29.1	1		11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9b
Lab Sample ID: 1502015-02
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 13:15	Matrix:	Soil
Percent Solids:	58.00	File ID:	110915D-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	9520	34.5	34.5	1		11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7439-97-6	Mercury	ND	0.129	0.129	1	U	11/09/15 07:46	EPA 7471A	11/09/15 15:34 PRT	EPA 7471
7440-36-0	Antimony	ND	6.90	6.90	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7440-38-2	Arsenic	2.41	1.72	1.72	1		11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7440-39-3	Barium	63.8	34.5	34.5	1		11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.862	0.862	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.862	0.862	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7440-70-2	Calcium	10200	43.1	43.1	1		11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7440-47-3	Chromium	16.6	3.45	3.45	1		11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7440-48-4	Cobalt	ND	8.62	8.62	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7440-50-8	Copper	23.2	5.17	5.17	1		11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7439-89-6	Iron	15400	43.1	43.1	1		11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7439-92-1	Lead	31.5	1.72	1.72	1		11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7439-95-4	Magnesium	7330	86.2	86.2	1		11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7439-96-5	Manganese	274	3.45	3.45	1		11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7440-02-0	Nickel	14.7	6.90	6.90	1		11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7440-09-7	Potassium	1490	86.2	86.2	1		11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7782-49-2	Selenium	ND	6.90	6.90	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7440-22-4	Silver	ND	0.862	0.862	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7440-23-5	Sodium	447	86.2	86.2	1		11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7440-28-0	Thallium	ND	2.59	5.17	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7440-62-2	Vanadium	25.3	8.62	8.62	1		11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010
7440-66-6	Zinc	62.4	10.3	10.3	1		11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-13
Lab Sample ID: 1502015-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 08:50	Matrix:	Soil
Percent Solids:	20.60	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Cyanide (total)	ND	4.85	4.85	1	U	11/10/15 10:00	EPA 9010C	11/11/15 16:14 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	20.6	0.100	0.100	1		11/09/15 12:00	Percent Solids	11/10/15 10:30 CLD	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9b
Lab Sample ID: 1502015-02
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 13:15	Matrix:	Soil
Percent Solids:	58.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Cyanide (total)	ND	1.72	1.72	1	U	11/10/15 10:00	EPA 9010C	11/11/15 16:14 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	58.0	0.100	0.100	1		11/09/15 12:00	Percent Solids	11/10/15 10:30 CLD	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0916	Prep Method:	EPA 5035A
Percent Solids:	72.30	Laboratory ID:	B5K0916-MS1
		Client Sample ID:	1501985-07

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Acrolein	346	ND	158	46		40 - 160
Acrylonitrile	346	ND	311	90		70 - 130
Acetone	69.2	ND	62.7	91		40 - 160
Dichlorodifluoromethane	69.2	ND	46.3	67		40 - 160
Chloromethane	69.2	ND	57.6	83		40 - 160
Vinyl chloride	69.2	ND	59.8	86		70 - 130
Bromomethane	69.2	ND	79.8	115		40 - 160
Chloroethane	69.2	ND	67.7	98		40 - 160
Trichlorofluoromethane	69.2	ND	60.2	87		40 - 160
Freon 113	69.2	ND	41.8	60	*	70 - 130
1,1-Dichloroethene	69.2	ND	53.9	78		70 - 130
Carbon disulfide	69.2	ND	42.7	62	*	70 - 130
Methyl Acetate	69.2	ND	77.2	112		70 - 130
Methylene Chloride	69.2	ND	44.9	65	*	70 - 130
trans-1,2-Dichloroethene	69.2	ND	48.9	71		70 - 130
1,1-Dichloroethane	69.2	ND	56.3	81		70 - 130
2,2-Dichloropropane	69.2	ND	55.4	80		70 - 130
2-Butanone	69.2	ND	50.6	73		40 - 160
cis-1,2-Dichloroethene	69.2	ND	55.3	80		70 - 130
Chloroform	69.2	ND	58.4	84		70 - 130
Bromochloromethane	69.2	ND	62.7	91		70 - 130
Cyclohexane	69.2	ND	44.6	65	*	70 - 130
1,1,1-Trichloroethane	69.2	ND	56.1	81		70 - 130
t-Butyl alcohol	692	ND	632	91		40 - 160
1,1-Dichloropropene	69.2	ND	55.1	80		70 - 130
Carbon Tetrachloride	69.2	ND	58.5	85		70 - 130
1,2-Dichloroethane	69.2	ND	62.6	90		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0916	Prep Method:	EPA 5035A
Percent Solids:	72.30	Laboratory ID:	B5K0916-MS1
		Client Sample ID:	1501985-07

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Benzene	69.2	ND	58.2	84		70 - 130
Trichloroethene	69.2	ND	80.1	116		70 - 130
Methylcyclohexane	69.2	ND	46.4	67	*	70 - 130
1,2-Dichloropropane	69.2	ND	64.4	93		70 - 130
Bromodichloromethane	69.2	ND	64.2	93		70 - 130
Dibromomethane	69.2	ND	65.4	95		70 - 130
2-Chloroethyl vinyl ether	69.2	ND	68.9	100		40 - 160
cis-1,3-Dichloropropene	69.2	ND	62.4	90		70 - 130
Toluene	69.2	ND	59.8	87		70 - 130
trans-1,3-Dichloropropene	69.2	ND	63.9	92		70 - 130
1,1,2-Trichloroethane	69.2	ND	68.7	99		70 - 130
4-Methyl-2-pentanone	69.2	ND	65.7	95		40 - 160
1,2-Dibromoethane	69.2	ND	66.9	97		70 - 130
2-Hexanone	69.2	ND	55.8	81		40 - 160
1,3-Dichloropropane	69.2	ND	65.4	95		70 - 130
Tetrachloroethene	69.2	ND	59.8	86		70 - 130
Dibromochloromethane	69.2	ND	68.0	98		70 - 130
Ethylbenzene	69.2	ND	62.5	90		70 - 130
Chlorobenzene	69.2	ND	63.7	92		70 - 130
1,1,1,2-Tetrachloroethane	69.2	ND	66.5	96		70 - 130
m,p-Xylenes	138	ND	121	87		70 - 130
o-Xylene	138	ND	125	90		70 - 130
Styrene	138	ND	130	94		70 - 130
Bromoform	69.2	ND	70.9	103		70 - 130
Isopropylbenzene	69.2	ND	61.7	89		70 - 130
1,1,2,2-Tetrachloroethane	69.2	ND	44.8	65	*	70 - 130
1,2,3-Trichloropropane	69.2	ND	74.1	107		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0916	Prep Method:	EPA 5035A
Percent Solids:	72.30	Laboratory ID:	B5K0916-MS1
		Client Sample ID:	1501985-07

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
n-Propyl Benzene	69.2	ND	60.5	88	70 - 130
Bromobenzene	69.2	ND	64.0	93	70 - 130
1,3,5-Trimethylbenzene	69.2	ND	62.2	90	70 - 130
2-Chlorotoluene	69.2	ND	62.6	90	70 - 130
4-Chlorotoluene	69.2	ND	62.4	90	70 - 130
tert-Butylbenzene	69.2	ND	63.5	92	70 - 130
1,2,4-Trimethylbenzene	69.2	ND	61.1	88	70 - 130
sec-Butylbenzene	69.2	ND	60.3	87	70 - 130
p-Isopropyltoluene	69.2	ND	61.4	89	70 - 130
1,3-Dichlorobenzene	69.2	ND	64.9	94	70 - 130
1,4-Dichlorobenzene	69.2	ND	67.3	97	70 - 130
n-Butyl Benzene	69.2	ND	57.1	83	70 - 130
1,2-Dichlorobenzene	69.2	ND	66.7	96	70 - 130
1,2-Dibromo-3-chloropropane	69.2	ND	68.4	99	40 - 160
1,2,4-Trichlorobenzene	69.2	ND	59.4	86	70 - 130
Hexachlorobutadiene	69.2	ND	49.9	72	70 - 130
Naphthalene	69.2	ND	67.6	98	40 - 160
1,2,3-Trichlorobenzene	69.2	ND	60.6	88	70 - 130
Methyl tert-Butyl Ether	138	ND	125	91	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0916	Prep Method:	EPA 5035A
Percent Solids:	72.30	Laboratory ID:	B5K0916-MSD1
		Client Sample ID:	1501985-07

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Acrolein	346	131	38 *	19	30	40 - 160
Acrylonitrile	346	309	89	0.6	30	70 - 130
Acetone	69.2	65.9	95	5	30	40 - 160
Dichlorodifluoromethane	69.2	46.5	67	0.4	30	40 - 160
Chloromethane	69.2	57.0	82	1	30	40 - 160
Vinyl chloride	69.2	61.4	89	3	30	70 - 130
Bromomethane	69.2	78.4	113	2	30	40 - 160
Chloroethane	69.2	67.2	97	0.8	30	40 - 160
Trichlorofluoromethane	69.2	61.5	89	2	30	40 - 160
Freon 113	69.2	43.9	63 *	5	30	70 - 130
1,1-Dichloroethene	69.2	56.6	82	5	30	70 - 130
Carbon disulfide	69.2	45.2	65 *	6	30	70 - 130
Methyl Acetate	69.2	66.5	96	15	30	70 - 130
Methylene Chloride	69.2	51.8	75	14	30	70 - 130
trans-1,2-Dichloroethene	69.2	53.7	78	9	30	70 - 130
1,1-Dichloroethane	69.2	60.3	87	7	30	70 - 130
2,2-Dichloropropane	69.2	61.3	89	10	30	70 - 130
2-Butanone	69.2	55.2	80	9	30	40 - 160
cis-1,2-Dichloroethene	69.2	57.8	84	4	30	70 - 130
Chloroform	69.2	63.1	91	8	30	70 - 130
Bromochloromethane	69.2	70.2	102	11	30	70 - 130
Cyclohexane	69.2	46.3	67 *	4	30	70 - 130
1,1,1-Trichloroethane	69.2	60.6	88	8	30	70 - 130
t-Butyl alcohol	692	721	104	13	30	40 - 160
1,1-Dichloropropene	69.2	53.8	78	2	30	70 - 130
Carbon Tetrachloride	69.2	57.5	83	2	30	70 - 130
1,2-Dichloroethane	69.2	63.8	92	2	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0916	Prep Method:	EPA 5035A
Percent Solids:	72.30	Laboratory ID:	B5K0916-MSD1
		Client Sample ID:	1501985-07

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	69.2	58.7	85	0.8	30	70 - 130
Trichloroethene	69.2	91.8	133 *	14	30	70 - 130
Methylcyclohexane	69.2	43.3	63 *	7	30	70 - 130
1,2-Dichloropropane	69.2	61.9	90	4	30	70 - 130
Bromodichloromethane	69.2	64.9	94	1	30	70 - 130
Dibromomethane	69.2	67.3	97	3	30	70 - 130
2-Chloroethyl vinyl ether	69.2	66.8	97	3	30	40 - 160
cis-1,3-Dichloropropene	69.2	61.9	89	0.9	30	70 - 130
Toluene	69.2	58.9	85	2	30	70 - 130
trans-1,3-Dichloropropene	69.2	62.6	91	2	30	70 - 130
1,1,2-Trichloroethane	69.2	69.6	101	1	30	70 - 130
4-Methyl-2-pentanone	69.2	65.8	95	0.02	30	40 - 160
1,2-Dibromoethane	69.2	70.1	101	5	30	70 - 130
2-Hexanone	69.2	55.6	80	0.3	30	40 - 160
1,3-Dichloropropane	69.2	67.3	97	3	30	70 - 130
Tetrachloroethene	69.2	58.6	85	2	30	70 - 130
Dibromochloromethane	69.2	65.5	95	4	30	70 - 130
Ethylbenzene	69.2	60.9	88	2	30	70 - 130
Chlorobenzene	69.2	62.5	90	2	30	70 - 130
1,1,1,2-Tetrachloroethane	69.2	66.8	97	0.4	30	70 - 130
m,p-Xylenes	138	121	88	0.2	30	70 - 130
o-Xylene	138	124	89	0.9	30	70 - 130
Styrene	138	131	95	0.8	30	70 - 130
Bromoform	69.2	67.8	98	4	30	70 - 130
Isopropylbenzene	69.2	63.6	92	3	30	70 - 130
1,1,2,2-Tetrachloroethane	69.2	29.7	43 *	41 *	30	70 - 130
1,2,3-Trichloropropane	69.2	78.9	114	6	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K0916	Prep Method:	EPA 5035A
Percent Solids:	72.30	Laboratory ID:	B5K0916-MSD1
		Client Sample ID:	1501985-07

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
n-Propyl Benzene	69.2	60.6	88	0.07	30	70 - 130
Bromobenzene	69.2	67.1	97	5	30	70 - 130
1,3,5-Trimethylbenzene	69.2	61.3	89	2	30	70 - 130
2-Chlorotoluene	69.2	64.4	93	3	30	70 - 130
4-Chlorotoluene	69.2	62.7	91	0.5	30	70 - 130
tert-Butylbenzene	69.2	63.3	92	0.2	30	70 - 130
1,2,4-Trimethylbenzene	69.2	61.5	89	0.7	30	70 - 130
sec-Butylbenzene	69.2	59.7	86	1	30	70 - 130
p-Isopropyltoluene	69.2	59.7	86	3	30	70 - 130
1,3-Dichlorobenzene	69.2	65.1	94	0.2	30	70 - 130
1,4-Dichlorobenzene	69.2	67.2	97	0.2	30	70 - 130
n-Butyl Benzene	69.2	54.8	79	4	30	70 - 130
1,2-Dichlorobenzene	69.2	67.1	97	0.7	30	70 - 130
1,2-Dibromo-3-chloropropane	69.2	74.6	108	9	30	40 - 160
1,2,4-Trichlorobenzene	69.2	55.1	80	7	30	70 - 130
Hexachlorobutadiene	69.2	46.2	67 *	8	30	70 - 130
Naphthalene	69.2	67.2	97	0.7	30	40 - 160
1,2,3-Trichlorobenzene	69.2	55.4	80	9	30	70 - 130
Methyl tert-Butyl Ether	138	135	98	7	30	70 - 130

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INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502015
Project: E. 138th Street, Bronx, NY; 10BR188

Calibration:	15L0101	Instrument:	GC/MS A
		Calibration Date:	11/6/2015 4:17:36PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	2.137027E-02	10.17816		
Acrylonitrile	0.1235944	12.43066		
Acetone	0.3496282	68.75781		
Dichlorodifluoromethane	0.4261929	20.67822		
Chloromethane	1.022318	9.523927	SPCC (0.1)	
Vinyl chloride	1.103206	7.305518	CCC (20)	
Bromomethane	0.5713808	6.029279		
Chloroethane	0.8560252	6.551064		
Trichlorofluoromethane	1.034544	3.969049		
Freon 113	0.7822028	6.25262		
1,1-Dichloroethene	1.184625	5.710345	CCC (20)	
Carbon disulfide	2.03671	9.887925		
Methyl Acetate	0.4467055	7.729437		
Methylene Chloride	3.208522	102.164		
trans-1,2-Dichloroethene	1.26861	4.983835		
1,1-Dichloroethane	1.088464	7.263493	SPCC (0.1)	
Vinyl acetate	1.02151	6.612017		
2,2-Dichloropropane	0.7740019	6.311858		
2-Butanone	0.2320511	14.04553		
cis-1,2-Dichloroethene	0.8463032	5.197746		
Chloroform	0.9607204	5.625595	CCC (20)	
Bromochloromethane	0.2935599	11.03466		
Cyclohexane	1.271303	5.153821		
1,1,1-Trichloroethane	0.7180916	4.304741		
t-Butyl alcohol	4.114758E-02	2.684409		

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CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1502015		
Project:	E. 138th Street, Bronx, NY; 10BR188		
Instrument ID:	GC/MS A	Calibration:	15L0101
Lab File ID:	A7114.D	Calibration Date:	11/06/15 16:17
Sequence:	S5K0908	Injection Date:	11/09/15
Lab Sample ID:	S5K0908-CCV1	Injection Time:	10:04

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	254	2.137027E-02	2.170896E-02		1.6	
Acrylonitrile	A	250	273	0.1235944	0.1349117		9.2	
Acetone	L	50.0	59.7	0.3496282	0.248444		-28.9	
Dichlorodifluoromethane	Q	50.0	40.6	0.4261929	0.3239271		-24.0	
Chloromethane	A	50.0	43.9	1.022318	0.8974052	0.1	-12.2	
Vinyl chloride	A	50.0	48.5	1.103206	1.070738		-2.9	20
Bromomethane	A	50.0	59.0	0.5713808	0.6739824		18.0	
Chloroethane	A	50.0	44.1	0.8560252	0.755778		-11.7	
Trichlorofluoromethane	A	50.0	52.2	1.034544	1.079731		4.4	
Freon 113	A	50.0	41.6	0.7822028	0.6499729		-16.9	
1,1-Dichloroethene	A	50.0	54.2	1.184625	1.28401		8.4	20
Carbon disulfide	A	50.0	44.2	2.03671	1.798531		-11.7	
Methyl Acetate	A	50.0	52.0	0.4467055	0.4650438		4.1	
Methylene Chloride	L	50.0	57.3	3.208522	1.73436		-45.9	
trans-1,2-Dichloroethene	A	50.0	49.1	1.26861	1.244788		-1.9	
1,1-Dichloroethane	A	50.0	48.1	1.088464	1.046785	0.1	-3.8	
Vinyl acetate	A	50.0	46.0	1.02151	0.9394408		-8.0	
2,2-Dichloropropane	A	50.0	49.1	0.7740019	0.7602418		-1.8	
2-Butanone	A	50.0	43.2	0.2320511	0.2003248		-13.7	
cis-1,2-Dichloroethene	A	50.0	48.4	0.8463032	0.8198985		-3.1	
Chloroform	A	50.0	49.6	0.9607204	0.952341		-0.9	20
Bromochloromethane	A	50.0	54.1	0.2935599	0.3173973		8.1	
Cyclohexane	A	50.0	45.6	1.271303	1.159419		-8.8	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1502015		
Project:	E. 138th Street, Bronx, NY; 10BR188		
Instrument ID:	GC/MS A	Calibration:	15L0101
Lab File ID:	A7114.D	Calibration Date:	11/06/15 16:17
Sequence:	S5K0908	Injection Date:	11/09/15
Lab Sample ID:	S5K0908-CCV1	Injection Time:	10:04

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Chlorobenzene	A	50.0	53.5	0.999786	1.069607	0.3	7.0	
1,1,1,2-Tetrachloroethane	A	50.0	54.9	0.3371069	0.3703986		9.9	
m,p-Xylenes	A	100	109	1.356287	1.482005		9.3	
o-Xylene	A	100	112	1.322761	1.478113		11.7	
Styrene	A	100	112	1.070162	1.202321		12.3	
Bromoform	A	50.0	57.0	0.1809944	0.2064516	0.1	14.1	
Isopropylbenzene	A	50.0	51.5	3.80109	3.916535		3.0	
1,1,2,2-Tetrachloroethane	A	50.0	52.0	0.655339	0.6820082	0.3	4.1	
1,2,3-Trichloropropane	A	50.0	54.1	0.4471043	0.4841318		8.3	
n-Propyl Benzene	A	50.0	51.8	4.842469	5.019468		3.7	
Bromobenzene	A	50.0	50.3	1.311501	1.320205		0.7	
1,3,5-Trimethylbenzene	A	50.0	51.9	2.824222	2.931425		3.8	
2-Chlorotoluene	A	50.0	52.1	2.518745	2.624534		4.2	
4-Chlorotoluene	A	50.0	51.2	2.914546	2.983314		2.4	
tert-Butylbenzene	A	50.0	54.2	2.448908	2.656831		8.5	
1,2,4-Trimethylbenzene	A	50.0	53.0	2.855662	3.02551		5.9	
sec-Butylbenzene	A	50.0	53.6	4.07553	4.36574		7.1	
p-Isopropyltoluene	A	50.0	54.6	3.166173	3.457557		9.2	
1,3-Dichlorobenzene	A	50.0	54.7	1.618647	1.770579		9.4	
1,4-Dichlorobenzene	A	50.0	54.3	1.582691	1.717553		8.5	
n-Butyl Benzene	A	50.0	54.5	3.446652	3.759301		9.1	
1,2-Dichlorobenzene	A	50.0	54.1	1.402481	1.517718		8.2	
1,2-Dibromo-3-chloropropane	L	50.0	57.0	9.085148E-02	0.1098535		20.9	

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5K1009	Lab Sample ID:	B5K1009-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1350	81	20 - 160
N-Nitrosodimethylamine	1670	1410	85	20 - 160
Aniline	1670	1360	82	20 - 160
Phenol	1670	1630	98	20 - 160
bis(2-chloroethyl)ether	1670	1660	100	70 - 130
2-Chlorophenol	1670	1690	102	70 - 130
1,3-Dichlorobenzene	1670	1580	95	70 - 130
1,4-Dichlorobenzene	1670	1610	97	70 - 130
Benzyl alcohol	1670	1650	99	20 - 160
1,2-Dichlorobenzene	1670	1780	107	70 - 130
2-Methylphenol	1670	1670	100	20 - 160
bis(2-chloroisopropyl)ether	1670	1920	115	70 - 130
3 & 4-Methylphenol	1670	1760	105	20 - 160
N-Nitroso-di-n-propylamine	1670	1590	95	70 - 130
Hexachloroethane	1670	1540	92	20 - 160
Nitrobenzene	1670	1580	95	70 - 130
Isophorone	1670	1570	94	70 - 130
2-Nitrophenol	1670	1590	95	70 - 130
2,4-Dimethylphenol	1670	1650	99	70 - 130
bis(2-chloroethoxy)methane	1670	1620	97	70 - 130
2,4-Dichlorophenol	1670	1640	98	70 - 130
1,2,4-Trichlorobenzene	1670	1580	95	70 - 130
Naphthalene	1670	1590	95	70 - 130
4-Chloroaniline	1670	440	26 *	70 - 130
Hexachlorobutadiene	1670	1570	94	70 - 130
4-Chloro-3-methylphenol	1670	1770	106	70 - 130
2-Methylnaphthylene	1670	1580	95	70 - 130
Hexachlorocyclopentadiene	1670	1710	103	20 - 160

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5K1009	Lab Sample ID:	B5K1009-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2,4,6-Trichlorophenol	1670	1660	100	70 - 130
2,4,5-Trichlorophenol	1670	1710	103	70 - 130
2-Chloronaphthalene	1670	1670	100	70 - 130
2-Nitroaniline	1670	1720	103	70 - 130
Dimethylphthalate	1670	1780	107	70 - 130
Acenaphthylene	1670	1760	106	70 - 130
3-Nitroaniline	1670	1150	69 *	70 - 130
Acenaphthene	1670	1650	99	70 - 130
2,4-Dinitrophenol	1670	1650	99	20 - 160
4-Nitrophenol	1670	1890	113	20 - 160
Dibenzofuran	1670	1640	98	70 - 130
2,6-Dinitrotoluene	1670	1700	102	70 - 130
2,4-Dinitrotoluene	1670	1780	107	70 - 130
2,3,4,6-Tetrachlorophenol	1670	1730	104	70 - 130
Diethyl phthalate	1670	1740	104	70 - 130
4-Chlorophenyl-phenylether	1670	1590	95	70 - 130
Fluorene	1670	1650	99	70 - 130
4-Nitroaniline	1670	1700	102	70 - 130
4,6-Dinitro-2-methylphenol	1670	1780	107	70 - 130
Carbazole	1670	1680	101	70 - 130
N-Nitrosodiphenylamine	1670	1670	100	20 - 160
Azobenzene	1670	1670	100	70 - 130
4-Bromophenyl-phenylether	1670	1660	100	70 - 130
Hexachlorobenzene	1670	1590	95	70 - 130
Pentachlorophenol	1670	1740	104	20 - 160
Phenanthrene	1670	1620	97	70 - 130
Anthracene	1670	1630	98	70 - 130
Di-n-butyl phthalate	1670	1680	101	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5K1009	Lab Sample ID:	B5K1009-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Fluoranthene	1670	1720	103	70 - 130
Pyrene	1670	1510	91	70 - 130
Butylbenzylphthalate	1670	1610	96	70 - 130
Benzo[a]anthracene	1670	1600	96	70 - 130
bis(2-ethylhexyl)phthalate	1670	1580	95	70 - 130
Chrysene	1670	1610	97	70 - 130
Di-n-octyl phthalate	1670	1760	106	70 - 130
Benzo[b]fluoranthene	1670	1720	103	70 - 130
Benzo[k]fluoranthene	1670	1590	95	70 - 130
Benzo[a]pyrene	1670	1730	104	70 - 130
Indeno(1,2,3-cd)pyrene	1670	1660	100	70 - 130
Dibenzo(a,h)anthracene	1670	1670	100	70 - 130
Benzo[ghi]perylene	1670	1570	94	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502015
Project: E. 138th Street, Bronx, NY; 10BR188

Calibration:	15J2801	Instrument:	GC/MS F
		Calibration Date:	10/14/2015 11:58:45AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	1.046911	9.03924		
4-Chloroaniline	0.4698055	3.957397		
Hexachlorobutadiene	0.1760276	3.718634	CCC (20)	
Caprolactam	0.1626493	9.438644		
4-Chloro-3-methylphenol	0.3365877	3.635553	CCC (20)	
2-Methylnaphthylene	0.697018	10.32335		
1,2,4,5-Tetrachlorobenzene	0.7846604	3.175806		
Hexachlorocyclopentadiene	0.2698404	26.71039	SPCC (0.05)	
2,4,6-Trichlorophenol	0.4396401	4.809339	CCC (20)	
2,4,5-Trichlorophenol	0.4343777	8.465463		
2-Chloronaphthalene	1.273224	9.135137		
1,1-Biphenyl	1.901611	12.61078		
2-Nitroaniline	0.4465861	3.27539		
Dimethylphthalate	1.571915	10.43119		
Acenaphthylene	2.112104	11.76371		
3-Nitroaniline	0.4648623	4.743253		
Acenaphthene	1.258578	11.18945	CCC (20)	
2,4-Dinitrophenol	0.1670239	68.69134	SPCC (0.05)	
4-Nitrophenol	0.1289473	34.71536	SPCC (0.05)	
Dibenzofuran	1.850723	7.017351		
2,6-Dinitrotoluene	0.4220418	4.567939		
2,4-Dinitrotoluene	0.5799641	3.417658		
2,3,4,6-Tetrachlorophenol	0.3782584	6.204434		
Diethyl phthalate	1.650577	14.88571		
4-Chlorophenyl-phenylether	0.6605373	9.298071		

No Data affected

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1502015		
Project:	E. 138th Street, Bronx, NY; 10BR188		
Instrument ID:	GC/MS F	Calibration:	15J2801
Lab File ID:	F12196.D	Calibration Date:	10/14/15 11:58
Sequence:	S5K1113	Injection Date:	11/11/15
Lab Sample ID:	S5K1113-CCV1	Injection Time:	13:13

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.0	50.0	0.3034206	0.3035297		0.04	20
1,2,4-Trichlorobenzene	A	50.0	46.9	0.3152609	0.2955911		-6.2	
Naphthalene	A	50.0	47.6	1.046911	0.9970625		-4.8	
4-Chloroaniline	A	50.0	52.2	0.4698055	0.4909634		4.5	
Hexachlorobutadiene	A	50.0	44.8	0.1760276	0.157766		-10.4	20
Caprolactam	A	50.0	49.3	0.1626493	0.1603497		-1.4	
4-Chloro-3-methylphenol	A	50.0	49.7	0.3365877	0.3347938		-0.5	20
2-Methylnaphthylene	A	50.0	47.7	0.697018	0.6649687		-4.6	
1,2,4,5-Tetrachlorobenzene	A	50.0	36.6	0.7846604	0.5737482		-26.9	
Hexachlorocyclopentadiene	L	50.0	40.8	0.2698404	0.2695785	0.05	-0.1	
2,4,6-Trichlorophenol	A	50.0	49.7	0.4396401	0.4372889		-0.5	20
2,4,5-Trichlorophenol	A	50.0	51.7	0.4343777	0.4493434		3.4	
2-Chloronaphthalene	A	50.0	46.8	1.273224	1.19174		-6.4	
1,1-Biphenyl	A	50.0	36.9	1.901611	1.404857		-26.1	
2-Nitroaniline	A	50.0	50.8	0.4465861	0.4535024		1.5	
Dimethylphthalate	A	50.0	48.6	1.571915	1.526513		-2.9	
Acenaphthylene	A	50.0	46.3	2.112104	1.956919		-7.3	
3-Nitroaniline	A	50.0	55.7	0.4648623	0.5177831		11.4	
Acenaphthene	A	50.0	47.0	1.258578	1.182309		-6.1	20
2,4-Dinitrophenol	L	50.0	47.3	0.1670239	0.2555371	0.05	53.0	
4-Nitrophenol	L	50.0	42.5	0.1289473	0.1396565	0.05	8.3	
Dibenzofuran	A	50.0	49.5	1.850723	1.831241		-1.1	
2,6-Dinitrotoluene	A	50.0	52.8	0.4220418	0.4455305		5.6	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1502015		
Project:	E. 138th Street, Bronx, NY; 10BR188		
Instrument ID:	GC/MS B	Calibration:	15K1803
Lab File ID:	B2914.D	Calibration Date:	11/04/15 12:55
Sequence:	S5K1308	Injection Date:	11/13/15
Lab Sample ID:	S5K1308-CCV1	Injection Time:	15:53

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	44.7	1.056793	0.9451992		-10.6	
N-Nitrosodimethylamine	A	50.0	50.2	0.7282379	0.7307677		0.3	
Benzaldehyde	A	50.0	76.6	0.1774644	0.271828		53.2	
Aniline	A	50.0	52.9	2.31087	2.444618		5.8	
Phenol	A	50.0	53.4	1.808229	1.929612		6.7	20
bis(2-chloroethyl)ether	A	50.0	52.9	1.498395	1.585362		5.8	
2-Chlorophenol	A	50.0	53.5	1.411147	1.511048		7.1	
1,3-Dichlorobenzene	A	50.0	50.9	1.467782	1.493562		1.8	
1,4-Dichlorobenzene	A	50.0	50.6	1.457777	1.474256		1.1	20
Benzyl alcohol	A	50.0	53.7	1.212499	1.301969		7.4	
1,2-Dichlorobenzene	L	50.0	56.1	1.373826	1.335875		-2.8	
2-Methylphenol	A	50.0	52.8	1.32626	1.399361		5.5	
bis(2-chloroisopropyl)ether	L	50.0	62.1	2.275345	2.260341		-0.7	
Acetophenone	A	50.0	55.8	0.1488566	0.1661781		11.6	
3 & 4-Methylphenol	A	50.0	53.7	1.349722	1.450048		7.4	
N-Nitroso-di-n-propylamine	A	50.0	51.2	1.124053	1.15123	0.05	2.4	
Hexachloroethane	A	50.0	49.5	0.6217874	0.6153677		-1.0	
Nitrobenzene	A	50.0	50.3	0.3795886	0.3818312		0.6	
Isophorone	A	50.0	53.8	0.7990202	0.8599843		7.6	
2-Nitrophenol	A	50.0	53.9	0.2024556	0.2183402		7.8	20
2,4-Dimethylphenol	A	50.0	52.1	0.3470885	0.3617817		4.2	
Benzoic acid	L	50.0	55.0	0.1643965	0.2065196		25.6	
bis(2-chloroethoxy)methane	A	50.0	50.4	0.4724972	0.476418		0.8	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1502015		
Project:	E. 138th Street, Bronx, NY; 10BR188		
Instrument ID:	GC/MS B	Calibration:	15K1803
Lab File ID:	B2914.D	Calibration Date:	11/04/15 12:55
Sequence:	S5K1308	Injection Date:	11/13/15
Lab Sample ID:	S5K1308-CCV1	Injection Time:	15:53

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.0	52.3	0.2881979	0.3016677		4.7	20
1,2,4-Trichlorobenzene	A	50.0	49.5	0.3062515	0.3030788		-1.0	
Naphthalene	A	50.0	48.9	0.9573403	0.9363064		-2.2	
4-Chloroaniline	A	50.0	52.5	0.4667377	0.4897972		4.9	
Hexachlorobutadiene	A	50.0	49.0	0.1489691	0.1459725		-2.0	20
Caprolactam	A	50.0	55.2	0.13773	0.1520677		10.4	
4-Chloro-3-methylphenol	A	50.0	56.1	0.3071054	0.3446343		12.2	20
2-Methylnaphthylene	A	50.0	51.6	0.6627595	0.6844782		3.3	
1,2,4,5-Tetrachlorobenzene	A	50.0	48.0	0.550364	0.5282506		-4.0	
Hexachlorocyclopentadiene	A	50.0	51.3	0.3131763	0.3211768	0.05	2.6	
2,4,6-Trichlorophenol	A	50.0	52.1	0.3956274	0.412085		4.2	20
2,4,5-Trichlorophenol	A	50.0	53.0	0.4086487	0.4335576		6.1	
2-Chloronaphthalene	A	50.0	46.5	1.114826	1.037736		-6.9	
1,1-Biphenyl	Q	50.0	45.7	1.31873	1.210643		-8.2	
2-Nitroaniline	A	50.0	53.7	0.437682	0.4698577		7.4	
Dimethylphthalate	A	50.0	52.3	1.303818	1.362841		4.5	
Acenaphthylene	A	50.0	51.3	1.849918	1.898894		2.6	
3-Nitroaniline	A	50.0	54.1	0.4385077	0.4748148		8.3	
Acenaphthene	A	50.0	50.8	1.216976	1.235445		1.5	20
2,4-Dinitrophenol	L	50.0	54.0	0.1730911	0.2456968	0.05	41.9	
4-Nitrophenol	A	50.0	61.0	0.1785295	0.2178661	0.05	22.0	
Dibenzofuran	A	50.0	51.4	1.68123	1.728354		2.8	
2,6-Dinitrotoluene	A	50.0	54.3	0.3569674	0.3879101		8.7	

Appendix C

Validator Qualifications

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1502031

3 Soil Samples

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1502031

The data associated with this Sample Delivery Group (SDG) 1502031, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 10/25/16

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx , NY
SAMPLING DATE:	November 09, 2015
SAMPLE TYPE:	3 soil samples
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1502031

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for three soil samples collected on November 9, 2015. These samples were analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1502031. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1502031, three samples were analyzed and results were reported for 570 analytes. Even though some results were flagged with a "J", all results (100 %) are considered usable. See the summary table for the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-15 EP-15RE	All Analytes	UJ non-detects J detects	BFB < 70 % QC limit	Sample data is estimated
EP-15	Isopropylbenzene 1,12,2-Tetrachlorobenzene 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene 2-Chlorotoluene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butybenzene p-Isopropyltoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene DBCP 1,2,4-Trichlorobenzene Hexachlorobutadiene 1,2,3-Trichlorbenzene	R non-detects J detects	IS#4 area < 25 % QC limit	Non-detects are unusable, detects may be biased low
EP-15RE	All Analytes	UJ non-detects J detects	All IS areas < 50 % QC limit	Sample data is estimated

EP-15 EP-16	Acetone	J all data 10X MB value	Detected in the method blank	No data affected
EP-14 EP-15 RE	Acetone Methylene Chloride	J all data 10X MB value	Detected in the method blank	MECL2 changed to CRQL U in sample EP-14
All samples	Acetone Mehylene Chloride DBCP	J detects	ICV RPD > 20 %	Sample detects are estimated
All samples	Acetone Dichlorofluoromethane	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	4-Chloroanailine	"UJ"	LCS < 70 % QC limit	All samples non-detect
EP-16	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene	UJ non-detect J detects	IS #6 area < 50 % QC limit	Sample data is estimated
All samples	2,4-Dinitrophenol	J detects	ICV > 40 %	All samples non-detect
All samples	2,4-Dinitrophenol	UJ non-detects J detects	CCV > 40 %	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-6 Total Cyanide

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1502031

Client Sample ID:	Lab Sample ID:
EP-14	1502031-01
EP-15	1502031-02
EP-15	1502031-02RE1
EP-16	1502031-03

This data has been reviewed and accepted by:

Daniel Miguel 12/30/2015
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 3 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 11/10/2015 2:15:00 PM.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5K1614-MS1/MSD1 and B5K1710-MS1/MSD1 had compounds recovered outside acceptance limits due to matrix interference, the LCS was recovered within acceptance limts for all compounds; therefore, no further action required.

In the Volatile Organic analyses, one surrogate (Bromofluorobenzene) for AAR Sample #1502031-02 was out of criteria. The sample was reanalyzed and the surrogate was again recovered out of the required criteria. The methylene chloride result reported for AAR Sample #1502031-01 is due to matrix interference.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5K1301 recovered outside control limits for certain analytes. These analytes were within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5K1301 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Ham, Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Ham and Sharrison@brink.env
EMAIL FOR INVOICE:	dham@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502031
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-14	11/9/15/10:40	S		4	G	✓	✓	-01
EP-15	11/9/15/10:50	S		4	G	✓	✓	-02
EP-16	11/9/15/11:10	S		4	G	✓	✓	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 1 week
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable
COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES, EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: John Jensen	Print Name: John Jensen	Print Name: K. Muniz
Signature: Monica Norton	Signature: [signature]	Signature: [signature]	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 11/10/15	Time: 10:15	Date Received: 11/10/15	Time: 4:50

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-14
Lab Sample ID: 1502031-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:40	Prep Date:	11/17/15 14:17	Matrix:	Soil
Percent Solids:	63.00	Prep Method:	EPA 5035A	File ID:	D13078.D
Prep Batch:	B5K1710	Sequence:	S5K1708	Analyzed:	11/17/15 14:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	13.6	22.7	U
107-13-1	Acrylonitrile	ND	4.54	22.7	U
67-64-1	Acetone	13.4 J	2.27	4.54	B
75-71-8	Dichlorodifluoromethane	ND	2.27	4.54	U
74-87-3	Chloromethane	ND	2.27	4.54	U
75-01-4	Vinyl chloride	ND	2.27	4.54	U
74-83-9	Bromomethane	ND	2.27	4.54	U
75-00-3	Chloroethane	ND	2.27	4.54	U
75-69-4	Trichlorofluoromethane	ND	2.27	4.54	U
75-35-4	1,1-Dichloroethene	ND	2.27	4.54	U
75-15-0	Carbon disulfide	ND	2.27	4.54	U
75-09-2	Methylene Chloride	~~3.22~~ 4.54 U	2.27	4.54	B, J
156-60-5	trans-1,2-Dichloroethene	ND	2.27	4.54	U
75-34-3	1,1-Dichloroethane	ND	2.27	4.54	U
108-05-4	Vinyl acetate	ND	2.27	4.54	U
590-20-7	2,2-Dichloropropane	ND	2.27	4.54	U
78-93-3	2-Butanone	ND	2.27	4.54	U
156-59-4	cis-1,2-Dichloroethene	ND	2.27	4.54	U
67-66-3	Chloroform	ND	2.27	4.54	U
74-97-5	Bromochloromethane	ND	2.27	4.54	U
71-55-6	1,1,1-Trichloroethane	ND	2.27	4.54	U
563-58-6	1,1-Dichloropropene	ND	2.27	4.54	U
56-23-5	Carbon Tetrachloride	ND	2.27	4.54	U
107-06-2	1,2-Dichloroethane	ND	2.27	4.54	U
71-43-2	Benzene	ND	2.27	4.54	U

MKP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-14
Lab Sample ID: 1502031-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:40	Prep Date:	11/17/15 14:17	Matrix:	Soil
Percent Solids:	63.00	Prep Method:	EPA 5035A	File ID:	D13078.D
Prep Batch:	B5K1710	Sequence:	S5K1708	Analyzed:	11/17/15 14:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	2.27	4.54	U
78-87-5	1,2-Dichloropropane	ND	2.27	4.54	U
75-27-4	Bromodichloromethane	ND	2.27	4.54	U
74-95-3	Dibromomethane	ND	2.27	4.54	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.27	4.54	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.27	4.54	U
108-88-3	Toluene	ND	2.27	4.54	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.27	4.54	U
79-00-5	1,1,2-Trichloroethane	ND	2.27	4.54	U
108-10-1	4-Methyl-2-pentanone	ND	2.27	4.54	U
106-93-4	1,2-Dibromoethane	ND	2.27	4.54	U
591-78-6	2-Hexanone	ND	2.27	4.54	U
142-28-9	1,3-Dichloropropane	ND	2.27	4.54	U
127-18-4	Tetrachloroethene	ND	2.27	4.54	U
124-48-1	Dibromochloromethane	ND	2.27	4.54	U
100-41-4	Ethylbenzene	ND	2.27	4.54	U
108-90-7	Chlorobenzene	ND	2.27	4.54	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.27	4.54	U
108-38-3/106-42	m,p-Xylenes	ND	4.54	9.07	U
95-47-6	o-Xylene	ND	4.54	9.07	U
100-42-5	Styrene	ND	2.27	9.07	U
75-25-2	Bromoform	ND	2.27	4.54	U
98-82-8	Isopropylbenzene	ND	2.27	4.54	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.27	4.54	U
96-18-4	1,2,3-Trichloropropane	ND	2.27	4.54	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-14
Lab Sample ID: 1502031-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:40	Prep Date:	11/17/15 14:17	Matrix:	Soil
Percent Solids:	63.00	Prep Method:	EPA 5035A	File ID:	D13078.D
Prep Batch:	B5K1710	Sequence:	S5K1708	Analyzed:	11/17/15 14:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	2.27	4.54	U
108-86-1	Bromobenzene	ND	2.27	4.54	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.27	4.54	U
95-49-8	2-Chlorotoluene	ND	2.27	4.54	U
106-43-4	4-Chlorotoluene	ND	2.27	4.54	U
98-06-6	tert-Butylbenzene	ND	2.27	4.54	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.27	4.54	U
135-98-8	sec-Butylbenzene	ND	2.27	4.54	U
99-87-6	p-Isopropyltoluene	ND	2.27	4.54	U
541-73-1	1,3-Dichlorobenzene	ND	2.27	4.54	U
106-46-7	1,4-Dichlorobenzene	ND	2.27	4.54	U
104-51-8	n-Butyl Benzene	ND	2.27	4.54	U
95-50-1	1,2-Dichlorobenzene	ND	2.27	4.54	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.27	4.54	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.27	4.54	U
87-68-3	Hexachlorobutadiene	ND	2.27	4.54	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.27	4.54	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	107%	70-130
Toluene-d8	105%	70-130
Bromofluorobenzene	92%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-15
Lab Sample ID: 1502031-02
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:50	Prep Date:	11/16/15 17:23	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 5035A	File ID:	D13059.D
Prep Batch:	B5K1614	Sequence:	S5K1604	Analyzed:	11/16/15 17:23
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND UJ	19.7	32.9	U
107-13-1	Acrylonitrile	ND	6.58	32.9	U
67-64-1	Acetone	656 J	3.29	6.58	B
75-71-8	Dichlorodifluoromethane	ND UJ	3.29	6.58	U
74-87-3	Chloromethane	ND	3.29	6.58	U
75-01-4	Vinyl chloride	ND	3.29	6.58	U
74-83-9	Bromomethane	ND	3.29	6.58	U
75-00-3	Chloroethane	ND	3.29	6.58	U
75-69-4	Trichlorofluoromethane	ND	3.29	6.58	U
75-35-4	1,1-Dichloroethene	ND	3.29	6.58	U
75-15-0	Carbon disulfide	4.94 J	3.29	6.58	J
75-09-2	Methylene Chloride	ND UJ	3.29	6.58	U
156-60-5	trans-1,2-Dichloroethene	ND	3.29	6.58	U
75-34-3	1,1-Dichloroethane	ND	3.29	6.58	U
108-05-4	Vinyl acetate	ND	3.29	6.58	U
590-20-7	2,2-Dichloropropane	ND	3.29	6.58	U
78-93-3	2-Butanone	162 J	3.29	6.58	
156-59-4	cis-1,2-Dichloroethene	ND UJ	3.29	6.58	U
67-66-3	Chloroform	ND	3.29	6.58	U
74-97-5	Bromochloromethane	ND	3.29	6.58	U
71-55-6	1,1,1-Trichloroethane	ND	3.29	6.58	U
563-58-6	1,1-Dichloropropene	ND	3.29	6.58	U
56-23-5	Carbon Tetrachloride	ND	3.29	6.58	U
107-06-2	1,2-Dichloroethane	ND	3.29	6.58	U
71-43-2	Benzene	ND	3.29	6.58	U

 MKP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-15
Lab Sample ID: 1502031-02
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:50	Prep Date:	11/16/15 17:23	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 5035A	File ID:	D13059.D
Prep Batch:	B5K1614	Sequence:	S5K1604	Analyzed:	11/16/15 17:23
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND UJ	3.29	6.58	U
78-87-5	1,2-Dichloropropane	ND	3.29	6.58	U
75-27-4	Bromodichloromethane	ND	3.29	6.58	U
74-95-3	Dibromomethane	ND	3.29	6.58	U
110-75-8	2-Chloroethyl vinyl ether	ND	3.29	6.58	U
10061-01-5	cis-1,3-Dichloropropene	ND	3.29	6.58	U
108-88-3	Toluene	ND	3.29	6.58	U
10061-02-6	trans-1,3-Dichloropropene	ND	3.29	6.58	U
79-00-5	1,1,2-Trichloroethane	ND	3.29	6.58	U
108-10-1	4-Methyl-2-pentanone	ND	3.29	6.58	U
106-93-4	1,2-Dibromoethane	ND	3.29	6.58	U
591-78-6	2-Hexanone	ND	3.29	6.58	U
142-28-9	1,3-Dichloropropane	ND	3.29	6.58	U
127-18-4	Tetrachloroethene	ND	3.29	6.58	U
124-48-1	Dibromochloromethane	ND	3.29	6.58	U
100-41-4	Ethylbenzene	ND	3.29	6.58	U
108-90-7	Chlorobenzene	ND	3.29	6.58	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.29	6.58	U
108-38-3/106-42	m,p-Xylenes	ND	6.58	13.2	U
95-47-6	o-Xylene	ND	6.58	13.2	U
100-42-5	Styrene	ND	3.29	13.2	U
75-25-2	Bromoform	ND	3.29	6.58	U
98-82-8	Isopropylbenzene	~~ND~~ R	3.29	6.58	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.29	6.58	U
96-18-4	1,2,3-Trichloropropane	ND	3.29	6.58	U

MMP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-15
Lab Sample ID: 1502031-02
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:50	Prep Date:	11/16/15 17:23	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 5035A	File ID:	D13059.D
Prep Batch:	B5K1614	Sequence:	S5K1604	Analyzed:	11/16/15 17:23
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	~~ND~~ R	3.29	6.58	U
108-86-1	Bromobenzene	~~ND~~	3.29	6.58	U
108-67-8	1,3,5-Trimethylbenzene	~~ND~~	3.29	6.58	U
95-49-8	2-Chlorotoluene	~~ND~~	3.29	6.58	U
106-43-4	4-Chlorotoluene	~~ND~~	3.29	6.58	U
98-06-6	tert-Butylbenzene	~~ND~~	3.29	6.58	U
95-63-6	1,2,4-Trimethylbenzene	~~ND~~	3.29	6.58	U
135-98-8	sec-Butylbenzene	~~ND~~	3.29	6.58	U
99-87-6	p-Isopropyltoluene	~~ND~~	3.29	6.58	U
541-73-1	1,3-Dichlorobenzene	~~ND~~	3.29	6.58	U
106-46-7	1,4-Dichlorobenzene	~~ND~~	3.29	6.58	U
104-51-8	n-Butyl Benzene	~~ND~~	3.29	6.58	U
95-50-1	1,2-Dichlorobenzene	~~ND~~	3.29	6.58	U
96-12-8	1,2-Dibromo-3-chloropropane	~~ND~~	3.29	6.58	U
120-82-1	1,2,4-Trichlorobenzene	~~ND~~	3.29	6.58	U
87-68-3	Hexachlorobutadiene	~~ND~~	3.29	6.58	U
87-61-6	1,2,3-Trichlorobenzene	~~ND~~	3.29	6.58	U

Surrogate	% Recovery		Recovery Limits
1,2-Dichloroethane-d4	110%		70-130
Toluene-d8	99%		70-130
Bromofluorobenzene	50%	*	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-15
Lab Sample ID: 1502031-02RE1
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:50	Prep Date:	11/17/15 14:46	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 5035A	File ID:	D13079.D
Prep Batch:	B5K1710	Sequence:	S5K1708	Analyzed:	11/17/15 14:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND UJ	17.4	29.0	U
107-13-1	Acrylonitrile	ND	5.81	29.0	U
67-64-1	Acetone	36.0 J	2.90	5.81	B
75-71-8	Dichlorodifluoromethane	ND UJ	2.90	5.81	U
74-87-3	Chloromethane	ND	2.90	5.81	U
75-01-4	Vinyl chloride	ND	2.90	5.81	U
74-83-9	Bromomethane	ND	2.90	5.81	U
75-00-3	Chloroethane	ND	2.90	5.81	U
75-69-4	Trichlorofluoromethane	ND	2.90	5.81	U
75-35-4	1,1-Dichloroethene	ND	2.90	5.81	U
75-15-0	Carbon disulfide	9.14 J	2.90	5.81	
75-09-2	Methylene Chloride	ND UJ	2.90	5.81	U
156-60-5	trans-1,2-Dichloroethene	ND	2.90	5.81	U
75-34-3	1,1-Dichloroethane	ND	2.90	5.81	U
108-05-4	Vinyl acetate	ND	2.90	5.81	U
590-20-7	2,2-Dichloropropane	ND	2.90	5.81	U
78-93-3	2-Butanone	ND	2.90	5.81	U
156-59-4	cis-1,2-Dichloroethene	ND	2.90	5.81	U
67-66-3	Chloroform	ND	2.90	5.81	U
74-97-5	Bromochloromethane	ND	2.90	5.81	U
71-55-6	1,1,1-Trichloroethane	ND	2.90	5.81	U
563-58-6	1,1-Dichloropropene	ND	2.90	5.81	U
56-23-5	Carbon Tetrachloride	ND	2.90	5.81	U
107-06-2	1,2-Dichloroethane	ND	2.90	5.81	U
71-43-2	Benzene	ND	2.90	5.81	U

 MKP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-15
Lab Sample ID: 1502031-02RE1
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:50	Prep Date:	11/17/15 14:46	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 5035A	File ID:	D13079.D
Prep Batch:	B5K1710	Sequence:	S5K1708	Analyzed:	11/17/15 14:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)		MDL	RL	Q
79-01-6	Trichloroethene	ND	UJ	2.90	5.81	U
78-87-5	1,2-Dichloropropane	ND		2.90	5.81	U
75-27-4	Bromodichloromethane	ND		2.90	5.81	U
74-95-3	Dibromomethane	ND		2.90	5.81	U
110-75-8	2-Chloroethyl vinyl ether	ND		2.90	5.81	U
10061-01-5	cis-1,3-Dichloropropene	ND		2.90	5.81	U
108-88-3	Toluene	ND		2.90	5.81	U
10061-02-6	trans-1,3-Dichloropropene	ND		2.90	5.81	U
79-00-5	1,1,2-Trichloroethane	ND		2.90	5.81	U
108-10-1	4-Methyl-2-pentanone	ND		2.90	5.81	U
106-93-4	1,2-Dibromoethane	ND		2.90	5.81	U
591-78-6	2-Hexanone	ND		2.90	5.81	U
142-28-9	1,3-Dichloropropane	ND		2.90	5.81	U
127-18-4	Tetrachloroethene	ND		2.90	5.81	U
124-48-1	Dibromochloromethane	ND		2.90	5.81	U
100-41-4	Ethylbenzene	ND		2.90	5.81	U
108-90-7	Chlorobenzene	ND		2.90	5.81	U
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.90	5.81	U
108-38-3/106-42	m,p-Xylenes	ND		5.81	11.6	U
95-47-6	o-Xylene	ND		5.81	11.6	U
100-42-5	Styrene	ND		2.90	11.6	U
75-25-2	Bromoform	ND		2.90	5.81	U
98-82-8	Isopropylbenzene	ND		2.90	5.81	U
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.90	5.81	U
96-18-4	1,2,3-Trichloropropane	ND		2.90	5.81	U

 MKP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-15
Lab Sample ID: 1502031-02RE1
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:50	Prep Date:	11/17/15 14:46	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 5035A	File ID:	D13079.D
Prep Batch:	B5K1710	Sequence:	S5K1708	Analyzed:	11/17/15 14:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND UJ	2.90	5.81	U
108-86-1	Bromobenzene	ND	2.90	5.81	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.90	5.81	U
95-49-8	2-Chlorotoluene	ND	2.90	5.81	U
106-43-4	4-Chlorotoluene	ND	2.90	5.81	U
98-06-6	tert-Butylbenzene	ND	2.90	5.81	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.90	5.81	U
135-98-8	sec-Butylbenzene	ND	2.90	5.81	U
99-87-6	p-Isopropyltoluene	ND	2.90	5.81	U
541-73-1	1,3-Dichlorobenzene	ND	2.90	5.81	U
106-46-7	1,4-Dichlorobenzene	ND	2.90	5.81	U
104-51-8	n-Butyl Benzene	ND	2.90	5.81	U
95-50-1	1,2-Dichlorobenzene	ND	2.90	5.81	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.90	5.81	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.90	5.81	U
87-68-3	Hexachlorobutadiene	ND	2.90	5.81	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.90	5.81	U

Surrogate	% Recovery		Recovery Limits
1,2-Dichloroethane-d4	116%		70-130
Toluene-d8	102%		70-130
Bromofluorobenzene	68%	*	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MKP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-16
Lab Sample ID: 1502031-03
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 11:10	Prep Date:	11/16/15 17:52	Matrix:	Soil
Percent Solids:	84.20	Prep Method:	EPA 5035A	File ID:	D13060.D
Prep Batch:	B5K1614	Sequence:	S5K1604	Analyzed:	11/16/15 17:52
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	9.00	15.0	U
107-13-1	Acrylonitrile	ND	3.00	15.0	U
67-64-1	Acetone	63.4 J	1.50	3.00	B
75-71-8	Dichlorodifluoromethane	ND UJ	1.50	3.00	U
74-87-3	Chloromethane	ND	1.50	3.00	U
75-01-4	Vinyl chloride	ND	1.50	3.00	U
74-83-9	Bromomethane	ND	1.50	3.00	U
75-00-3	Chloroethane	ND	1.50	3.00	U
75-69-4	Trichlorofluoromethane	ND	1.50	3.00	U
75-35-4	1,1-Dichloroethene	ND	1.50	3.00	U
75-15-0	Carbon disulfide	ND	1.50	3.00	U
75-09-2	Methylene Chloride	ND	1.50	3.00	U
156-60-5	trans-1,2-Dichloroethene	ND	1.50	3.00	U
75-34-3	1,1-Dichloroethane	ND	1.50	3.00	U
108-05-4	Vinyl acetate	ND	1.50	3.00	U
590-20-7	2,2-Dichloropropane	ND	1.50	3.00	U
78-93-3	2-Butanone	ND	1.50	3.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.50	3.00	U
67-66-3	Chloroform	ND	1.50	3.00	U
74-97-5	Bromochloromethane	ND	1.50	3.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.50	3.00	U
563-58-6	1,1-Dichloropropene	ND	1.50	3.00	U
56-23-5	Carbon Tetrachloride	ND	1.50	3.00	U
107-06-2	1,2-Dichloroethane	ND	1.50	3.00	U
71-43-2	Benzene	ND	1.50	3.00	U

 MKP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-16
Lab Sample ID: 1502031-03
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 11:10	Prep Date:	11/16/15 17:52	Matrix:	Soil
Percent Solids:	84.20	Prep Method:	EPA 5035A	File ID:	D13060.D
Prep Batch:	B5K1614	Sequence:	S5K1604	Analyzed:	11/16/15 17:52
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.50	3.00	U
78-87-5	1,2-Dichloropropane	ND	1.50	3.00	U
75-27-4	Bromodichloromethane	ND	1.50	3.00	U
74-95-3	Dibromomethane	ND	1.50	3.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.50	3.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.50	3.00	U
108-88-3	Toluene	ND	1.50	3.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.50	3.00	U
79-00-5	1,1,2-Trichloroethane	ND	1.50	3.00	U
108-10-1	4-Methyl-2-pentanone	ND	1.50	3.00	U
106-93-4	1,2-Dibromoethane	ND	1.50	3.00	U
591-78-6	2-Hexanone	ND	1.50	3.00	U
142-28-9	1,3-Dichloropropane	ND	1.50	3.00	U
127-18-4	Tetrachloroethene	ND	1.50	3.00	U
124-48-1	Dibromochloromethane	ND	1.50	3.00	U
100-41-4	Ethylbenzene	4.66	1.50	3.00	
108-90-7	Chlorobenzene	ND	1.50	3.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.50	3.00	U
108-38-3/106-42	m,p-Xylenes	8.71	3.00	6.00	
95-47-6	o-Xylene	16.5	3.00	6.00	
100-42-5	Styrene	ND	1.50	6.00	U
75-25-2	Bromoform	ND	1.50	3.00	U
98-82-8	Isopropylbenzene	11.9	1.50	3.00	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.50	3.00	U
96-18-4	1,2,3-Trichloropropane	ND	1.50	3.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-16
Lab Sample ID: 1502031-03
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 11:10	Prep Date:	11/16/15 17:52	Matrix:	Soil
Percent Solids:	84.20	Prep Method:	EPA 5035A	File ID:	D13060.D
Prep Batch:	B5K1614	Sequence:	S5K1604	Analyzed:	11/16/15 17:52
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	23.2	1.50	3.00	
108-86-1	Bromobenzene	ND	1.50	3.00	U
108-67-8	1,3,5-Trimethylbenzene	37.4	1.50	3.00	
95-49-8	2-Chlorotoluene	ND	1.50	3.00	U
106-43-4	4-Chlorotoluene	ND	1.50	3.00	U
98-06-6	tert-Butylbenzene	1.71	1.50	3.00	J
95-63-6	1,2,4-Trimethylbenzene	24.0	1.50	3.00	
135-98-8	sec-Butylbenzene	7.36	1.50	3.00	
99-87-6	p-Isopropyltoluene	8.68	1.50	3.00	
541-73-1	1,3-Dichlorobenzene	ND	1.50	3.00	U
106-46-7	1,4-Dichlorobenzene	ND	1.50	3.00	U
104-51-8	n-Butyl Benzene	15.9	1.50	3.00	
95-50-1	1,2-Dichlorobenzene	ND	1.50	3.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.50	3.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.50	3.00	U
87-68-3	Hexachlorobutadiene	ND	1.50	3.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.50	3.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	116%	70-130
Toluene-d8	98%	70-130
Bromofluorobenzene	106%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-14
Lab Sample ID: 1502031-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:40	Prep Date:	11/13/15 05:53	Matrix:	Soil
Percent Solids:	63.00	Prep Method:	EPA 3550B GCMS	File ID:	B2927.D
Prep Batch:	B5K1301	Sequence:	S5K1308	Analyzed:	11/14/15 01:44
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	52.9	265	U
108-95-2	Phenol	ND	52.9	265	U
111-44-4	bis(2-chloroethyl)ether	ND	52.9	265	U
95-57-8	2-Chlorophenol	ND	52.9	265	U
541-73-1	1,3-Dichlorobenzene	ND	52.9	265	U
106-46-7	1,4-Dichlorobenzene	ND	52.9	265	U
100-51-6	Benzyl alcohol	ND	52.9	265	U
95-50-1	1,2-Dichlorobenzene	ND	52.9	265	U
95-48-7	2-Methylphenol	ND	52.9	265	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	52.9	265	U
106-44-5	3 & 4-Methylphenol	ND	52.9	265	U
621-64-7	N-Nitroso-di-n-propylamine	ND	52.9	265	U
67-72-1	Hexachloroethane	ND	52.9	265	U
98-95-3	Nitrobenzene	ND	52.9	265	U
78-59-1	Isophorone	ND	52.9	265	U
88-75-5	2-Nitrophenol	ND	52.9	265	U
105-67-9	2,4-Dimethylphenol	ND	52.9	265	U
65-85-0	Benzoic acid	ND	132	529	U
111-91-1	bis(2-chloroethoxy)methane	ND	52.9	265	U
120-83-2	2,4-Dichlorophenol	ND	52.9	265	U
120-82-1	1,2,4-Trichlorobenzene	ND	52.9	265	U
91-20-3	Naphthalene	252	52.9	265	J
106-47-8	4-Chloroaniline	ND UJ	52.9	265	U
87-68-3	Hexachlorobutadiene	ND	52.9	265	U
59-50-7	4-Chloro-3-methylphenol	ND	52.9	265	U

 MMS 11/25/15

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-14
Lab Sample ID: 1502031-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:40	Prep Date:	11/13/15 05:53	Matrix:	Soil
Percent Solids:	63.00	Prep Method:	EPA 3550B GCMS	File ID:	B2927.D
Prep Batch:	B5K1301	Sequence:	S5K1308	Analyzed:	11/14/15 01:44
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	87.4	52.9	265	J
77-47-4	Hexachlorocyclopentadiene	ND	52.9	265	U
88-06-2	2,4,6-Trichlorophenol	ND	52.9	265	U
95-95-4	2,4,5-Trichlorophenol	ND	52.9	265	U
91-58-7	2-Chloronaphthalene	ND	52.9	265	U
88-74-4	2-Nitroaniline	ND	52.9	265	U
131-11-3	Dimethylphthalate	ND	52.9	265	U
208-96-8	Acenaphthylene	ND	52.9	265	U
99-09-2	3-Nitroaniline	ND	52.9	265	U
83-32-9	Acenaphthene	139	52.9	265	J
51-28-5	2,4-Dinitrophenol	ND uJ	52.9	529	U
100-02-7	4-Nitrophenol	ND	52.9	265	U
132-64-9	Dibenzofuran	130	52.9	265	J
606-20-2	2,6-Dinitrotoluene	ND	52.9	265	U
121-14-2	2,4-Dinitrotoluene	ND	52.9	265	U
84-66-2	Diethyl phthalate	ND	52.9	265	U
7005-72-3	4-Chlorophenyl-phenylether	ND	52.9	265	U
86-73-7	Fluorene	204	52.9	265	J
100-01-6	4-Nitroaniline	ND	52.9	265	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	52.9	265	U
86-30-6	N-Nitrosodiphenylamine	ND	52.9	265	U
101-55-3	4-Bromophenyl-phenylether	ND	52.9	265	U
118-74-1	Hexachlorobenzene	ND	52.9	265	U
87-86-5	Pentachlorophenol	ND	52.9	265	U
85-01-8	Phenanthrene	1370	52.9	265	

mxp 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-14
Lab Sample ID: 1502031-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:40	Prep Date:	11/13/15 05:53	Matrix:	Soil
Percent Solids:	63.00	Prep Method:	EPA 3550B GCMS	File ID:	B2927.D
Prep Batch:	B5K1301	Sequence:	S5K1308	Analyzed:	11/14/15 01:44
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	335	52.9	265	
84-74-2	Di-n-butyl phthalate	ND	52.9	265	U
206-44-0	Fluoranthene	1440	52.9	265	
129-00-0	Pyrene	1100	52.9	265	
85-68-7	Butylbenzylphthalate	ND	52.9	265	U
91-94-1	3,3'-Dichlorobenzidine	ND	132	265	U
56-55-3	Benzo[a]anthracene	539	52.9	265	
117-81-7	bis(2-ethylhexyl)phthalate	193	52.9	265	J
218-01-9	Chrysene	526	52.9	265	
117-84-0	Di-n-octyl phthalate	ND	52.9	265	U
205-99-2	Benzo[b]fluoranthene	492	52.9	265	
207-08-9	Benzo[k]fluoranthene	399	52.9	265	
50-32-8	Benzo[a]pyrene	504	52.9	265	
193-39-5	Indeno(1,2,3-cd)pyrene	202	52.9	265	J
53-70-3	Dibenzo(a,h)anthracene	111	52.9	265	J
191-24-2	Benzo[ghi]perylene	201	52.9	265	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	68%	30-130
Phenol-d5	87%	30-130
Nitrobenzene-d5	66%	30-130
2-Fluorobiphenyl	63%	30-130
2,4,6-Tribromophenol	95%	30-130
Terphenyl-d14	67%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-15
Lab Sample ID: 1502031-02
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:50	Prep Date:	11/13/15 05:53	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 3550B GCMS	File ID:	B2928.D
Prep Batch:	B5K1301	Sequence:	S5K1308	Analyzed:	11/14/15 02:29
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	57.4	288	U
108-95-2	Phenol	ND	57.4	288	U
111-44-4	bis(2-chloroethyl)ether	ND	57.4	288	U
95-57-8	2-Chlorophenol	ND	57.4	288	U
541-73-1	1,3-Dichlorobenzene	ND	57.4	288	U
106-46-7	1,4-Dichlorobenzene	ND	57.4	288	U
100-51-6	Benzyl alcohol	ND	57.4	288	U
95-50-1	1,2-Dichlorobenzene	ND	57.4	288	U
95-48-7	2-Methylphenol	ND	57.4	288	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	57.4	288	U
106-44-5	3 & 4-Methylphenol	ND	57.4	288	U
621-64-7	N-Nitroso-di-n-propylamine	ND	57.4	288	U
67-72-1	Hexachloroethane	ND	57.4	288	U
98-95-3	Nitrobenzene	ND	57.4	288	U
78-59-1	Isophorone	ND	57.4	288	U
88-75-5	2-Nitrophenol	ND	57.4	288	U
105-67-9	2,4-Dimethylphenol	ND	57.4	288	U
65-85-0	Benzoic acid	ND	143	574	U
111-91-1	bis(2-chloroethoxy)methane	ND	57.4	288	U
120-83-2	2,4-Dichlorophenol	ND	57.4	288	U
120-82-1	1,2,4-Trichlorobenzene	ND	57.4	288	U
91-20-3	Naphthalene	ND	57.4	288	U
106-47-8	4-Chloroaniline	ND UJ	57.4	288	U
87-68-3	Hexachlorobutadiene	ND	57.4	288	U
59-50-7	4-Chloro-3-methylphenol	ND	57.4	288	U

 MXP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-15
Lab Sample ID: 1502031-02
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:50	Prep Date:	11/13/15 05:53	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 3550B GCMS	File ID:	B2928.D
Prep Batch:	B5K1301	Sequence:	S5K1308	Analyzed:	11/14/15 02:29
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	57.4	288	U
77-47-4	Hexachlorocyclopentadiene	ND	57.4	288	U
88-06-2	2,4,6-Trichlorophenol	ND	57.4	288	U
95-95-4	2,4,5-Trichlorophenol	ND	57.4	288	U
91-58-7	2-Chloronaphthalene	ND	57.4	288	U
88-74-4	2-Nitroaniline	ND	57.4	288	U
131-11-3	Dimethylphthalate	ND	57.4	288	U
208-96-8	Acenaphthylene	ND	57.4	288	U
99-09-2	3-Nitroaniline	ND	57.4	288	U
83-32-9	Acenaphthene	ND	57.4	288	U
51-28-5	2,4-Dinitrophenol	ND UJ	57.4	574	U
100-02-7	4-Nitrophenol	ND	57.4	288	U
132-64-9	Dibenzofuran	ND	57.4	288	U
606-20-2	2,6-Dinitrotoluene	ND	57.4	288	U
121-14-2	2,4-Dinitrotoluene	ND	57.4	288	U
84-66-2	Diethyl phthalate	ND	57.4	288	U
7005-72-3	4-Chlorophenyl-phenylether	ND	57.4	288	U
86-73-7	Fluorene	ND	57.4	288	U
100-01-6	4-Nitroaniline	ND	57.4	288	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	57.4	288	U
86-30-6	N-Nitrosodiphenylamine	ND	57.4	288	U
101-55-3	4-Bromophenyl-phenylether	ND	57.4	288	U
118-74-1	Hexachlorobenzene	ND	57.4	288	U
87-86-5	Pentachlorophenol	ND	57.4	288	U
85-01-8	Phenanthrene	338	57.4	288	

 MKP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-15
Lab Sample ID: 1502031-02
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:50	Prep Date:	11/13/15 05:53	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 3550B GCMS	File ID:	B2928.D
Prep Batch:	B5K1301	Sequence:	S5K1308	Analyzed:	11/14/15 02:29
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	84.2	57.4	288	J
84-74-2	Di-n-butyl phthalate	ND	57.4	288	U
206-44-0	Fluoranthene	532	57.4	288	
129-00-0	Pyrene	453	57.4	288	
85-68-7	Butylbenzylphthalate	ND	57.4	288	U
91-94-1	3,3'-Dichlorobenzidine	ND	143	288	U
56-55-3	Benzo[a]anthracene	226	57.4	288	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	57.4	288	U
218-01-9	Chrysene	236	57.4	288	J
117-84-0	Di-n-octyl phthalate	ND	57.4	288	U
205-99-2	Benzo[b]fluoranthene	249	57.4	288	J
207-08-9	Benzo[k]fluoranthene	200	57.4	288	J
50-32-8	Benzo[a]pyrene	245	57.4	288	J
193-39-5	Indeno(1,2,3-cd)pyrene	87.9	57.4	288	J
53-70-3	Dibenzo(a,h)anthracene	ND	57.4	288	U
191-24-2	Benzo[ghi]perylene	86.1	57.4	288	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	68%	30-130
Phenol-d5	86%	30-130
Nitrobenzene-d5	66%	30-130
2-Fluorobiphenyl	64%	30-130
2,4,6-Tribromophenol	97%	30-130
Terphenyl-d14	69%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-16
Lab Sample ID: 1502031-03
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 11:10	Prep Date:	11/13/15 05:53	Matrix:	Soil
Percent Solids:	84.20	Prep Method:	EPA 3550B GCMS	File ID:	B2929.D
Prep Batch:	B5K1301	Sequence:	S5K1308	Analyzed:	11/14/15 03:14
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	39.5	198	U
108-95-2	Phenol	ND	39.5	198	U
111-44-4	bis(2-chloroethyl)ether	ND	39.5	198	U
95-57-8	2-Chlorophenol	ND	39.5	198	U
541-73-1	1,3-Dichlorobenzene	ND	39.5	198	U
106-46-7	1,4-Dichlorobenzene	ND	39.5	198	U
100-51-6	Benzyl alcohol	ND	39.5	198	U
95-50-1	1,2-Dichlorobenzene	ND	39.5	198	U
95-48-7	2-Methylphenol	ND	39.5	198	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	39.5	198	U
106-44-5	3 & 4-Methylphenol	ND	39.5	198	U
621-64-7	N-Nitroso-di-n-propylamine	ND	39.5	198	U
67-72-1	Hexachloroethane	ND	39.5	198	U
98-95-3	Nitrobenzene	ND	39.5	198	U
78-59-1	Isophorone	ND	39.5	198	U
88-75-5	2-Nitrophenol	ND	39.5	198	U
105-67-9	2,4-Dimethylphenol	ND	39.5	198	U
65-85-0	Benzoic acid	ND	98.6	395	U
111-91-1	bis(2-chloroethoxy)methane	ND	39.5	198	U
120-83-2	2,4-Dichlorophenol	ND	39.5	198	U
120-82-1	1,2,4-Trichlorobenzene	ND	39.5	198	U
91-20-3	Naphthalene	521	39.5	198	
106-47-8	4-Chloroaniline	ND UJ	39.5	198	U
87-68-3	Hexachlorobutadiene	ND	39.5	198	U
59-50-7	4-Chloro-3-methylphenol	ND	39.5	198	U

 VMH 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-16
Lab Sample ID: 1502031-03
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 11:10	Prep Date:	11/13/15 05:53	Matrix:	Soil
Percent Solids:	84.20	Prep Method:	EPA 3550B GCMS	File ID:	B2929.D
Prep Batch:	B5K1301	Sequence:	S5K1308	Analyzed:	11/14/15 03:14
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	706	39.5	198	
77-47-4	Hexachlorocyclopentadiene	ND	39.5	198	U
88-06-2	2,4,6-Trichlorophenol	ND	39.5	198	U
95-95-4	2,4,5-Trichlorophenol	ND	39.5	198	U
91-58-7	2-Chloronaphthalene	ND	39.5	198	U
88-74-4	2-Nitroaniline	ND	39.5	198	U
131-11-3	Dimethylphthalate	ND	39.5	198	U
208-96-8	Acenaphthylene	47.8	39.5	198	J
99-09-2	3-Nitroaniline	ND	39.5	198	U
83-32-9	Acenaphthene	310	39.5	198	
51-28-5	2,4-Dinitrophenol	ND uJ	39.5	395	U
100-02-7	4-Nitrophenol	ND	39.5	198	U
132-64-9	Dibenzofuran	162	39.5	198	J
606-20-2	2,6-Dinitrotoluene	ND	39.5	198	U
121-14-2	2,4-Dinitrotoluene	ND	39.5	198	U
84-66-2	Diethyl phthalate	ND	39.5	198	U
7005-72-3	4-Chlorophenyl-phenylether	ND	39.5	198	U
86-73-7	Fluorene	336	39.5	198	
100-01-6	4-Nitroaniline	ND	39.5	198	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	39.5	198	U
86-30-6	N-Nitrosodiphenylamine	ND	39.5	198	U
101-55-3	4-Bromophenyl-phenylether	ND	39.5	198	U
118-74-1	Hexachlorobenzene	ND	39.5	198	U
87-86-5	Pentachlorophenol	ND	39.5	198	U
85-01-8	Phenanthrene	2310	39.5	198	

 MKP 10/4/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-16
Lab Sample ID: 1502031-03
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 11:10	Prep Date:	11/13/15 05:53	Matrix:	Soil
Percent Solids:	84.20	Prep Method:	EPA 3550B GCMS	File ID:	B2929.D
Prep Batch:	B5K1301	Sequence:	S5K1308	Analyzed:	11/14/15 03:14
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	514	39.5	198	
84-74-2	Di-n-butyl phthalate	124	39.5	198	J
206-44-0	Fluoranthene	2500	39.5	198	
129-00-0	Pyrene	2170	39.5	198	
85-68-7	Butylbenzylphthalate	ND	39.5	198	U
91-94-1	3,3'-Dichlorobenzidine	ND	98.6	198	U
56-55-3	Benzo[a]anthracene	1030	39.5	198	
117-81-7	bis(2-ethylhexyl)phthalate	61.7	39.5	198	J
218-01-9	Chrysene	1090	39.5	198	
117-84-0	Di-n-octyl phthalate	ND UJ	39.5	198	U
205-99-2	Benzo[b]fluoranthene	956 J	39.5	198	
207-08-9	Benzo[k]fluoranthene	988 J	39.5	198	
50-32-8	Benzo[a]pyrene	1030 J	39.5	198	
193-39-5	Indeno(1,2,3-cd)pyrene	303 J	39.5	198	
53-70-3	Dibenzo(a,h)anthracene	128 J	39.5	198	J
191-24-2	Benzo[ghi]perylene	277 J	39.5	198	

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	69%	30-130
Phenol-d5	85%	30-130
Nitrobenzene-d5	56%	30-130
2-Fluorobiphenyl	60%	30-130
2,4,6-Tribromophenol	87%	30-130
Terphenyl-d14	63%	30-130

mp 12/25/16

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ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-14
Lab Sample ID: 1502031-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:40	Prep Date:	11/11/15 05:48	Matrix:	Soil
Percent Solids:	63.00	Prep Method:	EPA 3550B	File ID:	A20512.D
Prep Batch:	B5K1101	Sequence:	S5K1303	Analyzed:	11/13/15 17:17
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	1.05	1.05	U
319-85-7	beta-BHC	ND	1.05	1.05	U
319-86-8	delta-BHC	ND	1.05	1.05	U
58-89-9	gamma-BHC [Lindane]	ND	1.05	1.05	U
76-44-8	Heptachlor	ND	1.05	1.05	U
309-00-2	Aldrin	ND	1.05	1.05	U
1024-57-3	Heptachlor Epoxide	ND	1.05	1.05	U
959-98-8	Endosulfan I	ND	1.05	1.05	U
60-57-1	Dieldrin	ND	2.11	2.11	U
72-55-9	4,4'-DDE	ND	2.11	2.11	U
72-20-8	Endrin	ND	2.11	2.11	U
33213-65-9	Endosulfan II	ND	2.11	2.11	U
72-54-8	4,4'-DDD	ND	2.11	2.11	U
1031-07-8	Endosulfan sulfate	ND	2.11	2.11	U
50-29-3	4,4'-DDT	ND	2.11	2.11	U
72-43-5	Methoxychlor	ND	10.6	10.6	U
53494-70-5	Endrin ketone	ND	2.11	2.11	U
7421-93-4	Endrin aldehyde	ND	2.11	2.11	U
5103-71-9	alpha-Chlordane	ND	1.05	1.05	U
5566-34-7	gamma-Chlordane	ND	1.05	1.05	U
8001-35-2	Toxaphene	ND	52.9	52.9	U
12674-11-2	Aroclor-1016	ND	26.3	52.9	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-14
Lab Sample ID: 1502031-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:40	Prep Date:	11/11/15 05:48	Matrix:	Soil
Percent Solids:	63.00	Prep Method:	EPA 3550B	File ID:	A20512.D
Prep Batch:	B5K1101	Sequence:	S5K1303	Analyzed:	11/13/15 17:17
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	26.3	52.9	U
11141-16-5	Aroclor-1232	ND	26.3	52.9	U
53469-21-9	Aroclor-1242	ND	26.3	52.9	U
12672-29-6	Aroclor-1248	ND	26.3	52.9	U
11097-69-1	Aroclor-1254	ND	26.3	52.9	U
11096-82-5	Aroclor-1260	ND	26.3	52.9	U
37324-23-5	Aroclor-1262	ND	26.3	52.9	U
11100-14-4	Aroclor-1268	ND	26.3	52.9	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	81.9%	30-150
Tetrachloro-m-xylene [2C]	78.2%	30-150
Decachlorobiphenyl	87.5%	30-150
Decachlorobiphenyl [2C]	83.0%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-15
Lab Sample ID: 1502031-02
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:50	Prep Date:	11/11/15 05:48	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 3550B	File ID:	A20513.D
Prep Batch:	B5K1101	Sequence:	S5K1303	Analyzed:	11/13/15 17:48
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	1.14	1.14	U
319-85-7	beta-BHC	ND	1.14	1.14	U
319-86-8	delta-BHC	ND	1.14	1.14	U
58-89-9	gamma-BHC [Lindane]	ND	1.14	1.14	U
76-44-8	Heptachlor	ND	1.14	1.14	U
309-00-2	Aldrin	ND	1.14	1.14	U
1024-57-3	Heptachlor Epoxide	ND	1.14	1.14	U
959-98-8	Endosulfan I	ND	1.14	1.14	U
60-57-1	Dieldrin	ND	2.29	2.29	U
72-55-9	4,4'-DDE	ND	2.29	2.29	U
72-20-8	Endrin	ND	2.29	2.29	U
33213-65-9	Endosulfan II	ND	2.29	2.29	U
72-54-8	4,4'-DDD	ND	2.29	2.29	U
1031-07-8	Endosulfan sulfate	ND	2.29	2.29	U
50-29-3	4,4'-DDT	ND	2.29	2.29	U
72-43-5	Methoxychlor	ND	11.5	11.5	U
53494-70-5	Endrin ketone	ND	2.29	2.29	U
7421-93-4	Endrin aldehyde	ND	2.29	2.29	U
5103-71-9	alpha-Chlordane	ND	1.14	1.14	U
5566-34-7	gamma-Chlordane	ND	1.14	1.14	U
8001-35-2	Toxaphene	ND	57.4	57.4	U
12674-11-2	Aroclor-1016	ND	28.6	57.4	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-15
Lab Sample ID: 1502031-02
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:50	Prep Date:	11/11/15 05:48	Matrix:	Soil
Percent Solids:	58.00	Prep Method:	EPA 3550B	File ID:	A20513.D
Prep Batch:	B5K1101	Sequence:	S5K1303	Analyzed:	11/13/15 17:48
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	28.6	57.4	U
11141-16-5	Aroclor-1232	ND	28.6	57.4	U
53469-21-9	Aroclor-1242	ND	28.6	57.4	U
12672-29-6	Aroclor-1248	ND	28.6	57.4	U
11097-69-1	Aroclor-1254	ND	28.6	57.4	U
11096-82-5	Aroclor-1260	ND	28.6	57.4	U
37324-23-5	Aroclor-1262	ND	28.6	57.4	U
11100-14-4	Aroclor-1268	ND	28.6	57.4	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	77.4%	30-150
Tetrachloro-m-xylene [2C]	72.7%	30-150
Decachlorobiphenyl	88.1%	30-150
Decachlorobiphenyl [2C]	89.6%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-16
Lab Sample ID: 1502031-03
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 11:10	Prep Date:	11/11/15 05:48	Matrix:	Soil
Percent Solids:	84.20	Prep Method:	EPA 3550B	File ID:	A20514.D
Prep Batch:	B5K1101	Sequence:	S5K1303	Analyzed:	11/13/15 18:19
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.784	0.784	U
319-85-7	beta-BHC	ND	0.784	0.784	U
319-86-8	delta-BHC	ND	0.784	0.784	U
58-89-9	gamma-BHC [Lindane]	ND	0.784	0.784	U
76-44-8	Heptachlor	ND	0.784	0.784	U
309-00-2	Aldrin	ND	0.784	0.784	U
1024-57-3	Heptachlor Epoxide	ND	0.784	0.784	U
959-98-8	Endosulfan I	ND	0.784	0.784	U
60-57-1	Dieldrin	ND	1.58	1.58	U
72-55-9	4,4'-DDE	ND	1.58	1.58	U
72-20-8	Endrin	ND	1.58	1.58	U
33213-65-9	Endosulfan II	ND	1.58	1.58	U
72-54-8	4,4'-DDD	ND	1.58	1.58	U
1031-07-8	Endosulfan sulfate	ND	1.58	1.58	U
50-29-3	4,4'-DDT	ND	1.58	1.58	U
72-43-5	Methoxychlor	ND	7.91	7.91	U
53494-70-5	Endrin ketone	ND	1.58	1.58	U
7421-93-4	Endrin aldehyde	ND	1.58	1.58	U
5103-71-9	alpha-Chlordane	ND	0.784	0.784	U
5566-34-7	gamma-Chlordane	ND	0.784	0.784	U
8001-35-2	Toxaphene	ND	39.5	39.5	U
12674-11-2	Aroclor-1016	ND	19.7	39.5	U

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ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-16
Lab Sample ID: 1502031-03
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 11:10	Prep Date:	11/11/15 05:48	Matrix:	Soil
Percent Solids:	84.20	Prep Method:	EPA 3550B	File ID:	A20514.D
Prep Batch:	B5K1101	Sequence:	S5K1303	Analyzed:	11/13/15 18:19
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.7	39.5	U
11141-16-5	Aroclor-1232	ND	19.7	39.5	U
53469-21-9	Aroclor-1242	ND	19.7	39.5	U
12672-29-6	Aroclor-1248	ND	19.7	39.5	U
11097-69-1	Aroclor-1254	ND	19.7	39.5	U
11096-82-5	Aroclor-1260	ND	19.7	39.5	U
37324-23-5	Aroclor-1262	ND	19.7	39.5	U
11100-14-4	Aroclor-1268	ND	19.7	39.5	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	77.1%	30-150
Tetrachloro-m-xylene [2C]	76.1%	30-150
Decachlorobiphenyl	84.5%	30-150
Decachlorobiphenyl [2C]	99.3%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-14
Lab Sample ID: 1502031-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:40	Matrix:	Soil
Percent Solids:	63.00	File ID:	111215B-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	8800	31.7	31.7	1		11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7439-97-6	Mercury	ND	0.119	0.119	1	U	11/11/15 11:28	EPA 7471A	11/11/15 15:13 PRT	EPA 7471
7440-36-0	Antimony	ND	6.35	6.35	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7440-38-2	Arsenic	2.88	1.59	1.59	1		11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7440-39-3	Barium	65.7	31.7	31.7	1		11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.794	0.794	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.794	0.794	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7440-70-2	Calcium	9570	39.7	39.7	1		11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7440-47-3	Chromium	15.8	3.17	3.17	1		11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7440-48-4	Cobalt	ND	7.94	7.94	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7440-50-8	Copper	30.7	4.76	4.76	1		11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7439-89-6	Iron	15300	39.7	39.7	1		11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7439-92-1	Lead	58.0	1.59	1.59	1		11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7439-95-4	Magnesium	7320	79.4	79.4	1		11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7439-96-5	Manganese	239	3.17	3.17	1		11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7440-02-0	Nickel	15.3	6.35	6.35	1		11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7440-09-7	Potassium	1510	79.4	79.4	1		11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7782-49-2	Selenium	ND	6.35	6.35	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7440-22-4	Silver	ND	0.794	0.794	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7440-23-5	Sodium	412	79.4	79.4	1		11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7440-28-0	Thallium	ND	2.38	4.76	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7440-62-2	Vanadium	21.2	7.94	7.94	1		11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010
7440-66-6	Zinc	107	9.52	9.52	1		11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-15
Lab Sample ID: 1502031-02
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:50	Matrix:	Soil
Percent Solids:	58.00	File ID:	111215B-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	12500	34.5	34.5	1		11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7439-97-6	Mercury	ND	0.129	0.129	1	U	11/11/15 11:28	EPA 7471A	11/11/15 15:15 PRT	EPA 7471
7440-36-0	Antimony	ND	6.90	6.90	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7440-38-2	Arsenic	4.25	1.72	1.72	1		11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7440-39-3	Barium	72.1	34.5	34.5	1		11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.862	0.862	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.862	0.862	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7440-70-2	Calcium	9880	43.1	43.1	1		11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7440-47-3	Chromium	21.2	3.45	3.45	1		11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7440-48-4	Cobalt	ND	8.62	8.62	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7440-50-8	Copper	35.1	5.17	5.17	1		11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7439-89-6	Iron	21600	43.1	43.1	1		11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7439-92-1	Lead	74.3	1.72	1.72	1		11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7439-95-4	Magnesium	7480	86.2	86.2	1		11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7439-96-5	Manganese	298	3.45	3.45	1		11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7440-02-0	Nickel	16.5	6.90	6.90	1		11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7440-09-7	Potassium	1690	86.2	86.2	1		11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7782-49-2	Selenium	ND	6.90	6.90	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7440-22-4	Silver	ND	0.862	0.862	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7440-23-5	Sodium	1130	86.2	86.2	1		11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7440-28-0	Thallium	ND	2.59	5.17	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7440-62-2	Vanadium	29.7	8.62	8.62	1		11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010
7440-66-6	Zinc	130	10.3	10.3	1		11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-16
Lab Sample ID: 1502031-03
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 11:10	Matrix:	Soil
Percent Solids:	84.20	File ID:	111215B-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11300	23.8	23.8	1		11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7439-97-6	Mercury	0.158	0.0891	0.0891	1		11/11/15 11:28	EPA 7471A	11/11/15 15:17 PRT	EPA 7471
7440-36-0	Antimony	ND	4.75	4.75	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7440-38-2	Arsenic	3.66	1.19	1.19	1		11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7440-39-3	Barium	79.6	23.8	23.8	1		11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.594	0.594	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.594	0.594	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7440-70-2	Calcium	13400	29.7	29.7	1		11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7440-47-3	Chromium	21.4	2.38	2.38	1		11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7440-48-4	Cobalt	8.44	5.94	5.94	1		11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7440-50-8	Copper	61.0	3.56	3.56	1		11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7439-89-6	Iron	22200	29.7	29.7	1		11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7439-92-1	Lead	149	1.19	1.19	1		11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7439-95-4	Magnesium	6940	59.4	59.4	1		11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7439-96-5	Manganese	412	2.38	2.38	1		11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7440-02-0	Nickel	14.7	4.75	4.75	1		11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7440-09-7	Potassium	1580	59.4	59.4	1		11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7782-49-2	Selenium	ND	4.75	4.75	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7440-22-4	Silver	ND	0.594	0.594	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7440-23-5	Sodium	173	59.4	59.4	1		11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7440-28-0	Thallium	ND	1.78	3.56	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7440-62-2	Vanadium	32.0	5.94	5.94	1		11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010
7440-66-6	Zinc	158	7.13	7.13	1		11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-14
Lab Sample ID: 1502031-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:40	Matrix:	Soil
Percent Solids:	63.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Cyanide (total)	ND	1.59	1.59	1	U	11/16/15 08:52	EPA 9010C	11/16/15 17:00 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	63.0	0.100	0.100	1		11/12/15 09:19	Percent Solids	11/13/15 10:00 CLD	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-15
Lab Sample ID: 1502031-02
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:50	Matrix:	Soil
Percent Solids:	58.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Cyanide (total)	ND	1.72	1.72	1	U	11/16/15 08:52	EPA 9010C	11/16/15 17:00 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	58.0	0.100	0.100	1		11/12/15 09:19	Percent Solids	11/13/15 10:00 CLD	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-16
Lab Sample ID: 1502031-03
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 11:10	Matrix:	Soil
Percent Solids:	84.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Cyanide (total)	ND	1.19	1.19	1	U	11/16/15 08:52	EPA 9010C	11/16/15 17:00 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	84.2	0.100	0.100	1		11/12/15 09:19	Percent Solids	11/13/15 10:00 CLD	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5K1614-BLK1	File ID:	D13047.D
Batch:	B5K1614	Prepared:	11/16/15 10:55	Analyzed:	11/16/15 10:55
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5K1604	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	3.97	1.00	2.00	
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	ND	1.00	2.00	U
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5K1614-BLK1	File ID:	D13047.D
Batch:	B5K1614	Prepared:	11/16/15 10:55	Analyzed:	11/16/15 10:55
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5K1604	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
71-43-2	Benzene	ND	1.00	2.00	U
79-01-6	Trichloroethene	ND	1.00	2.00	U
78-87-5	1,2-Dichloropropane	ND	1.00	2.00	U
75-27-4	Bromodichloromethane	ND	1.00	2.00	U
74-95-3	Dibromomethane	ND	1.00	2.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.00	2.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.00	2.00	U
108-88-3	Toluene	ND	1.00	2.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.00	2.00	U
79-00-5	1,1,2-Trichloroethane	ND	1.00	2.00	U
108-10-1	4-Methyl-2-pentanone	ND	1.00	2.00	U
106-93-4	1,2-Dibromoethane	ND	1.00	2.00	U
591-78-6	2-Hexanone	ND	1.00	2.00	U
142-28-9	1,3-Dichloropropane	ND	1.00	2.00	U
127-18-4	Tetrachloroethene	ND	1.00	2.00	U
124-48-1	Dibromochloromethane	ND	1.00	2.00	U
100-41-4	Ethylbenzene	ND	1.00	2.00	U
108-90-7	Chlorobenzene	ND	1.00	2.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.00	2.00	U
108-38-3/106-42-3	m,p-Xylenes	ND	2.00	4.00	U
95-47-6	o-Xylene	ND	2.00	4.00	U
100-42-5	Styrene	ND	1.00	4.00	U
75-25-2	Bromoform	ND	1.00	2.00	U
98-82-8	Isopropylbenzene	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5K1614-BLK1	File ID:	D13047.D
Batch:	B5K1614	Prepared:	11/16/15 10:55	Analyzed:	11/16/15 10:55
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5K1604	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane	ND	1.00	2.00	U
103-65-1	n-Propyl Benzene	ND	1.00	2.00	U
108-86-1	Bromobenzene	ND	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.00	2.00	U
95-49-8	2-Chlorotoluene	ND	1.00	2.00	U
106-43-4	4-Chlorotoluene	ND	1.00	2.00	U
98-06-6	tert-Butylbenzene	ND	1.00	2.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.00	2.00	U
135-98-8	sec-Butylbenzene	ND	1.00	2.00	U
99-87-6	p-Isopropyltoluene	ND	1.00	2.00	U
541-73-1	1,3-Dichlorobenzene	ND	1.00	2.00	U
106-46-7	1,4-Dichlorobenzene	ND	1.00	2.00	U
104-51-8	n-Butyl Benzene	ND	1.00	2.00	U
95-50-1	1,2-Dichlorobenzene	ND	1.00	2.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.00	2.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.00	2.00	U
87-68-3	Hexachlorobutadiene	ND	1.00	2.00	U
91-20-3	Naphthalene	ND	1.00	2.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.00	2.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	107%	70-130
Toluene-d8	107%	70-130
Bromofluorobenzene	107%	70-130

Accredited Analytical Resources, LLC.

METHOD BLANK SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Blank ID:	B5K1614-BLK1	Batch:	B5K1614

Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B5K1614-BS1	D13048.D	11/16/2015 11:37
Matrix Spike	B5K1614-MS1	D13049.D	11/16/2015 12:11
Matrix Spike Dup	B5K1614-MSD1	D13050.D	11/16/2015 12:41
EP-15	1502031-02	D13059.D	11/16/2015 17:23
EP-16	1502031-03	D13060.D	11/16/2015 17:52

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5K1710-BLK1	File ID:	D13072.D
Batch:	B5K1710	Prepared:	11/17/15 11:10	Analyzed:	11/17/15 11:10
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5K1708	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	60.0	100	U
107-13-1	Acrylonitrile	ND	20.0	100	U
67-64-1	Acetone	61.6	10.0	20.0	
75-71-8	Dichlorodifluoromethane	ND	10.0	20.0	U
74-87-3	Chloromethane	ND	10.0	20.0	U
75-01-4	Vinyl chloride	ND	10.0	20.0	U
74-83-9	Bromomethane	ND	10.0	20.0	U
75-00-3	Chloroethane	ND	10.0	20.0	U
75-69-4	Trichlorofluoromethane	ND	10.0	20.0	U
75-35-4	1,1-Dichloroethene	ND	10.0	20.0	U
75-15-0	Carbon disulfide	ND	10.0	20.0	U
75-09-2	Methylene Chloride	15.9	10.0	20.0	J
156-60-5	trans-1,2-Dichloroethene	ND	10.0	20.0	U
75-34-3	1,1-Dichloroethane	ND	10.0	20.0	U
108-05-4	Vinyl acetate	ND	10.0	20.0	U
590-20-7	2,2-Dichloropropane	ND	10.0	20.0	U
78-93-3	2-Butanone	ND	10.0	20.0	U
156-59-4	cis-1,2-Dichloroethene	ND	10.0	20.0	U
67-66-3	Chloroform	ND	10.0	20.0	U
74-97-5	Bromochloromethane	ND	10.0	20.0	U
71-55-6	1,1,1-Trichloroethane	ND	10.0	20.0	U
563-58-6	1,1-Dichloropropene	ND	10.0	20.0	U
56-23-5	Carbon Tetrachloride	ND	10.0	20.0	U
107-06-2	1,2-Dichloroethane	ND	10.0	20.0	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5K1710-BLK1	File ID:	D13072.D
Batch:	B5K1710	Prepared:	11/17/15 11:10	Analyzed:	11/17/15 11:10
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5K1708	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
71-43-2	Benzene	ND	10.0	20.0	U
79-01-6	Trichloroethene	ND	10.0	20.0	U
78-87-5	1,2-Dichloropropane	ND	10.0	20.0	U
75-27-4	Bromodichloromethane	ND	10.0	20.0	U
74-95-3	Dibromomethane	ND	10.0	20.0	U
110-75-8	2-Chloroethyl vinyl ether	ND	10.0	20.0	U
10061-01-5	cis-1,3-Dichloropropene	ND	10.0	20.0	U
108-88-3	Toluene	ND	10.0	20.0	U
10061-02-6	trans-1,3-Dichloropropene	ND	10.0	20.0	U
79-00-5	1,1,2-Trichloroethane	ND	10.0	20.0	U
108-10-1	4-Methyl-2-pentanone	ND	10.0	20.0	U
106-93-4	1,2-Dibromoethane	ND	10.0	20.0	U
591-78-6	2-Hexanone	ND	10.0	20.0	U
142-28-9	1,3-Dichloropropane	ND	10.0	20.0	U
127-18-4	Tetrachloroethene	ND	10.0	20.0	U
124-48-1	Dibromochloromethane	ND	10.0	20.0	U
100-41-4	Ethylbenzene	ND	10.0	20.0	U
108-90-7	Chlorobenzene	ND	10.0	20.0	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	10.0	20.0	U
108-38-3/106-42-3	m,p-Xylenes	ND	20.0	40.0	U
95-47-6	o-Xylene	ND	20.0	40.0	U
100-42-5	Styrene	ND	10.0	40.0	U
75-25-2	Bromoform	ND	10.0	20.0	U
98-82-8	Isopropylbenzene	ND	10.0	20.0	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Laboratory ID:	B5K1710-BLK1	File ID:	D13072.D
Batch:	B5K1710	Prepared:	11/17/15 11:10	Analyzed:	11/17/15 11:10
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5K1708	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	10.0	20.0	U
96-18-4	1,2,3-Trichloropropane	ND	10.0	20.0	U
103-65-1	n-Propyl Benzene	ND	10.0	20.0	U
108-86-1	Bromobenzene	ND	10.0	20.0	U
108-67-8	1,3,5-Trimethylbenzene	ND	10.0	20.0	U
95-49-8	2-Chlorotoluene	ND	10.0	20.0	U
106-43-4	4-Chlorotoluene	ND	10.0	20.0	U
98-06-6	tert-Butylbenzene	ND	10.0	20.0	U
95-63-6	1,2,4-Trimethylbenzene	ND	10.0	20.0	U
135-98-8	sec-Butylbenzene	ND	10.0	20.0	U
99-87-6	p-Isopropyltoluene	ND	10.0	20.0	U
541-73-1	1,3-Dichlorobenzene	ND	10.0	20.0	U
106-46-7	1,4-Dichlorobenzene	ND	10.0	20.0	U
104-51-8	n-Butyl Benzene	ND	10.0	20.0	U
95-50-1	1,2-Dichlorobenzene	ND	10.0	20.0	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	10.0	20.0	U
120-82-1	1,2,4-Trichlorobenzene	ND	10.0	20.0	U
87-68-3	Hexachlorobutadiene	ND	10.0	20.0	U
91-20-3	Naphthalene	ND	10.0	20.0	U
87-61-6	1,2,3-Trichlorobenzene	ND	10.0	20.0	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	107%	70-130
Toluene-d8	107%	70-130
Bromofluorobenzene	104%	70-130

Accredited Analytical Resources, LLC.

METHOD BLANK SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Blank ID:	B5K1710-BLK1	Batch:	B5K1710

Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B5K1710-BS1	D13073.D	11/17/2015 11:51
Matrix Spike	B5K1710-MS1	D13074.D	11/17/2015 12:22
Matrix Spike Dup	B5K1710-MSD1	D13075.D	11/17/2015 12:52
EP-14	1502031-01	D13078.D	11/17/2015 14:17
EP-15	1502031-02RE1	D13079.D	11/17/2015 14:46

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K1614	Prep Method:	EPA 5035A
Percent Solids:	87.00	Laboratory ID:	B5K1614-MS1
		Client Sample ID:	1502016-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
n-Propyl Benzene	57.5	ND	51.3	89		70 - 130
Bromobenzene	57.5	ND	55.2	96		70 - 130
1,3,5-Trimethylbenzene	57.5	ND	51.9	90		70 - 130
2-Chlorotoluene	57.5	ND	51.7	90		70 - 130
4-Chlorotoluene	57.5	ND	54.0	94		70 - 130
tert-Butylbenzene	57.5	ND	50.1	87		70 - 130
1,2,4-Trimethylbenzene	57.5	ND	51.2	89		70 - 130
sec-Butylbenzene	57.5	ND	48.1	84		70 - 130
p-Isopropyltoluene	57.5	ND	49.4	86		70 - 130
1,3-Dichlorobenzene	57.5	ND	52.2	91		70 - 130
1,4-Dichlorobenzene	57.5	ND	53.0	92		70 - 130
n-Butyl Benzene	57.5	ND	46.7	81		70 - 130
1,2-Dichlorobenzene	57.5	ND	55.0	96		70 - 130
1,2-Dibromo-3-chloropropane	57.5	ND	58.7	102		40 - 160
1,2,4-Trichlorobenzene	57.5	ND	50.4	88		70 - 130
Hexachlorobutadiene	57.5	ND	38.9	68	*	70 - 130
Naphthalene	57.5	ND	59.2	103		40 - 160
1,2,3-Trichlorobenzene	57.5	ND	54.2	94		70 - 130
Methyl tert-Butyl Ether	115	ND	119	104		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K1614	Prep Method:	EPA 5035A
Percent Solids:	87.00	Laboratory ID:	B5K1614-MSD1
		Client Sample ID:	1502016-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Acrolein	287	162	56	43 *	30	40 - 160
Acrylonitrile	287	257	89	23	30	70 - 130
Acetone	57.5	55.5	86	10	30	40 - 160
Dichlorodifluoromethane	57.5	52.9	92	5	30	40 - 160
Chloromethane	57.5	45.7	80	8	30	40 - 160
Vinyl chloride	57.5	48.1	84	5	30	70 - 130
Bromomethane	57.5	50.3	87	8	30	40 - 160
Chloroethane	57.5	50.1	87	7	30	40 - 160
Trichlorofluoromethane	57.5	48.1	84	7	30	40 - 160
Freon 113	57.5	41.2	72	28	30	70 - 130
1,1-Dichloroethene	57.5	41.7	73	25	30	70 - 130
Carbon disulfide	57.5	49.8	87	28	30	70 - 130
Methyl Acetate	57.5	61.1	106	8	30	70 - 130
Methylene Chloride	57.5	51.1	89	20	30	70 - 130
trans-1,2-Dichloroethene	57.5	43.4	76	26	30	70 - 130
1,1-Dichloroethane	57.5	47.6	83	21	30	70 - 130
2,2-Dichloropropane	57.5	44.6	78	25	30	70 - 130
2-Butanone	57.5	48.8	85	24	30	40 - 160
cis-1,2-Dichloroethene	57.5	47.2	82	20	30	70 - 130
Chloroform	57.5	46.3	81	20	30	70 - 130
Bromochloromethane	57.5	46.6	81	22	30	70 - 130
Cyclohexane	57.5	37.8	66 *	31 *	30	70 - 130
1,1,1-Trichloroethane	57.5	43.8	76	26	30	70 - 130
t-Butyl alcohol	575	556	97	23	30	40 - 160
1,1-Dichloropropene	57.5	39.8	69 *	30 *	30	70 - 130
Carbon Tetrachloride	57.5	40.1	70	25	30	70 - 130
1,2-Dichloroethane	57.5	47.7	83	22	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K1614	Prep Method:	EPA 5035A
Percent Solids:	87.00	Laboratory ID:	B5K1614-MSD1
		Client Sample ID:	1502016-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	57.5	43.9	76	23	30	70 - 130
Trichloroethene	57.5	42.2	73	25	30	70 - 130
Methylcyclohexane	57.5	34.3	60 *	32 *	30	70 - 130
1,2-Dichloropropane	57.5	47.4	82	17	30	70 - 130
Bromodichloromethane	57.5	49.5	86	19	30	70 - 130
Dibromomethane	57.5	48.7	85	18	30	70 - 130
2-Chloroethyl vinyl ether	57.5	52.1	91	23	30	40 - 160
cis-1,3-Dichloropropene	57.5	47.5	83	22	30	70 - 130
Toluene	57.5	42.2	73	25	30	70 - 130
trans-1,3-Dichloropropene	57.5	47.4	83	22	30	70 - 130
1,1,2-Trichloroethane	57.5	47.8	83	19	30	70 - 130
4-Methyl-2-pentanone	57.5	48.6	85	20	30	40 - 160
1,2-Dibromoethane	57.5	48.1	84	21	30	70 - 130
2-Hexanone	57.5	44.0	77	28	30	40 - 160
1,3-Dichloropropane	57.5	48.6	85	18	30	70 - 130
Tetrachloroethene	57.5	38.7	67 *	24	30	70 - 130
Dibromochloromethane	57.5	47.7	83	19	30	70 - 130
Ethylbenzene	57.5	40.6	71	26	30	70 - 130
Chlorobenzene	57.5	42.1	73	26	30	70 - 130
1,1,1,2-Tetrachloroethane	57.5	46.0	80	21	30	70 - 130
m,p-Xylenes	115	81.0	70	26	30	70 - 130
o-Xylene	115	84.1	73	27	30	70 - 130
Styrene	115	83.5	73	31 *	30	70 - 130
Bromoform	57.5	49.1	85	28	30	70 - 130
Isopropylbenzene	57.5	40.1	70	24	30	70 - 130
1,1,2,2-Tetrachloroethane	57.5	49.9	87	20	30	70 - 130
1,2,3-Trichloropropane	57.5	49.4	86	21	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5K1614	Prep Method:	EPA 5035A
Percent Solids:	87.00	Laboratory ID:	B5K1614-MSD1
		Client Sample ID:	1502016-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
n-Propyl Benzene	57.5	39.5	69	*	26		30	70 - 130
Bromobenzene	57.5	44.0	77		23		30	70 - 130
1,3,5-Trimethylbenzene	57.5	39.8	69	*	26		30	70 - 130
2-Chlorotoluene	57.5	40.7	71		24		30	70 - 130
4-Chlorotoluene	57.5	41.7	72		26		30	70 - 130
tert-Butylbenzene	57.5	38.6	67	*	26		30	70 - 130
1,2,4-Trimethylbenzene	57.5	39.2	68	*	27		30	70 - 130
sec-Butylbenzene	57.5	37.2	65	*	26		30	70 - 130
p-Isopropyltoluene	57.5	36.7	64	*	30	*	30	70 - 130
1,3-Dichlorobenzene	57.5	40.3	70		26		30	70 - 130
1,4-Dichlorobenzene	57.5	40.5	71		27		30	70 - 130
n-Butyl Benzene	57.5	33.7	59	*	32	*	30	70 - 130
1,2-Dichlorobenzene	57.5	42.7	74		25		30	70 - 130
1,2-Dibromo-3-chloropropane	57.5	46.4	81		23		30	40 - 160
1,2,4-Trichlorobenzene	57.5	38.9	68	*	26		30	70 - 130
Hexachlorobutadiene	57.5	27.8	48	*	33	*	30	70 - 130
Naphthalene	57.5	43.2	75		31	*	30	40 - 160
1,2,3-Trichlorobenzene	57.5	41.1	72		27		30	70 - 130
Methyl tert-Butyl Ether	115	108	94		10		30	70 - 130

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Sequence: S5K1604 Instrument: GC/MS D
Calibration: 15L0202

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-15 (1502031-02)			*Lab File ID: D13059.D*			*Analyzed: 11/16/15 17:23*			
Pentafluorobenzene	479273	6.46	846570	6.45	57	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	795816	7.16	1509849	7.15	53	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	421339	11.2	1225654	11.2	34	50 - 200	0.0000	+/-0.50	*
1,4-Dichlorobenzene-d4	92461	14.2	494554	14.2	19	50 - 200	0.0000	+/-0.50	* <25%
EP-16 (1502031-03)			*Lab File ID: D13060.D*			*Analyzed: 11/16/15 17:52*			
Pentafluorobenzene	633834	6.46	846570	6.45	75	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1161975	7.16	1509849	7.15	77	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	810465	11.2	1225654	11.2	66	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	301772	14.2	494554	14.2	61	50 - 200	0.0000	+/-0.50	

* Values outside of QC limits

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Sequence: S5K1708 Instrument: GC/MS D
Calibration: 15L0202

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-14 (1502031-01)			*Lab File ID: D13078.D*			*Analyzed: 11/17/15 14:17*			
Pentafluorobenzene	606465	6.43	853567	6.43	71	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1070818	7.13	1476134	7.13	73	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	791471	11.18	1179264	11.18	67	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	282674	14.18	472213	14.18	60	50 - 200	0.0000	+/-0.50	
EP-15 (1502031-02RE1)			*Lab File ID: D13079.D*			*Analyzed: 11/17/15 14:46*			
Pentafluorobenzene	401780	6.44	853567	6.43	47	50 - 200	0.0100	+/-0.50	*
1,4-Difluorobenzene	689691	7.14	1476134	7.13	47	50 - 200	0.0100	+/-0.50	*
Chlorobenzene-d5	434627	11.18	1179264	11.18	37	50 - 200	0.0000	+/-0.50	*
1,4-Dichlorobenzene-d4	131060	14.18	472213	14.18	28	50 - 200	0.0000	+/-0.50	*

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\NOV15\D1116\D13045.D
Acq On : 16 Nov 2015 9:47
Sample : S5K1604-CCV1
Misc : SOIL
MS Integration Params: RTEINT.P
Quant Time: Nov 16 17:14 2015

Vial: 1
Operator: SG
Inst : GC/MS D
Multiplr: 1.00
Quant Results File: VD8S1113.RES

Quant Method : D:\D\METHODS\VD8S1113.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Nov 16 09:11:36 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1113

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
51)	Tetrachloroethene	9.61	166	453667	47.73 ug/l	97
52)	Dibromochloromethane	10.17	129	280768	49.46 ug/l	95
53)	Ethylbenzene	11.29	91	1874267	48.48 ug/l	99
54)	Chlorobenzene	11.22	112	1103200	49.06 ug/l	99
55)	1,1,1,2-Tetrachloroethane	11.33	131	320973	49.54 ug/l	97
56)	m,p-Xylene	11.50	91	2611455	93.37 ug/l	99
57)	o-Xylene	12.06	91	2542420	92.66 ug/l	100
58)	Styrene	12.13	104	2175864	94.65 ug/l	97
59)	Bromoform	12.13	173	135595	51.53 ug/l	81
61)	Isopropylbenzene	12.48	105	1828882	48.09 ug/l	96
62)	1,1,2,2-Tetrachloroethane	13.12	83	248775	50.05 ug/l	98
63)	1,2,3-Trichloropropane	13.26	75	182549	48.93 ug/l	100
64)	n-Propyl benzene	13.00	91	2265019	49.74 ug/l	96
65)	Bromobenzene	12.92	77	575750	48.49 ug/l	100
66)	1,3,5-Trimethylbenzene	13.27	105	1378389	50.23 ug/l	99
67)	2-Chlorotoluene	13.17	91	1126298	49.15 ug/l	94
68)	4-Chlorotoluene	13.38	91	1141702	49.89 ug/l	91
69)	tert-Butylbenzene	13.64	119	1334749	49.53 ug/l	97
70)	1,2,4-Trimethylbenzene	13.73	105	1357280	50.08 ug/l	99
71)	sec-Butylbenzene	13.86	105	2023879	49.34 ug/l	98
72)	p-Isopropyltoluene	14.05	119	1689830	49.18 ug/l	100
73)	1,3-Dichlorobenzene	14.10	146	743064	48.73 ug/l	98
74)	1,4-Dichlorobenzene	14.22	146	732008	49.44 ug/l	100
75)	n-Butylbenzene	14.56	91	1612292	50.46 ug/l	96
76)	1,2-Dichlorobenzene	14.72	146	628700	50.65 ug/l	96
77)	1,2-Dibromo-3-Chloropropan	15.70	157	37004	49.74 ug/l	88
78)	1,2,4-Trichlorobenzene	16.49	180	367249	51.75 ug/l	96
79)	Hexachlorobutadiene	16.47	225	204876	51.46 ug/l	96
80)	Naphthalene	16.88	128	632499	51.33 ug/l	99
81)	1,2,3-Trichlorobenzene	17.09	180	283831	52.07 ug/l	96
82)	Methyl t-butyl ether	3.58	73	1391915	91.17 ug/l	96

IS# 4

(#) = qualifier out of range (m) = manual integration

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Calibration:	15L0202	Instrument:	GC/MS D
		Calibration Date:	11/13/2015 3:00:45PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	1.181812E-02	17.38443		
Acrylonitrile	8.561063E-02	7.584766		
Acetone	0.1170496	66.21322		
Dichlorodifluoromethane	0.2587039	21.23215		
Chloromethane	0.7905557	13.03528	SPCC (0.1)	
Vinyl chloride	0.9053119	11.39674	CCC (20)	
Bromomethane	0.6143821	13.58003		
Chloroethane	0.9100049	10.42609		
Trichlorofluoromethane	0.7991684	11.47453		
Freon 113	0.7178217	9.474922		
1,1-Dichloroethene	1.056305	9.439874	CCC (20)	
Carbon disulfide	1.839929	10.20064		
Methyl Acetate	0.2450891	12.84099		
Methylene Chloride	0.9668761	39.58532		
trans-1,2-Dichloroethene	0.8601373	7.699565		
1,1-Dichloroethane	1.087945	7.363057	SPCC (0.1)	
Vinyl acetate	0.741366	6.464946		
2,2-Dichloropropane	0.7225349	6.230461		
2-Butanone	0.1453586	9.182834		
cis-1,2-Dichloroethene	0.777772	7.865124		
Chloroform	0.7481054	6.471717	CCC (20)	
Bromochloromethane	0.2820551	7.824594		
Cyclohexane	1.339871	8.271247		
1,1,1-Trichloroethane	0.5785336	6.305736		
t-Butyl alcohol	2.162169E-02	13.27505		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Calibration:	15L0202	Instrument:	GC/MS D
		Calibration Date:	11/13/2015 3:00:45PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
1,1-Dichloropropene	0.1560822	3.255254		
Carbon Tetrachloride	0.2967813	4.078829		
1,2-Dichloroethane	0.2186538	3.997793		
Benzene	1.236865	4.778068		
Trichloroethene	0.2775292	5.934595		
Methylcyclohexane	0.6052219	6.160275		
1,2-Dichloropropane	0.3193203	5.11783	CCC (20)	
1,4-Dioxane	1.232455E-03	12.96952		
Bromodichloromethane	0.2585855	9.027691		
Dibromomethane	0.1152608	6.647037		
2-Chloroethyl vinyl ether	0.1256221	13.92716		
cis-1,3-Dichloropropene	0.3965805	4.425641		
Toluene	1.14699	5.632547	CCC (20)	
trans-1,3-Dichloropropene	0.2871999	3.486732		
1,1,2-Trichloroethane	0.1542789	5.70911		
4-Methyl-2-pentanone	0.160455	5.777099		
1,2-Dibromoethane	0.148165	9.286958		
2-Hexanone	0.1482839	4.753436		
1,3-Dichloropropane	0.3943759	6.535969		
Tetrachloroethene	0.3877077	5.600024		
Dibromochloromethane	0.2315586	5.093483		
Ethylbenzene	1.577123	6.725682	CCC (20)	
Chlorobenzene	0.9172502	5.31409	SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.2643184	6.864945		
m,p-Xylenes	1.141003	7.096718		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Calibration:	15L0202	Instrument:	GC/MS D
		Calibration Date:	11/13/2015 3:00:45PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
o-Xylene	1.119356	7.104468		
Styrene	0.9378424	4.571453		
Bromoform	0.1073502	14.91122	SPCC (0.1)	
Isopropylbenzene	3.84506	9.874887		
1,1,2,2-Tetrachloroethane	0.5025223	8.244776	SPCC (0.3)	
1,2,3-Trichloropropane	0.3772226	10.8098		
n-Propyl Benzene	4.604026	9.056089		
Bromobenzene	1.200315	8.830797		
1,3,5-Trimethylbenzene	2.77463	9.110683		
2-Chlorotoluene	2.316807	10.75081		
4-Chlorotoluene	2.313585	9.076129		
tert-Butylbenzene	2.724505	8.070875		
1,2,4-Trimethylbenzene	2.739818	9.992465		
sec-Butylbenzene	4.146891	8.333929		
p-Isopropyltoluene	3.473529	7.481644		
1,3-Dichlorobenzene	1.54165	7.5502		
1,4-Dichlorobenzene	1.496766	7.062437		
n-Butyl Benzene	3.230421	8.632324		
1,2-Dichlorobenzene	1.254937	6.727284		
1,2-Dibromo-3-chloropropane	6.720871E-02	20.71554		
1,2,4-Trichlorobenzene	0.717507	4.373142		
Hexachlorobutadiene	0.402549	5.615947		
Naphthalene	1.245898	4.901948		
1,2,3-Trichlorobenzene	0.5510854	10.70594		
Methyl tert-Butyl Ether	1.543463	12.0515		

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CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1502031		
Project:	138th Street, Bronx, NY; 10BR188		
Instrument ID:	GC/MS D	Calibration:	15L0202
Lab File ID:	D13045.D	Calibration Date:	11/13/15 15:00
Sequence:	S5K1604	Injection Date:	11/16/15
Lab Sample ID:	S5K1604-CCV1	Injection Time:	09:47

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	L	250	246	1.181812E-02	1.213249E-02		2.7	
Acrylonitrile	A	250	261	8.561063E-02	8.927224E-02		4.3	
Acetone	L	50.0	50.6	0.1170496	0.0848589		-27.5	
Dichlorodifluoromethane	Q	50.0	60.0	0.2587039	0.2456962		-5.0	
Chloromethane	A	50.0	45.9	0.7905557	0.7261774	0.1	-8.1	
Vinyl chloride	A	50.0	48.4	0.9053119	0.8767686		-3.2	20
Bromomethane	A	50.0	47.2	0.6143821	0.5797607		-5.6	
Chloroethane	A	50.0	49.5	0.9100049	0.9008233		-1.0	
Trichlorofluoromethane	A	50.0	47.4	0.7991684	0.7577046		-5.2	
Freon 113	A	50.0	47.4	0.7178217	0.680108		-5.3	
1,1-Dichloroethene	A	50.0	47.0	1.056305	0.9918058		-6.1	20
Carbon disulfide	A	50.0	46.8	1.839929	1.722642		-6.4	
Methyl Acetate	A	50.0	44.8	0.2450891	0.2195471		-10.4	
Methylene Chloride	L	50.0	51.0	0.9668761	0.7779156		-19.5	
trans-1,2-Dichloroethene	A	50.0	48.0	0.8601373	0.8266747		-3.9	
1,1-Dichloroethane	A	50.0	49.6	1.087945	1.07922	0.1	-0.8	
Vinyl acetate	A	50.0	52.2	0.741366	0.7744557		4.5	
2,2-Dichloropropane	A	50.0	51.2	0.7225349	0.7403582		2.5	
2-Butanone	A	50.0	53.2	0.1453586	0.1546192		6.4	
cis-1,2-Dichloroethene	A	50.0	51.4	0.777772	0.8003733		2.9	
Chloroform	A	50.0	49.3	0.7481054	0.7379555		-1.4	20
Bromochloromethane	A	50.0	49.7	0.2820551	0.2802214		-0.7	
Cyclohexane	A	50.0	48.3	1.339871	1.29348		-3.5	

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CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1502031		
Project:	138th Street, Bronx, NY; 10BR188		
Instrument ID:	GC/MS D	Calibration:	15L0202
Lab File ID:	D13070.D	Calibration Date:	11/13/15 15:00
Sequence:	S5K1708	Injection Date:	11/17/15
Lab Sample ID:	S5K1708-CCV1	Injection Time:	10:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	L	250	247	1.181812E-02	1.217339E-02		3.0	
Acrylonitrile	A	250	259	8.561063E-02	8.883778E-02		3.8	
Acetone	L	50.0	58.4	0.1170496	9.797005E-02		-16.3	
Dichlorodifluoromethane	Q	50.0	40.4	0.2587039	0.1572507		-39.2	
Chloromethane	A	50.0	42.0	0.7905557	0.6639409	0.1	-16.0	
Vinyl chloride	A	50.0	41.5	0.9053119	0.7511783		-17.0	20
Bromomethane	A	50.0	43.6	0.6143821	0.5352339		-12.9	
Chloroethane	A	50.0	44.2	0.9100049	0.8038174		-11.7	
Trichlorofluoromethane	A	50.0	43.6	0.7991684	0.6970572		-12.8	
Freon 113	A	50.0	48.2	0.7178217	0.6914489		-3.7	
1,1-Dichloroethene	A	50.0	47.1	1.056305	0.9953454		-5.8	20
Carbon disulfide	A	50.0	47.2	1.839929	1.735629		-5.7	
Methyl Acetate	A	50.0	46.2	0.2450891	0.2266805		-7.5	
Methylene Chloride	L	50.0	52.8	0.9668761	0.8039181		-16.9	
trans-1,2-Dichloroethene	A	50.0	48.4	0.8601373	0.8331355		-3.1	
1,1-Dichloroethane	A	50.0	51.0	1.087945	1.109298	0.1	2.0	
Vinyl acetate	A	50.0	52.5	0.741366	0.7788609		5.1	
2,2-Dichloropropane	A	50.0	50.8	0.7225349	0.7341908		1.6	
2-Butanone	A	50.0	56.4	0.1453586	0.1640012		12.8	
cis-1,2-Dichloroethene	A	50.0	51.8	0.777772	0.8052596		3.5	
Chloroform	A	50.0	49.8	0.7481054	0.7444793		-0.5	20
Bromochloromethane	A	50.0	50.6	0.2820551	0.2852934		1.1	
Cyclohexane	A	50.0	48.2	1.339871	1.291166		-3.6	

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5K1301	Lab Sample ID:	B5K1301-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1380	83	20 - 160
N-Nitrosodimethylamine	1670	1560	94	20 - 160
Aniline	1670	1600	96	20 - 160
Phenol	1670	1690	101	20 - 160
bis(2-chloroethyl)ether	1670	1670	100	70 - 130
2-Chlorophenol	1670	1750	105	70 - 130
1,3-Dichlorobenzene	1670	1560	94	70 - 130
1,4-Dichlorobenzene	1670	1560	93	70 - 130
Benzyl alcohol	1670	1710	103	20 - 160
1,2-Dichlorobenzene	1670	1730	104	70 - 130
2-Methylphenol	1670	1580	95	20 - 160
bis(2-chloroisopropyl)ether	1670	1740	104	70 - 130
3 & 4-Methylphenol	1670	1700	102	20 - 160
N-Nitroso-di-n-propylamine	1670	1590	95	70 - 130
Hexachloroethane	1670	1560	94	20 - 160
Nitrobenzene	1670	1570	94	70 - 130
Isophorone	1670	1650	99	70 - 130
2-Nitrophenol	1670	1680	101	70 - 130
2,4-Dimethylphenol	1670	1540	93	70 - 130
bis(2-chloroethoxy)methane	1670	1550	93	70 - 130
2,4-Dichlorophenol	1670	1630	98	70 - 130
1,2,4-Trichlorobenzene	1670	1560	93	70 - 130
Naphthalene	1670	1490	90	70 - 130
4-Chloroaniline	1670	1100	66 *	70 - 130
Hexachlorobutadiene	1670	1480	89	70 - 130
4-Chloro-3-methylphenol	1670	1720	103	70 - 130
2-Methylnaphthylene	1670	1590	95	70 - 130
Hexachlorocyclopentadiene	1670	1540	93	20 - 160

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5K1301	Prep Method:	EPA 3550B GCMS
Percent Solids:	96.00	Laboratory ID:	B5K1301-MS1
		Client Sample ID:	1502033-01 - Batch QC

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Pyridine	1740	ND	974	56		20 - 160
N-Nitrosodimethylamine	1740	ND	932	54		20 - 160
Aniline	1740	ND	1290	75		20 - 160
Phenol	1740	ND	1400	81		20 - 160
bis(2-chloroethyl)ether	1740	ND	1320	76		70 - 130
2-Chlorophenol	1740	ND	1530	88		70 - 130
1,3-Dichlorobenzene	1740	ND	1480	85		70 - 130
1,4-Dichlorobenzene	1740	ND	1480	85		70 - 130
Benzyl alcohol	1740	ND	1340	77		20 - 160
1,2-Dichlorobenzene	1740	ND	1450	84		70 - 130
2-Methylphenol	1740	ND	1420	82		20 - 160
bis(2-chloroisopropyl)ether	1740	ND	1170	68	*	70 - 130
3 & 4-Methylphenol	1740	ND	1480	85		20 - 160
N-Nitroso-di-n-propylamine	1740	ND	1280	73		70 - 130
Hexachloroethane	1740	ND	819	47		20 - 160
Nitrobenzene	1740	ND	1320	76		70 - 130
Isophorone	1740	ND	1240	72		70 - 130
2-Nitrophenol	1740	ND	801	46	*	70 - 130
2,4-Dimethylphenol	1740	ND	1370	79		70 - 130
bis(2-chloroethoxy)methane	1740	ND	1340	77		70 - 130
2,4-Dichlorophenol	1740	ND	1450	83		70 - 130
1,2,4-Trichlorobenzene	1740	ND	1440	83		70 - 130
Naphthalene	1740	ND	1440	83		70 - 130
4-Chloroaniline	1740	ND	1070	61		20 - 160
Hexachlorobutadiene	1740	ND	1360	78		70 - 130
4-Chloro-3-methylphenol	1740	ND	1370	79		70 - 130
2-Methylnaphthylene	1740	ND	1360	78		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5K1301	Prep Method:	EPA 3550B GCMS
Percent Solids:	96.00	Laboratory ID:	B5K1301-MS1
		Client Sample ID:	1502033-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Hexachlorocyclopentadiene	1740	ND	ND	0	*	20 - 160
2,4,6-Trichlorophenol	1740	ND	1570	91		70 - 130
2,4,5-Trichlorophenol	1740	ND	1670	96		70 - 130
2-Chloronaphthalene	1740	ND	1590	92		70 - 130
2-Nitroaniline	1740	ND	1440	83		70 - 130
Dimethylphthalate	1740	ND	1500	86		70 - 130
Acenaphthylene	1740	ND	1460	84		70 - 130
3-Nitroaniline	1740	ND	1680	97		70 - 130
Acenaphthene	1740	ND	1420	82		70 - 130
2,4-Dinitrophenol	1740	ND	ND	0	*	20 - 160
4-Nitrophenol	1740	ND	785	45		20 - 160
Dibenzofuran	1740	ND	1450	83		70 - 130
2,6-Dinitrotoluene	1740	ND	1120	64	*	70 - 130
2,4-Dinitrotoluene	1740	ND	942	54	*	70 - 130
2,3,4,6-Tetrachlorophenol	1740	ND	1370	79		70 - 130
Diethyl phthalate	1740	ND	1370	79		70 - 130
4-Chlorophenyl-phenylether	1740	ND	1370	79		70 - 130
Fluorene	1740	ND	1390	80		70 - 130
4-Nitroaniline	1740	ND	1740	100		70 - 130
4,6-Dinitro-2-methylphenol	1740	ND	ND	0	*	70 - 130
Carbazole	1740	ND	1400	80		70 - 130
N-Nitrosodiphenylamine	1740	ND	2000	115		20 - 160
Azobenzene	1740	ND	1620	93		70 - 130
4-Bromophenyl-phenylether	1740	ND	1670	96		70 - 130
Hexachlorobenzene	1740	ND	1630	94		70 - 130
Pentachlorophenol	1740	ND	800	46		20 - 160
Phenanthrene	1740	59.7	1590	88		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5K1301	Prep Method:	EPA 3550B GCMS
Percent Solids:	96.00	Laboratory ID:	B5K1301-MS1
		Client Sample ID:	1502033-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Anthracene	1740	ND	1430	82		70 - 130
Di-n-butyl phthalate	1740	ND	1070	62	*	70 - 130
Fluoranthene	1740	162	1130	56	*	70 - 130
Pyrene	1740	477	3880	196	*	70 - 130
Butylbenzylphthalate	1740	ND	3730	215	*	70 - 130
Benzo[a]anthracene	1740	169	1630	84		70 - 130
bis(2-ethylhexyl)phthalate	1740	ND	3870	223	*	70 - 130
Chrysene	1740	203	1890	97		70 - 130
Di-n-octyl phthalate	1740	ND	7980	460	*	70 - 130
Benzo[b]fluoranthene	1740	253	2280	117		70 - 130
Benzo[k]fluoranthene	1740	218	2120	110		70 - 130
Benzo[a]pyrene	1740	206	1590	79		70 - 130
Indeno(1,2,3-cd)pyrene	1740	63.5	900	48	*	70 - 130
Dibenzo(a,h)anthracene	1740	ND	931	54	*	70 - 130
Benzo[ghi]perylene	1740	56.6	892	48	*	70 - 130

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5K1301	Prep Method:	EPA 3550B GCMS
Percent Solids:	96.00	Laboratory ID:	B5K1301-MSD1
		Client Sample ID:	1502033-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Pyridine	1740	975	56	0.1	30	20 - 160
N-Nitrosodimethylamine	1740	980	56	5	30	20 - 160
Aniline	1740	1200	69	7	30	20 - 160
Phenol	1740	1330	77	5	30	20 - 160
bis(2-chloroethyl)ether	1740	1260	73	5	30	70 - 130
2-Chlorophenol	1740	1400	81	9	30	70 - 130
1,3-Dichlorobenzene	1740	1400	80	6	30	70 - 130
1,4-Dichlorobenzene	1740	1400	81	5	30	70 - 130
Benzyl alcohol	1740	1280	74	4	30	20 - 160
1,2-Dichlorobenzene	1740	1390	80	5	30	70 - 130
2-Methylphenol	1740	1320	76	7	30	20 - 160
bis(2-chloroisopropyl)ether	1740	1110	64 *	5	30	70 - 130
3 & 4-Methylphenol	1740	1370	79	8	30	20 - 160
N-Nitroso-di-n-propylamine	1740	1200	69 *	6	30	70 - 130
Hexachloroethane	1740	956	55	15	30	20 - 160
Nitrobenzene	1740	1350	78	2	30	70 - 130
Isophorone	1740	1230	71	0.9	30	70 - 130
2-Nitrophenol	1740	1010	58 *	23	30	70 - 130
2,4-Dimethylphenol	1740	1320	76	3	30	70 - 130
bis(2-chloroethoxy)methane	1740	1340	77	0.4	30	70 - 130
2,4-Dichlorophenol	1740	1420	82	2	30	70 - 130
1,2,4-Trichlorobenzene	1740	1450	83	0.3	30	70 - 130
Naphthalene	1740	1400	80	3	30	70 - 130
4-Chloroaniline	1740	930	54	14	30	20 - 160
Hexachlorobutadiene	1740	1360	78	0.08	30	70 - 130
4-Chloro-3-methylphenol	1740	1240	71	11	30	70 - 130
2-Methylnaphthylene	1740	1300	75	5	30	70 - 130

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5K1301	Prep Method:	EPA 3550B GCMS
Percent Solids:	96.00	Laboratory ID:	B5K1301-MSD1
		Client Sample ID:	1502033-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Hexachlorocyclopentadiene	1740	90.3	5	*		30	20 - 160
2,4,6-Trichlorophenol	1740	1530	88		3	30	70 - 130
2,4,5-Trichlorophenol	1740	1560	90		7	30	70 - 130
2-Chloronaphthalene	1740	1570	90		2	30	70 - 130
2-Nitroaniline	1740	1340	77		7	30	70 - 130
Dimethylphthalate	1740	1450	84		3	30	70 - 130
Acenaphthylene	1740	1390	80		4	30	70 - 130
3-Nitroaniline	1740	1540	88		9	30	70 - 130
Acenaphthene	1740	1400	80		1	30	70 - 130
2,4-Dinitrophenol	1740	ND	0	*		30	20 - 160
4-Nitrophenol	1740	733	42		7	30	20 - 160
Dibenzofuran	1740	1380	80		5	30	70 - 130
2,6-Dinitrotoluene	1740	1140	66	*	2	30	70 - 130
2,4-Dinitrotoluene	1740	992	57	*	5	30	70 - 130
2,3,4,6-Tetrachlorophenol	1740	1260	72		9	30	70 - 130
Diethyl phthalate	1740	1320	76		4	30	70 - 130
4-Chlorophenyl-phenylether	1740	1310	76		4	30	70 - 130
Fluorene	1740	1310	75		6	30	70 - 130
4-Nitroaniline	1740	1450	84		18	30	70 - 130
4,6-Dinitro-2-methylphenol	1740	36.5	2	*		30	70 - 130
Carbazole	1740	1300	75		7	30	70 - 130
N-Nitrosodiphenylamine	1740	1910	110		5	30	20 - 160
Azobenzene	1740	1570	91		3	30	70 - 130
4-Bromophenyl-phenylether	1740	1580	91		6	30	70 - 130
Hexachlorobenzene	1740	1510	87		7	30	70 - 130
Pentachlorophenol	1740	711	41		12	30	20 - 160
Phenanthrene	1740	1510	84		5	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5K1301	Prep Method:	EPA 3550B GCMS
Percent Solids:	96.00	Laboratory ID:	B5K1301-MSD1
		Client Sample ID:	1502033-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Anthracene	1740	1360	79		4	30	70 - 130
Di-n-butyl phthalate	1740	986	57	*	8	30	70 - 130
Fluoranthene	1740	1060	52	*	6	30	70 - 130
Pyrene	1740	3750	189	*	3	30	70 - 130
Butylbenzylphthalate	1740	3250	187	*	14	30	70 - 130
Benzo[a]anthracene	1740	1610	83		1	30	70 - 130
bis(2-ethylhexyl)phthalate	1740	3390	196	*	13	30	70 - 130
Chrysene	1740	1840	94		2	30	70 - 130
Di-n-octyl phthalate	1740	6000	345	*	28	30	70 - 130
Benzo[b]fluoranthene	1740	2140	109		6	30	70 - 130
Benzo[k]fluoranthene	1740	2130	110		0.4	30	70 - 130
Benzo[a]pyrene	1740	1530	76		3	30	70 - 130
Indeno(1,2,3-cd)pyrene	1740	882	47	*	2	30	70 - 130
Dibenzo(a,h)anthracene	1740	838	48	*	11	30	70 - 130
Benzo[ghi]perylene	1740	782	42	*	13	30	70 - 130

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Sequence: S5K1308 Instrument: GC/MS B
Calibration: 15K1803

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-14 (1502031-01)			*Lab File ID: B2927.D*			*Analyzed: 11/14/15 01:44*			
1,4-Dichlorobenzene-d4	91187	10.28	123896	10.3	74	50 - 200	-0.0200	+/-0.50	
Naphthalene-d8	423090	13.47	580005	13.51	73	50 - 200	-0.0400	+/-0.50	
Acenaphthene-d10	234726	18	328903	18.04	71	50 - 200	-0.0400	+/-0.50	
Phenanthrene-d10	460663	21.75	667397	21.8	69	50 - 200	-0.0500	+/-0.50	
Chrysene-d12	483067	28.59	627844	28.65	77	50 - 200	-0.0600	+/-0.50	
Perylene-d12	418928	31.99	719833	32.05	58	50 - 200	-0.0600	+/-0.50	
EP-15 (1502031-02)			*Lab File ID: B2928.D*			*Analyzed: 11/14/15 02:29*			
1,4-Dichlorobenzene-d4	95196	10.28	123896	10.3	77	50 - 200	-0.0200	+/-0.50	
Naphthalene-d8	439731	13.47	580005	13.51	76	50 - 200	-0.0400	+/-0.50	
Acenaphthene-d10	242768	18	328903	18.04	74	50 - 200	-0.0400	+/-0.50	
Phenanthrene-d10	483654	21.76	667397	21.8	72	50 - 200	-0.0400	+/-0.50	
Chrysene-d12	494932	28.59	627844	28.65	79	50 - 200	-0.0600	+/-0.50	
Perylene-d12	377729	31.99	719833	32.05	52	50 - 200	-0.0600	+/-0.50	
EP-16 (1502031-03)			*Lab File ID: B2929.D*			*Analyzed: 11/14/15 03:14*			
1,4-Dichlorobenzene-d4	93208	10.28	123896	10.3	75	50 - 200	-0.0200	+/-0.50	
Naphthalene-d8	407915	13.48	580005	13.51	70	50 - 200	-0.0300	+/-0.50	
Acenaphthene-d10	240042	18.01	328903	18.04	73	50 - 200	-0.0300	+/-0.50	
Phenanthrene-d10	487129	21.76	667397	21.8	73	50 - 200	-0.0400	+/-0.50	
Chrysene-d12	496900	28.62	627844	28.65	79	50 - 200	-0.0300	+/-0.50	
Perylene-d12	335774	32.03	719833	32.05	47	50 - 200	-0.0200	+/-0.50	*

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : D:\B\DATA15\NOV15\E1113\B2915.D
Acq On : 13 Nov 2015 16:39
Sample : B5K1301-BS1
Misc : SOIL
MS Integration Params: rteint.p
Quant Time: Nov 16 11:23 2015

Vial: 1
Operator: JMM
Inst : GC/MS B
Multiplr: 1.00
Quant Results File: SVB81104.RES

Quant Method : D:\B\METHODS\SVB81104.M (RTE Integrator)
Title : SEMI-VOA TCL 8270 HP5972
Last Update : Thu Nov 05 14:39:29 2015
Response via : Initial Calibration
DataAcq Meth : SVB81104

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2,4-Dinitrophenol	18.33	184	113031	52.35 ul/l	95
51)	4-Nitrophenol	18.61	109	97389	57.26 ul/l	97
52)	Dibenzofuran	18.54	168	771114	48.14 ul/l	94
53)	2,6-Dinitrotoluene	17.75	165	173808	51.11 ul/l	98
54)	2,4-Dinitrotoluene	18.75	165	237288	52.87 ul/l	97
55)	2,3,4,6-Tetrachlorophenol	19.01	232	171241	51.08 ul/l	98
56)	Diethylphthalate	19.44	149	544083	42.19 ul/l	96
57)	4-Chlorophenyl-phenylether	19.48	204	267910	42.52 ul/l	97
58)	Fluorene	19.42	166	522145	42.59 ul/l	94
59)	4-Nitroaniline	19.72	138	213579	52.09 ul/l	95
62)	4,6-Dinitro-2-methylphenol	19.81	198	156064	52.97 ul/l	89
63)	Carbazole	22.44	167	963100	47.72 ul/l	99
64)	n-Nitrosodiphenylamine	19.85	169	506000	42.67 ul/l	89
65)	1,2-Diphenylhydrazine	19.89	77	816877	45.18 ul/l	93
66)	Azobenzene	19.89	77	816877	45.18 ul/l	93
67)	4-Bromophenyl-phenylether	20.71	248	170638	45.29 ul/l	98
69)	Hexachlorobenzene	21.05	284	208596	44.68 ul/l	96
70)	Pentachlorophenol	21.54	266	146558	49.00 ul/l	99
71)	Phenanthrene	21.87	178	924431	45.00 ul/l	99
72)	Anthracene	21.99	178	907145	44.28 ul/l	98
73)	Di-n-butylphthalate	23.58	149	1251579	46.12 ul/l	99
74)	Fluoranthene	24.93	202	1044703	47.61 ul/l	87
77)	Pyrene	25.49	202	1092151	43.11 ul/l	90
79)	Butylbenzylphthalate	27.38	149	620058	44.29 ul/l	97
81)	Benzo[a]anthracene	28.58	228	1074575	46.17 ul/l	99
82)	bis(2-Ethylhexyl)phthalate	28.95	149	837830	42.50 ul/l	91
83)	Chrysene	28.73	228	931089	43.35 ul/l	99
85)	Di-n-octylphthalate	30.44	149	1542739	49.62 ul/l	100
86)	Benzo[b]fluoranthene	31.21	252	1127138	53.10 ul/l	97
87)	Benzo[k]fluoranthene	31.29	252	918469	45.32 ul/l	97
88)	Benzo[a]pyrene	31.93	252	1054699	52.16 ul/l	97
89)	Indeno[1,2,3-cd]pyrene	34.29	276	1141659	49.93 ul/l	95
90)	Dibenz[a,h]anthracene	34.33	278	941733	48.41 ul/l	97
91)	Benzo[g,h,i]perylene	34.87	276	941919	48.51 ul/l	98

perylene-d12

(#) = qualifier out of range (m) = manual integration

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INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Calibration:	15J2801	Instrument:	GC/MS F
		Calibration Date:	10/14/2015 11:58:45AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	1.046911	9.03924		
4-Chloroaniline	0.4698055	3.957397		
Hexachlorobutadiene	0.1760276	3.718634	CCC (20)	
Caprolactam	0.1626493	9.438644		
4-Chloro-3-methylphenol	0.3365877	3.635553	CCC (20)	
2-Methylnaphthylene	0.697018	10.32335		
1,2,4,5-Tetrachlorobenzene	0.7846604	3.175806		
Hexachlorocyclopentadiene	0.2698404	26.71039	SPCC (0.05)	
2,4,6-Trichlorophenol	0.4396401	4.809339	CCC (20)	
2,4,5-Trichlorophenol	0.4343777	8.465463		
2-Chloronaphthalene	1.273224	9.135137		
1,1-Biphenyl	1.901611	12.61078		
2-Nitroaniline	0.4465861	3.27539		
Dimethylphthalate	1.571915	10.43119		
Acenaphthylene	2.112104	11.76371		
3-Nitroaniline	0.4648623	4.743253		
Acenaphthene	1.258578	11.18945	CCC (20)	
2,4-Dinitrophenol	0.1670239	68.69134	SPCC (0.05)	
4-Nitrophenol	0.1289473	34.71536	SPCC (0.05)	
Dibenzofuran	1.850723	7.017351		
2,6-Dinitrotoluene	0.4220418	4.567939		
2,4-Dinitrotoluene	0.5799641	3.417658		
2,3,4,6-Tetrachlorophenol	0.3782584	6.204434		
Diethyl phthalate	1.650577	14.88571		
4-Chlorophenyl-phenylether	0.6605373	9.298071		

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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1502031		
Project:	138th Street, Bronx, NY; 10BR188		
Instrument ID:	GC/MS F	Calibration:	15J2801
Lab File ID:	F12227.D	Calibration Date:	10/14/15 11:58
Sequence:	S5K1307	Injection Date:	11/13/15
Lab Sample ID:	S5K1307-CCV1	Injection Time:	13:24

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.0	51.2	0.3034206	0.3108435		2.4	20
1,2,4-Trichlorobenzene	A	50.0	49.8	0.3152609	0.3142394		-0.3	
Naphthalene	A	50.0	48.6	1.046911	1.016873		-2.9	
4-Chloroaniline	A	50.0	52.5	0.4698055	0.4936886		5.1	
Hexachlorobutadiene	A	50.0	47.6	0.1760276	0.1674627		-4.9	20
Caprolactam	A	50.0	47.2	0.1626493	0.1536029		-5.6	
4-Chloro-3-methylphenol	A	50.0	50.0	0.3365877	0.3367817		0.06	20
2-Methylnaphthylene	A	50.0	49.4	0.697018	0.6887716		-1.2	
1,2,4,5-Tetrachlorobenzene	A	50.0	38.9	0.7846604	0.6102237		-22.2	
Hexachlorocyclopentadiene	L	50.0	44.0	0.2698404	0.2906195	0.05	7.7	
2,4,6-Trichlorophenol	A	50.0	51.6	0.4396401	0.4539921		3.3	20
2,4,5-Trichlorophenol	A	50.0	53.5	0.4343777	0.4646402		7.0	
2-Chloronaphthalene	A	50.0	48.2	1.273224	1.22614		-3.7	
1,1-Biphenyl	A	50.0	38.1	1.901611	1.448351		-23.8	
2-Nitroaniline	A	50.0	47.1	0.4465861	0.4207287		-5.8	
Dimethylphthalate	A	50.0	48.7	1.571915	1.531387		-2.6	
Acenaphthylene	A	50.0	46.4	2.112104	1.961567		-7.1	
3-Nitroaniline	A	50.0	51.8	0.4648623	0.4816328		3.6	
Acenaphthene	A	50.0	46.3	1.258578	1.16479		-7.5	20
2,4-Dinitrophenol	L	50.0	47.6	0.1670239	0.2576149	0.05	54.2	
4-Nitrophenol	L	50.0	43.5	0.1289473	0.1430273	0.05	10.9	
Dibenzofuran	A	50.0	49.0	1.850723	1.814557		-2.0	
2,6-Dinitrotoluene	A	50.0	51.9	0.4220418	0.4380424		3.8	

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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1502031		
Project:	138th Street, Bronx, NY; 10BR188		
Instrument ID:	GC/MS B	Calibration:	15K1803
Lab File ID:	B2914.D	Calibration Date:	11/04/15 12:55
Sequence:	S5K1308	Injection Date:	11/13/15
Lab Sample ID:	S5K1308-CCV1	Injection Time:	15:53

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.0	52.3	0.2881979	0.3016677		4.7	20
1,2,4-Trichlorobenzene	A	50.0	49.5	0.3062515	0.3030788		-1.0	
Naphthalene	A	50.0	48.9	0.9573403	0.9363064		-2.2	
4-Chloroaniline	A	50.0	52.5	0.4667377	0.4897972		4.9	
Hexachlorobutadiene	A	50.0	49.0	0.1489691	0.1459725		-2.0	20
Caprolactam	A	50.0	55.2	0.13773	0.1520677		10.4	
4-Chloro-3-methylphenol	A	50.0	56.1	0.3071054	0.3446343		12.2	20
2-Methylnaphthylene	A	50.0	51.6	0.6627595	0.6844782		3.3	
1,2,4,5-Tetrachlorobenzene	A	50.0	48.0	0.550364	0.5282506		-4.0	
Hexachlorocyclopentadiene	A	50.0	51.3	0.3131763	0.3211768	0.05	2.6	
2,4,6-Trichlorophenol	A	50.0	52.1	0.3956274	0.412085		4.2	20
2,4,5-Trichlorophenol	A	50.0	53.0	0.4086487	0.4335576		6.1	
2-Chloronaphthalene	A	50.0	46.5	1.114826	1.037736		-6.9	
1,1-Biphenyl	Q	50.0	45.7	1.31873	1.210643		-8.2	
2-Nitroaniline	A	50.0	53.7	0.437682	0.4698577		7.4	
Dimethylphthalate	A	50.0	52.3	1.303818	1.362841		4.5	
Acenaphthylene	A	50.0	51.3	1.849918	1.898894		2.6	
3-Nitroaniline	A	50.0	54.1	0.4385077	0.4748148		8.3	
Acenaphthene	A	50.0	50.8	1.216976	1.235445		1.5	20
2,4-Dinitrophenol	L	50.0	54.0	0.1730911	0.2456968	0.05	41.9	
4-Nitrophenol	A	50.0	61.0	0.1785295	0.2178661	0.05	22.0	
Dibenzofuran	A	50.0	51.4	1.68123	1.728354		2.8	
2,6-Dinitrotoluene	A	50.0	54.3	0.3569674	0.3879101		8.7	

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5K1115	Preparation:	EPA 3050B
% Solids:	96.00	Laboratory ID:	B5K1115-MS1
		Client Sample ID:	1502033-01

ANALYTE	SPIKE ADDED (mg/kg dry)		SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)		MS % REC.		QC LIMITS REC.
Aluminum	260	**	6120	8270	*	822	*	75 - 125
Antimony	260		ND	257		98.8		75 - 125
Arsenic	260		6.07	268		101		75 - 125
Barium	260		61.7	328		102		75 - 125
Beryllium	260		ND	255		97.8		75 - 125
Cadmium	260		ND	242		93.1		75 - 125
Calcium	260	**	21300	21000	*	-114	*	75 - 125
Chromium	260		41.1	330		111		75 - 125
Cobalt	260		11.8	245		89.4		75 - 125
Copper	260		42.9	303		100		75 - 125
Iron	260	**	19600	22000	*	926	*	75 - 125
Lead	260		66.4	305		91.5		75 - 125
Magnesium	260	**	14100	15700	*	608	*	75 - 125
Manganese	260		426	655		87.7		75 - 125
Nickel	260		119	364		93.8		75 - 125
Potassium	260	**	1370	2190	*	314	*	75 - 125
Selenium	260		ND	242		93.0		75 - 125
Silver	26.0		ND	25.1		96.3		75 - 125
Sodium	260		216	496		108		75 - 125
Thallium	260		ND	217		83.5		75 - 125
Vanadium	260		24.1	284		100		75 - 125
Zinc	260		70.3	305		90.1		75 - 125

** Spiked too Low

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502031
Project: 138th Street, Bronx, NY; 10BR188

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5K1115	Preparation:	EPA 3050B
% Solids:	96.00	Laboratory ID:	B5K1115-MSD1
		Client Sample ID:	1502033-01

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Aluminum	260 **	8350	854	*	1.00	20	75 - 125
Antimony	260	254	97.5		1.30	20	75 - 125
Arsenic	260	265	99.3		1.37	20	75 - 125
Barium	260	327	102		0.254	20	75 - 125
Beryllium	260	251	96.5		1.28	20	75 - 125
Cadmium	260	239	91.7		1.47	20	75 - 125
Calcium	260 **	22200	344	*	5.52	20	75 - 125
Chromium	260	295	97.6		11.0	20	75 - 125
Cobalt	260	241	88.0		1.52	20	75 - 125
Copper	260	300	98.9		0.932	20	75 - 125
Iron	260 **	20800	488	*	5.33	20	75 - 125
Lead	260	296	88.2		2.84	20	75 - 125
Magnesium	260 **	16500	892	*	4.60	20	75 - 125
Manganese	260	692	102		5.49	20	75 - 125
Nickel	260	356	90.7		2.24	20	75 - 125
Potassium	260 **	2300	355	*	4.76	20	75 - 125
Selenium	260	239	92.0		1.12	20	75 - 125
Silver	26.0	25.3	97.3		1.01	20	75 - 125
Sodium	260	501	110		1.02	20	75 - 125
Thallium	260	213	82.0		1.84	20	75 - 125
Vanadium	260	280	98.3		1.59	20	75 - 125
Zinc	260	301	88.5		1.31	20	75 - 125

** spiked too low

* Values outside of QC limits

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1502101

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1502101

The data associated with this Sample Delivery Group (SDG) 1502101, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. P Date: 10/25/16

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx , NY
SAMPLING DATE:	November 17, 2015
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1502101

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on November 17, 2015. These samples were analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1502101. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1502101, one sample was analyzed and results were reported for 190 analytes. Even though some results were flagged with a "J", all results (100 %) are considered usable. See the summary table for the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-17	Acetone Dichlorodifluoromethane Methylene Chloride DBCP	J detects	ICV RPD > 20 %	Sample detects are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-17	1,3-Dichlorobenzene 1,2,4-Trichlorobenzene 4-Chloroaniline	"UJ"	LCS < 70 % QC limit	All samples non-detect
EP-17	2,4-Dinitrophenol	UJ non-detects J detects	CCV > 40 %	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-6 Total Cyanide

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: E. 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1502101

Client Sample ID:	Lab Sample ID:
EP-17	1502101-01

This data has been reviewed and accepted by:

Daniel Miguel 12/21/2015
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: E. 138th Street, Bronx, NY; 10BR188) on 11/18/2015 4:10:00 PM.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Percent Solids by SM 2540 G
Total Cyanide by EPA 9010C & EPA 9014

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	E 138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm + Sean Harrison
EMAIL FOR INVOICE:	dharm@brink.env + sharrison@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502101
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-17	11/17/15/11:50	S		4	G			-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. (OTHER) 1 week (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ (FULL) X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B data deliverable. Please complete hardcopy report by November 25th, 2015.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: [illegible]	Print Name: [illegible]	Print Name: K. Muniz
Signature: Monica Norton	Signature: [illegible]	Signature: [illegible]	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 11/18/15	Time: 12:20	Date Received: 11/18/15	Time: 1610
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-17
Lab Sample ID: 1502101-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502101

Date Sampled:	11/17/15 11:50	Prep Date:	11/25/15 13:31	Matrix:	Soil
Percent Solids:	53.00	Prep Method:	EPA 5035A	File ID:	D13215.D
Prep Batch:	B5K2512	Sequence:	S5K2505	Analyzed:	11/25/15 13:31
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	25.0	41.7	U
107-13-1	Acrylonitrile	ND	8.35	41.7	U
67-64-1	Acetone	73.0 J	4.17	8.35	
75-71-8	Dichlorodifluoromethane	ND	4.17	8.35	U
74-87-3	Chloromethane	ND	4.17	8.35	U
75-01-4	Vinyl chloride	ND	4.17	8.35	U
74-83-9	Bromomethane	ND	4.17	8.35	U
75-00-3	Chloroethane	ND	4.17	8.35	U
75-69-4	Trichlorofluoromethane	ND	4.17	8.35	U
75-35-4	1,1-Dichloroethene	ND	4.17	8.35	U
75-15-0	Carbon disulfide	ND	4.17	8.35	U
75-09-2	Methylene Chloride	6.26	4.17	8.35	J
156-60-5	trans-1,2-Dichloroethene	ND	4.17	8.35	U
75-34-3	1,1-Dichloroethane	ND	4.17	8.35	U
108-05-4	Vinyl acetate	ND	4.17	8.35	U
590-20-7	2,2-Dichloropropane	ND	4.17	8.35	U
78-93-3	2-Butanone	ND	4.17	8.35	U
156-59-4	cis-1,2-Dichloroethene	ND	4.17	8.35	U
67-66-3	Chloroform	ND	4.17	8.35	U
74-97-5	Bromochloromethane	ND	4.17	8.35	U
71-55-6	1,1,1-Trichloroethane	ND	4.17	8.35	U
563-58-6	1,1-Dichloropropene	ND	4.17	8.35	U
56-23-5	Carbon Tetrachloride	ND	4.17	8.35	U
107-06-2	1,2-Dichloroethane	ND	4.17	8.35	U
71-43-2	Benzene	ND	4.17	8.35	U

 MKP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-17
Lab Sample ID: 1502101-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502101

Date Sampled:	11/17/15 11:50	Prep Date:	11/25/15 13:31	Matrix:	Soil
Percent Solids:	53.00	Prep Method:	EPA 5035A	File ID:	D13215.D
Prep Batch:	B5K2512	Sequence:	S5K2505	Analyzed:	11/25/15 13:31
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	4.17	8.35	U
78-87-5	1,2-Dichloropropane	ND	4.17	8.35	U
75-27-4	Bromodichloromethane	ND	4.17	8.35	U
74-95-3	Dibromomethane	ND	4.17	8.35	U
110-75-8	2-Chloroethyl vinyl ether	ND	4.17	8.35	U
10061-01-5	cis-1,3-Dichloropropene	ND	4.17	8.35	U
108-88-3	Toluene	ND	4.17	8.35	U
10061-02-6	trans-1,3-Dichloropropene	ND	4.17	8.35	U
79-00-5	1,1,2-Trichloroethane	ND	4.17	8.35	U
108-10-1	4-Methyl-2-pentanone	ND	4.17	8.35	U
106-93-4	1,2-Dibromoethane	ND	4.17	8.35	U
591-78-6	2-Hexanone	ND	4.17	8.35	U
142-28-9	1,3-Dichloropropane	ND	4.17	8.35	U
127-18-4	Tetrachloroethene	ND	4.17	8.35	U
124-48-1	Dibromochloromethane	ND	4.17	8.35	U
100-41-4	Ethylbenzene	ND	4.17	8.35	U
108-90-7	Chlorobenzene	ND	4.17	8.35	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.17	8.35	U
108-38-3/106-42	m,p-Xylenes	ND	8.35	16.7	U
95-47-6	o-Xylene	ND	8.35	16.7	U
100-42-5	Styrene	ND	4.17	16.7	U
75-25-2	Bromoform	ND	4.17	8.35	U
98-82-8	Isopropylbenzene	ND	4.17	8.35	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.17	8.35	U
96-18-4	1,2,3-Trichloropropane	ND	4.17	8.35	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-17
Lab Sample ID: 1502101-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502101

Date Sampled:	11/17/15 11:50	Prep Date:	11/25/15 13:31	Matrix:	Soil
Percent Solids:	53.00	Prep Method:	EPA 5035A	File ID:	D13215.D
Prep Batch:	B5K2512	Sequence:	S5K2505	Analyzed:	11/25/15 13:31
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	4.17	8.35	U
108-86-1	Bromobenzene	ND	4.17	8.35	U
108-67-8	1,3,5-Trimethylbenzene	ND	4.17	8.35	U
95-49-8	2-Chlorotoluene	ND	4.17	8.35	U
106-43-4	4-Chlorotoluene	ND	4.17	8.35	U
98-06-6	tert-Butylbenzene	ND	4.17	8.35	U
95-63-6	1,2,4-Trimethylbenzene	6.72	4.17	8.35	J
135-98-8	sec-Butylbenzene	ND	4.17	8.35	U
99-87-6	p-Isopropyltoluene	ND	4.17	8.35	U
541-73-1	1,3-Dichlorobenzene	ND	4.17	8.35	U
106-46-7	1,4-Dichlorobenzene	ND	4.17	8.35	U
104-51-8	n-Butyl Benzene	ND	4.17	8.35	U
95-50-1	1,2-Dichlorobenzene	ND	4.17	8.35	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.17	8.35	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.17	8.35	U
87-68-3	Hexachlorobutadiene	ND	4.17	8.35	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.17	8.35	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	119%	70-130
Toluene-d8	109%	70-130
Bromofluorobenzene	98%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-17
Lab Sample ID: 1502101-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502101

Date Sampled:	11/17/15 11:50	Prep Date:	11/23/15 07:36	Matrix:	Soil
Percent Solids:	53.00	Prep Method:	EPA 3550B GCMS	File ID:	B3022.D
Prep Batch:	B5K2304	Sequence:	S5K2312	Analyzed:	11/23/15 20:36
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	62.8	315	U
108-95-2	Phenol	ND	62.8	315	U
111-44-4	bis(2-chloroethyl)ether	ND	62.8	315	U
95-57-8	2-Chlorophenol	ND	62.8	315	U
541-73-1	1,3-Dichlorobenzene	ND UJ	62.8	315	U
106-46-7	1,4-Dichlorobenzene	ND	62.8	315	U
100-51-6	Benzyl alcohol	ND	62.8	315	U
95-50-1	1,2-Dichlorobenzene	ND	62.8	315	U
95-48-7	2-Methylphenol	ND	62.8	315	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	62.8	315	U
106-44-5	3 & 4-Methylphenol	ND	62.8	315	U
621-64-7	N-Nitroso-di-n-propylamine	ND	62.8	315	U
67-72-1	Hexachloroethane	ND	62.8	315	U
98-95-3	Nitrobenzene	ND	62.8	315	U
78-59-1	Isophorone	ND	62.8	315	U
88-75-5	2-Nitrophenol	ND	62.8	315	U
105-67-9	2,4-Dimethylphenol	ND	62.8	315	U
65-85-0	Benzoic acid	314	157	628	J
111-91-1	bis(2-chloroethoxy)methane	ND	62.8	315	U
120-83-2	2,4-Dichlorophenol	ND	62.8	315	U
120-82-1	1,2,4-Trichlorobenzene	ND UJ	62.8	315	U
91-20-3	Naphthalene	132	62.8	315	J
106-47-8	4-Chloroaniline	ND UJ	62.8	315	U
87-68-3	Hexachlorobutadiene	ND	62.8	315	U
59-50-7	4-Chloro-3-methylphenol	ND	62.8	315	U

MKP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-17
Lab Sample ID: 1502101-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502101

Date Sampled:	11/17/15 11:50	Prep Date:	11/23/15 07:36	Matrix:	Soil
Percent Solids:	53.00	Prep Method:	EPA 3550B GCMS	File ID:	B3022.D
Prep Batch:	B5K2304	Sequence:	S5K2312	Analyzed:	11/23/15 20:36
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	62.8	315	U
77-47-4	Hexachlorocyclopentadiene	ND	62.8	315	U
88-06-2	2,4,6-Trichlorophenol	ND	62.8	315	U
95-95-4	2,4,5-Trichlorophenol	ND	62.8	315	U
91-58-7	2-Chloronaphthalene	ND	62.8	315	U
88-74-4	2-Nitroaniline	ND	62.8	315	U
131-11-3	Dimethylphthalate	ND	62.8	315	U
208-96-8	Acenaphthylene	ND	62.8	315	U
99-09-2	3-Nitroaniline	ND	62.8	315	U
83-32-9	Acenaphthene	112	62.8	315	J
51-28-5	2,4-Dinitrophenol	ND UJ	62.8	628	U
100-02-7	4-Nitrophenol	ND	62.8	315	U
132-64-9	Dibenzofuran	ND	62.8	315	U
606-20-2	2,6-Dinitrotoluene	ND	62.8	315	U
121-14-2	2,4-Dinitrotoluene	ND	62.8	315	U
84-66-2	Diethyl phthalate	ND	62.8	315	U
7005-72-3	4-Chlorophenyl-phenylether	ND	62.8	315	U
86-73-7	Fluorene	91.4	62.8	315	J
100-01-6	4-Nitroaniline	ND	62.8	315	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	62.8	315	U
86-30-6	N-Nitrosodiphenylamine	ND	62.8	315	U
101-55-3	4-Bromophenyl-phenylether	ND	62.8	315	U
118-74-1	Hexachlorobenzene	ND	62.8	315	U
87-86-5	Pentachlorophenol	ND	62.8	315	U
85-01-8	Phenanthrene	438	62.8	315	

MKP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-17
Lab Sample ID: 1502101-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502101

Date Sampled:	11/17/15 11:50	Prep Date:	11/23/15 07:36	Matrix:	Soil
Percent Solids:	53.00	Prep Method:	EPA 3550B GCMS	File ID:	B3022.D
Prep Batch:	B5K2304	Sequence:	S5K2312	Analyzed:	11/23/15 20:36
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	106	62.8	315	J
84-74-2	Di-n-butyl phthalate	ND	62.8	315	U
206-44-0	Fluoranthene	580	62.8	315	
129-00-0	Pyrene	431	62.8	315	
85-68-7	Butylbenzylphthalate	ND	62.8	315	U
91-94-1	3,3'-Dichlorobenzidine	ND	157	315	U
56-55-3	Benzo[a]anthracene	231	62.8	315	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	62.8	315	U
218-01-9	Chrysene	239	62.8	315	J
117-84-0	Di-n-octyl phthalate	ND	62.8	315	U
205-99-2	Benzo[b]fluoranthene	224	62.8	315	J
207-08-9	Benzo[k]fluoranthene	201	62.8	315	J
50-32-8	Benzo[a]pyrene	247	62.8	315	J
193-39-5	Indeno(1,2,3-cd)pyrene	132	62.8	315	J
53-70-3	Dibenzo(a,h)anthracene	70.0	62.8	315	J
191-24-2	Benzo[ghi]perylene	130	62.8	315	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	70%	30-130
Phenol-d5	85%	30-130
Nitrobenzene-d5	66%	30-130
2-Fluorobiphenyl	62%	30-130
2,4,6-Tribromophenol	100%	30-130
Terphenyl-d14	63%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-17
Lab Sample ID: 1502101-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502101

Date Sampled:	11/17/15 11:50	Prep Date:	11/19/15 12:05	Matrix:	Soil
Percent Solids:	53.00	Prep Method:	EPA 3550B	File ID:	A20657.D
Prep Batch:	B5K1901	Sequence:	S5K2003	Analyzed:	11/20/15 23:45
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	1.25	1.25	U
319-85-7	beta-BHC	ND	1.25	1.25	U
319-86-8	delta-BHC	ND	1.25	1.25	U
58-89-9	gamma-BHC [Lindane]	ND	1.25	1.25	U
76-44-8	Heptachlor	ND	1.25	1.25	U
309-00-2	Aldrin	ND	1.25	1.25	U
1024-57-3	Heptachlor Epoxide	ND	1.25	1.25	U
959-98-8	Endosulfan I	ND	1.25	1.25	U
60-57-1	Dieldrin	ND	2.51	2.51	U
72-55-9	4,4'-DDE	ND	2.51	2.51	U
72-20-8	Endrin	ND	2.51	2.51	U
33213-65-9	Endosulfan II	ND	2.51	2.51	U
72-54-8	4,4'-DDD	ND	2.51	2.51	U
1031-07-8	Endosulfan sulfate	ND	2.51	2.51	U
50-29-3	4,4'-DDT	ND	2.51	2.51	U
72-43-5	Methoxychlor	ND	12.6	12.6	U
53494-70-5	Endrin ketone	ND	2.51	2.51	U
7421-93-4	Endrin aldehyde	ND	2.51	2.51	U
5103-71-9	alpha-Chlordane	ND	1.25	1.25	U
5566-34-7	gamma-Chlordane	ND	1.25	1.25	U
8001-35-2	Toxaphene	ND	62.8	62.8	U
12674-11-2	Aroclor-1016	ND	31.3	62.8	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-17
Lab Sample ID: 1502101-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502101

Date Sampled:	11/17/15 11:50	Prep Date:	11/19/15 12:05	Matrix:	Soil
Percent Solids:	53.00	Prep Method:	EPA 3550B	File ID:	A20657.D
Prep Batch:	B5K1901	Sequence:	S5K2003	Analyzed:	11/20/15 23:45
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	31.3	62.8	U
11141-16-5	Aroclor-1232	ND	31.3	62.8	U
53469-21-9	Aroclor-1242	ND	31.3	62.8	U
12672-29-6	Aroclor-1248	ND	31.3	62.8	U
11097-69-1	Aroclor-1254	ND	31.3	62.8	U
11096-82-5	Aroclor-1260	ND	31.3	62.8	U
37324-23-5	Aroclor-1262	ND	31.3	62.8	U
11100-14-4	Aroclor-1268	ND	31.3	62.8	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	78.8%	30-150
Tetrachloro-m-xylene [2C]	85.4%	30-150
Decachlorobiphenyl	74.3%	30-150
Decachlorobiphenyl [2C]	82.6%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-17
Lab Sample ID: 1502101-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502101

Date Sampled:	11/17/15 11:50	Matrix:	Soil
Percent Solids:	53.00	File ID:	111915D-029

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	8580	37.7	37.7	1		11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7439-97-6	Mercury	ND	0.142	0.142	1	U	11/23/15 09:25	EPA 7471A	11/23/15 15:52 PRT	EPA 7471
7440-36-0	Antimony	ND	7.55	7.55	1	U	11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7440-38-2	Arsenic	3.28	1.89	1.89	1		11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7440-39-3	Barium	60.1	37.7	37.7	1		11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.943	0.943	1	U	11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.943	0.943	1	U	11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7440-70-2	Calcium	10200	47.2	47.2	1		11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7440-47-3	Chromium	15.0	3.77	3.77	1		11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7440-48-4	Cobalt	ND	9.43	9.43	1	U	11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7440-50-8	Copper	21.7	5.66	5.66	1		11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7439-89-6	Iron	19200	47.2	47.2	1		11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7439-92-1	Lead	39.2	1.89	1.89	1		11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7439-95-4	Magnesium	7530	94.3	94.3	1		11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7439-96-5	Manganese	234	3.77	3.77	1		11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7440-02-0	Nickel	13.2	7.55	7.55	1		11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7440-09-7	Potassium	1190	94.3	94.3	1		11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7782-49-2	Selenium	ND	7.55	7.55	1	U	11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7440-22-4	Silver	ND	0.943	0.943	1	U	11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7440-23-5	Sodium	1140	94.3	94.3	1		11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7440-28-0	Thallium	ND	2.83	5.66	1	U	11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7440-62-2	Vanadium	20.7	9.43	9.43	1		11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010
7440-66-6	Zinc	55.7	11.3	11.3	1		11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-17
Lab Sample ID: 1502101-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502101

Date Sampled:	11/17/15 11:50	Matrix:	Soil
Percent Solids:	53.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Cyanide (total)	ND	1.89	1.89	1	U	11/23/15 08:59	EPA 9010C	11/23/15 15:30 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	53.0	0.100	0.100	1		11/23/15 10:00	Percent Solids	11/24/15 09:30 CLD	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502101
Project: E. 138th Street, Bronx, NY; 10BR188

Calibration:	15L0202	Instrument:	GC/MS D
		Calibration Date:	11/13/2015 3:00:45PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	1.181812E-02	17.38443		
Acrylonitrile	8.561063E-02	7.584766		
Acetone	0.1170496	66.21322		
Dichlorodifluoromethane	0.2587039	21.23215		
Chloromethane	0.7905557	13.03528	SPCC (0.1)	
Vinyl chloride	0.9053119	11.39674	CCC (20)	
Bromomethane	0.6143821	13.58003		
Chloroethane	0.9100049	10.42609		
Trichlorofluoromethane	0.7991684	11.47453		
Freon 113	0.7178217	9.474922		
1,1-Dichloroethene	1.056305	9.439874	CCC (20)	
Carbon disulfide	1.839929	10.20064		
Methyl Acetate	0.2450891	12.84099		
Methylene Chloride	0.9668761	39.58532		
trans-1,2-Dichloroethene	0.8601373	7.699565		
1,1-Dichloroethane	1.087945	7.363057	SPCC (0.1)	
Vinyl acetate	0.741366	6.464946		
2,2-Dichloropropane	0.7225349	6.230461		
2-Butanone	0.1453586	9.182834		
cis-1,2-Dichloroethene	0.777772	7.865124		
Chloroform	0.7481054	6.471717	CCC (20)	
Bromochloromethane	0.2820551	7.824594		
Cyclohexane	1.339871	8.271247		
1,1,1-Trichloroethane	0.5785336	6.305736		
t-Butyl alcohol	2.162169E-02	13.27505		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502101
Project: E. 138th Street, Bronx, NY; 10BR188

Calibration:	15L0202	Instrument:	GC/MS D
		Calibration Date:	11/13/2015 3:00:45PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
1,1-Dichloropropene	0.1560822	3.255254		
Carbon Tetrachloride	0.2967813	4.078829		
1,2-Dichloroethane	0.2186538	3.997793		
Benzene	1.236865	4.778068		
Trichloroethene	0.2775292	5.934595		
Methylcyclohexane	0.6052219	6.160275		
1,2-Dichloropropane	0.3193203	5.11783	CCC (20)	
1,4-Dioxane	1.232455E-03	12.96952		
Bromodichloromethane	0.2585855	9.027691		
Dibromomethane	0.1152608	6.647037		
2-Chloroethyl vinyl ether	0.1256221	13.92716		
cis-1,3-Dichloropropene	0.3965805	4.425641		
Toluene	1.14699	5.632547	CCC (20)	
trans-1,3-Dichloropropene	0.2871999	3.486732		
1,1,2-Trichloroethane	0.1542789	5.70911		
4-Methyl-2-pentanone	0.160455	5.777099		
1,2-Dibromoethane	0.148165	9.286958		
2-Hexanone	0.1482839	4.753436		
1,3-Dichloropropane	0.3943759	6.535969		
Tetrachloroethene	0.3877077	5.600024		
Dibromochloromethane	0.2315586	5.093483		
Ethylbenzene	1.577123	6.725682	CCC (20)	
Chlorobenzene	0.9172502	5.31409	SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.2643184	6.864945		
m,p-Xylenes	1.141003	7.096718		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502101
Project: E. 138th Street, Bronx, NY; 10BR188

Calibration:	15L0202	Instrument:	GC/MS D
		Calibration Date:	11/13/2015 3:00:45PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
o-Xylene	1.119356	7.104468		
Styrene	0.9378424	4.571453		
Bromoform	0.1073502	14.91122	SPCC (0.1)	
Isopropylbenzene	3.84506	9.874887		
1,1,2,2-Tetrachloroethane	0.5025223	8.244776	SPCC (0.3)	
1,2,3-Trichloropropane	0.3772226	10.8098		
n-Propyl Benzene	4.604026	9.056089		
Bromobenzene	1.200315	8.830797		
1,3,5-Trimethylbenzene	2.77463	9.110683		
2-Chlorotoluene	2.316807	10.75081		
4-Chlorotoluene	2.313585	9.076129		
tert-Butylbenzene	2.724505	8.070875		
1,2,4-Trimethylbenzene	2.739818	9.992465		
sec-Butylbenzene	4.146891	8.333929		
p-Isopropyltoluene	3.473529	7.481644		
1,3-Dichlorobenzene	1.54165	7.5502		
1,4-Dichlorobenzene	1.496766	7.062437		
n-Butyl Benzene	3.230421	8.632324		
1,2-Dichlorobenzene	1.254937	6.727284		
1,2-Dibromo-3-chloropropane	6.720871E-02	20.71554		
1,2,4-Trichlorobenzene	0.717507	4.373142		
Hexachlorobutadiene	0.402549	5.615947		
Naphthalene	1.245898	4.901948		
1,2,3-Trichlorobenzene	0.5510854	10.70594		
Methyl tert-Butyl Ether	1.543463	12.0515		

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502101

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5K2304	Lab Sample ID:	B5K2304-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	917	55	20 - 160
N-Nitrosodimethylamine	1670	1090	65	20 - 160
Aniline	1670	1120	67	20 - 160
Phenol	1670	1290	77	20 - 160
bis(2-chloroethyl)ether	1670	1220	73	70 - 130
2-Chlorophenol	1670	1280	77	70 - 130
1,3-Dichlorobenzene	1670	1130	68 *	70 - 130
1,4-Dichlorobenzene	1670	1160	70	70 - 130
Benzyl alcohol	1670	1300	78	20 - 160
1,2-Dichlorobenzene	1670	1290	78	70 - 130
2-Methylphenol	1670	1300	78	20 - 160
bis(2-chloroisopropyl)ether	1670	1570	94	70 - 130
3 & 4-Methylphenol	1670	1440	86	20 - 160
N-Nitroso-di-n-propylamine	1670	1310	79	70 - 130
Hexachloroethane	1670	1150	69	20 - 160
Nitrobenzene	1670	1220	73	70 - 130
Isophorone	1670	1260	76	70 - 130
2-Nitrophenol	1670	1250	75	70 - 130
2,4-Dimethylphenol	1670	1240	74	70 - 130
bis(2-chloroethoxy)methane	1670	1250	75	70 - 130
2,4-Dichlorophenol	1670	1280	77	70 - 130
1,2,4-Trichlorobenzene	1670	1150	69 *	70 - 130
Naphthalene	1670	1190	72	70 - 130
4-Chloroaniline	1670	666	40 *	70 - 130
Hexachlorobutadiene	1670	1230	74	70 - 130
4-Chloro-3-methylphenol	1670	1420	85	70 - 130
2-Methylnaphthylene	1670	1230	74	70 - 130
Hexachlorocyclopentadiene	1670	1140	68	20 - 160

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502101

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5K2304	Lab Sample ID:	B5K2304-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2,4,6-Trichlorophenol	1670	1340	80	70 - 130
2,4,5-Trichlorophenol	1670	1370	82	70 - 130
2-Chloronaphthalene	1670	1330	80	70 - 130
2-Nitroaniline	1670	1470	88	70 - 130
Dimethylphthalate	1670	1570	94	70 - 130
Acenaphthylene	1670	1430	86	70 - 130
3-Nitroaniline	1670	1240	75	70 - 130
Acenaphthene	1670	1310	78	70 - 130
2,4-Dinitrophenol	1670	526	32	20 - 160
4-Nitrophenol	1670	1590	96	20 - 160
Dibenzofuran	1670	1360	82	70 - 130
2,6-Dinitrotoluene	1670	1410	85	70 - 130
2,4-Dinitrotoluene	1670	1510	91	70 - 130
2,3,4,6-Tetrachlorophenol	1670	1430	86	70 - 130
Diethyl phthalate	1670	1560	93	70 - 130
4-Chlorophenyl-phenylether	1670	1300	78	70 - 130
Fluorene	1670	1440	86	70 - 130
4-Nitroaniline	1670	1550	93	70 - 130
4,6-Dinitro-2-methylphenol	1670	1040	62 *	70 - 130
Carbazole	1670	1370	82	70 - 130
N-Nitrosodiphenylamine	1670	1300	78	20 - 160
Azobenzene	1670	1310	79	70 - 130
4-Bromophenyl-phenylether	1670	1340	80	70 - 130
Hexachlorobenzene	1670	1310	79	70 - 130
Pentachlorophenol	1670	1180	71	20 - 160
Phenanthrene	1670	1310	79	70 - 130
Anthracene	1670	1320	79	70 - 130
Di-n-butyl phthalate	1670	1390	83	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502101

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5K2304	Lab Sample ID:	B5K2304-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Fluoranthene	1670	1400	84	70 - 130
Pyrene	1670	1190	71	70 - 130
Butylbenzylphthalate	1670	1310	78	70 - 130
Benzo[a]anthracene	1670	1320	79	70 - 130
bis(2-ethylhexyl)phthalate	1670	1280	77	70 - 130
Chrysene	1670	1330	80	70 - 130
Di-n-octyl phthalate	1670	1530	92	70 - 130
Benzo[b]fluoranthene	1670	1560	94	70 - 130
Benzo[k]fluoranthene	1670	1460	88	70 - 130
Benzo[a]pyrene	1670	1510	90	70 - 130
Indeno(1,2,3-cd)pyrene	1670	1500	90	70 - 130
Dibenzo(a,h)anthracene	1670	1470	88	70 - 130
Benzo[ghi]perylene	1670	1420	85	70 - 130

* Values outside of QC limits

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1502323

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

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REVIEWER'S NARRATIVE
SDG 1502323

The data associated with this Sample Delivery Group (SDG) 1502323, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. P. Date: 10/25/16
Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx , NY
SAMPLING DATE:	December 23, 2015
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1502323

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on December 23, 2015. These samples were analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1502323. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1502323, one sample was analyzed and results were reported for 191 analytes. Even though some results were flagged with a "J", all results (100 %) are considered usable. See the summary table for the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-18	Isopropylbenzene 1,12,2-Tetrachlorobenzene 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene 2-Chlorotoluene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butybenzene p-Isopropyltoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene DBCP 1,2,4-Trichlorobenzene Hexachlorobutadiene 1,2,3-Trichlorbenzene	UJ non-detects J detects	IS #4 area < 50 % QC limit	Sample data is estimated
EP-18	Methylene Chloride	J all data 10X MB value	Detected in the method blank	No data affected
EP-18	Acetone Methylene Chloride	J detects	ICV RPD > 20 %	Sample detects are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-18	3-Nitroaniline 4-Chloroaniline	"UJ"	LCS < 70 % QC limit	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-6 Wet Chemistry

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-18	CR+6	UJ non-detect and J detects	MS < 75 %	All samples non-detect

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1502323

Client Sample ID:	Lab Sample ID:
EP-18	1502323-01

This data has been reviewed and accepted by:

Daniel Miguel 01/13/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street, Bronx, NY) on 12/23/2015 12:00:00 PM.

All analyses were performed within the required holding time.

In the BNA analyses, the laboratory control sample (LCS) for Batch B5L2403 recovered outside control limits for multiple analytes. These analytes were within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5L2403 had compounds recovered outside acceptance criteria due to matrix interference. The LCS was within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, the laboratory control sample (LCS) for Batch B5L2402 recovered outside control limits for certain analytes. These analytes were within house limits; therefore, the data has been reported.

In the Pesticide analyses, the MS/MSD for Batch B5L2402 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was within acceptance limits for affected compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street, Bronx, NY
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm + Sean Harrison
EMAIL FOR INVOICE:	dharm@brinx.env + sharrison@brinx.env

CLIENT NAME:	Brinkerhoff Environmental Services, Inc.
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502323
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL Full	TCL Full	Hex Chrom	Tri Chrom									AAR SAMPLE #
EP-18	12/23/15 10:10	S		4	G	X	X	X	X									-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 1 Week
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Category B data deliverable. Hard copy by January 13th 2015
NYSDEC ↗ COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Monica Norton	Signature: K. Muniz	Signature:	Signature:
Agent of:	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/23/15 Time: 1200		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/23/15 23:47	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 5035A	File ID:	D13585.D
Prep Batch:	B5L2319	Sequence:	S5L2311	Analyzed:	12/23/15 23:47
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	8.42	14.0	U
107-13-1	Acrylonitrile	ND	2.81	14.0	U
67-64-1	Acetone	20.8 J	1.40	2.81	
75-71-8	Dichlorodifluoromethane	ND	1.40	2.81	U
74-87-3	Chloromethane	ND	1.40	2.81	U
75-01-4	Vinyl chloride	ND	1.40	2.81	U
74-83-9	Bromomethane	ND	1.40	2.81	U
75-00-3	Chloroethane	ND	1.40	2.81	U
75-69-4	Trichlorofluoromethane	ND	1.40	2.81	U
75-35-4	1,1-Dichloroethene	ND	1.40	2.81	U
75-15-0	Carbon disulfide	ND	1.40	2.81	U
75-09-2	Methylene Chloride	ND	1.40	2.81	U
156-60-5	trans-1,2-Dichloroethene	ND	1.40	2.81	U
75-34-3	1,1-Dichloroethane	ND	1.40	2.81	U
108-05-4	Vinyl acetate	ND	1.40	2.81	U
590-20-7	2,2-Dichloropropane	ND	1.40	2.81	U
78-93-3	2-Butanone	ND	1.40	2.81	U
156-59-4	cis-1,2-Dichloroethene	ND	1.40	2.81	U
67-66-3	Chloroform	ND	1.40	2.81	U
74-97-5	Bromochloromethane	ND	1.40	2.81	U
71-55-6	1,1,1-Trichloroethane	ND	1.40	2.81	U
563-58-6	1,1-Dichloropropene	ND	1.40	2.81	U
56-23-5	Carbon Tetrachloride	ND	1.40	2.81	U
107-06-2	1,2-Dichloroethane	ND	1.40	2.81	U
71-43-2	Benzene	ND	1.40	2.81	U

MKP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/23/15 23:47	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 5035A	File ID:	D13585.D
Prep Batch:	B5L2319	Sequence:	S5L2311	Analyzed:	12/23/15 23:47
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.40	2.81	U
78-87-5	1,2-Dichloropropane	ND	1.40	2.81	U
75-27-4	Bromodichloromethane	ND	1.40	2.81	U
74-95-3	Dibromomethane	ND	1.40	2.81	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.40	2.81	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.40	2.81	U
108-88-3	Toluene	ND	1.40	2.81	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.40	2.81	U
79-00-5	1,1,2-Trichloroethane	ND	1.40	2.81	U
108-10-1	4-Methyl-2-pentanone	ND	1.40	2.81	U
106-93-4	1,2-Dibromoethane	ND	1.40	2.81	U
591-78-6	2-Hexanone	ND	1.40	2.81	U
142-28-9	1,3-Dichloropropane	ND	1.40	2.81	U
127-18-4	Tetrachloroethene	ND	1.40	2.81	U
124-48-1	Dibromochloromethane	ND	1.40	2.81	U
100-41-4	Ethylbenzene	ND	1.40	2.81	U
108-90-7	Chlorobenzene	ND	1.40	2.81	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.40	2.81	U
108-38-3/106-42	m,p-Xylenes	ND	2.81	5.61	U
95-47-6	o-Xylene	ND	2.81	5.61	U
100-42-5	Styrene	ND	1.40	5.61	U
75-25-2	Bromoform	ND	1.40	2.81	U
98-82-8	Isopropylbenzene	ND UJ	1.40	2.81	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.40	2.81	U
96-18-4	1,2,3-Trichloropropane	ND	1.40	2.81	U

 MKP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/23/15 23:47	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 5035A	File ID:	D13585.D
Prep Batch:	B5L2319	Sequence:	S5L2311	Analyzed:	12/23/15 23:47
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND UJ	1.40	2.81	U
108-86-1	Bromobenzene	ND	1.40	2.81	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.40	2.81	U
95-49-8	2-Chlorotoluene	ND	1.40	2.81	U
106-43-4	4-Chlorotoluene	ND	1.40	2.81	U
98-06-6	tert-Butylbenzene	ND	1.40	2.81	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.40	2.81	U
135-98-8	sec-Butylbenzene	ND	1.40	2.81	U
99-87-6	p-Isopropyltoluene	1.73 J	1.40	2.81	J
541-73-1	1,3-Dichlorobenzene	ND UJ	1.40	2.81	U
106-46-7	1,4-Dichlorobenzene	ND	1.40	2.81	U
104-51-8	n-Butyl Benzene	ND	1.40	2.81	U
95-50-1	1,2-Dichlorobenzene	ND	1.40	2.81	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.40	2.81	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.40	2.81	U
87-68-3	Hexachlorobutadiene	ND	1.40	2.81	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.40	2.81	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	111%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	79%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MXP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/24/15 07:52	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 3550B GCMS	File ID:	E9636.D
Prep Batch:	B5L2403	Sequence:	S5L2803	Analyzed:	12/28/15 15:48
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	46.7	234	U
108-95-2	Phenol	ND	46.7	234	U
111-44-4	bis(2-chloroethyl)ether	ND	46.7	234	U
95-57-8	2-Chlorophenol	ND	46.7	234	U
541-73-1	1,3-Dichlorobenzene	ND	46.7	234	U
106-46-7	1,4-Dichlorobenzene	ND	46.7	234	U
100-51-6	Benzyl alcohol	ND	46.7	234	U
95-50-1	1,2-Dichlorobenzene	ND	46.7	234	U
95-48-7	2-Methylphenol	ND	46.7	234	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	46.7	234	U
106-44-5	3 & 4-Methylphenol	ND	46.7	234	U
621-64-7	N-Nitroso-di-n-propylamine	ND	46.7	234	U
67-72-1	Hexachloroethane	ND	46.7	234	U
98-95-3	Nitrobenzene	ND	46.7	234	U
78-59-1	Isophorone	ND	46.7	234	U
88-75-5	2-Nitrophenol	ND	46.7	234	U
105-67-9	2,4-Dimethylphenol	ND	46.7	234	U
65-85-0	Benzoic acid	ND	116	467	U
111-91-1	bis(2-chloroethoxy)methane	ND	46.7	234	U
120-83-2	2,4-Dichlorophenol	ND	46.7	234	U
120-82-1	1,2,4-Trichlorobenzene	ND	46.7	234	U
91-20-3	Naphthalene	ND	46.7	234	U
106-47-8	4-Chloroaniline	ND UJ	46.7	234	U
87-68-3	Hexachlorobutadiene	ND	46.7	234	U
59-50-7	4-Chloro-3-methylphenol	ND	46.7	234	U

 MXD 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/24/15 07:52	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 3550B GCMS	File ID:	E9636.D
Prep Batch:	B5L2403	Sequence:	S5L2803	Analyzed:	12/28/15 15:48
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	46.7	234	U
77-47-4	Hexachlorocyclopentadiene	ND	46.7	234	U
88-06-2	2,4,6-Trichlorophenol	ND	46.7	234	U
95-95-4	2,4,5-Trichlorophenol	ND	46.7	234	U
91-58-7	2-Chloronaphthalene	ND	46.7	234	U
88-74-4	2-Nitroaniline	ND	46.7	234	U
131-11-3	Dimethylphthalate	ND	46.7	234	U
208-96-8	Acenaphthylene	ND	46.7	234	U
99-09-2	3-Nitroaniline	ND UJ	46.7	234	U
83-32-9	Acenaphthene	ND	46.7	234	U
51-28-5	2,4-Dinitrophenol	ND	46.7	467	U
100-02-7	4-Nitrophenol	ND	46.7	234	U
132-64-9	Dibenzofuran	ND	46.7	234	U
606-20-2	2,6-Dinitrotoluene	ND	46.7	234	U
121-14-2	2,4-Dinitrotoluene	ND	46.7	234	U
84-66-2	Diethyl phthalate	ND	46.7	234	U
7005-72-3	4-Chlorophenyl-phenylether	ND	46.7	234	U
86-73-7	Fluorene	ND	46.7	234	U
100-01-6	4-Nitroaniline	ND	46.7	234	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	46.7	234	U
86-30-6	N-Nitrosodiphenylamine	ND	46.7	234	U
101-55-3	4-Bromophenyl-phenylether	ND	46.7	234	U
118-74-1	Hexachlorobenzene	ND	46.7	234	U
87-86-5	Pentachlorophenol	ND	46.7	234	U
85-01-8	Phenanthrene	462	46.7	234	

 MXP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/24/15 07:52	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 3550B GCMS	File ID:	E9636.D
Prep Batch:	B5L2403	Sequence:	S5L2803	Analyzed:	12/28/15 15:48
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	81.8	46.7	234	J
84-74-2	Di-n-butyl phthalate	ND	46.7	234	U
206-44-0	Fluoranthene	581	46.7	234	
129-00-0	Pyrene	531	46.7	234	
85-68-7	Butylbenzylphthalate	ND	46.7	234	U
91-94-1	3,3'-Dichlorobenzidine	ND	116	234	U
56-55-3	Benzo[a]anthracene	238	46.7	234	
117-81-7	bis(2-ethylhexyl)phthalate	ND	46.7	234	U
218-01-9	Chrysene	285	46.7	234	
117-84-0	Di-n-octyl phthalate	ND	46.7	234	U
205-99-2	Benzo[b]fluoranthene	223	46.7	234	J
207-08-9	Benzo[k]fluoranthene	200	46.7	234	J
50-32-8	Benzo[a]pyrene	219	46.7	234	J
193-39-5	Indeno(1,2,3-cd)pyrene	113	46.7	234	J
53-70-3	Dibenzo(a,h)anthracene	47.7	46.7	234	J
191-24-2	Benzo[ghi]perylene	115	46.7	234	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	57%	30-130
Phenol-d5	66%	30-130
Nitrobenzene-d5	64%	30-130
2-Fluorobiphenyl	62%	30-130
2,4,6-Tribromophenol	85%	30-130
Terphenyl-d14	83%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/24/15 07:49	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 3550B	File ID:	G14797.D
Prep Batch:	B5L2402	Sequence:	S5L2801	Analyzed:	12/28/15 14:44
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.926	0.926	U
319-85-7	beta-BHC	ND	0.926	0.926	U
319-86-8	delta-BHC	ND	0.926	0.926	U
58-89-9	gamma-BHC [Lindane]	ND	0.926	0.926	U
76-44-8	Heptachlor	ND	0.926	0.926	U
309-00-2	Aldrin	ND	0.926	0.926	U
1024-57-3	Heptachlor Epoxide	ND	0.926	0.926	U
959-98-8	Endosulfan I	ND	0.926	0.926	U
60-57-1	Dieldrin	ND	1.87	1.87	U
72-55-9	4,4'-DDE	ND	1.87	1.87	U
72-20-8	Endrin	ND	1.87	1.87	U
33213-65-9	Endosulfan II	ND	1.87	1.87	U
72-54-8	4,4'-DDD	ND	1.87	1.87	U
1031-07-8	Endosulfan sulfate	ND	1.87	1.87	U
50-29-3	4,4'-DDT	ND	1.87	1.87	U
72-43-5	Methoxychlor	ND	2.81	9.34	U
53494-70-5	Endrin ketone	ND	1.87	1.87	U
7421-93-4	Endrin aldehyde	ND	1.87	1.87	U
5103-71-9	alpha-Chlordane	ND	0.926	0.926	U
5566-34-7	gamma-Chlordane	ND	0.926	0.926	U
8001-35-2	Toxaphene	ND	46.7	46.7	U
12674-11-2	Aroclor-1016	ND	23.3	46.7	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/24/15 07:49	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 3550B	File ID:	G14797.D
Prep Batch:	B5L2402	Sequence:	S5L2801	Analyzed:	12/28/15 14:44
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	23.3	46.7	U
11141-16-5	Aroclor-1232	ND	23.3	46.7	U
53469-21-9	Aroclor-1242	ND	23.3	46.7	U
12672-29-6	Aroclor-1248	ND	23.3	46.7	U
11097-69-1	Aroclor-1254	ND	23.3	46.7	U
11096-82-5	Aroclor-1260	ND	23.3	46.7	U
37324-23-5	Aroclor-1262	ND	23.3	46.7	U
11100-14-4	Aroclor-1268	ND	23.3	46.7	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	63.5%	30-150
Tetrachloro-m-xylene [2C]	56.6%	30-150
Decachlorobiphenyl	54.9%	30-150
Decachlorobiphenyl [2C]	65.1%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Matrix:	Soil
Percent Solids:	71.30	File ID:	122815A-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	7830	28.1	28.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7439-97-6	Mercury	0.108	0.105	0.105	1		12/24/15 07:47	EPA 7471A	12/24/15 11:01 PRT	EPA 7471
7440-36-0	Antimony	ND	5.61	5.61	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-38-2	Arsenic	2.77	1.40	1.40	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-39-3	Barium	60.3	28.1	28.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.701	0.701	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.701	0.701	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-70-2	Calcium	12900	35.1	35.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-47-3	Chromium	16.1	2.81	2.81	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-48-4	Cobalt	ND	7.01	7.01	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-50-8	Copper	24.4	4.21	4.21	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7439-89-6	Iron	13800	35.1	35.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7439-92-1	Lead	48.5	1.40	1.40	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7439-95-4	Magnesium	8720	70.1	70.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7439-96-5	Manganese	319	2.81	2.81	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-02-0	Nickel	10.5	5.61	5.61	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-09-7	Potassium	1640	70.1	70.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7782-49-2	Selenium	ND	5.61	5.61	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-22-4	Silver	ND	0.701	0.701	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-23-5	Sodium	209	70.1	70.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-28-0	Thallium	ND	2.10	4.21	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-62-2	Vanadium	22.0	7.01	7.01	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-66-6	Zinc	64.4	8.42	8.42	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Matrix:	Soil
Percent Solids:	71.30	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	16.1	2.00	2.00	1		12/28/15 08:56	[CALC]	12/29/15 16:01 HTW	[CALC]
1854-02-99	Chromium, Hexava	ND MJ	2.81	2.81	1	U	12/28/15 08:56	SW 846 3060A	12/29/15 16:01 HTW	EPA 7196A
NA	Cyanide (total)	ND	1.40	1.40	1	U	12/28/15 08:20	EPA 9010C	12/28/15 11:54 RMK	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	71.3	0.100	0.100	1		12/28/15 10:00	Percent Solids	12/28/15 13:59 CLD	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MXD 10/25/16

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5L2403	Lab Sample ID:	B5L2403-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1010	61	20 - 160
N-Nitrosodimethylamine	1670	1050	63	20 - 160
Aniline	1670	1000	60	20 - 160
Phenol	1670	1320	79	20 - 160
bis(2-chloroethyl)ether	1670	1230	74	70 - 130
2-Chlorophenol	1670	1330	80	70 - 130
1,3-Dichlorobenzene	1670	1280	77	70 - 130
1,4-Dichlorobenzene	1670	1280	77	70 - 130
Benzyl alcohol	1670	1290	78	20 - 160
1,2-Dichlorobenzene	1670	1310	78	70 - 130
2-Methylphenol	1670	1320	79	20 - 160
bis(2-chloroisopropyl)ether	1670	1230	74	70 - 130
3 & 4-Methylphenol	1670	1340	81	20 - 160
N-Nitroso-di-n-propylamine	1670	1290	77	70 - 130
Hexachloroethane	1670	1290	78	20 - 160
Nitrobenzene	1670	1390	83	70 - 130
Isophorone	1670	1330	80	70 - 130
2-Nitrophenol	1670	1410	84	70 - 130
2,4-Dimethylphenol	1670	1310	78	70 - 130
bis(2-chloroethoxy)methane	1670	1370	82	70 - 130
2,4-Dichlorophenol	1670	1440	86	70 - 130
1,2,4-Trichlorobenzene	1670	1410	85	70 - 130
Naphthalene	1670	1380	83	70 - 130
4-Chloroaniline	1670	424	25 *	70 - 130
Hexachlorobutadiene	1670	1380	83	70 - 130
4-Chloro-3-methylphenol	1670	1430	86	70 - 130
2-Methylnaphthylene	1670	1380	83	70 - 130
Hexachlorocyclopentadiene	1670	1230	74	20 - 160

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5L2403	Lab Sample ID:	B5L2403-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2,4,6-Trichlorophenol	1670	1460	87	70 - 130
2,4,5-Trichlorophenol	1670	1470	88	70 - 130
2-Chloronaphthalene	1670	1320	79	70 - 130
2-Nitroaniline	1670	1480	89	70 - 130
Dimethylphthalate	1670	1530	92	70 - 130
Acenaphthylene	1670	1440	87	70 - 130
3-Nitroaniline	1670	1060	64 *	70 - 130
Acenaphthene	1670	1420	85	70 - 130
2,4-Dinitrophenol	1670	891	53	20 - 160
4-Nitrophenol	1670	1660	99	20 - 160
Dibenzofuran	1670	1540	92	70 - 130
2,6-Dinitrotoluene	1670	1500	90	70 - 130
2,4-Dinitrotoluene	1670	1600	96	70 - 130
2,3,4,6-Tetrachlorophenol	1670	1490	89	70 - 130
Diethyl phthalate	1670	1470	88	70 - 130
4-Chlorophenyl-phenylether	1670	1410	85	70 - 130
Fluorene	1670	1440	86	70 - 130
4-Nitroaniline	1670	1460	88	70 - 130
4,6-Dinitro-2-methylphenol	1670	1320	79	70 - 130
Carbazole	1670	1530	92	70 - 130
N-Nitrosodiphenylamine	1670	1510	90	20 - 160
Azobenzene	1670	1480	88	70 - 130
4-Bromophenyl-phenylether	1670	1590	96	70 - 130
Hexachlorobenzene	1670	1580	95	70 - 130
Pentachlorophenol	1670	1360	82	20 - 160
Phenanthrene	1670	1510	90	70 - 130
Anthracene	1670	1510	90	70 - 130
Di-n-butyl phthalate	1670	1470	88	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5L2403	Lab Sample ID:	B5L2403-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Fluoranthene	1670	1450	87	70 - 130
Pyrene	1670	1650	99	70 - 130
Butylbenzylphthalate	1670	1640	98	70 - 130
Benzo[a]anthracene	1670	1580	95	70 - 130
bis(2-ethylhexyl)phthalate	1670	1630	98	70 - 130
Chrysene	1670	1720	104	70 - 130
Di-n-octyl phthalate	1670	1630	98	70 - 130
Benzo[b]fluoranthene	1670	1700	102	70 - 130
Benzo[k]fluoranthene	1670	1620	97	70 - 130
Benzo[a]pyrene	1670	1720	103	70 - 130
Indeno(1,2,3-cd)pyrene	1670	1760	106	70 - 130
Dibenzo(a,h)anthracene	1670	1780	107	70 - 130
Benzo[ghi]perylene	1670	1770	106	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2319-BLK1	File ID:	D13566.D
Batch:	B5L2319	Prepared:	12/23/15 13:57	Analyzed:	12/23/15 13:57
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5L2311	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND	1.00	2.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	2.71	1.00	2.00	
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration:	15L1401	Instrument:	GC/MS D
		Calibration Date:	12/1/2015 7:29:13PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	1.027946E-02	10.82104		
Acrylonitrile	9.672611E-02	6.510138		
Acetone	0.157306	42.33686		
Dichlorodifluoromethane	0.4967151	13.91056		
Chloromethane	1.126771	3.429468	SPCC (0.1)	
Vinyl chloride	1.179116	3.32457	CCC (20)	
Bromomethane	0.7400397	2.267457		
Chloroethane	1.037875	5.077389		
Trichlorofluoromethane	0.8967936	4.06701		
Freon 113	0.7829055	8.411971		
1,1-Dichloroethene	1.080892	8.590248	CCC (20)	
Carbon disulfide	1.698673	7.889689		
Methyl Acetate	0.2575179	9.127351		
Methylene Chloride	1.263766	54.75354		
trans-1,2-Dichloroethene	0.9407191	6.744489		
1,1-Dichloroethane	1.192587	6.775722	SPCC (0.1)	
Vinyl acetate	0.8345188	5.816735		
2,2-Dichloropropane	0.7727925	5.27732		
2-Butanone	0.1732374	8.217978		
cis-1,2-Dichloroethene	0.8724462	6.165484		
Chloroform	0.8278822	5.654662	CCC (20)	
Bromochloromethane	0.2997968	5.968461		
Cyclohexane	1.449462	9.49653		
1,1,1-Trichloroethane	0.6357207	5.828603		
t-Butyl alcohol	2.521052E-02	6.475355		

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1502312

3 Soil Samples

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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Summaries of Validated Results
Table 6-1 Total Chromium
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REVIEWER'S NARRATIVE
SDG 1502312

The data associated with this Sample Delivery Group (SDG) 1502312, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 10/25/16

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx , NY
SAMPLING DATE:	December 22, 2015
SAMPLE TYPE:	3 soil samples
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1502312

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for three soil samples collected on December 22, 2015. These samples were analyzed for Heavalent Chromium and Trivalent Chromium.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1502312. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-2. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1502312, three samples were analyzed and results were reported for 6 analytes. Even though some results were flagged with a "J", all results (100 %) are considered usable. See the summary table for the associated QC reasons.

Table 6-1 Total Chromium

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-2 Hexavalent Chromium

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	CR+6	UJ non-detect and J detects	MS < 75 %	All samples non-detect

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1502312

Client Sample ID:	Lab Sample ID:
Cr-1	1502312-01
Cr-2	1502312-02
Cr-3	1502312-03

This data has been reviewed and accepted by:

Daniel Miguel 01/08/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 3 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street, Bronx, NY) on 12/22/2015 1:50:00 PM.

All analyses were performed within the required holding time.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Wet Chemistry:
Percent Solids by SM 2540 G
Hexavalent Chromium by 3060A/7196A

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street, Bronx, NY
CONTACT:	Doug Harm / Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	DH/SH
EMAIL FOR INVOICE:	dharm@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502312
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	Hex Chrom	Tri Chrom	AAR SAMPLE #
Cr-1	12/22/15 11:38	S		1	G	X	X	-01
Cr-2	12/22/15 11:42	S		1	G	X	X	-02
Cr-3	12/22/15 11:46	S		1	G	X	X	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER ____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Please provide NYSDEC Category B data deliverable. Hard copy report due 1/11/2016.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Sean Harrison SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Sean Harrison	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/22/15 Time: 1350		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Cr-1
Lab Sample ID: 1502312-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502312

Date Sampled:	12/22/15 11:38	Matrix:	Soil
Percent Solids:	81.20	File ID:	122815A-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7440-47-3	Chromium	9.75	2.46	2.46	1		12/24/15 08:18	EPA 3050B	12/28/15 11:42 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Cr-2
Lab Sample ID: 1502312-02
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502312

Date Sampled:	12/22/15 11:42	Matrix:	Soil
Percent Solids:	81.20	File ID:	122815A-024

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7440-47-3	Chromium	13.1	2.46	2.46	1		12/24/15 08:18	EPA 3050B	12/28/15 11:47 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Cr-3
Lab Sample ID: 1502312-03
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502312

Date Sampled:	12/22/15 11:46	Matrix:	Soil
Percent Solids:	80.00	File ID:	122815A-025

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7440-47-3	Chromium	9.55	2.50	2.50	1		12/24/15 08:18	EPA 3050B	12/28/15 11:52 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Cr-1
Lab Sample ID: 1502312-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502312

Date Sampled:	12/22/15 11:38	Matrix:	Soil
Percent Solids:	81.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	9.75	2.00	2.00	1		12/28/15 08:56	[CALC]	12/29/15 16:01 HTW	[CALC]
1854-02-99	Chromium, Hexava	ND UJ	2.46	2.46	1	U	12/28/15 08:56	SW 846 3060A	12/29/15 16:01 HTW	EPA 7196A

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	81.2	0.100	0.100	1		12/23/15 08:48	Percent Solids	12/23/15 14:44 RMK	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MKD 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Cr-2
Lab Sample ID: 1502312-02
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502312

Date Sampled:	12/22/15 11:42	Matrix:	Soil
Percent Solids:	81.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	13.1	2.00	2.00	1		12/28/15 08:56	[CALC]	12/29/15 16:01 HTW	[CALC]
1854-02-99	Chromium, Hexava	ND UJ	2.46	2.46	1	U	12/28/15 08:56	SW 846 3060A	12/29/15 16:01 HTW	EPA 7196A

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	81.2	0.100	0.100	1		12/23/15 08:48	Percent Solids	12/23/15 14:44 RMK	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

mkp 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Cr-3
Lab Sample ID: 1502312-03
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502312

Date Sampled:	12/22/15 11:46	Matrix:	Soil
Percent Solids:	80.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	9.55	2.00	2.00	1		12/28/15 08:56	[CALC]	12/29/15 16:01 HTW	[CALC]
1854-02-99	Chromium, Hexava	ND UJ	2.50	2.50	1	U	12/28/15 08:56	SW 846 3060A	12/29/15 16:01 HTW	EPA 7196A

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	80.0	0.100	0.100	1		12/23/15 08:48	Percent Solids	12/23/15 14:44 RMK	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MYP 10/25/16

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Cr-1

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502312
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 7196A
Batch:	B5L2804	Preparation:	SW 846 3060A
% Solids:	81.20	Laboratory ID:	B5L2804-MS1
		Client Sample ID:	1502312-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)		MS % REC.		QC LIMITS REC.
Chromium, Hexavalent	49.3	ND	13.7	*	27.8	*	75 - 125

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1502333

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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4.0	GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA	2
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APPENDIX B Laboratory QC Documentation
APPENDIX C Validator Qualifications

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Table 6-2 SVOCs
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Table 6-5 Metals
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REVIEWER'S NARRATIVE
SDG 1502333

The data associated with this Sample Delivery Group (SDG) 1502333, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 10/25/16
Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx, NY
SAMPLING DATE:	December 28, 2015
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1502333

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on December 28, 2015. These samples were analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1502333. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1502333, one sample was analyzed and results were reported for 191 analytes. Even though some results were flagged with a "J", all results (100 %) are considered usable. See the summary table for the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-19	Acetone Methylene Chloride	J detects	ICV RPD > 20 %	Sample detects are estimated
EP-19	Acetone Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-19	3-Nitroaniline 4-Chloroaniline	"UJ"	LCS < 70 % QC limit	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-19	Zinc	J detect	Serial dilution > 10 %	Data is estimated

Table 6-6 Wet Chemistry

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1502333

Client Sample ID:	Lab Sample ID:
EP-19	1502333-01

This data has been reviewed and accepted by:

Daniel Miguel 01/26/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street, Bronx, NY) on 12/28/2015 12:57:00 PM.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5L2811-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B5L3003 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5L3003 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B5L3001-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street, Bronx, NY
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm + Sean Harrison
EMAIL FOR INVOICE:	dharm@bmk.env + shamison@bmk.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502333
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE → 5 6 6 6

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-19	12/28/15 / 9:05	S		4	G	X	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC ~~E = ENCORE~~ PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD ~~1 DAY~~ M.D. 72 HRS. 48 HRS. 24 HRS. OTHER _____ (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

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Date Received: 12/28/15 Time: 12:57		Date Received: / / Time:	

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Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-19
Lab Sample ID: 1502333-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Date Sampled:	12/28/15 09:05	Prep Date:	12/28/15 18:46	Matrix:	Soil
Percent Solids:	79.00	Prep Method:	EPA 5035A	File ID:	D13602.D
Prep Batch:	B5L2811	Sequence:	S5L2808	Analyzed:	12/28/15 18:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	10.8	18.1	U
107-13-1	Acrylonitrile	ND	3.62	18.1	U
67-64-1	Acetone	9.22 J	1.81	3.62	
75-71-8	Dichlorodifluoromethane	ND	1.81	3.62	U
74-87-3	Chloromethane	ND	1.81	3.62	U
75-01-4	Vinyl chloride	ND	1.81	3.62	U
74-83-9	Bromomethane	ND	1.81	3.62	U
75-00-3	Chloroethane	ND	1.81	3.62	U
75-69-4	Trichlorofluoromethane	ND	1.81	3.62	U
75-35-4	1,1-Dichloroethene	ND	1.81	3.62	U
75-15-0	Carbon disulfide	ND	1.81	3.62	U
75-09-2	Methylene Chloride	ND UJ	1.81	3.62	U
156-60-5	trans-1,2-Dichloroethene	ND	1.81	3.62	U
75-34-3	1,1-Dichloroethane	ND	1.81	3.62	U
108-05-4	Vinyl acetate	ND	1.81	3.62	U
590-20-7	2,2-Dichloropropane	ND	1.81	3.62	U
78-93-3	2-Butanone	ND	1.81	3.62	U
156-59-4	cis-1,2-Dichloroethene	ND	1.81	3.62	U
67-66-3	Chloroform	ND	1.81	3.62	U
74-97-5	Bromochloromethane	ND	1.81	3.62	U
71-55-6	1,1,1-Trichloroethane	ND	1.81	3.62	U
563-58-6	1,1-Dichloropropene	ND	1.81	3.62	U
56-23-5	Carbon Tetrachloride	ND	1.81	3.62	U
107-06-2	1,2-Dichloroethane	ND	1.81	3.62	U
71-43-2	Benzene	ND	1.81	3.62	U

 MKP 12/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-19
Lab Sample ID: 1502333-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Date Sampled:	12/28/15 09:05	Prep Date:	12/28/15 18:46	Matrix:	Soil
Percent Solids:	79.00	Prep Method:	EPA 5035A	File ID:	D13602.D
Prep Batch:	B5L2811	Sequence:	S5L2808	Analyzed:	12/28/15 18:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.81	3.62	U
78-87-5	1,2-Dichloropropane	ND	1.81	3.62	U
75-27-4	Bromodichloromethane	ND	1.81	3.62	U
74-95-3	Dibromomethane	ND	1.81	3.62	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.81	3.62	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.81	3.62	U
108-88-3	Toluene	ND	1.81	3.62	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.81	3.62	U
79-00-5	1,1,2-Trichloroethane	ND	1.81	3.62	U
108-10-1	4-Methyl-2-pentanone	ND	1.81	3.62	U
106-93-4	1,2-Dibromoethane	ND	1.81	3.62	U
591-78-6	2-Hexanone	ND	1.81	3.62	U
142-28-9	1,3-Dichloropropane	ND	1.81	3.62	U
127-18-4	Tetrachloroethene	ND	1.81	3.62	U
124-48-1	Dibromochloromethane	ND	1.81	3.62	U
100-41-4	Ethylbenzene	ND	1.81	3.62	U
108-90-7	Chlorobenzene	ND	1.81	3.62	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.81	3.62	U
108-38-3/106-42	m,p-Xylenes	ND	3.62	7.23	U
95-47-6	o-Xylene	ND	3.62	7.23	U
100-42-5	Styrene	ND	1.81	7.23	U
75-25-2	Bromoform	ND	1.81	3.62	U
98-82-8	Isopropylbenzene	ND	1.81	3.62	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.81	3.62	U
96-18-4	1,2,3-Trichloropropane	ND	1.81	3.62	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-19
Lab Sample ID: 1502333-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Date Sampled:	12/28/15 09:05	Prep Date:	12/28/15 18:46	Matrix:	Soil
Percent Solids:	79.00	Prep Method:	EPA 5035A	File ID:	D13602.D
Prep Batch:	B5L2811	Sequence:	S5L2808	Analyzed:	12/28/15 18:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	1.81	3.62	U
108-86-1	Bromobenzene	ND	1.81	3.62	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.81	3.62	U
95-49-8	2-Chlorotoluene	ND	1.81	3.62	U
106-43-4	4-Chlorotoluene	ND	1.81	3.62	U
98-06-6	tert-Butylbenzene	ND	1.81	3.62	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.81	3.62	U
135-98-8	sec-Butylbenzene	ND	1.81	3.62	U
99-87-6	p-Isopropyltoluene	ND	1.81	3.62	U
541-73-1	1,3-Dichlorobenzene	ND	1.81	3.62	U
106-46-7	1,4-Dichlorobenzene	ND	1.81	3.62	U
104-51-8	n-Butyl Benzene	ND	1.81	3.62	U
95-50-1	1,2-Dichlorobenzene	ND	1.81	3.62	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.81	3.62	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.81	3.62	U
87-68-3	Hexachlorobutadiene	ND	1.81	3.62	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.81	3.62	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	109%	70-130
Toluene-d8	102%	70-130
Bromofluorobenzene	87%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-19
Lab Sample ID: 1502333-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Date Sampled:	12/28/15 09:05	Prep Date:	12/30/15 07:43	Matrix:	Soil
Percent Solids:	79.00	Prep Method:	EPA 3550B GCMS	File ID:	F12441.D
Prep Batch:	B5L3003	Sequence:	S5L3003	Analyzed:	12/30/15 18:51
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	42.2	211	U
108-95-2	Phenol	ND	42.2	211	U
111-44-4	bis(2-chloroethyl)ether	ND	42.2	211	U
95-57-8	2-Chlorophenol	ND	42.2	211	U
541-73-1	1,3-Dichlorobenzene	ND	42.2	211	U
106-46-7	1,4-Dichlorobenzene	ND	42.2	211	U
100-51-6	Benzyl alcohol	ND	42.2	211	U
95-50-1	1,2-Dichlorobenzene	ND	42.2	211	U
95-48-7	2-Methylphenol	ND	42.2	211	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	42.2	211	U
106-44-5	3 & 4-Methylphenol	ND	42.2	211	U
621-64-7	N-Nitroso-di-n-propylamine	ND	42.2	211	U
67-72-1	Hexachloroethane	ND	42.2	211	U
98-95-3	Nitrobenzene	ND	42.2	211	U
78-59-1	Isophorone	ND	42.2	211	U
88-75-5	2-Nitrophenol	ND	42.2	211	U
105-67-9	2,4-Dimethylphenol	ND	42.2	211	U
65-85-0	Benzoic acid	ND	105	422	U
111-91-1	bis(2-chloroethoxy)methane	ND	42.2	211	U
120-83-2	2,4-Dichlorophenol	ND	42.2	211	U
120-82-1	1,2,4-Trichlorobenzene	ND	42.2	211	U
91-20-3	Naphthalene	ND	42.2	211	U
106-47-8	4-Chloroaniline	ND UJ	42.2	211	U
87-68-3	Hexachlorobutadiene	ND	42.2	211	U
59-50-7	4-Chloro-3-methylphenol	ND	42.2	211	U

 MKP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-19
Lab Sample ID: 1502333-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Date Sampled:	12/28/15 09:05	Prep Date:	12/30/15 07:43	Matrix:	Soil
Percent Solids:	79.00	Prep Method:	EPA 3550B GCMS	File ID:	F12441.D
Prep Batch:	B5L3003	Sequence:	S5L3003	Analyzed:	12/30/15 18:51
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	42.2	211	U
77-47-4	Hexachlorocyclopentadiene	ND	42.2	211	U
88-06-2	2,4,6-Trichlorophenol	ND	42.2	211	U
95-95-4	2,4,5-Trichlorophenol	ND	42.2	211	U
91-58-7	2-Chloronaphthalene	ND	42.2	211	U
88-74-4	2-Nitroaniline	ND	42.2	211	U
131-11-3	Dimethylphthalate	ND	42.2	211	U
208-96-8	Acenaphthylene	ND	42.2	211	U
99-09-2	3-Nitroaniline	ND UJ	42.2	211	U
83-32-9	Acenaphthene	ND	42.2	211	U
51-28-5	2,4-Dinitrophenol	ND	42.2	422	U
100-02-7	4-Nitrophenol	ND	42.2	211	U
132-64-9	Dibenzofuran	ND	42.2	211	U
606-20-2	2,6-Dinitrotoluene	ND	42.2	211	U
121-14-2	2,4-Dinitrotoluene	ND	42.2	211	U
84-66-2	Diethyl phthalate	ND	42.2	211	U
7005-72-3	4-Chlorophenyl-phenylether	ND	42.2	211	U
86-73-7	Fluorene	ND	42.2	211	U
100-01-6	4-Nitroaniline	ND	42.2	211	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	42.2	211	U
86-30-6	N-Nitrosodiphenylamine	ND	42.2	211	U
101-55-3	4-Bromophenyl-phenylether	ND	42.2	211	U
118-74-1	Hexachlorobenzene	ND	42.2	211	U
87-86-5	Pentachlorophenol	ND	42.2	211	U
85-01-8	Phenanthrene	ND	42.2	211	U

 MKP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-19
Lab Sample ID: 1502333-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Date Sampled:	12/28/15 09:05	Prep Date:	12/30/15 07:43	Matrix:	Soil
Percent Solids:	79.00	Prep Method:	EPA 3550B GCMS	File ID:	F12441.D
Prep Batch:	B5L3003	Sequence:	S5L3003	Analyzed:	12/30/15 18:51
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	42.2	211	U
84-74-2	Di-n-butyl phthalate	ND	42.2	211	U
206-44-0	Fluoranthene	ND	42.2	211	U
129-00-0	Pyrene	ND	42.2	211	U
85-68-7	Butylbenzylphthalate	ND	42.2	211	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	211	U
56-55-3	Benzo[a]anthracene	ND	42.2	211	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	42.2	211	U
218-01-9	Chrysene	ND	42.2	211	U
117-84-0	Di-n-octyl phthalate	ND	42.2	211	U
205-99-2	Benzo[b]fluoranthene	ND	42.2	211	U
207-08-9	Benzo[k]fluoranthene	ND	42.2	211	U
50-32-8	Benzo[a]pyrene	ND	42.2	211	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	42.2	211	U
53-70-3	Dibenzo(a,h)anthracene	ND	42.2	211	U
191-24-2	Benzo[ghi]perylene	ND	42.2	211	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	68%	30-130
Phenol-d5	76%	30-130
Nitrobenzene-d5	70%	30-130
2-Fluorobiphenyl	68%	30-130
2,4,6-Tribromophenol	86%	30-130
Terphenyl-d14	91%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-19
Lab Sample ID: 1502333-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Date Sampled:	12/28/15 09:05	Prep Date:	12/30/15 07:39	Matrix:	Soil
Percent Solids:	79.00	Prep Method:	EPA 3550B	File ID:	G14838.D
Prep Batch:	B5L3001	Sequence:	S5L3002	Analyzed:	12/30/15 13:54
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.835	0.835	U
319-85-7	beta-BHC	ND	0.835	0.835	U
319-86-8	delta-BHC	ND	0.835	0.835	U
58-89-9	gamma-BHC [Lindane]	ND	0.835	0.835	U
76-44-8	Heptachlor	ND	0.835	0.835	U
309-00-2	Aldrin	ND	0.835	0.835	U
1024-57-3	Heptachlor Epoxide	ND	0.835	0.835	U
959-98-8	Endosulfan I	ND	0.835	0.835	U
60-57-1	Dieldrin	ND	1.68	1.68	U
72-55-9	4,4'-DDE	ND	1.68	1.68	U
72-20-8	Endrin	ND	1.68	1.68	U
33213-65-9	Endosulfan II	ND	1.68	1.68	U
72-54-8	4,4'-DDD	ND	1.68	1.68	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	U
50-29-3	4,4'-DDT	ND	1.68	1.68	U
72-43-5	Methoxychlor	ND	2.53	8.43	U
53494-70-5	Endrin ketone	ND	1.68	1.68	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	U
5103-71-9	alpha-Chlordane	ND	0.835	0.835	U
5566-34-7	gamma-Chlordane	ND	0.835	0.835	U
8001-35-2	Toxaphene	ND	42.2	42.2	U
12674-11-2	Aroclor-1016	ND	21.0	42.2	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-19
Lab Sample ID: 1502333-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Date Sampled:	12/28/15 09:05	Prep Date:	12/30/15 07:39	Matrix:	Soil
Percent Solids:	79.00	Prep Method:	EPA 3550B	File ID:	G14838.D
Prep Batch:	B5L3001	Sequence:	S5L3002	Analyzed:	12/30/15 13:54
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	21.0	42.2	U
11141-16-5	Aroclor-1232	ND	21.0	42.2	U
53469-21-9	Aroclor-1242	ND	21.0	42.2	U
12672-29-6	Aroclor-1248	ND	21.0	42.2	U
11097-69-1	Aroclor-1254	ND	21.0	42.2	U
11096-82-5	Aroclor-1260	ND	21.0	42.2	U
37324-23-5	Aroclor-1262	ND	21.0	42.2	U
11100-14-4	Aroclor-1268	ND	21.0	42.2	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	88.5%	30-150
Tetrachloro-m-xylene [2C]	82.4%	30-150
Decachlorobiphenyl	101%	30-150
Decachlorobiphenyl [2C]	100%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-19
Lab Sample ID: 1502333-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Date Sampled:	12/28/15 09:05	Matrix:	Soil
Percent Solids:	79.00	File ID:	123015B-012

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	8440	25.3	25.3	1		12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0949	0.0949	1	U	12/30/15 07:44	EPA 7471A	12/30/15 10:49 PRT	EPA 7471
7440-36-0	Antimony	ND	5.06	5.06	1	U	12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7440-38-2	Arsenic	1.85	1.27	1.27	1		12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7440-39-3	Barium	39.1	25.3	25.3	1		12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.633	0.633	1	U	12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.633	0.633	1	U	12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7440-70-2	Calcium	1630	31.6	31.6	1		12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7440-47-3	Chromium	13.6	2.53	2.53	1		12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7440-48-4	Cobalt	8.24	6.33	6.33	1		12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7440-50-8	Copper	13.3	3.80	3.80	1		12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7439-89-6	Iron	12200	31.6	31.6	1		12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7439-92-1	Lead	8.20	1.27	1.27	1		12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7439-95-4	Magnesium	4060	63.3	63.3	1		12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7439-96-5	Manganese	98.8	2.53	2.53	1		12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7440-02-0	Nickel	15.2	5.06	5.06	1		12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7440-09-7	Potassium	994	63.3	63.3	1		12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7782-49-2	Selenium	ND	5.06	5.06	1	U	12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7440-22-4	Silver	ND	0.633	0.633	1	U	12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7440-23-5	Sodium	124	63.3	63.3	1		12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7440-28-0	Thallium	ND	1.90	3.80	1	U	12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7440-62-2	Vanadium	12.7	6.33	6.33	1		12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010
7440-66-6	Zinc	45.5 J	7.59	7.59	1		12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MKP 10/25/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-19
Lab Sample ID: 1502333-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Date Sampled:	12/28/15 09:05	Matrix:	Soil
Percent Solids:	79.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	13.6	2.00	2.00	1		01/04/16 09:22	[CALC]	01/05/16 15:12 HTW	[CALC]
1854-02-99	Chromium, Hexava	ND	2.53	2.53	1	U	01/04/16 09:22	SW 846 3060A	01/05/16 15:12 HTW	EPA 7196A
NA	Cyanide (total)	ND	1.27	1.27	1	U	01/04/16 09:25	EPA 9010C	01/05/16 12:28 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	79.0	0.100	0.100	1		12/30/15 16:00	Percent Solids	01/04/16 09:32 CLD	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-19

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2811	Prep Method:	EPA 5035A
Percent Solids:	79.00	Laboratory ID:	B5L2811-MS1
		Client Sample ID:	1502333-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Acrolein	316	ND	219	69		40 - 160
Acrylonitrile	316	ND	253	80		70 - 130
Acetone	63.3	9.22	78.6	110		40 - 160
Dichlorodifluoromethane	63.3	ND	33.3	53		40 - 160
Chloromethane	63.3	ND	41.6	66		40 - 160
Vinyl chloride	63.3	ND	45.5	72		70 - 130
Bromomethane	63.3	ND	49.8	79		40 - 160
Chloroethane	63.3	ND	48.8	77		40 - 160
Trichlorofluoromethane	63.3	ND	50.9	80		40 - 160
Freon 113	63.3	ND	47.4	75		70 - 130
1,1-Dichloroethene	63.3	ND	56.3	89		70 - 130
Carbon disulfide	63.3	ND	56.1	89		70 - 130
Methyl Acetate	63.3	ND	85.0	134	*	70 - 130
Methylene Chloride	63.3	ND	83.5	132	*	70 - 130
trans-1,2-Dichloroethene	63.3	ND	63.8	101		70 - 130
1,1-Dichloroethane	63.3	ND	59.0	93		70 - 130
2,2-Dichloropropane	63.3	ND	61.3	97		70 - 130
2-Butanone	63.3	ND	56.9	90		40 - 160
cis-1,2-Dichloroethene	63.3	ND	56.2	89		70 - 130
Chloroform	63.3	ND	60.0	95		70 - 130
Bromochloromethane	63.3	ND	59.9	95		70 - 130
Cyclohexane	63.3	ND	48.0	76		70 - 130
1,1,1-Trichloroethane	63.3	ND	59.8	95		70 - 130
t-Butyl alcohol	633	ND	571	90		40 - 160
1,1-Dichloropropene	63.3	ND	57.5	91		70 - 130
Carbon Tetrachloride	63.3	ND	63.1	100		70 - 130
1,2-Dichloroethane	63.3	ND	65.3	103		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-19

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2811	Prep Method:	EPA 5035A
Percent Solids:	79.00	Laboratory ID:	B5L2811-MS1
		Client Sample ID:	1502333-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Benzene	63.3	ND	62.5	99	70 - 130
Trichloroethene	63.3	ND	58.8	93	70 - 130
Methylcyclohexane	63.3	ND	47.8	76	70 - 130
1,2-Dichloropropane	63.3	ND	62.1	98	70 - 130
Bromodichloromethane	63.3	ND	63.3	100	70 - 130
Dibromomethane	63.3	ND	60.6	96	70 - 130
2-Chloroethyl vinyl ether	63.3	ND	57.8	91	40 - 160
cis-1,3-Dichloropropene	63.3	ND	58.4	92	70 - 130
Toluene	63.3	ND	58.2	92	70 - 130
trans-1,3-Dichloropropene	63.3	ND	56.5	89	70 - 130
1,1,2-Trichloroethane	63.3	ND	61.1	97	70 - 130
4-Methyl-2-pentanone	63.3	ND	61.4	97	40 - 160
1,2-Dibromoethane	63.3	ND	60.5	96	70 - 130
2-Hexanone	63.3	ND	64.9	102	40 - 160
1,3-Dichloropropane	63.3	ND	62.9	99	70 - 130
Tetrachloroethene	63.3	ND	59.3	94	70 - 130
Dibromochloromethane	63.3	ND	65.7	104	70 - 130
Ethylbenzene	63.3	ND	60.5	96	70 - 130
Chlorobenzene	63.3	ND	59.8	94	70 - 130
1,1,1,2-Tetrachloroethane	63.3	ND	65.5	103	70 - 130
m,p-Xylenes	127	ND	118	94	70 - 130
o-Xylene	127	ND	117	92	70 - 130
Styrene	127	ND	113	89	70 - 130
Bromoform	63.3	ND	63.0	100	70 - 130
Isopropylbenzene	63.3	ND	71.4	113	70 - 130
1,1,2,2-Tetrachloroethane	63.3	ND	76.2	120	70 - 130
1,2,3-Trichloropropane	63.3	ND	75.7	120	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-19

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2811	Prep Method:	EPA 5035A
Percent Solids:	79.00	Laboratory ID:	B5L2811-MS1
		Client Sample ID:	1502333-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
n-Propyl Benzene	63.3	ND	66.6	105		70 - 130
Bromobenzene	63.3	ND	68.8	109		70 - 130
1,3,5-Trimethylbenzene	63.3	ND	67.8	107		70 - 130
2-Chlorotoluene	63.3	ND	67.9	107		70 - 130
4-Chlorotoluene	63.3	ND	63.8	101		70 - 130
tert-Butylbenzene	63.3	ND	67.7	107		70 - 130
1,2,4-Trimethylbenzene	63.3	ND	67.2	106		70 - 130
sec-Butylbenzene	63.3	ND	63.7	101		70 - 130
p-Isopropyltoluene	63.3	ND	63.3	100		70 - 130
1,3-Dichlorobenzene	63.3	ND	59.6	94		70 - 130
1,4-Dichlorobenzene	63.3	ND	59.3	94		70 - 130
n-Butyl Benzene	63.3	ND	55.6	88		70 - 130
1,2-Dichlorobenzene	63.3	ND	61.5	97		70 - 130
1,2-Dibromo-3-chloropropane	63.3	ND	77.3	122		40 - 160
1,2,4-Trichlorobenzene	63.3	ND	47.9	76		70 - 130
Hexachlorobutadiene	63.3	ND	43.2	68	*	70 - 130
Naphthalene	63.3	ND	57.8	91		40 - 160
1,2,3-Trichlorobenzene	63.3	ND	48.2	76		70 - 130
Methyl tert-Butyl Ether	127	ND	179	141	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-19

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2811	Prep Method:	EPA 5035A
Percent Solids:	79.00	Laboratory ID:	B5L2811-MSD1
		Client Sample ID:	1502333-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Acrolein	316	203	64	7	30	40 - 160
Acrylonitrile	316	272	86	7	30	70 - 130
Acetone	63.3	60.1	80	27	30	40 - 160
Dichlorodifluoromethane	63.3	29.4	46	12	30	40 - 160
Chloromethane	63.3	41.3	65	0.9	30	40 - 160
Vinyl chloride	63.3	45.3	71	0.5	30	70 - 130
Bromomethane	63.3	51.2	81	3	30	40 - 160
Chloroethane	63.3	50.3	80	3	30	40 - 160
Trichlorofluoromethane	63.3	53.5	85	5	30	40 - 160
Freon 113	63.3	49.1	78	3	30	70 - 130
1,1-Dichloroethene	63.3	58.5	92	4	30	70 - 130
Carbon disulfide	63.3	55.6	88	0.8	30	70 - 130
Methyl Acetate	63.3	70.9	112	18	30	70 - 130
Methylene Chloride	63.3	70.7	112	17	30	70 - 130
trans-1,2-Dichloroethene	63.3	54.9	87	15	30	70 - 130
1,1-Dichloroethane	63.3	63.7	101	8	30	70 - 130
2,2-Dichloropropane	63.3	64.8	102	5	30	70 - 130
2-Butanone	63.3	57.1	90	0.3	30	40 - 160
cis-1,2-Dichloroethene	63.3	57.7	91	3	30	70 - 130
Chloroform	63.3	63.1	100	5	30	70 - 130
Bromochloromethane	63.3	60.0	95	0.04	30	70 - 130
Cyclohexane	63.3	47.1	74	2	30	70 - 130
1,1,1-Trichloroethane	63.3	62.7	99	5	30	70 - 130
t-Butyl alcohol	633	589	93	3	30	40 - 160
1,1-Dichloropropene	63.3	53.4	84	7	30	70 - 130
Carbon Tetrachloride	63.3	61.0	96	3	30	70 - 130
1,2-Dichloroethane	63.3	64.8	102	0.9	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-19

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2811	Prep Method:	EPA 5035A
Percent Solids:	79.00	Laboratory ID:	B5L2811-MSD1
		Client Sample ID:	1502333-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	63.3	60.3	95	4	30	70 - 130
Trichloroethene	63.3	55.6	88	6	30	70 - 130
Methylcyclohexane	63.3	42.5	67 *	12	30	70 - 130
1,2-Dichloropropane	63.3	61.9	98	0.3	30	70 - 130
Bromodichloromethane	63.3	60.7	96	4	30	70 - 130
Dibromomethane	63.3	59.0	93	3	30	70 - 130
2-Chloroethyl vinyl ether	63.3	56.8	90	2	30	40 - 160
cis-1,3-Dichloropropene	63.3	56.0	88	4	30	70 - 130
Toluene	63.3	55.7	88	4	30	70 - 130
trans-1,3-Dichloropropene	63.3	54.2	86	4	30	70 - 130
1,1,2-Trichloroethane	63.3	59.8	94	2	30	70 - 130
4-Methyl-2-pentanone	63.3	58.8	93	4	30	40 - 160
1,2-Dibromoethane	63.3	57.5	91	5	30	70 - 130
2-Hexanone	63.3	64.5	102	0.5	30	40 - 160
1,3-Dichloropropane	63.3	65.1	103	3	30	70 - 130
Tetrachloroethene	63.3	57.9	91	2	30	70 - 130
Dibromochloromethane	63.3	65.4	103	0.6	30	70 - 130
Ethylbenzene	63.3	60.8	96	0.6	30	70 - 130
Chlorobenzene	63.3	58.4	92	2	30	70 - 130
1,1,1,2-Tetrachloroethane	63.3	66.2	105	1	30	70 - 130
m,p-Xylenes	127	117	93	1	30	70 - 130
o-Xylene	127	120	95	3	30	70 - 130
Styrene	127	111	87	2	30	70 - 130
Bromoform	63.3	64.3	102	2	30	70 - 130
Isopropylbenzene	63.3	75.6	119	6	30	70 - 130
1,1,2,2-Tetrachloroethane	63.3	85.7	135 *	12	30	70 - 130
1,2,3-Trichloropropane	63.3	83.6	132 *	10	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-19

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2811	Prep Method:	EPA 5035A
Percent Solids:	79.00	Laboratory ID:	B5L2811-MSD1
		Client Sample ID:	1502333-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
n-Propyl Benzene	63.3	69.9	110	5	30	70 - 130
Bromobenzene	63.3	72.6	115	5	30	70 - 130
1,3,5-Trimethylbenzene	63.3	71.5	113	5	30	70 - 130
2-Chlorotoluene	63.3	71.0	112	4	30	70 - 130
4-Chlorotoluene	63.3	67.2	106	5	30	70 - 130
tert-Butylbenzene	63.3	71.1	112	5	30	70 - 130
1,2,4-Trimethylbenzene	63.3	70.5	111	5	30	70 - 130
sec-Butylbenzene	63.3	65.4	103	3	30	70 - 130
p-Isopropyltoluene	63.3	65.1	103	3	30	70 - 130
1,3-Dichlorobenzene	63.3	60.4	96	1	30	70 - 130
1,4-Dichlorobenzene	63.3	60.4	95	2	30	70 - 130
n-Butyl Benzene	63.3	55.1	87	0.8	30	70 - 130
1,2-Dichlorobenzene	63.3	63.5	100	3	30	70 - 130
1,2-Dibromo-3-chloropropane	63.3	73.0	115	6	30	40 - 160
1,2,4-Trichlorobenzene	63.3	44.9	71	6	30	70 - 130
Hexachlorobutadiene	63.3	42.1	67 *	2	30	70 - 130
Naphthalene	63.3	56.2	89	3	30	40 - 160
1,2,3-Trichlorobenzene	63.3	43.4	69 *	11	30	70 - 130
Methyl tert-Butyl Ether	127	167	132 *	7	30	70 - 130

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502333
Project: 255 East 138th Street, Bronx, NY

Calibration:	15L1401	Instrument:	GC/MS D
		Calibration Date:	12/1/2015 7:29:13PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	1.027946E-02	10.82104		
Acrylonitrile	9.672611E-02	6.510138		
Acetone	0.157306	42.33686		
Dichlorodifluoromethane	0.4967151	13.91056		
Chloromethane	1.126771	3.429468	SPCC (0.1)	
Vinyl chloride	1.179116	3.32457	CCC (20)	
Bromomethane	0.7400397	2.267457		
Chloroethane	1.037875	5.077389		
Trichlorofluoromethane	0.8967936	4.06701		
Freon 113	0.7829055	8.411971		
1,1-Dichloroethene	1.080892	8.590248	CCC (20)	
Carbon disulfide	1.698673	7.889689		
Methyl Acetate	0.2575179	9.127351		
Methylene Chloride	1.263766	54.75354		
trans-1,2-Dichloroethene	0.9407191	6.744489		
1,1-Dichloroethane	1.192587	6.775722	SPCC (0.1)	
Vinyl acetate	0.8345188	5.816735		
2,2-Dichloropropane	0.7727925	5.27732		
2-Butanone	0.1732374	8.217978		
cis-1,2-Dichloroethene	0.8724462	6.165484		
Chloroform	0.8278822	5.654672	CCC (20)	
Bromochloromethane	0.2997968	5.968461		
Cyclohexane	1.449462	9.49653		
1,1,1-Trichloroethane	0.6357207	5.828603		
t-Butyl alcohol	2.521052E-02	6.475355		

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1502333		
Project:	255 East 138th Street, Bronx, NY		
Instrument ID:	GC/MS D	Calibration:	15L1401
Lab File ID:	D13588.D	Calibration Date:	12/01/15 19:29
Sequence:	S5L2808	Injection Date:	12/28/15
Lab Sample ID:	S5L2808-CCV1	Injection Time:	09:40

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	L	250	202	1.027946E-02	8.32163E-03		-19.0	
Acrylonitrile	A	250	225	9.672611E-02	0.0870965		-10.0	
Acetone	L	50.0	45.3	0.157306	0.1117661		-28.9	
Dichlorodifluoromethane	Q	50.0	42.4	0.4967151	0.4206933		-15.3	
Chloromethane	A	50.0	41.7	1.126771	0.9388451	0.1	-16.7	
Vinyl chloride	A	50.0	47.2	1.179116	1.11375		-5.5	20
Bromomethane	A	50.0	46.9	0.7400397	0.694117		-6.2	
Chloroethane	A	50.0	48.5	1.037875	1.00705		-3.0	
Trichlorofluoromethane	A	50.0	52.4	0.8967936	0.9407163		4.9	
Freon 113	A	50.0	45.9	0.7829055	0.7190567		-8.2	
1,1-Dichloroethene	A	50.0	46.6	1.080892	1.007675		-6.8	20
Carbon disulfide	A	50.0	40.4	1.698673	1.372406		-19.2	
Methyl Acetate	A	50.0	48.5	0.2575179	0.24957		-3.1	
Methylene Chloride	L	50.0	56.3	1.263766	0.9793792		-22.5	
trans-1,2-Dichloroethene	A	50.0	48.5	0.9407191	0.9126427		-3.0	
1,1-Dichloroethane	A	50.0	49.4	1.192587	1.177141	0.1	-1.3	
Vinyl acetate	A	50.0	44.1	0.8345188	0.7366922		-11.7	
2,2-Dichloropropane	A	50.0	54.2	0.7727925	0.8372175		8.3	
2-Butanone	A	50.0	51.1	0.1732374	0.1771811		2.3	
cis-1,2-Dichloroethene	A	50.0	50.3	0.8724462	0.878074		0.6	
Chloroform	A	50.0	52.8	0.8278822	0.8740427		5.6	20
Bromochloromethane	A	50.0	49.9	0.2997968	0.299186		-0.2	
Cyclohexane	A	50.0	46.3	1.449462	1.341977		-7.4	

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5L3003	Lab Sample ID:	B5L3003-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1010	61	20 - 160
N-Nitrosodimethylamine	1670	1140	68	20 - 160
Aniline	1670	973	58	20 - 160
Phenol	1670	1490	90	20 - 160
bis(2-chloroethyl)ether	1670	1390	83	70 - 130
2-Chlorophenol	1670	1460	88	70 - 130
1,3-Dichlorobenzene	1670	1370	82	70 - 130
1,4-Dichlorobenzene	1670	1380	83	70 - 130
Benzyl alcohol	1670	1500	90	20 - 160
1,2-Dichlorobenzene	1670	1430	86	70 - 130
2-Methylphenol	1670	1580	95	20 - 160
bis(2-chloroisopropyl)ether	1670	1450	87	70 - 130
3 & 4-Methylphenol	1670	1590	95	20 - 160
N-Nitroso-di-n-propylamine	1670	1520	91	70 - 130
Hexachloroethane	1670	1410	85	20 - 160
Nitrobenzene	1670	1500	90	70 - 130
Isophorone	1670	1480	89	70 - 130
2-Nitrophenol	1670	1540	92	70 - 130
2,4-Dimethylphenol	1670	1440	86	70 - 130
bis(2-chloroethoxy)methane	1670	1530	92	70 - 130
2,4-Dichlorophenol	1670	1620	97	70 - 130
1,2,4-Trichlorobenzene	1670	1510	91	70 - 130
Naphthalene	1670	1500	90	70 - 130
4-Chloroaniline	1670	264	16 *	70 - 130
Hexachlorobutadiene	1670	1460	88	70 - 130
4-Chloro-3-methylphenol	1670	1640	98	70 - 130
2-Methylnaphthylene	1670	1540	92	70 - 130
Hexachlorocyclopentadiene	1670	1030	62	20 - 160

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5L3003	Lab Sample ID:	B5L3003-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2,4,6-Trichlorophenol	1670	1570	94	70 - 130
2,4,5-Trichlorophenol	1670	1620	97	70 - 130
2-Chloronaphthalene	1670	1380	83	70 - 130
2-Nitroaniline	1670	1630	98	70 - 130
Dimethylphthalate	1670	1730	104	70 - 130
Acenaphthylene	1670	1560	94	70 - 130
3-Nitroaniline	1670	1010	60	70 - 130
Acenaphthene	1670	1530	92	70 - 130
2,4-Dinitrophenol	1670	1130	68	20 - 160
4-Nitrophenol	1670	1770	106	20 - 160
Dibenzofuran	1670	1640	99	70 - 130
2,6-Dinitrotoluene	1670	1650	99	70 - 130
2,4-Dinitrotoluene	1670	1830	110	70 - 130
2,3,4,6-Tetrachlorophenol	1670	1710	102	70 - 130
Diethyl phthalate	1670	1720	103	70 - 130
4-Chlorophenyl-phenylether	1670	1570	94	70 - 130
Fluorene	1670	1630	98	70 - 130
4-Nitroaniline	1670	1680	101	70 - 130
4,6-Dinitro-2-methylphenol	1670	1420	85	70 - 130
Carbazole	1670	1740	104	70 - 130
N-Nitrosodiphenylamine	1670	1720	103	20 - 160
Azobenzene	1670	1690	102	70 - 130
4-Bromophenyl-phenylether	1670	1730	104	70 - 130
Hexachlorobenzene	1670	1730	104	70 - 130
Pentachlorophenol	1670	1490	90	20 - 160
Phenanthrene	1670	1710	102	70 - 130
Anthracene	1670	1700	102	70 - 130
Di-n-butyl phthalate	1670	1680	101	70 - 130

Accredited Analytical Resources, LLC.

SERIAL DILUTION

EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502333
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Matrix:	Solid	Laboratory ID:	S5L2912-SRD1
Sequence:	S5L2912	Source:	EP-19

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Lead	8.20	8.46	3.08		10.00
Antimony	ND	ND	N/A		10.00
Arsenic	1.85	ND	N/A		10.00
Barium	39.1	ND	N/A		10.00
Beryllium	ND	ND	N/A		10.00
Cadmium	ND	ND	N/A		10.00
Calcium	1630	1650	1.02		10.00
Chromium	13.6	13.5	0.421		10.00
Cobalt	8.24	ND	N/A		10.00
Aluminum	8440	8360	0.866		10.00
Iron	12200	12500	2.50		10.00
Zinc	45.5	50.8	11.0	*	10.00
Magnesium	4060	4040	0.422		10.00
Manganese	98.8	98.8	0.00		10.00
Nickel	15.2	ND	N/A		10.00
Potassium	994	1010	2.02		10.00
Selenium	ND	ND	N/A		10.00
Silver	ND	ND	N/A		10.00
Sodium	124	ND	N/A		10.00
Thallium	ND	ND	N/A		10.00
Vanadium	12.7	ND	N/A		10.00
Copper	13.3	ND	N/A		10.00

* Values outside of QC limits

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1600232

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

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REVIEWER'S NARRATIVE
SDG 1600232

The data associated with this Sample Delivery Group (SDG) 1600232, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 10/26/16

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx, NY
SAMPLING DATE:	February 10, 2016
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1600232

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on February 10, 2016. This sample was analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1600232. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1600232, one sample was analyzed and results were reported for 191 analytes. Even though some results were flagged with a "J", all results (100 %) are considered usable. See the summary table for the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-20	Acetone	J all data 10X MB value	Detected in the method blank	No data affected
EP-20	Acetone Methylene Chloride	J detects	ICV RPD > 20 %	Sample detects are estimated
EP-20	Acetone Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-20	3-Nitroaniline 4-Chloroaniline bis(2-Chloroisopropyl)ether	"UJ"	LCS < 70 % QC limit	All samples non-detect
EP-20	2,4-Dinitrophenol	J detects	ICV > 40 %	All samples non-detect
EP-20	4,6-Dinitro-2-methylphenol n-Nitrosodiphenylamin4-Bromopenyl-phenylether Hexachlorobenzene Hexachlorobenzene Pentachlorophenol Phenanthrene Anthracene Di-n-butylphthalate Fluoranthene	UJ non-detect J detects	IS #4 area < 50 % QC limit	Sample data is estimated

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-20	Toxaphene	J detects	ICV > 20 %	All samples non-detect

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-6 Wet Chemistry

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 E. 138th Street

AAR Work Order: 1600232

Client Sample ID:	Lab Sample ID:
EP-20	1600232-01
EP-20	1600232-01RE1

This data has been reviewed and accepted by:

Daniel Miguel 03/10/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 E. 138th Street) on 02/10/2016 13:00.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the MDL level was elevated due to matrix interference.

In the Volatile Organic analyses, B6B1514-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6B1101 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6B1101 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B6B1201-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those compounds out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #:	732-223-2225
OFFICE FAX #:	732-223-3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1690232
P.O. #	10BR.188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL Full	TCL Full	Hex Chrom	Tri Chrom									AAR SAMPLE #
EP-20	2/10/16/10:15	S		4	G	✓	✓	✓	✓									-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 1 week
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Forte NYSDEC category B data deliverable - Send invoice to Brinkenv COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Monica Norton	Signature: K. Muniz	Signature:	Signature:
Agent of: BES	Agent of: AAR	Agent of:	Agent of:
Date Received: 2/10/16	Time: 1300	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/12/16 16:25	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14126.D
Prep Batch:	B6B1509	Sequence:	S6B1503	Analyzed:	02/12/16 16:25
Dilution:	200			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	1450	2410	U
107-13-1	Acrylonitrile	ND	482	2410	U
67-64-1	Acetone	ND UJ	241	482	U
75-71-8	Dichlorodifluoromethane	ND	241	482	U
74-87-3	Chloromethane	ND	241	482	U
75-01-4	Vinyl chloride	ND	241	482	U
74-83-9	Bromomethane	ND	241	482	U
75-00-3	Chloroethane	ND	241	482	U
75-69-4	Trichlorofluoromethane	ND	241	482	U
75-35-4	1,1-Dichloroethene	ND	241	482	U
75-15-0	Carbon disulfide	ND	241	482	U
75-09-2	Methylene Chloride	ND UJ	241	482	U
156-60-5	trans-1,2-Dichloroethene	ND	241	482	U
75-34-3	1,1-Dichloroethane	ND	241	482	U
108-05-4	Vinyl acetate	ND	241	482	U
590-20-7	2,2-Dichloropropane	ND	241	482	U
78-93-3	2-Butanone	ND	241	482	U
156-59-4	cis-1,2-Dichloroethene	ND	241	482	U
67-66-3	Chloroform	ND	241	482	U
74-97-5	Bromochloromethane	ND	241	482	U
71-55-6	1,1,1-Trichloroethane	ND	241	482	U
563-58-6	1,1-Dichloropropene	ND	241	482	U
56-23-5	Carbon Tetrachloride	ND	241	482	U
107-06-2	1,2-Dichloroethane	ND	241	482	U
71-43-2	Benzene	798	241	482	D

MXP 10/26/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/12/16 16:25	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14126.D
Prep Batch:	B6B1509	Sequence:	S6B1503	Analyzed:	02/12/16 16:25
Dilution:	200			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	241	482	U
78-87-5	1,2-Dichloropropane	ND	241	482	U
75-27-4	Bromodichloromethane	ND	241	482	U
74-95-3	Dibromomethane	ND	241	482	U
110-75-8	2-Chloroethyl vinyl ether	ND	241	482	U
10061-01-5	cis-1,3-Dichloropropene	ND	241	482	U
108-88-3	Toluene	11700	241	482	D
10061-02-6	trans-1,3-Dichloropropene	ND	241	482	U
79-00-5	1,1,2-Trichloroethane	ND	241	482	U
108-10-1	4-Methyl-2-pentanone	ND	241	482	U
106-93-4	1,2-Dibromoethane	ND	241	482	U
591-78-6	2-Hexanone	ND	241	482	U
142-28-9	1,3-Dichloropropane	ND	241	482	U
127-18-4	Tetrachloroethene	ND	241	482	U
124-48-1	Dibromochloromethane	ND	241	482	U
100-41-4	Ethylbenzene	20400	241	482	D
108-90-7	Chlorobenzene	ND	241	482	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	241	482	U
108-38-3/106-42	m,p-Xylenes	83600	482	964	D
95-47-6	o-Xylene	42300	482	964	D
100-42-5	Styrene	ND	241	964	U
75-25-2	Bromoform	ND	241	482	U
98-82-8	Isopropylbenzene	5920	241	482	D
79-34-5	1,1,2,2-Tetrachloroethane	ND	241	482	U
96-18-4	1,2,3-Trichloropropane	ND	241	482	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/12/16 16:25	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14126.D
Prep Batch:	B6B1509	Sequence:	S6B1503	Analyzed:	02/12/16 16:25
Dilution:	200			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	19400	241	482	D
108-86-1	Bromobenzene	ND	241	482	U
108-67-8	1,3,5-Trimethylbenzene	35100	241	482	D
95-49-8	2-Chlorotoluene	ND	241	482	U
106-43-4	4-Chlorotoluene	ND	241	482	U
98-06-6	tert-Butylbenzene	ND	241	482	U
95-63-6	1,2,4-Trimethylbenzene	112000	241	482	D, E
135-98-8	sec-Butylbenzene	7650	241	482	D
99-87-6	p-Isopropyltoluene	4540	241	482	D
541-73-1	1,3-Dichlorobenzene	ND	241	482	U
106-46-7	1,4-Dichlorobenzene	ND	241	482	U
104-51-8	n-Butyl Benzene	16500	241	482	D
95-50-1	1,2-Dichlorobenzene	ND	241	482	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	241	482	U
120-82-1	1,2,4-Trichlorobenzene	ND	241	482	U
87-68-3	Hexachlorobutadiene	ND	241	482	U
87-61-6	1,2,3-Trichlorobenzene	ND	241	482	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	101%	70-130
Toluene-d8	104%	70-130
Bromofluorobenzene	109%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01RE1
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/15/16 15:48	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14142.D
Prep Batch:	B6B1514	Sequence:	S6B1511	Analyzed:	02/15/16 15:48
Dilution:	1000			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7230	12000	U
107-13-1	Acrylonitrile	ND	2410	12000	U
67-64-1	Acetone	ND UJ	1200	2410	U
75-71-8	Dichlorodifluoromethane	ND UJ	1200	2410	U
74-87-3	Chloromethane	ND	1200	2410	U
75-01-4	Vinyl chloride	ND	1200	2410	U
74-83-9	Bromomethane	ND	1200	2410	U
75-00-3	Chloroethane	ND	1200	2410	U
75-69-4	Trichlorofluoromethane	ND	1200	2410	U
75-35-4	1,1-Dichloroethene	ND	1200	2410	U
75-15-0	Carbon disulfide	ND	1200	2410	U
75-09-2	Methylene Chloride	ND UJ	1200	2410	U
156-60-5	trans-1,2-Dichloroethene	ND	1200	2410	U
75-34-3	1,1-Dichloroethane	ND	1200	2410	U
108-05-4	Vinyl acetate	ND	1200	2410	U
590-20-7	2,2-Dichloropropane	ND	1200	2410	U
78-93-3	2-Butanone	ND	1200	2410	U
156-59-4	cis-1,2-Dichloroethene	ND	1200	2410	U
67-66-3	Chloroform	ND	1200	2410	U
74-97-5	Bromochloromethane	ND	1200	2410	U
71-55-6	1,1,1-Trichloroethane	ND	1200	2410	U
563-58-6	1,1-Dichloropropene	ND	1200	2410	U
56-23-5	Carbon Tetrachloride	ND	1200	2410	U
107-06-2	1,2-Dichloroethane	ND	1200	2410	U
71-43-2	Benzene	ND	1200	2410	U

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01RE1
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/15/16 15:48	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14142.D
Prep Batch:	B6B1514	Sequence:	S6B1511	Analyzed:	02/15/16 15:48
Dilution:	1000			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1200	2410	U
78-87-5	1,2-Dichloropropane	ND	1200	2410	U
75-27-4	Bromodichloromethane	ND	1200	2410	U
74-95-3	Dibromomethane	ND	1200	2410	U
110-75-8	2-Chloroethyl vinyl ether	ND	1200	2410	U
10061-01-5	cis-1,3-Dichloropropene	ND	1200	2410	U
108-88-3	Toluene	11300	1200	2410	D
10061-02-6	trans-1,3-Dichloropropene	ND	1200	2410	U
79-00-5	1,1,2-Trichloroethane	ND	1200	2410	U
108-10-1	4-Methyl-2-pentanone	ND	1200	2410	U
106-93-4	1,2-Dibromoethane	ND	1200	2410	U
591-78-6	2-Hexanone	ND	1200	2410	U
142-28-9	1,3-Dichloropropane	ND	1200	2410	U
127-18-4	Tetrachloroethene	ND	1200	2410	U
124-48-1	Dibromochloromethane	ND	1200	2410	U
100-41-4	Ethylbenzene	20400	1200	2410	D
108-90-7	Chlorobenzene	ND	1200	2410	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1200	2410	U
108-38-3/106-42	m,p-Xylenes	82000	2410	4820	D
95-47-6	o-Xylene	41800	2410	4820	D
100-42-5	Styrene	ND	1200	4820	U
75-25-2	Bromoform	ND	1200	2410	U
98-82-8	Isopropylbenzene	6600	1200	2410	D
79-34-5	1,1,2,2-Tetrachloroethane	ND	1200	2410	U
96-18-4	1,2,3-Trichloropropane	ND	1200	2410	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01RE1
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/15/16 15:48	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14142.D
Prep Batch:	B6B1514	Sequence:	S6B1511	Analyzed:	02/15/16 15:48
Dilution:	1000			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	20600	1200	2410	D
108-86-1	Bromobenzene	ND	1200	2410	U
108-67-8	1,3,5-Trimethylbenzene	38300	1200	2410	D
95-49-8	2-Chlorotoluene	ND	1200	2410	U
106-43-4	4-Chlorotoluene	ND	1200	2410	U
98-06-6	tert-Butylbenzene	ND	1200	2410	U
95-63-6	1,2,4-Trimethylbenzene	131000	1200	2410	D
135-98-8	sec-Butylbenzene	8720	1200	2410	D
99-87-6	p-Isopropyltoluene	4800	1200	2410	D
541-73-1	1,3-Dichlorobenzene	ND	1200	2410	U
106-46-7	1,4-Dichlorobenzene	ND	1200	2410	U
104-51-8	n-Butyl Benzene	18400	1200	2410	D
95-50-1	1,2-Dichlorobenzene	ND	1200	2410	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1200	2410	U
120-82-1	1,2,4-Trichlorobenzene	ND	1200	2410	U
87-68-3	Hexachlorobutadiene	ND	1200	2410	U
87-61-6	1,2,3-Trichlorobenzene	ND	1200	2410	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	106%	70-130
Toluene-d8	102%	70-130
Bromofluorobenzene	99%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/11/16 06:45	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 3550B GCMS	File ID:	F12764.D
Prep Batch:	B6B1101	Sequence:	S6B1507	Analyzed:	02/15/16 21:03
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	40.1	201	U
108-95-2	Phenol	ND	40.1	201	U
111-44-4	bis(2-chloroethyl)ether	ND	40.1	201	U
95-57-8	2-Chlorophenol	ND	40.1	201	U
541-73-1	1,3-Dichlorobenzene	ND	40.1	201	U
106-46-7	1,4-Dichlorobenzene	ND	40.1	201	U
100-51-6	Benzyl alcohol	ND	40.1	201	U
95-50-1	1,2-Dichlorobenzene	ND	40.1	201	U
95-48-7	2-Methylphenol	ND	40.1	201	U
39638-32-9	bis(2-chloroisopropyl)ether	ND UJ	40.1	201	U
106-44-5	3 & 4-Methylphenol	ND	40.1	201	U
621-64-7	N-Nitroso-di-n-propylamine	ND	40.1	201	U
67-72-1	Hexachloroethane	ND	40.1	201	U
98-95-3	Nitrobenzene	ND	40.1	201	U
78-59-1	Isophorone	ND	40.1	201	U
88-75-5	2-Nitrophenol	ND	40.1	201	U
105-67-9	2,4-Dimethylphenol	ND	40.1	201	U
65-85-0	Benzoic acid	ND	100	401	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.1	201	U
120-83-2	2,4-Dichlorophenol	ND	40.1	201	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.1	201	U
91-20-3	Naphthalene	2430	40.1	201	
106-47-8	4-Chloroaniline	ND UJ	40.1	201	U
87-68-3	Hexachlorobutadiene	ND	40.1	201	U
59-50-7	4-Chloro-3-methylphenol	ND	40.1	201	U

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/11/16 06:45	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 3550B GCMS	File ID:	F12764.D
Prep Batch:	B6B1101	Sequence:	S6B1507	Analyzed:	02/15/16 21:03
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	4050	40.1	201	
77-47-4	Hexachlorocyclopentadiene	ND	40.1	201	U
88-06-2	2,4,6-Trichlorophenol	ND	40.1	201	U
95-95-4	2,4,5-Trichlorophenol	ND	40.1	201	U
91-58-7	2-Chloronaphthalene	ND	40.1	201	U
88-74-4	2-Nitroaniline	ND	40.1	201	U
131-11-3	Dimethylphthalate	ND	40.1	201	U
208-96-8	Acenaphthylene	ND	40.1	201	U
99-09-2	3-Nitroaniline	ND UJ	40.1	201	U
83-32-9	Acenaphthene	ND	40.1	201	U
51-28-5	2,4-Dinitrophenol	ND	40.1	401	U
100-02-7	4-Nitrophenol	ND	40.1	201	U
132-64-9	Dibenzofuran	ND	40.1	201	U
606-20-2	2,6-Dinitrotoluene	ND	40.1	201	U
121-14-2	2,4-Dinitrotoluene	ND	40.1	201	U
84-66-2	Diethyl phthalate	ND	40.1	201	U
7005-72-3	4-Chlorophenyl-phenylether	ND	40.1	201	U
86-73-7	Fluorene	490	40.1	201	
100-01-6	4-Nitroaniline	ND	40.1	201	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.1	201	U
86-30-6	N-Nitrosodiphenylamine	ND	40.1	201	U
101-55-3	4-Bromophenyl-phenylether	ND	40.1	201	U
118-74-1	Hexachlorobenzene	ND	40.1	201	U
87-86-5	Pentachlorophenol	ND	40.1	201	U
85-01-8	Phenanthrene	964 J	40.1	201	

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/11/16 06:45	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 3550B GCMS	File ID:	F12764.D
Prep Batch:	B6B1101	Sequence:	S6B1507	Analyzed:	02/15/16 21:03
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND UJ	40.1	201	U
84-74-2	Di-n-butyl phthalate	ND	40.1	201	U
206-44-0	Fluoranthene	ND	40.1	201	U
129-00-0	Pyrene	396 J	40.1	201	
85-68-7	Butylbenzylphthalate	ND UJ	40.1	201	U
91-94-1	3,3'-Dichlorobenzidine	ND	100	201	U
56-55-3	Benzo[a]anthracene	ND	40.1	201	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	40.1	201	U
218-01-9	Chrysene	ND	40.1	201	U
117-84-0	Di-n-octyl phthalate	ND	40.1	201	U
205-99-2	Benzo[b]fluoranthene	ND	40.1	201	U
207-08-9	Benzo[k]fluoranthene	ND	40.1	201	U
50-32-8	Benzo[a]pyrene	ND	40.1	201	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	40.1	201	U
53-70-3	Dibenzo(a,h)anthracene	ND	40.1	201	U
191-24-2	Benzo[ghi]perylene	ND	40.1	201	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	61%	30-130
Phenol-d5	71%	30-130
Nitrobenzene-d5	99%	30-130
2-Fluorobiphenyl	82%	30-130
2,4,6-Tribromophenol	91%	30-130
Terphenyl-d14	99%	30-130

MKP 10/26/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/12/16 05:58	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 3550B	File ID:	G15425.D
Prep Batch:	B6B1201	Sequence:	S6B1501	Analyzed:	02/15/16 13:15
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.795	0.795	U
319-85-7	beta-BHC	ND	0.795	0.795	U
319-86-8	delta-BHC	ND	0.795	0.795	U
58-89-9	gamma-BHC [Lindane]	ND	0.795	0.795	U
76-44-8	Heptachlor	ND	0.795	0.795	U
309-00-2	Aldrin	ND	0.795	0.795	U
1024-57-3	Heptachlor Epoxide	ND	0.795	0.795	U
959-98-8	Endosulfan I	ND	0.795	0.795	U
60-57-1	Dieldrin	ND	1.60	1.60	U
72-55-9	4,4'-DDE	ND	1.60	1.60	U
72-20-8	Endrin	ND	1.60	1.60	U
33213-65-9	Endosulfan II	ND	1.60	1.60	U
72-54-8	4,4'-DDD	ND	1.60	1.60	U
1031-07-8	Endosulfan sulfate	ND	1.60	1.60	U
50-29-3	4,4'-DDT	ND	1.60	1.60	U
72-43-5	Methoxychlor	ND	2.41	8.02	U
53494-70-5	Endrin ketone	ND	1.60	1.60	U
7421-93-4	Endrin aldehyde	ND	1.60	1.60	U
5103-71-9	alpha-Chlordane	ND	0.795	0.795	U
5566-34-7	gamma-Chlordane	ND	0.795	0.795	U
8001-35-2	Toxaphene	ND	40.1	40.1	U
12674-11-2	Aroclor-1016	ND	20.0	40.1	U

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ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/12/16 05:58	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 3550B	File ID:	G15425.D
Prep Batch:	B6B1201	Sequence:	S6B1501	Analyzed:	02/15/16 13:15
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.0	40.1	U
11141-16-5	Aroclor-1232	ND	20.0	40.1	U
53469-21-9	Aroclor-1242	ND	20.0	40.1	U
12672-29-6	Aroclor-1248	ND	20.0	40.1	U
11097-69-1	Aroclor-1254	ND	20.0	40.1	U
11096-82-5	Aroclor-1260	ND	20.0	40.1	U
37324-23-5	Aroclor-1262	ND	20.0	40.1	U
11100-14-4	Aroclor-1268	ND	20.0	40.1	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	79.6%	30-150
Tetrachloro-m-xylene [2C]	62.3%	30-150
Decachlorobiphenyl	83.3%	30-150
Decachlorobiphenyl [2C]	87.4%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Matrix:	Soil
Percent Solids:	83.00	File ID:	021216A-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	9020	24.1	24.1	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0904	0.0904	1	U	02/11/16 11:16	EPA 7471A	02/11/16 15:37 PRT	EPA 7471
7440-36-0	Antimony	ND	4.82	4.82	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-38-2	Arsenic	1.91	1.20	1.20	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-39-3	Barium	54.5	24.1	24.1	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.602	0.602	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.602	0.602	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-70-2	Calcium	2410	30.1	30.1	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-47-3	Chromium	19.4	2.41	2.41	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-48-4	Cobalt	9.45	6.02	6.02	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-50-8	Copper	18.0	3.61	3.61	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7439-89-6	Iron	13500	30.1	30.1	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7439-92-1	Lead	9.03	1.20	1.20	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7439-95-4	Magnesium	4150	60.2	60.2	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7439-96-5	Manganese	297	2.41	2.41	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-02-0	Nickel	15.6	4.82	4.82	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-09-7	Potassium	2190	60.2	60.2	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7782-49-2	Selenium	ND	4.82	4.82	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-22-4	Silver	ND	0.602	0.602	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-23-5	Sodium	129	60.2	60.2	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-28-0	Thallium	ND	1.81	3.61	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-62-2	Vanadium	27.6	6.02	6.02	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-66-6	Zinc	46.6	7.23	7.23	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Matrix:	Soil
Percent Solids:	83.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	19.4	2.00	2.00	1		02/11/16 11:25	[CALC]	02/12/16 13:30 HTW	[CALC]
1854-02-99	Chromium, Hexava	ND	2.41	2.41	1	U	02/11/16 08:10	SW 846 3060A	02/12/16 13:30 HTW	EPA 7196A
NA	Cyanide (total)	ND	1.20	1.20	1	U	02/12/16 08:18	EPA 9010C	02/12/16 16:04 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	83.0	0.100	0.100	1		02/11/16 09:16	Percent Solids	02/12/16 09:53 CLD	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1600232
Project: 255 E. 138th Street

Matrix:	Solid	Laboratory ID:	B6B1509-BLK1	File ID:	D14119.D
Batch:	B6B1509	Prepared:	02/12/16 12:38	Analyzed:	02/12/16 12:38
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S6B1503	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	1.38	1.00	2.00	J
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	ND	1.00	2.00	U
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1600232
Project: 255 E. 138th Street

Matrix:	Solid	Laboratory ID:	B6B1514-BLK1	File ID:	D14135.D
Batch:	B6B1514	Prepared:	02/15/16 11:56	Analyzed:	02/15/16 11:56
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S6B1511	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	1.82	1.00	2.00	J
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	ND	1.00	2.00	U
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1600232
Project: 255 E. 138th Street

Calibration:	16B0103	Instrument:	GC/MS D
		Calibration Date:	1/13/2016 11:35:31AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	6.146128E-02	2.874927		
Acrylonitrile	9.505254E-02	2.358214		
Acetone	0.1778063	59.26062		
Dichlorodifluoromethane	0.5333261	17.26882		
Chloromethane	1.153629	9.137487	SPCC (0.1)	
Vinyl chloride	1.245641	9.424884	CCC (20)	
Bromomethane	0.7822435	11.38695		
Chloroethane	1.176548	6.09933		
Trichlorofluoromethane	1.0037	8.597675		
Freon 113	0.8410225	6.228804		
1,1-Dichloroethene	1.120028	3.380351	CCC (20)	
Carbon disulfide	3.07762	7.204676		
Methyl Acetate	0.2602978	6.33881		
Methylene Chloride	1.385801	67.43246		
trans-1,2-Dichloroethene	0.9362637	4.912988		
1,1-Dichloroethane	1.156806	2.641378	SPCC (0.1)	
Vinyl acetate	0.8754107	5.917131		
2,2-Dichloropropane	0.7630224	7.937198		
2-Butanone	0.1718998	7.447569		
cis-1,2-Dichloroethene	0.8550773	6.269108		
Chloroform	0.7789182	2.767641	CCC (20)	
Bromochloromethane	0.2812929	3.261028		
Cyclohexane	1.473515	1.914229		
1,1,1-Trichloroethane	0.6140631	3.608313		
t-Butyl alcohol	2.480913E-02	4.360412		

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1600232		
Project:	255 E. 138th Street		
Instrument ID:	GC/MS D	Calibration:	16B0103
Lab File ID:	D14117.D	Calibration Date:	01/13/16 11:35
Sequence:	S6B1503	Injection Date:	02/12/16
Lab Sample ID:	S6B1503-CCV1	Injection Time:	11:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	223	6.146128E-02	5.490535E-02		-10.7	
Acrylonitrile	A	250	247	9.505254E-02	9.375427E-02		-1.4	
Acetone	Q	50.0	45.1	0.1778063	0.1314346		-26.1	
Dichlorodifluoromethane	Q	50.0	47.0	0.5333261	0.4282164		-19.7	
Chloromethane	A	50.0	41.2	1.153629	0.9496318	0.1	-17.7	
Vinyl chloride	A	50.0	42.7	1.245641	1.063976		-14.6	20
Bromomethane	A	50.0	45.8	0.7822435	0.7165441		-8.4	
Chloroethane	A	50.0	40.1	1.176548	0.9444466		-19.7	
Trichlorofluoromethane	A	50.0	44.0	1.0037	0.8832747		-12.0	
Freon 113	A	50.0	40.2	0.8410225	0.6757503		-19.7	
1,1-Dichloroethene	A	50.0	49.8	1.120028	1.115085		-0.4	20
Carbon disulfide	A	50.0	44.3	3.07762	2.728132		-11.4	
Methyl Acetate	A	50.0	44.5	0.2602978	0.2317579		-11.0	
Methylene Chloride	L	50.0	46.5	1.385801	0.8511453		-38.6	
trans-1,2-Dichloroethene	A	50.0	49.4	0.9362637	0.9247146		-1.2	
1,1-Dichloroethane	A	50.0	49.3	1.156806	1.141051	0.1	-1.4	
Vinyl acetate	A	50.0	48.1	0.8754107	0.8425756		-3.8	
2,2-Dichloropropane	A	50.0	47.6	0.7630224	0.7269221		-4.7	
2-Butanone	A	50.0	51.5	0.1718998	0.1769997		3.0	
cis-1,2-Dichloroethene	A	50.0	47.2	0.8550773	0.8063185		-5.7	
Chloroform	A	50.0	48.4	0.7789182	0.7545316		-3.1	20
Bromochloromethane	A	50.0	49.2	0.2812929	0.276914		-1.6	
Cyclohexane	A	50.0	41.8	1.473515	1.232148		-16.4	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1600232		
Project:	255 E. 138th Street		
Instrument ID:	GC/MS D	Calibration:	16B0103
Lab File ID:	D14133.D	Calibration Date:	01/13/16 11:35
Sequence:	S6B1511	Injection Date:	02/15/16
Lab Sample ID:	S6B1511-CCV1	Injection Time:	10:53

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	217	6.146128E-02	5.336311E-02		-13.2	
Acrylonitrile	A	250	243	9.505254E-02	9.247205E-02		-2.7	
Acetone	Q	50.0	44.1	0.1778063	0.1286308		-27.7	
Dichlorodifluoromethane	Q	50.0	45.0	0.5333261	0.4091782		-23.3	
Chloromethane	A	50.0	41.4	1.153629	0.9549051	0.1	-17.2	
Vinyl chloride	A	50.0	42.7	1.245641	1.064389		-14.6	20
Bromomethane	A	50.0	45.6	0.7822435	0.7141234		-8.7	
Chloroethane	A	50.0	42.0	1.176548	0.9887039		-16.0	
Trichlorofluoromethane	A	50.0	45.0	1.0037	0.9027594		-10.1	
Freon 113	A	50.0	40.0	0.8410225	0.6731661		-20.0	
1,1-Dichloroethene	A	50.0	50.0	1.120028	1.120932		0.08	20
Carbon disulfide	A	50.0	44.3	3.07762	2.725273		-11.4	
Methyl Acetate	A	50.0	45.6	0.2602978	0.237341		-8.8	
Methylene Chloride	L	50.0	47.8	1.385801	0.872034		-37.1	
trans-1,2-Dichloroethene	A	50.0	49.5	0.9362637	0.9270995		-1.0	
1,1-Dichloroethane	A	50.0	47.8	1.156806	1.106476	0.1	-4.4	
Vinyl acetate	A	50.0	48.4	0.8754107	0.847398		-3.2	
2,2-Dichloropropane	A	50.0	49.0	0.7630224	0.7472614		-2.1	
2-Butanone	A	50.0	52.5	0.1718998	0.1803952		4.9	
cis-1,2-Dichloroethene	A	50.0	47.5	0.8550773	0.8125219		-5.0	
Chloroform	A	50.0	48.0	0.7789182	0.7479246		-4.0	20
Bromochloromethane	A	50.0	47.9	0.2812929	0.2695619		-4.2	
Cyclohexane	A	50.0	41.4	1.473515	1.218835		-17.3	

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1600232

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6B1101	Lab Sample ID:	B6B1101-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	891	53	20 - 160
N-Nitrosodimethylamine	1670	1070	64	20 - 160
Aniline	1670	928	56	20 - 160
Phenol	1670	1260	76	20 - 160
bis(2-chloroethyl)ether	1670	1260	76	70 - 130
2-Chlorophenol	1670	1350	81	70 - 130
1,3-Dichlorobenzene	1670	1260	76	70 - 130
1,4-Dichlorobenzene	1670	1290	77	70 - 130
Benzyl alcohol	1670	1310	78	20 - 160
1,2-Dichlorobenzene	1670	1260	75	70 - 130
2-Methylphenol	1670	1320	79	20 - 160
bis(2-chloroisopropyl)ether	1670	1140	69 *	70 - 130
3 & 4-Methylphenol	1670	1380	83	20 - 160
N-Nitroso-di-n-propylamine	1670	1290	77	70 - 130
Hexachloroethane	1670	1270	76	20 - 160
Nitrobenzene	1670	1340	80	70 - 130
Isophorone	1670	1340	81	70 - 130
2-Nitrophenol	1670	1340	81	70 - 130
2,4-Dimethylphenol	1670	1410	85	70 - 130
bis(2-chloroethoxy)methane	1670	1340	80	70 - 130
2,4-Dichlorophenol	1670	1460	87	70 - 130
1,2,4-Trichlorobenzene	1670	1390	83	70 - 130
Naphthalene	1670	1330	80	70 - 130
4-Chloroaniline	1670	282	17 *	70 - 130
Hexachlorobutadiene	1670	1390	84	70 - 130
4-Chloro-3-methylphenol	1670	1430	86	70 - 130
2-Methylnaphthylene	1670	1400	84	70 - 130
Hexachlorocyclopentadiene	1670	1200	72	20 - 160

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1600232

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6B1101	Lab Sample ID:	B6B1101-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2,4,6-Trichlorophenol	1670	1450	87	70 - 130
2,4,5-Trichlorophenol	1670	1470	88	70 - 130
2-Chloronaphthalene	1670	1420	85	70 - 130
2-Nitroaniline	1670	1350	81	70 - 130
Dimethylphthalate	1670	1520	91	70 - 130
Acenaphthylene	1670	1440	86	70 - 130
3-Nitroaniline	1670	823	49 *	70 - 130
Acenaphthene	1670	1410	85	70 - 130
2,4-Dinitrophenol	1670	871	52	20 - 160
4-Nitrophenol	1670	1360	82	20 - 160
Dibenzofuran	1670	1430	86	70 - 130
2,6-Dinitrotoluene	1670	1480	89	70 - 130
2,4-Dinitrotoluene	1670	1500	90	70 - 130
2,3,4,6-Tetrachlorophenol	1670	1390	84	70 - 130
Diethyl phthalate	1670	1480	89	70 - 130
4-Chlorophenyl-phenylether	1670	1470	88	70 - 130
Fluorene	1670	1460	88	70 - 130
4-Nitroaniline	1670	1280	77	70 - 130
4,6-Dinitro-2-methylphenol	1670	1290	77	70 - 130
Carbazole	1670	1430	86	70 - 130
N-Nitrosodiphenylamine	1670	1490	89	20 - 160
Azobenzene	1670	1420	85	70 - 130
4-Bromophenyl-phenylether	1670	1540	92	70 - 130
Hexachlorobenzene	1670	1470	88	70 - 130
Pentachlorophenol	1670	1290	77	20 - 160
Phenanthrene	1670	1450	87	70 - 130
Anthracene	1670	1460	87	70 - 130
Di-n-butyl phthalate	1670	1490	89	70 - 130

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1600232
Project: 255 E. 138th Street

Sequence: S6B1507 Instrument: GC/MS F
Calibration: 15L3002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S6B1507-CCV1)			*Lab File ID: F12752.D*			*Analyzed: 02/15/16 12:05*			
1,4-Dichlorobenzene-d4	125649	10.11	101062	10.33	124	50 - 200	-0.2200	+/-0.50	
Naphthalene-d8	537006	13.31	433169	13.53	124	50 - 200	-0.2200	+/-0.50	
Acenaphthene-d10	261121	17.82	213139	18.07	123	50 - 200	-0.2500	+/-0.50	
Phenanthrene-d10	491020	21.57	419254	21.82	117	50 - 200	-0.2500	+/-0.50	
Chrysene-d12	503630	28.38	437951	28.64	115	50 - 200	-0.2600	+/-0.50	
Perylene-d12	444052	31.76	447675	32.04	99	50 - 200	-0.2800	+/-0.50	
LCS (B6B1101-BS1)			*Lab File ID: F12754.D*			*Analyzed: 02/15/16 13:35*			
1,4-Dichlorobenzene-d4	123410	10.11	125649	10.11	98	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	520687	13.3	537006	13.31	97	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	262067	17.83	261121	17.82	100	50 - 200	0.0100	+/-0.50	
Phenanthrene-d10	508636	21.56	491020	21.57	104	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	514569	28.37	503630	28.38	102	50 - 200	-0.0100	+/-0.50	
Perylene-d12	464087	31.76	444052	31.76	105	50 - 200	0.0000	+/-0.50	
EP-20 (1600232-01)			*Lab File ID: F12764.D*			*Analyzed: 02/15/16 21:03*			
1,4-Dichlorobenzene-d4	175009	10.18	125649	10.11	139	50 - 200	0.0700	+/-0.50	
Naphthalene-d8	524043	13.41	537006	13.31	98	50 - 200	0.1000	+/-0.50	
Acenaphthene-d10	214727	18.05	261121	17.82	82	50 - 200	0.2300	+/-0.50	
Phenanthrene-d10	228113	21.87	491020	21.57	46	50 - 200	0.3000	+/-0.50	*
Chrysene-d12	566782	28.49	503630	28.38	113	50 - 200	0.1100	+/-0.50	
Perylene-d12	265465	31.78	444052	31.76	60	50 - 200	0.0200	+/-0.50	

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1600232
Project: 255 E. 138th Street

Calibration:	15L3002	Instrument:	GC/MS F
		Calibration Date:	12/22/2015 1:51:54PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	0.9954514	4.290123		
4-Chloroaniline	0.487136	3.510766		
Hexachlorobutadiene	0.154921	1.769318	CCC (20)	
Caprolactam	0.1575413	2.51416		
4-Chloro-3-methylphenol	0.3118418	3.176369	CCC (20)	
2-Methylnaphthylene	0.6400064	5.017323		
1,2,4,5-Tetrachlorobenzene	0.6423111	1.905944		
Hexachlorocyclopentadiene	0.3332057	14.56752	SPCC (0.05)	
2,4,6-Trichlorophenol	0.4261157	7.38408	CCC (20)	
2,4,5-Trichlorophenol	0.4480218	7.417993		
2-Chloronaphthalene	1.216925	7.376346		
1,1-Biphenyl	1.536324	8.43898		
2-Nitroaniline	0.4432965	2.288186		
Dimethylphthalate	1.469375	8.636617		
Acenaphthylene	2.02203	5.906467		
3-Nitroaniline	0.5062843	1.208112		
Acenaphthene	1.217219	4.587288	CCC (20)	
2,4-Dinitrophenol	0.2096832	45.58368	SPCC (0.05)	
4-Nitrophenol	0.1413368	10.34051	SPCC (0.05)	
Dibenzofuran	1.770505	3.387765		
2,6-Dinitrotoluene	0.4035566	2.938367		
2,4-Dinitrotoluene	0.5469369	3.708114		
2,3,4,6-Tetrachlorophenol	0.3894136	7.946023		
Diethyl phthalate	1.525043	12.23676		
4-Chlorophenyl-phenylether	0.6447032	3.762906		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1600232
Project: 255 E. 138th Street

Calibration:	16B1504	Instrument:	GCECD_GHF
		Calibration Date:	2/10/2016 4:39:22PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
4,4'-DDD [2C]	1.952284E+07	8.749134	CCC (20)	
Endosulfan sulfate	2.233566E+07	5.358078	CCC (20)	
Endosulfan sulfate [2C]	2.27904E+07	9.093354	CCC (20)	
4,4'-DDT	2.107143E+07	3.099258	CCC (20)	
4,4'-DDT [2C]	2.271741E+07	10.087	CCC (20)	
Methoxychlor	1.236933E+07	15.48153	CCC (20)	
Methoxychlor [2C]	9145544	8.148411	CCC (20)	
Endrin ketone	2.576447E+07	6.199861	CCC (20)	
Endrin ketone [2C]	2.695313E+07	9.387702	CCC (20)	
Endrin aldehyde	2.105299E+07	13.33673	CCC (20)	
Endrin aldehyde [2C]	2.108623E+07	14.90703	CCC (20)	
alpha-Chlordane	2.682822E+07	8.350516	CCC (20)	
alpha-Chlordane [2C]	3.16354E+07	11.54459	CCC (20)	
gamma-Chlordane	2.690469E+07	7.183773	CCC (20)	
gamma-Chlordane [2C]	3.239219E+07	13.44882	CCC (20)	
Toxaphene	291024.5	38.64067	CCC (20)	*
Toxaphene (1)	322859.7	38.85821	CCC (20)	*
Toxaphene (2)	324264.1	43.30058	CCC (20)	*
Toxaphene (3)	403165.7	32.44506	CCC (20)	*
Toxaphene (4)	113808.4	48.22711	CCC (20)	*
Toxaphene [2C]	603970.7	32.60889	CCC (20)	*
Toxaphene (1) [2C]	400112.4	35.41241	CCC (20)	*
Toxaphene (2) [2C]	1007137	31.91677	CCC (20)	*
Toxaphene (3) [2C]	517604.2	36.17791	CCC (20)	*
Toxaphene (4) [2C]	491028.6	28.06292	CCC (20)	*

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1601375

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1601375

The data associated with this Sample Delivery Group (SDG) 1601375, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 10/28/16

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx, NY
SAMPLING DATE:	July 21, 2016
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1601375

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on July 21, 2016. This sample was analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1601375. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1601375, one sample was analyzed and results were reported for 191 analytes. Twenty results were rejected. Even though some results were flagged with a "J" as estimated, all other results (90 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-21 EP-21RE	All	J detects	1,4-DCE-d4 > 130%	All detects are estimated
EP-21 EP-21RE	Isopropylbenzene 1,12,2-Tetrachlorobenzene 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene 2-Chlorotoluene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butybenzene p-Isopropyltoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene DBCP 1,2,4-Trichlorobenzene Hexachlorobutadiene 1,2,3-Trichlorbenzene	R non-detects J detects	IS#4 area < 25 % QC limit	Non-detects are unusable, detects may be biased low
EP-21 EP-21RE	All Analytes	UJ non-detects J detects	All IS areas < 50 % QC limit	Sample data is estimated

EP-21 EP-21RE	Acetone Methylene Chloride	J detects	ICV RPD > 20 %	Sample detects are estimated
EP-21 EP-21RE	Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-21 EP-21RE	3-Nitroaniline	"UJ"	LCS < 70 % QC limit	All samples non-detect
EP-21 EP-21RE	2,4-Dinitrophenol	J detects	ICV > 40 %	All samples non-detect
EP-21 EP-21RE	4,6-.dinitro-2methylphenol 2,4-Dinitrophenol	UJ non-detects J detects	CCV > 40 %	All samples non-detect
EP-21	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene	UJ non-detect J detects	IS #6 area < 50 % QC limit	Sample data is estimated

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-21	Vanadium	J detect	Serial dilution > 10 %	Data is estimated

Table 6-6 Wet Chemistry

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601375

Client Sample ID:	Lab Sample ID:
EP-21	1601375-01
EP-21	1601375-01RE1

This data has been reviewed and accepted by:

Daniel Miguel 08/16/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 07/21/2016 13:40.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, one surrogate (1,2-Dichloroethane-d4) was out of criteria. The sample was reanalyzed and the surrogate was again recovered out of the required criteria.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6G2215 recovered outside control limits for certain analytes. These analytes were within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6G2215 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria due to matrix interference. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave.
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601375
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-21	7/21/16	S	18'	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. (48 HRS) 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data Deliverables

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES, EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 7/21/16	Time: 1340	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Prep Date:	07/22/16 02:59	Matrix:	Soil
Percent Solids:	81.00	Prep Method:	EPA 5035A	File ID:	A8783.D
Prep Batch:	B6G2115	Sequence:	S6G2107	Analyzed:	07/22/16 02:59
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.78	13.0	U
107-13-1	Acrylonitrile	ND	2.59	13.0	U
67-64-1	Acetone	ND UJ	1.30	2.59	U
75-71-8	Dichlorodifluoromethane	ND	1.30	2.59	U
74-87-3	Chloromethane	ND	1.30	2.59	U
75-01-4	Vinyl chloride	ND	1.30	2.59	U
74-83-9	Bromomethane	ND	1.30	2.59	U
75-00-3	Chloroethane	ND	1.30	2.59	U
75-69-4	Trichlorofluoromethane	ND	1.30	2.59	U
75-35-4	1,1-Dichloroethene	ND	1.30	2.59	U
75-15-0	Carbon disulfide	2.10 J	1.30	2.59	J
75-09-2	Methylene Chloride	ND UJ	1.30	2.59	U
156-60-5	trans-1,2-Dichloroethene	ND	1.30	2.59	U
75-34-3	1,1-Dichloroethane	ND	1.30	2.59	U
108-05-4	Vinyl acetate	ND	1.30	2.59	U
590-20-7	2,2-Dichloropropane	ND	1.30	2.59	U
78-93-3	2-Butanone	ND	1.30	2.59	U
156-59-4	cis-1,2-Dichloroethene	ND	1.30	2.59	U
67-66-3	Chloroform	ND	1.30	2.59	U
74-97-5	Bromochloromethane	ND	1.30	2.59	U
71-55-6	1,1,1-Trichloroethane	ND	1.30	2.59	U
563-58-6	1,1-Dichloropropene	ND	1.30	2.59	U
56-23-5	Carbon Tetrachloride	ND	1.30	2.59	U
107-06-2	1,2-Dichloroethane	ND	1.30	2.59	U
71-43-2	Benzene	ND	1.30	2.59	U

 MKP 10/26/14

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Prep Date:	07/22/16 02:59	Matrix:	Soil
Percent Solids:	81.00	Prep Method:	EPA 5035A	File ID:	A8783.D
Prep Batch:	B6G2115	Sequence:	S6G2107	Analyzed:	07/22/16 02:59
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.30	2.59	U
78-87-5	1,2-Dichloropropane	ND	1.30	2.59	U
75-27-4	Bromodichloromethane	ND	1.30	2.59	U
74-95-3	Dibromomethane	ND	1.30	2.59	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.30	2.59	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.30	2.59	U
108-88-3	Toluene	ND	1.30	2.59	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.30	2.59	U
79-00-5	1,1,2-Trichloroethane	ND	1.30	2.59	U
108-10-1	4-Methyl-2-pentanone	ND	1.30	2.59	U
106-93-4	1,2-Dibromoethane	ND	1.30	2.59	U
591-78-6	2-Hexanone	ND	1.30	2.59	U
142-28-9	1,3-Dichloropropane	ND	1.30	2.59	U
127-18-4	Tetrachloroethene	ND	1.30	2.59	U
124-48-1	Dibromochloromethane	ND	1.30	2.59	U
100-41-4	Ethylbenzene	ND	1.30	2.59	U
108-90-7	Chlorobenzene	ND	1.30	2.59	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.30	2.59	U
108-38-3/106-42	m,p-Xylenes	ND	2.59	5.19	U
95-47-6	o-Xylene	ND	2.59	5.19	U
100-42-5	Styrene	ND	1.30	5.19	U
75-25-2	Bromoform	ND	1.30	2.59	U
98-82-8	Isopropylbenzene	~~ND~~ R	1.30	2.59	U
79-34-5	1,1,2,2-Tetrachloroethane	~~ND~~ ↓	1.30	2.59	U
96-18-4	1,2,3-Trichloropropane	~~ND~~	1.30	2.59	U

 MKP 10/26/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Prep Date:	07/22/16 02:59	Matrix:	Soil
Percent Solids:	81.00	Prep Method:	EPA 5035A	File ID:	A8783.D
Prep Batch:	B6G2115	Sequence:	S6G2107	Analyzed:	07/22/16 02:59
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	~~ND~~ R	1.30	2.59	U
108-86-1	Bromobenzene	~~ND~~	1.30	2.59	U
108-67-8	1,3,5-Trimethylbenzene	~~ND~~	1.30	2.59	U
95-49-8	2-Chlorotoluene	~~ND~~	1.30	2.59	U
106-43-4	4-Chlorotoluene	~~ND~~	1.30	2.59	U
98-06-6	tert-Butylbenzene	~~ND~~	1.30	2.59	U
95-63-6	1,2,4-Trimethylbenzene	~~ND~~	1.30	2.59	U
135-98-8	sec-Butylbenzene	~~ND~~	1.30	2.59	U
99-87-6	p-Isopropyltoluene	~~ND~~	1.30	2.59	U
541-73-1	1,3-Dichlorobenzene	~~ND~~	1.30	2.59	U
106-46-7	1,4-Dichlorobenzene	~~ND~~	1.30	2.59	U
104-51-8	n-Butyl Benzene	~~ND~~	1.30	2.59	U
95-50-1	1,2-Dichlorobenzene	~~ND~~	1.30	2.59	U
96-12-8	1,2-Dibromo-3-chloropropane	~~ND~~	1.30	2.59	U
120-82-1	1,2,4-Trichlorobenzene	~~ND~~	1.30	2.59	U
87-68-3	Hexachlorobutadiene	~~ND~~	1.30	2.59	U
87-61-6	1,2,3-Trichlorobenzene	~~ND~~	1.30	2.59	U

Surrogate	% Recovery		Recovery Limits
1,2-Dichloroethane-d4	190%	*	70-130
Toluene-d8	101%		70-130
Bromofluorobenzene	79%		70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MYH 10/20/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01RE1
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Prep Date:	07/22/16 03:30	Matrix:	Soil
Percent Solids:	81.00	Prep Method:	EPA 5035A	File ID:	A8784.D
Prep Batch:	B6G2115	Sequence:	S6G2107	Analyzed:	07/22/16 03:30
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.51	12.5	U
107-13-1	Acrylonitrile	ND	2.50	12.5	U
67-64-1	Acetone	ND UJ	1.25	2.50	U
75-71-8	Dichlorodifluoromethane	ND	1.25	2.50	U
74-87-3	Chloromethane	ND	1.25	2.50	U
75-01-4	Vinyl chloride	ND	1.25	2.50	U
74-83-9	Bromomethane	ND	1.25	2.50	U
75-00-3	Chloroethane	ND	1.25	2.50	U
75-69-4	Trichlorofluoromethane	ND	1.25	2.50	U
75-35-4	1,1-Dichloroethene	ND	1.25	2.50	U
75-15-0	Carbon disulfide	2.52 J	1.25	2.50	
75-09-2	Methylene Chloride	ND UJ	1.25	2.50	U
156-60-5	trans-1,2-Dichloroethene	ND	1.25	2.50	U
75-34-3	1,1-Dichloroethane	ND	1.25	2.50	U
108-05-4	Vinyl acetate	ND	1.25	2.50	U
590-20-7	2,2-Dichloropropane	ND	1.25	2.50	U
78-93-3	2-Butanone	ND	1.25	2.50	U
156-59-4	cis-1,2-Dichloroethene	ND	1.25	2.50	U
67-66-3	Chloroform	ND	1.25	2.50	U
74-97-5	Bromochloromethane	ND	1.25	2.50	U
71-55-6	1,1,1-Trichloroethane	ND	1.25	2.50	U
563-58-6	1,1-Dichloropropene	ND	1.25	2.50	U
56-23-5	Carbon Tetrachloride	ND	1.25	2.50	U
107-06-2	1,2-Dichloroethane	ND	1.25	2.50	U
71-43-2	Benzene	ND	1.25	2.50	U

 MKP 10/26/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01RE1
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Prep Date:	07/22/16 03:30	Matrix:	Soil
Percent Solids:	81.00	Prep Method:	EPA 5035A	File ID:	A8784.D
Prep Batch:	B6G2115	Sequence:	S6G2107	Analyzed:	07/22/16 03:30
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.25	2.50	U
78-87-5	1,2-Dichloropropane	ND	1.25	2.50	U
75-27-4	Bromodichloromethane	ND	1.25	2.50	U
74-95-3	Dibromomethane	ND	1.25	2.50	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.25	2.50	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.25	2.50	U
108-88-3	Toluene	ND	1.25	2.50	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.25	2.50	U
79-00-5	1,1,2-Trichloroethane	ND	1.25	2.50	U
108-10-1	4-Methyl-2-pentanone	ND	1.25	2.50	U
106-93-4	1,2-Dibromoethane	ND	1.25	2.50	U
591-78-6	2-Hexanone	ND	1.25	2.50	U
142-28-9	1,3-Dichloropropane	ND	1.25	2.50	U
127-18-4	Tetrachloroethene	ND	1.25	2.50	U
124-48-1	Dibromochloromethane	ND	1.25	2.50	U
100-41-4	Ethylbenzene	ND	1.25	2.50	U
108-90-7	Chlorobenzene	ND	1.25	2.50	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.25	2.50	U
108-38-3/106-42	m,p-Xylenes	ND	2.50	5.01	U
95-47-6	o-Xylene	ND	2.50	5.01	U
100-42-5	Styrene	ND	1.25	5.01	U
75-25-2	Bromoform	ND	1.25	2.50	U
98-82-8	Isopropylbenzene	~~ND~~ R	1.25	2.50	U
79-34-5	1,1,2,2-Tetrachloroethane	~~ND~~	1.25	2.50	U
96-18-4	1,2,3-Trichloropropane	~~ND~~	1.25	2.50	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01RE1
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Prep Date:	07/22/16 03:30	Matrix:	Soil
Percent Solids:	81.00	Prep Method:	EPA 5035A	File ID:	A8784.D
Prep Batch:	B6G2115	Sequence:	S6G2107	Analyzed:	07/22/16 03:30
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	~~ND~~ R	1.25	2.50	U
108-86-1	Bromobenzene	~~ND~~	1.25	2.50	U
108-67-8	1,3,5-Trimethylbenzene	~~ND~~	1.25	2.50	U
95-49-8	2-Chlorotoluene	~~ND~~	1.25	2.50	U
106-43-4	4-Chlorotoluene	~~ND~~	1.25	2.50	U
98-06-6	tert-Butylbenzene	~~ND~~	1.25	2.50	U
95-63-6	1,2,4-Trimethylbenzene	~~ND~~	1.25	2.50	U
135-98-8	sec-Butylbenzene	~~ND~~	1.25	2.50	U
99-87-6	p-Isopropyltoluene	~~ND~~	1.25	2.50	U
541-73-1	1,3-Dichlorobenzene	~~ND~~	1.25	2.50	U
106-46-7	1,4-Dichlorobenzene	~~ND~~	1.25	2.50	U
104-51-8	n-Butyl Benzene	~~ND~~	1.25	2.50	U
95-50-1	1,2-Dichlorobenzene	~~ND~~	1.25	2.50	U
96-12-8	1,2-Dibromo-3-chloropropane	~~ND~~	1.25	2.50	U
120-82-1	1,2,4-Trichlorobenzene	~~ND~~	1.25	2.50	U
87-68-3	Hexachlorobutadiene	~~ND~~	1.25	2.50	U
87-61-6	1,2,3-Trichlorobenzene	~~ND~~	1.25	2.50	U

Surrogate	% Recovery		Recovery Limits
1,2-Dichloroethane-d4	181%	*	70-130
Toluene-d8	98%		70-130
Bromofluorobenzene	75%		70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Prep Date:	07/22/16 10:22	Matrix:	Soil
Percent Solids:	81.00	Prep Method:	EPA 3550B GCMS	File ID:	E10849.D
Prep Batch:	B6G2215	Sequence:	S6G2207	Analyzed:	07/22/16 20:35
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.1	206	U
108-95-2	Phenol	ND	41.1	206	U
111-44-4	bis(2-chloroethyl)ether	ND	41.1	206	U
95-57-8	2-Chlorophenol	ND	41.1	206	U
541-73-1	1,3-Dichlorobenzene	ND	41.1	206	U
106-46-7	1,4-Dichlorobenzene	ND	41.1	206	U
100-51-6	Benzyl alcohol	ND	41.1	206	U
95-50-1	1,2-Dichlorobenzene	ND	41.1	206	U
95-48-7	2-Methylphenol	ND	41.1	206	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.1	206	U
106-44-5	3 & 4-Methylphenol	ND	41.1	206	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.1	206	U
67-72-1	Hexachloroethane	ND	41.1	206	U
98-95-3	Nitrobenzene	ND	41.1	206	U
78-59-1	Isophorone	ND	41.1	206	U
88-75-5	2-Nitrophenol	ND	41.1	206	U
105-67-9	2,4-Dimethylphenol	ND	41.1	206	U
65-85-0	Benzoic acid	ND	102	411	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.1	206	U
120-83-2	2,4-Dichlorophenol	ND	41.1	206	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.1	206	U
91-20-3	Naphthalene	65.3	41.1	206	J
106-47-8	4-Chloroaniline	ND	41.1	206	U
87-68-3	Hexachlorobutadiene	ND	41.1	206	U
59-50-7	4-Chloro-3-methylphenol	ND	41.1	206	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Prep Date:	07/22/16 10:22	Matrix:	Soil
Percent Solids:	81.00	Prep Method:	EPA 3550B GCMS	File ID:	E10849.D
Prep Batch:	B6G2215	Sequence:	S6G2207	Analyzed:	07/22/16 20:35
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	47.7	41.1	206	J
77-47-4	Hexachlorocyclopentadiene	ND	41.1	206	U
88-06-2	2,4,6-Trichlorophenol	ND	41.1	206	U
95-95-4	2,4,5-Trichlorophenol	ND	41.1	206	U
91-58-7	2-Chloronaphthalene	ND	41.1	206	U
88-74-4	2-Nitroaniline	ND	41.1	206	U
131-11-3	Dimethylphthalate	ND	41.1	206	U
208-96-8	Acenaphthylene	61.3	41.1	206	J
99-09-2	3-Nitroaniline	ND UJ	41.1	206	U
83-32-9	Acenaphthene	151	41.1	206	J
51-28-5	2,4-Dinitrophenol	ND UJ	41.1	411	U
100-02-7	4-Nitrophenol	ND	41.1	206	U
132-64-9	Dibenzofuran	96.2	41.1	206	J
606-20-2	2,6-Dinitrotoluene	ND	41.1	206	U
121-14-2	2,4-Dinitrotoluene	ND	41.1	206	U
84-66-2	Diethyl phthalate	ND	41.1	206	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.1	206	U
86-73-7	Fluorene	162	41.1	206	J
100-01-6	4-Nitroaniline	ND	41.1	206	U
534-52-1	4,6-Dinitro-2-methylphenol	ND UJ	41.1	206	U
86-30-6	N-Nitrosodiphenylamine	ND	41.1	206	U
101-55-3	4-Bromophenyl-phenylether	ND	41.1	206	U
118-74-1	Hexachlorobenzene	ND	41.1	206	U
87-86-5	Pentachlorophenol	ND	41.1	206	U
85-01-8	Phenanthrene	1510	41.1	206	

MKP 10/26/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Prep Date:	07/22/16 10:22	Matrix:	Soil
Percent Solids:	81.00	Prep Method:	EPA 3550B GCMS	File ID:	E10849.D
Prep Batch:	B6G2215	Sequence:	S6G2207	Analyzed:	07/22/16 20:35
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	351	41.1	206	
84-74-2	Di-n-butyl phthalate	ND	41.1	206	U
206-44-0	Fluoranthene	1760	41.1	206	
129-00-0	Pyrene	2120	41.1	206	
85-68-7	Butylbenzylphthalate	ND	41.1	206	U
91-94-1	3,3'-Dichlorobenzidine	ND	102	206	U
56-55-3	Benzo[a]anthracene	811	41.1	206	
117-81-7	bis(2-ethylhexyl)phthalate	68.5	41.1	206	J
218-01-9	Chrysene	822	41.1	206	
117-84-0	Di-n-octyl phthalate	ND UJ	41.1	206	U
205-99-2	Benzo[b]fluoranthene	1180 J	41.1	206	
207-08-9	Benzo[k]fluoranthene	505 J	41.1	206	
50-32-8	Benzo[a]pyrene	759 J	41.1	206	
193-39-5	Indeno(1,2,3-cd)pyrene	189 J	41.1	206	J
53-70-3	Dibenzo(a,h)anthracene	69.2 J	41.1	206	J
191-24-2	Benzo[ghi]perylene	189 J	41.1	206	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	59%	30-130
Phenol-d5	63%	30-130
Nitrobenzene-d5	75%	30-130
2-Fluorobiphenyl	71%	30-130
2,4,6-Tribromophenol	81%	30-130
Terphenyl-d14	108%	30-130

MKP 10/26/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01RE1
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Prep Date:	07/22/16 10:22	Matrix:	Soil
Percent Solids:	81.00	Prep Method:	EPA 3550B GCMS	File ID:	E10862.D
Prep Batch:	B6G2215	Sequence:	S6G2601	Analyzed:	07/26/16 03:33
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	206	1030	U
108-95-2	Phenol	ND	206	1030	U
111-44-4	bis(2-chloroethyl)ether	ND	206	1030	U
95-57-8	2-Chlorophenol	ND	206	1030	U
541-73-1	1,3-Dichlorobenzene	ND	206	1030	U
106-46-7	1,4-Dichlorobenzene	ND	206	1030	U
100-51-6	Benzyl alcohol	ND	206	1030	U
95-50-1	1,2-Dichlorobenzene	ND	206	1030	U
95-48-7	2-Methylphenol	ND	206	1030	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	206	1030	U
106-44-5	3 & 4-Methylphenol	ND	206	1030	U
621-64-7	N-Nitroso-di-n-propylamine	ND	206	1030	U
67-72-1	Hexachloroethane	ND	206	1030	U
98-95-3	Nitrobenzene	ND	206	1030	U
78-59-1	Isophorone	ND	206	1030	U
88-75-5	2-Nitrophenol	ND	206	1030	U
105-67-9	2,4-Dimethylphenol	ND	206	1030	U
65-85-0	Benzoic acid	ND	512	2060	U
111-91-1	bis(2-chloroethoxy)methane	ND	206	1030	U
120-83-2	2,4-Dichlorophenol	ND	206	1030	U
120-82-1	1,2,4-Trichlorobenzene	ND	206	1030	U
91-20-3	Naphthalene	ND	206	1030	U
106-47-8	4-Chloroaniline	ND	206	1030	U
87-68-3	Hexachlorobutadiene	ND	206	1030	U
59-50-7	4-Chloro-3-methylphenol	ND	206	1030	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01RE1
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Prep Date:	07/22/16 10:22	Matrix:	Soil
Percent Solids:	81.00	Prep Method:	EPA 3550B GCMS	File ID:	E10862.D
Prep Batch:	B6G2215	Sequence:	S6G2601	Analyzed:	07/26/16 03:33
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	206	1030	U
77-47-4	Hexachlorocyclopentadiene	ND	206	1030	U
88-06-2	2,4,6-Trichlorophenol	ND	206	1030	U
95-95-4	2,4,5-Trichlorophenol	ND	206	1030	U
91-58-7	2-Chloronaphthalene	ND	206	1030	U
88-74-4	2-Nitroaniline	ND	206	1030	U
131-11-3	Dimethylphthalate	ND	206	1030	U
208-96-8	Acenaphthylene	ND	206	1030	U
99-09-2	3-Nitroaniline	ND UJ	206	1030	U
83-32-9	Acenaphthene	ND	206	1030	U
51-28-5	2,4-Dinitrophenol	ND UJ	206	2060	U
100-02-7	4-Nitrophenol	ND	206	1030	U
132-64-9	Dibenzofuran	ND	206	1030	U
606-20-2	2,6-Dinitrotoluene	ND	206	1030	U
121-14-2	2,4-Dinitrotoluene	ND	206	1030	U
84-66-2	Diethyl phthalate	ND	206	1030	U
7005-72-3	4-Chlorophenyl-phenylether	ND	206	1030	U
86-73-7	Fluorene	ND	206	1030	U
100-01-6	4-Nitroaniline	ND	206	1030	U
534-52-1	4,6-Dinitro-2-methylphenol	ND UJ	206	1030	U
86-30-6	N-Nitrosodiphenylamine	ND	206	1030	U
101-55-3	4-Bromophenyl-phenylether	ND	206	1030	U
118-74-1	Hexachlorobenzene	ND	206	1030	U
87-86-5	Pentachlorophenol	ND	206	1030	U
85-01-8	Phenanthrene	1650	206	1030	D

JMM 10/26/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01RE1
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Prep Date:	07/22/16 10:22	Matrix:	Soil
Percent Solids:	81.00	Prep Method:	EPA 3550B GCMS	File ID:	E10862.D
Prep Batch:	B6G2215	Sequence:	S6G2601	Analyzed:	07/26/16 03:33
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	362	206	1030	J, D
84-74-2	Di-n-butyl phthalate	ND	206	1030	U
206-44-0	Fluoranthene	1980	206	1030	D
129-00-0	Pyrene	1880	206	1030	D
85-68-7	Butylbenzylphthalate	ND	206	1030	U
91-94-1	3,3'-Dichlorobenzidine	ND	512	1030	U
56-55-3	Benzo[a]anthracene	848	206	1030	D, J
117-81-7	bis(2-ethylhexyl)phthalate	ND	206	1030	U
218-01-9	Chrysene	898	206	1030	D, J
117-84-0	Di-n-octyl phthalate	ND	206	1030	U
205-99-2	Benzo[b]fluoranthene	1010	206	1030	D, J
207-08-9	Benzo[k]fluoranthene	399	206	1030	D, J
50-32-8	Benzo[a]pyrene	786	206	1030	D, J
193-39-5	Indeno(1,2,3-cd)pyrene	363	206	1030	D, J
53-70-3	Dibenzo(a,h)anthracene	ND	206	1030	U
191-24-2	Benzo[ghi]perylene	405	206	1030	D, J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	63%	30-130
Phenol-d5	68%	30-130
Nitrobenzene-d5	84%	30-130
2-Fluorobiphenyl	88%	30-130
2,4,6-Tribromophenol	72%	30-130
Terphenyl-d14	96%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Prep Date:	07/25/16 06:06	Matrix:	Soil
Percent Solids:	81.00	Prep Method:	EPA 3550B	File ID:	A22458.D
Prep Batch:	B6G2501	Sequence:	S6G2501	Analyzed:	07/25/16 13:30
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.815	0.815	U
319-85-7	beta-BHC	ND	0.815	0.815	U
319-86-8	delta-BHC	ND	0.815	0.815	U
58-89-9	gamma-BHC [Lindane]	ND	0.815	0.815	U
76-44-8	Heptachlor	ND	0.815	0.815	U
309-00-2	Aldrin	ND	0.815	0.815	U
1024-57-3	Heptachlor Epoxide	ND	0.815	0.815	U
959-98-8	Endosulfan I	ND	0.815	0.815	U
60-57-1	Dieldrin	ND	1.64	1.64	U
72-55-9	4,4'-DDE	ND	1.64	1.64	U
72-20-8	Endrin	ND	1.64	1.64	U
33213-65-9	Endosulfan II	ND	1.64	1.64	U
72-54-8	4,4'-DDD	ND	1.64	1.64	U
1031-07-8	Endosulfan sulfate	ND	1.64	1.64	U
50-29-3	4,4'-DDT	ND	1.64	1.64	U
72-43-5	Methoxychlor	ND	2.47	8.22	U
53494-70-5	Endrin ketone	ND	1.64	1.64	U
7421-93-4	Endrin aldehyde	ND	1.64	1.64	U
5103-71-9	alpha-Chlordane	ND	0.815	0.815	U
5566-34-7	gamma-Chlordane	13.7	0.815	0.815	
8001-35-2	Toxaphene	ND	41.1	41.1	U
12674-11-2	Aroclor-1016	ND	20.5	41.1	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Prep Date:	07/25/16 06:06	Matrix:	Soil
Percent Solids:	81.00	Prep Method:	EPA 3550B	File ID:	A22458.D
Prep Batch:	B6G2501	Sequence:	S6G2501	Analyzed:	07/25/16 13:30
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.5	41.1	U
11141-16-5	Aroclor-1232	ND	20.5	41.1	U
53469-21-9	Aroclor-1242	ND	20.5	41.1	U
12672-29-6	Aroclor-1248	ND	20.5	41.1	U
11097-69-1	Aroclor-1254	ND	20.5	41.1	U
11096-82-5	Aroclor-1260	ND	20.5	41.1	U
37324-23-5	Aroclor-1262	ND	20.5	41.1	U
11100-14-4	Aroclor-1268	ND	20.5	41.1	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	60.7%	30-150
Tetrachloro-m-xylene [2C]	79.1%	30-150
Decachlorobiphenyl	72.4%	30-150
Decachlorobiphenyl [2C]	129%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Matrix:	Soil
Percent Solids:	81.00	File ID:	072216A-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	8930	24.3	24.3	1		07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7439-97-6	Mercury	0.131	0.0926	0.0926	1		07/21/16 14:00	EPA 7471A	07/22/16 12:12 PRT	EPA 7471
7440-36-0	Antimony	ND	4.85	4.85	1	U	07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7440-38-2	Arsenic	2.98	1.21	1.21	1		07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7440-39-3	Barium	70.3	24.3	24.3	1		07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.606	0.606	1	U	07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7440-43-9	Cadmium	0.905	0.606	0.606	1		07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7440-70-2	Calcium	34600	758	758	25	D	07/22/16 07:29	EPA 3050B	07/22/16 14:20 LIT	EPA 6010
7440-47-3	Chromium	29.2	2.43	2.43	1		07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7440-48-4	Cobalt	7.51	6.06	6.06	1		07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7440-50-8	Copper	39.3	3.64	3.64	1		07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7439-89-6	Iron	19000	30.3	30.3	1		07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7439-92-1	Lead	87.7	1.21	1.21	1		07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7439-95-4	Magnesium	14800	60.6	60.6	1		07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7439-96-5	Manganese	392	2.43	2.43	1		07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7440-02-0	Nickel	16.0	4.85	4.85	1		07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7440-09-7	Potassium	1570	60.6	60.6	1		07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7782-49-2	Selenium	ND	4.85	4.85	1	U	07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7440-22-4	Silver	ND	0.606	0.606	1	U	07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7440-23-5	Sodium	309	60.6	60.6	1		07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7440-28-0	Thallium	ND	1.82	3.64	1	U	07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7440-62-2	Vanadium	24.4 J	6.06	6.06	1		07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010
7440-66-6	Zinc	92.0	7.28	7.28	1		07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

mrf 10/26/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Matrix:	Soil
Percent Solids:	81.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	29.2	1.96	1.96	1		07/22/16 07:29	[CALC]	07/22/16 16:46 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.47	2.47	1	U	07/21/16 13:58	SW 846 3060A	07/22/16 16:46 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.23	1.23	1	U	07/21/16 15:21	EPA 9010C	07/22/16 14:41 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	81.0	0.100	0.100	1		07/25/16 08:45	Percent Solids	07/25/16 14:28 RMK	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

SYSTEM MONITORING COMPOUND SUMMARY

EPA 8260

Client:	**BRINKERHOFF ENVIRONMENTAL**		
Project:	**255 East 138th Street**	Matrix:	Solid
Work Order:	**1601375**	Instrument:	GC/MS A

Lab Sample ID:	1,2-DCE-d4 (70% - 130%)	BFB (70% - 130%)	TOL-d8 (70% - 130%)
1601375-01	190*	79	101
1601375-01RE1	181*	75	98
B6G2115-BLK1	126	93	104
B6G2115-BS1	121	100	106
B6G2115-MS1	136*	100	107
B6G2115-MSD1	137*	96	105

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601375
Project: 255 East 138th Street

Sequence: S6G2107 | Instrument: GC/MS A
Calibration: 16G2001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-21 (1601375-01)			*Lab File ID: A8783.D*			*Analyzed: 07/22/16 02:59*			
Pentafluorobenzene	281717	6.42	711459	6.42	40	50 - 200	0.0000	+/-0.50	*
1,4-Difluorobenzene	427338	7.12	1073290	7.12	40	50 - 200	0.0000	+/-0.50	*
Chlorobenzene-d5	314415	11.22	907000	11.22	35	50 - 200	0.0000	+/-0.50	*
1,4-Dichlorobenzene-d4	116927	16.74	543578	16.74	22	50 - 200	0.0000	+/-0.50	* <25%
EP-21 (1601375-01RE1)			*Lab File ID: A8784.D*			*Analyzed: 07/22/16 03:30*			
Pentafluorobenzene	280362	6.42	711459	6.42	39	50 - 200	0.0000	+/-0.50	*
1,4-Difluorobenzene	427926	7.12	1073290	7.12	40	50 - 200	0.0000	+/-0.50	*
Chlorobenzene-d5	294655	11.22	907000	11.22	32	50 - 200	0.0000	+/-0.50	*
1,4-Dichlorobenzene-d4	109819	16.75	543578	16.74	20	50 - 200	0.0100	+/-0.50	* <25%

* Values outside of QC limits

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601375
Project: 255 East 138th Street

Calibration:	16G2001	Instrument:	GC/MS A
		Calibration Date:	7/19/2016 8:48:07AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	3.491622E-02	5.451013		
Acrylonitrile	8.481825E-02	4.562105		
Acetone	0.291104	60.8609		
Dichlorodifluoromethane	0.7526665	14.92921		
Chloromethane	0.8540677	14.6566	SPCC (0.1)	
Vinyl chloride	0.8107103	13.84273	CCC (20)	
Bromomethane	0.559874	10.38633		
Chloroethane	0.2565061	9.065461		
Trichlorofluoromethane	0.9218445	5.797459		
Freon 113	0.5537785	4.470786		
1,1-Dichloroethene	0.8556057	7.924545	CCC (20)	
Carbon disulfide	1.660111	4.547484		
Methyl Acetate	0.2212286	12.61609		
Methylene Chloride	1.649306	106.1639		
trans-1,2-Dichloroethene	0.7919993	2.89292		
1,1-Dichloroethane	0.9203246	3.30673	SPCC (0.1)	
Vinyl acetate	0.7430753	3.340318		
2,2-Dichloropropane	0.9128792	5.671282		
2-Butanone	0.200285	8.734377		
cis-1,2-Dichloroethene	0.7416377	3.843662		
Chloroform	0.9741879	4.067673	CCC (20)	
Bromochloromethane	0.3028988	3.554132		
Cyclohexane	0.7954197	5.566765		
1,1,1-Trichloroethane	0.8893281	5.868703		
t-Butyl alcohol	2.388899E-02	8.210542		

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1601375		
Project:	255 East 138th Street		
Instrument ID:	GC/MS A	Calibration:	16G2001
Lab File ID:	A8766.D	Calibration Date:	07/19/16 08:48
Sequence:	S6G2107	Injection Date:	07/21/16
Lab Sample ID:	S6G2107-CCV1	Injection Time:	18:08

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	295	3.491622E-02	4.122655E-02		18.1	
Acrylonitrile	A	250	248	8.481825E-02	8.408102E-02		-0.9	
Acetone	L	50.0	51.6	0.291104	0.2039077		-30.0	
Dichlorodifluoromethane	A	50.0	48.0	0.7526665	0.7230691		-3.9	
Chloromethane	A	50.0	52.9	0.8540677	0.9035405	0.1	5.8	
Vinyl chloride	A	50.0	53.9	0.8107103	0.873616		7.8	20
Bromomethane	A	50.0	54.9	0.559874	0.6144332		9.7	
Chloroethane	A	50.0	63.6	0.2565061	0.3264897		27.3	
Trichlorofluoromethane	A	50.0	47.4	0.9218445	0.8729147		-5.3	
Freon 113	A	50.0	45.5	0.5537785	0.5038309		-9.0	
1,1-Dichloroethene	A	50.0	45.3	0.8556057	0.7746167		-9.5	20
Carbon disulfide	A	50.0	44.0	1.660111	1.46123		-12.0	
Methyl Acetate	A	50.0	49.4	0.2212286	0.2187997		-1.1	
Methylene Chloride	L	50.0	50.7	1.649306	0.7873736		-52.3	
trans-1,2-Dichloroethene	A	50.0	48.6	0.7919993	0.7689958		-2.9	
1,1-Dichloroethane	A	50.0	46.2	0.9203246	0.8506253	0.1	-7.6	
Vinyl acetate	A	50.0	50.1	0.7430753	0.7448961		0.2	
2,2-Dichloropropane	A	50.0	44.8	0.9128792	0.8189073		-10.3	
2-Butanone	A	50.0	45.1	0.200285	0.1805332		-9.9	
cis-1,2-Dichloroethene	A	50.0	47.4	0.7416377	0.703633		-5.1	
Chloroform	A	50.0	46.0	0.9741879	0.8952195		-8.1	20
Bromochloromethane	A	50.0	45.8	0.3028988	0.2776899		-8.3	
Cyclohexane	A	50.0	45.4	0.7954197	0.7221779		-9.2	

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601375

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6G2215	Lab Sample ID:	B6G2215-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	972	58	20 - 160
N-Nitrosodimethylamine	1670	1230	74	20 - 160
Aniline	1670	1180	71	20 - 160
Phenol	1670	1460	87	20 - 160
bis(2-chloroethyl)ether	1670	1380	83	70 - 130
2-Chlorophenol	1670	1480	89	70 - 130
1,3-Dichlorobenzene	1670	1410	84	70 - 130
1,4-Dichlorobenzene	1670	1420	85	70 - 130
Benzyl alcohol	1670	1490	89	20 - 160
1,2-Dichlorobenzene	1670	1430	86	70 - 130
2-Methylphenol	1670	1480	89	20 - 160
bis(2-chloroisopropyl)ether	1670	1450	87	70 - 130
3 & 4-Methylphenol	1670	1520	91	20 - 160
N-Nitroso-di-n-propylamine	1670	1470	88	70 - 130
Hexachloroethane	1670	1400	84	20 - 160
Nitrobenzene	1670	1570	94	70 - 130
Isophorone	1670	1550	93	70 - 130
2-Nitrophenol	1670	1590	96	70 - 130
2,4-Dimethylphenol	1670	1630	98	70 - 130
bis(2-chloroethoxy)methane	1670	1540	93	70 - 130
2,4-Dichlorophenol	1670	1610	96	70 - 130
1,2,4-Trichlorobenzene	1670	1540	93	70 - 130
Naphthalene	1670	1550	93	70 - 130
4-Chloroaniline	1670	590	35 *	70 - 130
Hexachlorobutadiene	1670	1560	93	70 - 130
4-Chloro-3-methylphenol	1670	1660	100	70 - 130
2-Methylnaphthylene	1670	1530	92	70 - 130
Hexachlorocyclopentadiene	1670	1030	62	20 - 160

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601375
Project: 255 East 138th Street

Sequence: S6G2207 Instrument: GC/MS E
Calibration: 16G1402

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S6G2207-CCV1)			*Lab File ID: E10836.D*			*Analyzed: 07/22/16 10:05*			
1,4-Dichlorobenzene-d4	282219	10.07	297523	10.14	95	50 - 200	-0.0700	+/-0.50	
Naphthalene-d8	1124387	13.27	1187212	13.33	95	50 - 200	-0.0600	+/-0.50	
Acenaphthene-d10	683858	17.76	697323	17.82	98	50 - 200	-0.0600	+/-0.50	
Phenanthrene-d10	1126954	21.55	1115909	21.61	101	50 - 200	-0.0600	+/-0.50	
Chrysene-d12	1016984	28.34	1011597	28.39	101	50 - 200	-0.0500	+/-0.50	
Perylene-d12	1015548	31.7	1012921	31.76	100	50 - 200	-0.0600	+/-0.50	
EP-21 (1601375-01)			*Lab File ID: E10849.D*			*Analyzed: 07/22/16 20:35*			
1,4-Dichlorobenzene-d4	321505	10.08	282219	10.07	114	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	1305042	13.26	1124387	13.27	116	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	776600	17.75	683858	17.76	114	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1260158	21.54	1126954	21.55	112	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	871127	28.33	1016984	28.34	86	50 - 200	-0.0100	+/-0.50	
Perylene-d12	335649	31.69	1015548	31.7	33	50 - 200	-0.0100	+/-0.50	*

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA16\JUN16\E0606\E10612.D
Acq On : 6 Jun 2016 12:10
Sample : S6F0703-CAL6
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 7 8:46 2016

Vial: 1
Operator: JMM
Inst : GC/MS E
Multiplr: 1.00
Quant Results File: SVE80606.RES

Quant Method : D:\E\METHODS\SVE80606.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Tue May 17 08:58:02 2016
Response via : Initial Calibration
DataAcq Meth : SVE80606

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
49)	Acenaphthene	17.98	153	2027600	105.73 ul/l		96
50)	2,4-Dinitrophenol	18.17	184	425798	97.85 ul/l		82
51)	4-Nitrophenol	18.46	109	231947	99.20 ul/l	#	1
52)	Dibenzofuran	18.41	168	2896955	102.07 ul/l		74
53)	2,6-Dinitrotoluene	17.48	165	687094	112.46 ul/l		91
54)	2,4-Dinitrotoluene	18.53	165	826292	104.28 ul/l		76
55)	2,3,4,6-tetrachlorophenol	18.79	232	638283	111.54 ul/l		98
56)	Diethylphthalate	19.20	149	2391981	98.77 ul/l		97
57)	4-Chlorophenyl-phenylether	19.34	204	1068441	104.70 ul/l		96
58)	Fluorene	19.29	166	2384352	103.01 ul/l		94
59)	4-Nitroaniline	19.58	138	824749	114.42 ul/l		92
62)	4,6-Dinitro-2-methylphenol	19.60	198	525629	103.48 ul/l		92
63)	Carbazole	22.32	167	3318465	106.36 ul/l		99
64)	n-Nitrosodiphenylamine	19.71	169	1967114	104.57 ul/l		96
65)	1,2-Diphenylhydrazine	19.76	77	2695672	106.91 ul/l		77
66)	Azobenzene	19.76	77	2695672	106.91 ul/l		77
67)	4-Bromophenyl-phenylether	20.59	248	676638	119.19 ul/l		99
68)	Hexachlorobenzene	20.71	284	683255	125.27 ul/l		88
69)	Atrazine	21.17	58	432493	106.72 ul/l		81
70)	Pentachlorophenol	21.22	266	509614	131.56 ul/l		98
71)	Phenanthrene	21.74	178	3245253	105.61 ul/l		98
72)	Anthracene	21.88	178	3282168	104.47 ul/l		98
73)	Di-n-butylphthalate	23.33	149	4224416	97.25 ul/l		98
74)	Fluoranthene	24.77	202	3554335	103.03 ul/l		99
76)	Benzidine	25.18	184	1748366	122.30 ul/l		98
77)	Pyrene	25.34	202	3577411	108.43 ul/l		98
79)	Butylbenzylphthalate	27.13	149	2118544	107.87 ul/l		94
80)	3,3'-Dichlorobenzidine	28.43	252	820174	80.57 ul/l		96
81)	Benzo[a]anthracene	28.40	228	3437369	112.23 ul/l		98
82)	bis(2-Ethylhexyl)phthalate	28.63	149	2673021	105.84 ul/l		95
83)	Chrysene	28.54	228	2888330	106.61 ul/l		97
85)	Di-n-octylphthalate	30.21	149	4853396	99.98 ul/l		96
86)	Benzo[b]fluoranthene	31.01	252	3074645m	102.92 ul/l		
87)	Benzo[k]fluoranthene	31.08	252	3060564m	111.87 ul/l		
88)	Benzo[a]pyrene	31.71	252	3112799	108.09 ul/l		96
89)	Indeno[1,2,3-cd]pyrene	34.00	276	2948606	99.46 ul/l		90
90)	Dibenz[a,h]anthracene	34.03	278	2473435	102.60 ul/l		99
91)	Benzo[g,h,i]perylene	34.54	276	2382068	95.88 ul/l		96

perylene - diz

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA16\JUN16\E0606\E10612.D Vial: 1
Acq On : 6 Jun 2016 12:10 Operator: JMM
Sample : S6F0703-CAL6 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 7 8:46 2016 Quant Results File: SVE80606.RES

Quant Method : D:\E\METHODS\SVE80606.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Tue May 17 08:58:02 2016
Response via : Initial Calibration
DataAcq Meth : SVE80606

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.15	152	299333	40.00	ul/l	0.01
21) Naphthalene-d8	13.36	136	1202493	40.00	ul/l	0.01
37) Acenaphthene-d10	17.85	164	699248	40.00	ul/l	0.00
61) Phenanthrene-d10	21.66	188	1099118	40.00	ul/l	0.00
75) Chrysene-d12	28.45	240	926942	40.00	ul/l	-0.02
84) Perylene-d12	31.80	264	918803	40.00	ul/l	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	7.04	112	1345166	112.90	ul/l	0.04
Spiked Amount 120.000	Range 15 - 110		Recovery = 94.08%			
7) Phenol-d5	9.50	99	1671706	106.60	ul/l	0.07
Spiked Amount 120.000	Range 15 - 110		Recovery = 88.83%			
22) Nitrobenzene-d5	11.61	82	1169226	106.74	ul/l	0.05
Spiked Amount 100.000	Range 30 - 130		Recovery = 106.74%			
42) 2-Fluorobiphenyl	16.21	172	2138626	99.87	ul/l	0.02
Spiked Amount 100.000	Range 15 - 110		Recovery = 99.87%			
60) 2,4,6-Tribromophenol	19.92	330	328703	132.49	ul/l	0.02
Spiked Amount 120.000	Range 15 - 110		Recovery = 110.41%#			
78) Terphenyl-d14	25.81	244	2149695	107.02	ul/l	-0.02
Spiked Amount 100.000	Range 30 - 130		Recovery = 107.02%			
Target Compounds						Qvalue
2) Pyridine	3.65	79	1475573	129.54	ul/l	93
3) N-Nitrosodimethylamine	3.68	74	951810	117.80	ul/l	94
5) Benzaldehyde	9.05	77	138454	77.16	ul/l	78
6) Aniline	9.39	93	2284202	115.43	ul/l	94
8) Phenol	9.53	94	1738448	104.12	ul/l	93
9) bis(2-Chloroethyl)ether	9.64	93	1511044	114.05	ul/l	91
10) 2-Chlorophenol	9.67	128	1395887	117.23	ul/l	95
11) 1,3-Dichlorobenzene	10.02	146	1342736	111.88	ul/l	96
12) 1,4-Dichlorobenzene	10.20	146	1325462	111.66	ul/l	98
13) Benzyl alcohol	10.67	79	1005615	113.82	ul/l	93
14) 1,2-Dichlorobenzene	10.57	146	1323274	113.47	ul/l	99
15) 2-Methylphenol	10.93	108	1334686m	119.15	ul/l	
16) bis(2-chloroisopropyl)ethe	10.98	45	2182030	108.39	ul/l	91
17) Acetophenone	11.28	105	1613521	109.05	ul/l	87
18) 3&4-Methylphenol	11.42	108	1309876	113.80	ul/l	99
19) N-Nitroso-di-n-propylamine	11.37	70	968296m	113.80	ul/l	
20) Hexachloroethane	11.39	117	558722	112.52	ul/l	91
23) Nitrobenzene	11.66	77	1218109	108.53	ul/l	91
24) Isophorone	12.38	82	2850954m	111.07	ul/l	
25) 2-Nitrophenol	12.44	139	876396	126.87	ul/l	88
26) 2,4-Dimethylphenol	12.74	107	1179893	106.29	ul/l	97
27) Benzoic Acid	13.43	122	797570m	101.87	ul/l	
28) bis(2-Chloroethoxy)methane	12.92	93	1663224	106.81	ul/l	98
29) 2,4-Dichlorophenol	13.11	162	1086129	117.70	ul/l	95
30) 1,2,4-Trichlorobenzene	13.24	180	1105600	115.68	ul/l	98
31) Naphthalene	13.42	128	3294187	106.41	ul/l	96
32) 4-Chloroaniline	13.64	127	1756801	117.91	ul/l	99
33) Hexachlorobutadiene	13.80	225	538427	118.82	ul/l	98
34) Caprolactam	14.90	55	713923m	111.13	ul/l	
35) 4-Chloro-3-methylphenol	15.02	107	1098770	113.17	ul/l	95
36) 2-Methylnaphthalene	15.20	142	2331794	110.17	ul/l	96
38) 1,2,4,5-tetrachlorobenzene	15.66	216	934599	102.01	ul/l	98
39) Hexachlorocyclopentadiene	15.64	237	659091	133.27	ul/l	96
40) 2,4,6-Trichlorophenol	15.99	196	784189	119.97	ul/l	97
41) 2,4,5-Trichlorophenol	16.11	196	778779	115.45	ul/l	99
43) 1,1'-Biphenyl	16.45	154	2231352	93.40	ul/l	98
44) 2-Chloronaphthalene	16.44	162	2109310	108.84	ul/l	99
45) 2-Nitroaniline	16.78	65	687518	107.30	ul/l	81
46) Dimethylphthalate	17.41	163	2450877m	103.92	ul/l	
47) Acenaphthylene	17.51	152	3176517	101.01	ul/l	98
48) 3-Nitroaniline	17.91	138	878225	113.07	ul/l	90

(#) = qualifier out of range (m) = manual integration

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601375
Project: 255 East 138th Street

Calibration:	16G1402	Instrument:	GC/MS E
		Calibration Date:	6/6/2016 2:44:35PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	1.014413	7.446843		
4-Chloroaniline	0.5030556	3.466959		
Hexachlorobutadiene	0.1549383	2.975079	CCC (20)	
Caprolactam	0.2059759	4.024724		
4-Chloro-3-methylphenol	0.3148834	3.706397	CCC (20)	
2-Methylnaphthylene	0.7209771	8.193629		
1,2,4,5-Tetrachlorobenzene	0.4894636	6.658484		
Hexachlorocyclopentadiene	0.3043353	8.043457	SPCC (0.05)	
2,4,6-Trichlorophenol	0.3810716	2.654666	CCC (20)	
2,4,5-Trichlorophenol	0.3910356	4.219982		
2-Chloronaphthalene	1.117736	7.950694		
1,1-Biphenyl	1.303017	12.75237		
2-Nitroaniline	0.3230266	2.83713		
Dimethylphthalate	1.295766	8.404396		
Acenaphthylene	1.728125	9.846874		
3-Nitroaniline	0.429227	1.460559		
Acenaphthene	1.061398	6.631354	CCC (20)	
2,4-Dinitrophenol	0.1418895	43.47269	SPCC (0.05)	
4-Nitrophenol	0.1116238	3.556766	SPCC (0.05)	
Dibenzofuran	1.565428	9.233606		
2,6-Dinitrotoluene	0.3316834	2.19327		
2,4-Dinitrotoluene	0.4046039	2.990609		
2,3,4,6-Tetrachlorophenol	0.3201041	3.652533		
Diethyl phthalate	1.292764	9.050481		
4-Chlorophenyl-phenylether	0.5728172	9.142366		

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1601375		
Project:	255 East 138th Street		
Instrument ID:	GC/MS E	Calibration:	16G1402
Lab File ID:	E10836.D	Calibration Date:	06/06/16 14:44
Sequence:	S6G2207	Injection Date:	07/22/16
Lab Sample ID:	S6G2207-CCV1	Injection Time:	10:05

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrotoluene	A	50.0	61.1	0.4046039	0.4944933		22.2	
2,3,4,6-Tetrachlorophenol	A	50.0	55.0	0.3201041	0.3523234		10.1	
Diethyl phthalate	A	50.0	55.5	1.292764	1.435298		11.0	
4-Chlorophenyl-phenylether	A	50.0	53.5	0.5728172	0.6127939		7.0	
Fluorene	A	50.0	53.7	1.296376	1.392945		7.4	
4-Nitroaniline	A	50.0	57.5	0.4014133	0.4613098		14.9	
4,6-Dinitro-2-methylphenol	L	50.0	61.9	0.1335825	0.1935163		44.9	
Carbazole	A	50.0	51.5	1.130482	1.165469		3.1	
N-Nitrosodiphenylamine	A	50.0	53.2	0.684079	0.728396		6.5	20
1,2-Diphenylhydrazine	A	50.0	48.8	0.8588185	0.8390603		-2.3	
Azobenzene	A	50.0	48.8	0.8588185	0.8390603		-2.3	
4-Bromophenyl-phenylether	A	50.0	52.9	0.218276	0.2307934		5.7	
Atrazine	A	50.0	56.6	0.1431441	0.1620077		13.2	
Hexachlorobenzene	A	50.0	54.2	0.2205023	0.2390437		8.4	
Pentachlorophenol	A	50.0	48.4	0.1520482	0.1470569		-3.3	20
Phenanthrene	A	50.0	51.7	1.101734	1.13838		3.3	
Anthracene	A	50.0	52.2	1.137038	1.187367		4.4	
Di-n-butyl phthalate	A	50.0	52.5	1.525252	1.601996		5.0	
Fluoranthene	A	50.0	52.6	1.247137	1.312995		5.3	20
Benzidine	A	50.0	57.5	0.5924263	0.6815557		15.0	
Pyrene	A	50.0	52.1	1.405601	1.46325		4.1	
Butylbenzylphthalate	A	50.0	51.6	0.8240078	0.8500303		3.2	
3,3'-Dichlorobenzidine	A	50.0	60.4	0.3230835	0.3900089		20.7	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1601375		
Project:	255 East 138th Street		
Instrument ID:	GC/MS E	Calibration:	16G1402
Lab File ID:	E10836.D	Calibration Date:	06/06/16 14:44
Sequence:	S6G2207	Injection Date:	07/22/16
Lab Sample ID:	S6G2207-CCV1	Injection Time:	10:05

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.0	56.7	0.3153011	0.3574556		13.4	20
1,2,4-Trichlorobenzene	A	50.0	54.9	0.3242736	0.3557914		9.7	
Naphthalene	A	50.0	53.9	1.014413	1.093376		7.8	
4-Chloroaniline	A	50.0	55.0	0.5030556	0.5534009		10.0	
Hexachlorobutadiene	A	50.0	55.3	0.1549383	0.1713823		10.6	20
Caprolactam	A	50.0	45.3	0.2059759	0.1867058		-9.4	
4-Chloro-3-methylphenol	A	50.0	57.4	0.3148834	0.3614528		14.8	20
2-Methylnaphthylene	A	50.0	54.0	0.7209771	0.7787418		8.0	
1,2,4,5-Tetrachlorobenzene	A	50.0	56.6	0.4894636	0.5545514		13.3	
Hexachlorocyclopentadiene	A	50.0	36.0	0.3043353	0.219256	0.05	-28.0	
2,4,6-Trichlorophenol	A	50.0	54.0	0.3810716	0.4115486		8.0	20
2,4,5-Trichlorophenol	A	50.0	53.8	0.3910356	0.4210465		7.7	
2-Chloronaphthalene	A	50.0	51.5	1.117736	1.152217		3.1	
1,1-Biphenyl	A	50.0	56.9	1.303017	1.482219		13.8	
2-Nitroaniline	A	50.0	58.2	0.3230266	0.3759412		16.4	
Dimethylphthalate	A	50.0	54.6	1.295766	1.414373		9.2	
Acenaphthylene	A	50.0	53.9	1.728125	1.863189		7.8	
3-Nitroaniline	A	50.0	55.2	0.429227	0.4738235		10.4	
Acenaphthene	A	50.0	52.9	1.061398	1.123726		5.9	20
2,4-Dinitrophenol	L	50.0	61.0	0.1418895	0.2344814	0.05	65.3	
4-Nitrophenol	A	50.0	57.1	0.1116238	0.1274417	0.05	14.2	
Dibenzofuran	A	50.0	54.6	1.565428	1.707876		9.1	
2,6-Dinitrotoluene	A	50.0	57.1	0.3316834	0.3788553		14.2	

Accredited Analytical Resources, LLC.

SERIAL DILUTION

EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1601375
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Matrix:	Solid	Laboratory ID:	S6G2205-SRD1
Sequence:	S6G2205	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Manganese	367	375	2.37		10.00
Antimony	ND	ND	N/A		10.00
Arsenic	3.70	ND	N/A		10.00
Barium	280	277	1.16		10.00
Beryllium	ND	ND	N/A		10.00
Cadmium	1.19	ND	N/A		10.00
Chromium	36.4	36.3	0.287		10.00
Cobalt	13.6	ND	N/A		10.00
Copper	36.9	36.9	0.134		10.00
Aluminum	15700	14900	5.17		10.00
Magnesium	9920	9780	1.42		10.00
Nickel	23.8	24.4	2.70		10.00
Potassium	9470	9050	4.51		10.00
Selenium	ND	ND	N/A		10.00
Silver	ND	ND	N/A		10.00
Sodium	422	400	5.33		10.00
Thallium	ND	ND	N/A		10.00
Vanadium	78.9	59.6	27.9	*	10.00
Zinc	128	136	5.82		10.00
Lead	83.2	88.7	6.35		10.00

* Values outside of QC limits

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1601418

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1601418

The data associated with this Sample Delivery Group (SDG) 1601418, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 10/20/16

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx, NY
SAMPLING DATE:	July 28, 2016
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1601418

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on July 28, 2016. This sample was analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1601418. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1601418, one sample was analyzed and results were reported for 191 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-22	Methylene Chloride	J all data 10X MB value	Detected in the method blank	Data is estimated
EP-22	Acetone	J detects	ICV RPD > 20 %	Sample detects are estimated
EP-22	Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-22	4-Chloroaniline 3-Nitroaniline	"UJ"	LCS < 70 % QC limit	All samples non-detect
EP-22	2,4-Dinitrophenol	J detects	ICV > 40 %	All samples non-detect
EP-22	2,4-Dinitrophenol	UJ non-detects J detects	CCV > 40 %	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-6 Wet Chemistry

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138 Street

AAR Work Order: 1601418

Client Sample ID:	Lab Sample ID:
EP-22	1601418-01

This data has been reviewed and accepted by:

Daniel Miguel 08/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138 Street) on 07/28/2016 15:25.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the Volatile Organic analyses, B6H0217-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6H0203 recovered outside control limits for multiple analytes. These analytes were recovered within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6H0203 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138 Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1601418
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom										AAR SAMPLE #
EP-22	7/28/16 1044	S	9-10'	4	G	X	X	X										-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverables

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Munz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Munz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 7/28/16 Time: 1525		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-22
Lab Sample ID: 1601418-01
Project: 255 East 138 Street
Work Order: 1601418

Date Sampled:	07/28/16 10:44	Prep Date:	08/02/16 12:02	Matrix:	Soil
Percent Solids:	89.20	Prep Method:	EPA 5035A	File ID:	A8881.D
Prep Batch:	B6H0217	Sequence:	S6H0203	Analyzed:	08/02/16 12:02
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	6.22	10.4	U
107-13-1	Acrylonitrile	ND	2.07	10.4	U
67-64-1	Acetone	5.16 J	1.04	2.07	
75-71-8	Dichlorodifluoromethane	ND	1.04	2.07	U
74-87-3	Chloromethane	ND	1.04	2.07	U
75-01-4	Vinyl chloride	ND	1.04	2.07	U
74-83-9	Bromomethane	ND	1.04	2.07	U
75-00-3	Chloroethane	ND	1.04	2.07	U
75-69-4	Trichlorofluoromethane	ND	1.04	2.07	U
75-35-4	1,1-Dichloroethene	ND	1.04	2.07	U
75-15-0	Carbon disulfide	ND	1.04	2.07	U
75-09-2	Methylene Chloride	3.44 J	1.04	2.07	B
156-60-5	trans-1,2-Dichloroethene	ND	1.04	2.07	U
75-34-3	1,1-Dichloroethane	ND	1.04	2.07	U
108-05-4	Vinyl acetate	ND	1.04	2.07	U
590-20-7	2,2-Dichloropropane	ND	1.04	2.07	U
78-93-3	2-Butanone	2.19	1.04	2.07	
156-59-4	cis-1,2-Dichloroethene	ND	1.04	2.07	U
67-66-3	Chloroform	ND	1.04	2.07	U
74-97-5	Bromochloromethane	ND	1.04	2.07	U
71-55-6	1,1,1-Trichloroethane	ND	1.04	2.07	U
563-58-6	1,1-Dichloropropene	ND	1.04	2.07	U
56-23-5	Carbon Tetrachloride	ND	1.04	2.07	U
107-06-2	1,2-Dichloroethane	ND	1.04	2.07	U
71-43-2	Benzene	ND	1.04	2.07	U

 MKP 10/26/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-22
Lab Sample ID: 1601418-01
Project: 255 East 138 Street
Work Order: 1601418

Date Sampled:	07/28/16 10:44	Prep Date:	08/02/16 12:02	Matrix:	Soil
Percent Solids:	89.20	Prep Method:	EPA 5035A	File ID:	A8881.D
Prep Batch:	B6H0217	Sequence:	S6H0203	Analyzed:	08/02/16 12:02
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.04	2.07	U
78-87-5	1,2-Dichloropropane	ND	1.04	2.07	U
75-27-4	Bromodichloromethane	ND	1.04	2.07	U
74-95-3	Dibromomethane	ND	1.04	2.07	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.04	2.07	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.04	2.07	U
108-88-3	Toluene	ND	1.04	2.07	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.04	2.07	U
79-00-5	1,1,2-Trichloroethane	ND	1.04	2.07	U
108-10-1	4-Methyl-2-pentanone	ND	1.04	2.07	U
106-93-4	1,2-Dibromoethane	ND	1.04	2.07	U
591-78-6	2-Hexanone	ND	1.04	2.07	U
142-28-9	1,3-Dichloropropane	ND	1.04	2.07	U
127-18-4	Tetrachloroethene	ND	1.04	2.07	U
124-48-1	Dibromochloromethane	ND	1.04	2.07	U
100-41-4	Ethylbenzene	ND	1.04	2.07	U
108-90-7	Chlorobenzene	ND	1.04	2.07	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.04	2.07	U
108-38-3/106-42	m,p-Xylenes	ND	2.07	4.14	U
95-47-6	o-Xylene	ND	2.07	4.14	U
100-42-5	Styrene	ND	1.04	4.14	U
75-25-2	Bromoform	ND	1.04	2.07	U
98-82-8	Isopropylbenzene	ND	1.04	2.07	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.04	2.07	U
96-18-4	1,2,3-Trichloropropane	ND	1.04	2.07	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-22
Lab Sample ID: 1601418-01
Project: 255 East 138 Street
Work Order: 1601418

Date Sampled:	07/28/16 10:44	Prep Date:	08/02/16 12:02	Matrix:	Soil
Percent Solids:	89.20	Prep Method:	EPA 5035A	File ID:	A8881.D
Prep Batch:	B6H0217	Sequence:	S6H0203	Analyzed:	08/02/16 12:02
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	1.04	2.07	U
108-86-1	Bromobenzene	ND	1.04	2.07	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.04	2.07	U
95-49-8	2-Chlorotoluene	ND	1.04	2.07	U
106-43-4	4-Chlorotoluene	ND	1.04	2.07	U
98-06-6	tert-Butylbenzene	ND	1.04	2.07	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.04	2.07	U
135-98-8	sec-Butylbenzene	ND	1.04	2.07	U
99-87-6	p-Isopropyltoluene	ND	1.04	2.07	U
541-73-1	1,3-Dichlorobenzene	ND	1.04	2.07	U
106-46-7	1,4-Dichlorobenzene	ND	1.04	2.07	U
104-51-8	n-Butyl Benzene	ND	1.04	2.07	U
95-50-1	1,2-Dichlorobenzene	ND	1.04	2.07	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.04	2.07	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.04	2.07	U
87-68-3	Hexachlorobutadiene	ND	1.04	2.07	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.04	2.07	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	103%	70-130
Toluene-d8	103%	70-130
Bromofluorobenzene	103%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-22
Lab Sample ID: 1601418-01
Project: 255 East 138 Street
Work Order: 1601418

Date Sampled:	07/28/16 10:44	Prep Date:	08/02/16 06:18	Matrix:	Soil
Percent Solids:	89.20	Prep Method:	EPA 3550B GCMS	File ID:	E10954.D
Prep Batch:	B6H0203	Sequence:	S6H0308	Analyzed:	08/03/16 20:18
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	37.3	187	U
108-95-2	Phenol	ND	37.3	187	U
111-44-4	bis(2-chloroethyl)ether	ND	37.3	187	U
95-57-8	2-Chlorophenol	ND	37.3	187	U
541-73-1	1,3-Dichlorobenzene	ND	37.3	187	U
106-46-7	1,4-Dichlorobenzene	ND	37.3	187	U
100-51-6	Benzyl alcohol	ND	37.3	187	U
95-50-1	1,2-Dichlorobenzene	ND	37.3	187	U
95-48-7	2-Methylphenol	ND	37.3	187	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	37.3	187	U
106-44-5	3 & 4-Methylphenol	ND	37.3	187	U
621-64-7	N-Nitroso-di-n-propylamine	ND	37.3	187	U
67-72-1	Hexachloroethane	ND	37.3	187	U
98-95-3	Nitrobenzene	ND	37.3	187	U
78-59-1	Isophorone	ND	37.3	187	U
88-75-5	2-Nitrophenol	ND	37.3	187	U
105-67-9	2,4-Dimethylphenol	ND	37.3	187	U
65-85-0	Benzoic acid	ND	93.0	373	U
111-91-1	bis(2-chloroethoxy)methane	ND	37.3	187	U
120-83-2	2,4-Dichlorophenol	ND	37.3	187	U
120-82-1	1,2,4-Trichlorobenzene	ND	37.3	187	U
91-20-3	Naphthalene	ND	37.3	187	U
106-47-8	4-Chloroaniline	ND UJ	37.3	187	U
87-68-3	Hexachlorobutadiene	ND	37.3	187	U
59-50-7	4-Chloro-3-methylphenol	ND	37.3	187	U

MKP 10/20/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-22
Lab Sample ID: 1601418-01
Project: 255 East 138 Street
Work Order: 1601418

Date Sampled:	07/28/16 10:44	Prep Date:	08/02/16 06:18	Matrix:	Soil
Percent Solids:	89.20	Prep Method:	EPA 3550B GCMS	File ID:	E10954.D
Prep Batch:	B6H0203	Sequence:	S6H0308	Analyzed:	08/03/16 20:18
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	37.3	187	U
77-47-4	Hexachlorocyclopentadiene	ND	37.3	187	U
88-06-2	2,4,6-Trichlorophenol	ND	37.3	187	U
95-95-4	2,4,5-Trichlorophenol	ND	37.3	187	U
91-58-7	2-Chloronaphthalene	ND	37.3	187	U
88-74-4	2-Nitroaniline	ND	37.3	187	U
131-11-3	Dimethylphthalate	ND	37.3	187	U
208-96-8	Acenaphthylene	ND	37.3	187	U
99-09-2	3-Nitroaniline	ND UJ	37.3	187	U
83-32-9	Acenaphthene	ND	37.3	187	U
51-28-5	2,4-Dinitrophenol	ND UJ	37.3	373	U
100-02-7	4-Nitrophenol	ND	37.3	187	U
132-64-9	Dibenzofuran	ND	37.3	187	U
606-20-2	2,6-Dinitrotoluene	ND	37.3	187	U
121-14-2	2,4-Dinitrotoluene	ND	37.3	187	U
84-66-2	Diethyl phthalate	ND	37.3	187	U
7005-72-3	4-Chlorophenyl-phenylether	ND	37.3	187	U
86-73-7	Fluorene	ND	37.3	187	U
100-01-6	4-Nitroaniline	ND	37.3	187	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	37.3	187	U
86-30-6	N-Nitrosodiphenylamine	ND	37.3	187	U
101-55-3	4-Bromophenyl-phenylether	ND	37.3	187	U
118-74-1	Hexachlorobenzene	ND	37.3	187	U
87-86-5	Pentachlorophenol	ND	37.3	187	U
85-01-8	Phenanthrene	ND	37.3	187	U

MKP 10/26/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-22
Lab Sample ID: 1601418-01
Project: 255 East 138 Street
Work Order: 1601418

Date Sampled:	07/28/16 10:44	Prep Date:	08/02/16 06:18	Matrix:	Soil
Percent Solids:	89.20	Prep Method:	EPA 3550B GCMS	File ID:	E10954.D
Prep Batch:	B6H0203	Sequence:	S6H0308	Analyzed:	08/03/16 20:18
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	37.3	187	U
84-74-2	Di-n-butyl phthalate	ND	37.3	187	U
206-44-0	Fluoranthene	ND	37.3	187	U
129-00-0	Pyrene	ND	37.3	187	U
85-68-7	Butylbenzylphthalate	ND	37.3	187	U
91-94-1	3,3'-Dichlorobenzidine	ND	93.0	187	U
56-55-3	Benzo[a]anthracene	ND	37.3	187	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	37.3	187	U
218-01-9	Chrysene	ND	37.3	187	U
117-84-0	Di-n-octyl phthalate	ND	37.3	187	U
205-99-2	Benzo[b]fluoranthene	ND	37.3	187	U
207-08-9	Benzo[k]fluoranthene	ND	37.3	187	U
50-32-8	Benzo[a]pyrene	ND	37.3	187	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	37.3	187	U
53-70-3	Dibenzo(a,h)anthracene	ND	37.3	187	U
191-24-2	Benzo[ghi]perylene	ND	37.3	187	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	61%	30-130
Phenol-d5	63%	30-130
Nitrobenzene-d5	88%	30-130
2-Fluorobiphenyl	85%	30-130
2,4,6-Tribromophenol	84%	30-130
Terphenyl-d14	97%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-22
Lab Sample ID: 1601418-01
Project: 255 East 138 Street
Work Order: 1601418

Date Sampled:	07/28/16 10:44	Prep Date:	08/02/16 06:14	Matrix:	Soil
Percent Solids:	89.20	Prep Method:	EPA 3550B	File ID:	A22561.D
Prep Batch:	B6H0202	Sequence:	S6H0302	Analyzed:	08/03/16 15:39
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.740	0.740	U
319-85-7	beta-BHC	ND	0.740	0.740	U
319-86-8	delta-BHC	ND	0.740	0.740	U
58-89-9	gamma-BHC [Lindane]	ND	0.740	0.740	U
76-44-8	Heptachlor	ND	0.740	0.740	U
309-00-2	Aldrin	ND	0.740	0.740	U
1024-57-3	Heptachlor Epoxide	ND	0.740	0.740	U
959-98-8	Endosulfan I	ND	0.740	0.740	U
60-57-1	Dieldrin	ND	1.49	1.49	U
72-55-9	4,4'-DDE	ND	1.49	1.49	U
72-20-8	Endrin	ND	1.49	1.49	U
33213-65-9	Endosulfan II	ND	1.49	1.49	U
72-54-8	4,4'-DDD	ND	1.49	1.49	U
1031-07-8	Endosulfan sulfate	ND	1.49	1.49	U
50-29-3	4,4'-DDT	ND	1.49	1.49	U
72-43-5	Methoxychlor	ND	2.24	7.47	U
53494-70-5	Endrin ketone	ND	1.49	1.49	U
7421-93-4	Endrin aldehyde	ND	1.49	1.49	U
5103-71-9	alpha-Chlordane	ND	0.740	0.740	U
5566-34-7	gamma-Chlordane	ND	0.740	0.740	U
8001-35-2	Toxaphene	ND	37.3	37.3	U
12674-11-2	Aroclor-1016	ND	18.6	37.3	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-22
Lab Sample ID: 1601418-01
Project: 255 East 138 Street
Work Order: 1601418

Date Sampled:	07/28/16 10:44	Prep Date:	08/02/16 06:14	Matrix:	Soil
Percent Solids:	89.20	Prep Method:	EPA 3550B	File ID:	A22561.D
Prep Batch:	B6H0202	Sequence:	S6H0302	Analyzed:	08/03/16 15:39
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	18.6	37.3	U
11141-16-5	Aroclor-1232	ND	18.6	37.3	U
53469-21-9	Aroclor-1242	ND	18.6	37.3	U
12672-29-6	Aroclor-1248	ND	18.6	37.3	U
11097-69-1	Aroclor-1254	ND	18.6	37.3	U
11096-82-5	Aroclor-1260	ND	18.6	37.3	U
37324-23-5	Aroclor-1262	ND	18.6	37.3	U
11100-14-4	Aroclor-1268	ND	18.6	37.3	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	59.6%	30-150
Tetrachloro-m-xylene [2C]	73.4%	30-150
Decachlorobiphenyl	64.1%	30-150
Decachlorobiphenyl [2C]	72.0%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-22
Lab Sample ID: 1601418-01
Project: 255 East 138 Street
Work Order: 1601418

Date Sampled:	07/28/16 10:44	Matrix:	Soil
Percent Solids:	89.20	File ID:	080216A-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	6740	22.4	22.4	1		08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0841	0.0841	1	U	07/29/16 07:41	EPA 7471A	08/01/16 09:21 PRT	EPA 7471
7440-36-0	Antimony	ND	4.48	4.48	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7440-38-2	Arsenic	ND	1.12	1.12	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7440-39-3	Barium	39.4	22.4	22.4	1		08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.561	0.561	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.561	0.561	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7440-70-2	Calcium	47200	701	701	25	D	08/02/16 08:51	EPA 3050B	08/02/16 14:53 LIT	EPA 6010
7440-47-3	Chromium	15.4	2.24	2.24	1		08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7440-48-4	Cobalt	6.21	5.61	5.61	1		08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7440-50-8	Copper	13.1	3.36	3.36	1		08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7439-89-6	Iron	12100	28.0	28.0	1		08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7439-92-1	Lead	6.79	1.12	1.12	1		08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7439-95-4	Magnesium	29100	56.1	56.1	1		08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7439-96-5	Manganese	515	2.24	2.24	1		08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7440-02-0	Nickel	10.7	4.48	4.48	1		08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7440-09-7	Potassium	1890	56.1	56.1	1		08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7782-49-2	Selenium	ND	4.48	4.48	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7440-22-4	Silver	ND	0.561	0.561	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7440-23-5	Sodium	166	56.1	56.1	1		08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7440-28-0	Thallium	ND	1.68	3.36	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7440-62-2	Vanadium	24.5	5.61	5.61	1		08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010
7440-66-6	Zinc	36.8	6.73	6.73	1		08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-22
Lab Sample ID: 1601418-01
Project: 255 East 138 Street
Work Order: 1601418

Date Sampled:	07/28/16 10:44	Matrix:	Soil
Percent Solids:	89.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	15.4	2.00	2.00	1		08/02/16 08:51	[CALC]	08/02/16 15:52 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.24	2.24	1	U	08/01/16 09:19	SW 846 3060A	08/02/16 15:52 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.12	1.12	1	U	08/03/16 11:12	EPA 9010C	08/03/16 17:08 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	89.2	0.100	0.100	1		08/03/16 10:57	Percent Solids	08/04/16 13:07 RMK	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601418
Project: 255 East 138 Street

Matrix:	Solid	Laboratory ID:	B6H0217-BLK1	File ID:	A8875.D
Batch:	B6H0217	Prepared:	08/02/16 08:57	Analyzed:	08/02/16 08:57
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S6H0203	Instrument:	GC/MS A

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND	1.00	2.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	1.52	1.00	2.00	J
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601418
Project: 255 East 138 Street

Calibration:	16G2901	Instrument:	GC/MS A
		Calibration Date:	7/28/2016 11:00:56AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	3.940028E-02	3.96743		
Acrylonitrile	9.664191E-02	10.03424		
Acetone	0.2048483	39.69748		
Dichlorodifluoromethane	0.6149421	13.26661		
Chloromethane	0.7591113	7.325997	SPCC (0.1)	
Vinyl chloride	0.7362654	8.753645	CCC (20)	
Bromomethane	0.5626239	10.75447		
Chloroethane	0.2338689	6.217668		
Trichlorofluoromethane	0.8001752	10.82604		
Freon 113	0.5444944	4.681728		
1,1-Dichloroethene	0.777461	4.210771	CCC (20)	
Carbon disulfide	1.858694	9.074759		
Methyl Acetate	0.1922845	11.73523		
Methylene Chloride	1.3004	104.2599		
trans-1,2-Dichloroethene	0.764663	8.951139		
1,1-Dichloroethane	0.8798868	5.384	SPCC (0.1)	
Vinyl acetate	0.7730708	10.04256		
2,2-Dichloropropane	0.8674895	10.00306		
2-Butanone	0.1876336	6.12607		
cis-1,2-Dichloroethene	0.7020811	9.315722		
Chloroform	0.8983923	6.321035	CCC (20)	
Bromochloromethane	0.2926808	3.87027		
Cyclohexane	0.8792215	8.624052		
1,1,1-Trichloroethane	0.8270675	5.890328		
t-Butyl alcohol	2.239046E-02	9.948907		

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	**BRINKERHOFF ENVIRONMENTAL**		
Work Order:	**1601418**		
Project:	**255 East 138 Street**		
Instrument ID:	GC/MS A	Calibration:	16G2901
Lab File ID:	A8873.D	Calibration Date:	07/28/16 11:00
Sequence:	S6H0203	Injection Date:	08/02/16
Lab Sample ID:	S6H0203-CCV1	Injection Time:	07:56

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	**TYPE**	**STD**	**CCV**	**ICAL**	**CCV**	**MIN (#)**	**CCV**	**LIMIT (#)**
Acrolein	A	250	237	3.940028E-02	3.740806E-02		-5.1	
Acrylonitrile	A	250	250	9.664191E-02	9.665655E-02		0.02	
Acetone	L	50.0	53.5	0.2048483	0.1749495		-14.6	
Dichlorodifluoromethane	A	50.0	51.7	0.6149421	0.6360312		3.4	
Chloromethane	A	50.0	51.1	0.7591113	0.7757717	0.1	2.2	
Vinyl chloride	A	50.0	52.2	0.7362654	0.7686619		4.4	20
Bromomethane	A	50.0	46.1	0.5626239	0.5188619		-7.8	
Chloroethane	A	50.0	43.7	0.2338689	0.2045646		-12.5	
Trichlorofluoromethane	A	50.0	50.8	0.8001752	0.8128817		1.6	
Freon 113	A	50.0	44.9	0.5444944	0.4890326		-10.2	
1,1-Dichloroethene	A	50.0	46.1	0.777461	0.7172756		-7.7	20
Carbon disulfide	A	50.0	44.4	1.858694	1.651347		-11.2	
Methyl Acetate	A	50.0	48.2	0.1922845	0.1851878		-3.7	
Methylene Chloride	L	50.0	45.2	1.3004	0.6098004		-53.1	
trans-1,2-Dichloroethene	A	50.0	44.2	0.764663	0.6754736		-11.7	
1,1-Dichloroethane	A	50.0	49.1	0.8798868	0.8639389	0.1	-1.8	
Vinyl acetate	A	50.0	50.1	0.7730708	0.7749869		0.2	
2,2-Dichloropropane	A	50.0	46.6	0.8674895	0.8075662		-6.9	
2-Butanone	A	50.0	50.6	0.1876336	0.1898721		1.2	
cis-1,2-Dichloroethene	A	50.0	47.7	0.7020811	0.6694422		-4.6	
Chloroform	A	50.0	48.2	0.8983923	0.8661645		-3.6	20
Bromochloromethane	A	50.0	50.6	0.2926808	0.2958989		1.1	
Cyclohexane	A	50.0	47.8	0.8792215	0.8410953		-4.3	

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138 Street
Work Order: 1601418

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6H0203	Lab Sample ID:	B6H0203-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1000	60	20 - 160
N-Nitrosodimethylamine	1670	1190	71	20 - 160
Aniline	1670	761	46	20 - 160
Phenol	1670	1130	68	20 - 160
bis(2-chloroethyl)ether	1670	1180	71	70 - 130
2-Chlorophenol	1670	1180	71	70 - 130
1,3-Dichlorobenzene	1670	1260	76	70 - 130
1,4-Dichlorobenzene	1670	1250	75	70 - 130
Benzyl alcohol	1670	1200	72	20 - 160
1,2-Dichlorobenzene	1670	1240	75	70 - 130
2-Methylphenol	1670	1120	67	20 - 160
bis(2-chloroisopropyl)ether	1670	1250	75	70 - 130
3 & 4-Methylphenol	1670	1110	66	20 - 160
N-Nitroso-di-n-propylamine	1670	1210	72	70 - 130
Hexachloroethane	1670	1290	77	20 - 160
Nitrobenzene	1670	1410	85	70 - 130
Isophorone	1670	1340	81	70 - 130
2-Nitrophenol	1670	1340	80	70 - 130
2,4-Dimethylphenol	1670	1360	82	70 - 130
bis(2-chloroethoxy)methane	1670	1310	79	70 - 130
2,4-Dichlorophenol	1670	1310	79	70 - 130
1,2,4-Trichlorobenzene	1670	1400	84	70 - 130
Naphthalene	1670	1360	81	70 - 130
4-Chloroaniline	1670	394	24 *	70 - 130
Hexachlorobutadiene	1670	1510	90	70 - 130
4-Chloro-3-methylphenol	1670	1300	78	70 - 130
2-Methylnaphthylene	1670	1260	76	70 - 130
Hexachlorocyclopentadiene	1670	1070	64	20 - 160

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138 Street
Work Order: 1601418

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6H0203	Lab Sample ID:	B6H0203-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2,4,6-Trichlorophenol	1670	1420	85	70 - 130
2,4,5-Trichlorophenol	1670	1390	84	70 - 130
2-Chloronaphthalene	1670	1480	89	70 - 130
2-Nitroaniline	1670	1560	94	70 - 130
Dimethylphthalate	1670	1460	87	70 - 130
Acenaphthylene	1670	1430	86	70 - 130
3-Nitroaniline	1670	950	57 *	70 - 130
Acenaphthene	1670	1490	90	70 - 130
2,4-Dinitrophenol	1670	1380	83	20 - 160
4-Nitrophenol	1670	1430	86	20 - 160
Dibenzofuran	1670	1460	88	70 - 130
2,6-Dinitrotoluene	1670	1500	90	70 - 130
2,4-Dinitrotoluene	1670	1500	90	70 - 130
2,3,4,6-Tetrachlorophenol	1670	1400	84	70 - 130
Diethyl phthalate	1670	1460	87	70 - 130
4-Chlorophenyl-phenylether	1670	1480	89	70 - 130
Fluorene	1670	1430	86	70 - 130
4-Nitroaniline	1670	1240	74	70 - 130
4,6-Dinitro-2-methylphenol	1670	1660	100	70 - 130
Carbazole	1670	1450	87	70 - 130
N-Nitrosodiphenylamine	1670	1550	93	20 - 160
Azobenzene	1670	1540	92	70 - 130
4-Bromophenyl-phenylether	1670	1580	95	70 - 130
Hexachlorobenzene	1670	1640	99	70 - 130
Pentachlorophenol	1670	1300	78	20 - 160
Phenanthrene	1670	1530	92	70 - 130
Anthracene	1670	1490	89	70 - 130
Di-n-butyl phthalate	1670	1450	87	70 - 130

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601418
Project: 255 East 138 Street

Calibration:	16G1402	Instrument:	GC/MS E
		Calibration Date:	6/6/2016 2:44:35PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	1.014413	7.446843		
4-Chloroaniline	0.5030556	3.466959		
Hexachlorobutadiene	0.1549383	2.975079	CCC (20)	
Caprolactam	0.2059759	4.024724		
4-Chloro-3-methylphenol	0.3148834	3.706397	CCC (20)	
2-Methylnaphthylene	0.7209771	8.193629		
1,2,4,5-Tetrachlorobenzene	0.4894636	6.658484		
Hexachlorocyclopentadiene	0.3043353	8.043457	SPCC (0.05)	
2,4,6-Trichlorophenol	0.3810716	2.654666	CCC (20)	
2,4,5-Trichlorophenol	0.3910356	4.219982		
2-Chloronaphthalene	1.117736	7.950694		
1,1-Biphenyl	1.303017	12.75237		
2-Nitroaniline	0.3230266	2.83713		
Dimethylphthalate	1.295766	8.404396		
Acenaphthylene	1.728125	9.846874		
3-Nitroaniline	0.429227	1.460559		
Acenaphthene	1.061398	6.631354	CCC (20)	
2,4-Dinitrophenol	0.1418895	43.47269	SPCC (0.05)	
4-Nitrophenol	0.1116238	3.556766	SPCC (0.05)	
Dibenzofuran	1.565428	9.233606		
2,6-Dinitrotoluene	0.3316834	2.19327		
2,4-Dinitrotoluene	0.4046039	2.990609		
2,3,4,6-Tetrachlorophenol	0.3201041	3.652533		
Diethyl phthalate	1.292764	9.050481		
4-Chlorophenyl-phenylether	0.5728172	9.142366		

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601418
Project: 255 East 138 Street

Instrument ID:	GC/MS E	Calibration:	16G1402
Lab File ID:	E10945.D	Calibration Date:	06/06/16 14:44
Sequence:	S6H0308	Injection Date:	08/03/16
Lab Sample ID:	S6H0308-CCV1	Injection Time:	13:49

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.0	52.9	0.3153011	0.3337258		5.8	20
1,2,4-Trichlorobenzene	A	50.0	52.6	0.3242736	0.3413604		5.3	
Naphthalene	A	50.0	51.4	1.014413	1.043226		2.8	
4-Chloroaniline	A	50.0	48.2	0.5030556	0.4846333		-3.7	
Hexachlorobutadiene	A	50.0	55.4	0.1549383	0.1716007		10.8	20
Caprolactam	A	50.0	53.4	0.2059759	0.2200891		6.9	
4-Chloro-3-methylphenol	A	50.0	50.9	0.3148834	0.320676		1.8	20
2-Methylnaphthylene	A	50.0	48.6	0.7209771	0.7006159		-2.8	
1,2,4,5-Tetrachlorobenzene	A	50.0	58.5	0.4894636	0.5725625		17.0	
Hexachlorocyclopentadiene	A	50.0	42.3	0.3043353	0.2574149	0.05	-15.4	
2,4,6-Trichlorophenol	A	50.0	52.7	0.3810716	0.4018038		5.4	20
2,4,5-Trichlorophenol	A	50.0	51.2	0.3910356	0.4000262		2.3	
2-Chloronaphthalene	A	50.0	52.0	1.117736	1.162106		4.0	
1,1-Biphenyl	A	50.0	56.6	1.303017	1.47599		13.3	
2-Nitroaniline	A	50.0	57.4	0.3230266	0.3708835		14.8	
Dimethylphthalate	A	50.0	49.0	1.295766	1.268923		-2.1	
Acenaphthylene	A	50.0	52.3	1.728125	1.807368		4.6	
3-Nitroaniline	A	50.0	50.6	0.429227	0.4342052		1.2	
Acenaphthene	A	50.0	51.6	1.061398	1.096277		3.3	20
2,4-Dinitrophenol	L	50.0	58.9	0.1418895	0.2253754	0.05	58.8	
4-Nitrophenol	A	50.0	54.9	0.1116238	0.1226717	0.05	9.9	
Dibenzofuran	A	50.0	51.8	1.565428	1.622596		3.7	
2,6-Dinitrotoluene	A	50.0	51.1	0.3316834	0.3389988		2.2	

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1601448

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1601448

The data associated with this Sample Delivery Group (SDG) 1601448, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 10/23/16

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx, NY
SAMPLING DATE:	August 1, 2016
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1601448

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on August 1, 2016. This sample was analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1601448. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1601448, one sample was analyzed and results were reported for 191 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-23	Methylene Chloride	J all data 10X MB value	Detected in the method blank	Data is estimated
EP-23	Acetone	J detects	ICV RPD > 20 %	Sample detects are estimated
EP-23	Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-23	4-Chloroaniline 3-Nitroaniline	"UJ"	LCS < 70 % QC limit	All samples non-detect
EP-23	2,4-Dinitrophenol	J detects	ICV > 40 %	All samples non-detect
EP-23	2,4-Dinitrophenol	UJ non-detects J detects	CCV > 40 %	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-6 Wet Chemistry

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601448

Client Sample ID:	Lab Sample ID:
EP-23	1601448-01

This data has been reviewed and accepted by:

Daniel Miguel 08/24/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 08/01/2016 15:05.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the Volatile Organic analyses, B6H0217-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6H0203 recovered outside control limits for multiple analytes. These analtyes were recovered within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6H0203 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD are outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave.
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601448
P.O. #	10BRIYY

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex chrom	Tr. chrom	AAR SAMPLE #
EP-23	8/1/16 1140	S	4'	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER ____ (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data deliverables

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8 / 1 / 16 Time: 1505		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 12:33	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 5035A	File ID:	A8882.D
Prep Batch:	B6H0217	Sequence:	S6H0203	Analyzed:	08/02/16 12:33
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	6.14	10.2	U
107-13-1	Acrylonitrile	ND	2.05	10.2	U
67-64-1	Acetone	1.17 J	1.02	2.05	J
75-71-8	Dichlorodifluoromethane	ND	1.02	2.05	U
74-87-3	Chloromethane	ND	1.02	2.05	U
75-01-4	Vinyl chloride	ND	1.02	2.05	U
74-83-9	Bromomethane	ND	1.02	2.05	U
75-00-3	Chloroethane	ND	1.02	2.05	U
75-69-4	Trichlorofluoromethane	ND	1.02	2.05	U
75-35-4	1,1-Dichloroethene	ND	1.02	2.05	U
75-15-0	Carbon disulfide	ND	1.02	2.05	U
75-09-2	Methylene Chloride	1.57 J	1.02	2.05	J, B
156-60-5	trans-1,2-Dichloroethene	ND	1.02	2.05	U
75-34-3	1,1-Dichloroethane	ND	1.02	2.05	U
108-05-4	Vinyl acetate	ND	1.02	2.05	U
590-20-7	2,2-Dichloropropane	ND	1.02	2.05	U
78-93-3	2-Butanone	ND	1.02	2.05	U
156-59-4	cis-1,2-Dichloroethene	ND	1.02	2.05	U
67-66-3	Chloroform	ND	1.02	2.05	U
74-97-5	Bromochloromethane	ND	1.02	2.05	U
71-55-6	1,1,1-Trichloroethane	ND	1.02	2.05	U
563-58-6	1,1-Dichloropropene	ND	1.02	2.05	U
56-23-5	Carbon Tetrachloride	ND	1.02	2.05	U
107-06-2	1,2-Dichloroethane	ND	1.02	2.05	U
71-43-2	Benzene	ND	1.02	2.05	U

MKF 10/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 12:33	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 5035A	File ID:	A8882.D
Prep Batch:	B6H0217	Sequence:	S6H0203	Analyzed:	08/02/16 12:33
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.02	2.05	U
78-87-5	1,2-Dichloropropane	ND	1.02	2.05	U
75-27-4	Bromodichloromethane	ND	1.02	2.05	U
74-95-3	Dibromomethane	ND	1.02	2.05	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.02	2.05	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.02	2.05	U
108-88-3	Toluene	ND	1.02	2.05	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.02	2.05	U
79-00-5	1,1,2-Trichloroethane	ND	1.02	2.05	U
108-10-1	4-Methyl-2-pentanone	ND	1.02	2.05	U
106-93-4	1,2-Dibromoethane	ND	1.02	2.05	U
591-78-6	2-Hexanone	ND	1.02	2.05	U
142-28-9	1,3-Dichloropropane	ND	1.02	2.05	U
127-18-4	Tetrachloroethene	ND	1.02	2.05	U
124-48-1	Dibromochloromethane	ND	1.02	2.05	U
100-41-4	Ethylbenzene	ND	1.02	2.05	U
108-90-7	Chlorobenzene	ND	1.02	2.05	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.02	2.05	U
108-38-3/106-42	m,p-Xylenes	ND	2.05	4.09	U
95-47-6	o-Xylene	ND	2.05	4.09	U
100-42-5	Styrene	ND	1.02	4.09	U
75-25-2	Bromoform	ND	1.02	2.05	U
98-82-8	Isopropylbenzene	ND	1.02	2.05	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.02	2.05	U
96-18-4	1,2,3-Trichloropropane	ND	1.02	2.05	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 12:33	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 5035A	File ID:	A8882.D
Prep Batch:	B6H0217	Sequence:	S6H0203	Analyzed:	08/02/16 12:33
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	1.02	2.05	U
108-86-1	Bromobenzene	ND	1.02	2.05	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.02	2.05	U
95-49-8	2-Chlorotoluene	ND	1.02	2.05	U
106-43-4	4-Chlorotoluene	ND	1.02	2.05	U
98-06-6	tert-Butylbenzene	ND	1.02	2.05	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.02	2.05	U
135-98-8	sec-Butylbenzene	ND	1.02	2.05	U
99-87-6	p-Isopropyltoluene	ND	1.02	2.05	U
541-73-1	1,3-Dichlorobenzene	ND	1.02	2.05	U
106-46-7	1,4-Dichlorobenzene	ND	1.02	2.05	U
104-51-8	n-Butyl Benzene	ND	1.02	2.05	U
95-50-1	1,2-Dichlorobenzene	ND	1.02	2.05	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.02	2.05	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.02	2.05	U
87-68-3	Hexachlorobutadiene	ND	1.02	2.05	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.02	2.05	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	106%	70-130
Toluene-d8	103%	70-130
Bromofluorobenzene	102%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 06:18	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 3550B GCMS	File ID:	E10951.D
Prep Batch:	B6H0203	Sequence:	S6H0308	Analyzed:	08/03/16 18:08
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	39.1	196	U
108-95-2	Phenol	ND	39.1	196	U
111-44-4	bis(2-chloroethyl)ether	ND	39.1	196	U
95-57-8	2-Chlorophenol	ND	39.1	196	U
541-73-1	1,3-Dichlorobenzene	ND	39.1	196	U
106-46-7	1,4-Dichlorobenzene	ND	39.1	196	U
100-51-6	Benzyl alcohol	ND	39.1	196	U
95-50-1	1,2-Dichlorobenzene	ND	39.1	196	U
95-48-7	2-Methylphenol	ND	39.1	196	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	39.1	196	U
106-44-5	3 & 4-Methylphenol	ND	39.1	196	U
621-64-7	N-Nitroso-di-n-propylamine	ND	39.1	196	U
67-72-1	Hexachloroethane	ND	39.1	196	U
98-95-3	Nitrobenzene	ND	39.1	196	U
78-59-1	Isophorone	ND	39.1	196	U
88-75-5	2-Nitrophenol	ND	39.1	196	U
105-67-9	2,4-Dimethylphenol	ND	39.1	196	U
65-85-0	Benzoic acid	ND	97.5	391	U
111-91-1	bis(2-chloroethoxy)methane	ND	39.1	196	U
120-83-2	2,4-Dichlorophenol	ND	39.1	196	U
120-82-1	1,2,4-Trichlorobenzene	ND	39.1	196	U
91-20-3	Naphthalene	ND	39.1	196	U
106-47-8	4-Chloroaniline	ND UJ	39.1	196	U
87-68-3	Hexachlorobutadiene	ND	39.1	196	U
59-50-7	4-Chloro-3-methylphenol	ND	39.1	196	U

MKP 10/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 06:18	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 3550B GCMS	File ID:	E10951.D
Prep Batch:	B6H0203	Sequence:	S6H0308	Analyzed:	08/03/16 18:08
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	39.1	196	U
77-47-4	Hexachlorocyclopentadiene	ND	39.1	196	U
88-06-2	2,4,6-Trichlorophenol	ND	39.1	196	U
95-95-4	2,4,5-Trichlorophenol	ND	39.1	196	U
91-58-7	2-Chloronaphthalene	ND	39.1	196	U
88-74-4	2-Nitroaniline	ND	39.1	196	U
131-11-3	Dimethylphthalate	ND	39.1	196	U
208-96-8	Acenaphthylene	ND	39.1	196	U
99-09-2	3-Nitroaniline	ND UJ	39.1	196	U
83-32-9	Acenaphthene	ND	39.1	196	U
51-28-5	2,4-Dinitrophenol	ND UJ	39.1	391	U
100-02-7	4-Nitrophenol	ND	39.1	196	U
132-64-9	Dibenzofuran	ND	39.1	196	U
606-20-2	2,6-Dinitrotoluene	ND	39.1	196	U
121-14-2	2,4-Dinitrotoluene	ND	39.1	196	U
84-66-2	Diethyl phthalate	ND	39.1	196	U
7005-72-3	4-Chlorophenyl-phenylether	ND	39.1	196	U
86-73-7	Fluorene	ND	39.1	196	U
100-01-6	4-Nitroaniline	ND	39.1	196	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	39.1	196	U
86-30-6	N-Nitrosodiphenylamine	ND	39.1	196	U
101-55-3	4-Bromophenyl-phenylether	ND	39.1	196	U
118-74-1	Hexachlorobenzene	ND	39.1	196	U
87-86-5	Pentachlorophenol	ND	39.1	196	U
85-01-8	Phenanthrene	ND	39.1	196	U

MWP 10/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 06:18	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 3550B GCMS	File ID:	E10951.D
Prep Batch:	B6H0203	Sequence:	S6H0308	Analyzed:	08/03/16 18:08
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	39.1	196	U
84-74-2	Di-n-butyl phthalate	ND	39.1	196	U
206-44-0	Fluoranthene	ND	39.1	196	U
129-00-0	Pyrene	ND	39.1	196	U
85-68-7	Butylbenzylphthalate	ND	39.1	196	U
91-94-1	3,3'-Dichlorobenzidine	ND	97.5	196	U
56-55-3	Benzo[a]anthracene	ND	39.1	196	U
117-81-7	bis(2-ethylhexyl)phthalate	49.8	39.1	196	J
218-01-9	Chrysene	ND	39.1	196	U
117-84-0	Di-n-octyl phthalate	ND	39.1	196	U
205-99-2	Benzo[b]fluoranthene	ND	39.1	196	U
207-08-9	Benzo[k]fluoranthene	ND	39.1	196	U
50-32-8	Benzo[a]pyrene	ND	39.1	196	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	39.1	196	U
53-70-3	Dibenzo(a,h)anthracene	ND	39.1	196	U
191-24-2	Benzo[ghi]perylene	ND	39.1	196	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	58%	30-130
Phenol-d5	59%	30-130
Nitrobenzene-d5	83%	30-130
2-Fluorobiphenyl	79%	30-130
2,4,6-Tribromophenol	74%	30-130
Terphenyl-d14	87%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 06:14	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 3550B	File ID:	A22538.D
Prep Batch:	B6H0202	Sequence:	S6H0202	Analyzed:	08/02/16 19:01
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.776	0.776	U
319-85-7	beta-BHC	ND	0.776	0.776	U
319-86-8	delta-BHC	ND	0.776	0.776	U
58-89-9	gamma-BHC [Lindane]	ND	0.776	0.776	U
76-44-8	Heptachlor	ND	0.776	0.776	U
309-00-2	Aldrin	ND	0.776	0.776	U
1024-57-3	Heptachlor Epoxide	ND	0.776	0.776	U
959-98-8	Endosulfan I	ND	0.776	0.776	U
60-57-1	Dieldrin	ND	1.56	1.56	U
72-55-9	4,4'-DDE	ND	1.56	1.56	U
72-20-8	Endrin	ND	1.56	1.56	U
33213-65-9	Endosulfan II	ND	1.56	1.56	U
72-54-8	4,4'-DDD	ND	1.56	1.56	U
1031-07-8	Endosulfan sulfate	ND	1.56	1.56	U
50-29-3	4,4'-DDT	ND	1.56	1.56	U
72-43-5	Methoxychlor	ND	2.35	7.83	U
53494-70-5	Endrin ketone	ND	1.56	1.56	U
7421-93-4	Endrin aldehyde	ND	1.56	1.56	U
5103-71-9	alpha-Chlordane	ND	0.776	0.776	U
5566-34-7	gamma-Chlordane	ND	0.776	0.776	U
8001-35-2	Toxaphene	ND	39.1	39.1	U
12674-11-2	Aroclor-1016	ND	19.5	39.1	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 06:14	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 3550B	File ID:	A22538.D
Prep Batch:	B6H0202	Sequence:	S6H0202	Analyzed:	08/02/16 19:01
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.5	39.1	U
11141-16-5	Aroclor-1232	ND	19.5	39.1	U
53469-21-9	Aroclor-1242	ND	19.5	39.1	U
12672-29-6	Aroclor-1248	ND	19.5	39.1	U
11097-69-1	Aroclor-1254	ND	19.5	39.1	U
11096-82-5	Aroclor-1260	ND	19.5	39.1	U
37324-23-5	Aroclor-1262	ND	19.5	39.1	U
11100-14-4	Aroclor-1268	ND	19.5	39.1	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	87.5%	30-150
Tetrachloro-m-xylene [2C]	115%	30-150
Decachlorobiphenyl	110%	30-150
Decachlorobiphenyl [2C]	128%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Matrix:	Soil
Percent Solids:	85.10	File ID:	080216A-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	7880	15.7	15.7	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0881	0.0881	1	U	08/04/16 07:42	EPA 7471A	08/04/16 12:14 PRT	EPA 7471
7440-36-0	Antimony	ND	3.13	3.13	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-38-2	Arsenic	1.46	0.783	0.783	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-39-3	Barium	47.0	15.7	15.7	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.391	0.391	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.391	0.391	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-70-2	Calcium	5810	19.6	19.6	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-47-3	Chromium	15.3	1.57	1.57	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-48-4	Cobalt	6.79	3.91	3.91	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-50-8	Copper	16.9	2.35	2.35	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7439-89-6	Iron	12500	19.6	19.6	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7439-92-1	Lead	8.07	0.783	0.783	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7439-95-4	Magnesium	6980	39.1	39.1	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7439-96-5	Manganese	256	1.57	1.57	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-02-0	Nickel	13.3	3.13	3.13	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-09-7	Potassium	1800	39.1	39.1	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7782-49-2	Selenium	ND	3.13	3.13	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-22-4	Silver	ND	0.391	0.391	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-23-5	Sodium	130	39.1	39.1	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-28-0	Thallium	ND	1.17	2.35	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-62-2	Vanadium	25.1	3.91	3.91	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-66-6	Zinc	40.3	4.70	4.70	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Matrix:	Soil
Percent Solids:	85.10	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	15.3	1.33	1.33	1		08/05/16 09:06	[CALC]	08/08/16 15:35 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.35	2.35	1	U	08/05/16 09:06	SW 846 3060A	08/08/16 15:35 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.18	1.18	1	U	08/03/16 11:12	EPA 9010C	08/03/16 17:08 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	85.1	0.100	0.100	1		08/03/16 11:00	Percent Solids	08/04/16 13:16 RMK	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601448
Project: 255 East 138th Street

Matrix:	Solid	Laboratory ID:	B6H0217-BLK1	File ID:	A8875.D
Batch:	B6H0217	Prepared:	08/02/16 08:57	Analyzed:	08/02/16 08:57
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S6H0203	Instrument:	GC/MS A

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND	1.00	2.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	1.52	1.00	2.00	J
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601448
Project: 255 East 138th Street

Calibration:	16G2901	Instrument:	GC/MS A
		Calibration Date:	7/28/2016 11:00:56AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	3.940028E-02	3.96743		
Acrylonitrile	9.664191E-02	10.03424		
Acetone	0.2048483	39.69748		
Dichlorodifluoromethane	0.6149421	13.26661		
Chloromethane	0.7591113	7.325997	SPCC (0.1)	
Vinyl chloride	0.7362654	8.753645	CCC (20)	
Bromomethane	0.5626239	10.75447		
Chloroethane	0.2338689	6.217668		
Trichlorofluoromethane	0.8001752	10.82604		
Freon 113	0.5444944	4.681728		
1,1-Dichloroethene	0.777461	4.210771	CCC (20)	
Carbon disulfide	1.858694	9.074759		
Methyl Acetate	0.1922845	11.73523		
Methylene Chloride	1.3004	104.2599		
trans-1,2-Dichloroethene	0.764663	8.951139		
1,1-Dichloroethane	0.8798868	5.384	SPCC (0.1)	
Vinyl acetate	0.7730708	10.04256		
2,2-Dichloropropane	0.8674895	10.00306		
2-Butanone	0.1876336	6.12607		
cis-1,2-Dichloroethene	0.7020811	9.315722		
Chloroform	0.8983923	6.321035	CCC (20)	
Bromochloromethane	0.2926808	3.87027		
Cyclohexane	0.8792215	8.624052		
1,1,1-Trichloroethane	0.8270675	5.890328		
t-Butyl alcohol	2.239046E-02	9.948907		

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CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1601448		
Project:	255 East 138th Street		
Instrument ID:	GC/MS A	Calibration:	16G2901
Lab File ID:	A8873.D	Calibration Date:	07/28/16 11:00
Sequence:	S6H0203	Injection Date:	08/02/16
Lab Sample ID:	S6H0203-CCV1	Injection Time:	07:56

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	237	3.940028E-02	3.740806E-02		-5.1	
Acrylonitrile	A	250	250	9.664191E-02	9.665655E-02		0.02	
Acetone	L	50.0	53.5	0.2048483	0.1749495		-14.6	
Dichlorodifluoromethane	A	50.0	51.7	0.6149421	0.6360312		3.4	
Chloromethane	A	50.0	51.1	0.7591113	0.7757717	0.1	2.2	
Vinyl chloride	A	50.0	52.2	0.7362654	0.7686619		4.4	20
Bromomethane	A	50.0	46.1	0.5626239	0.5188619		-7.8	
Chloroethane	A	50.0	43.7	0.2338689	0.2045646		-12.5	
Trichlorofluoromethane	A	50.0	50.8	0.8001752	0.8128817		1.6	
Freon 113	A	50.0	44.9	0.5444944	0.4890326		-10.2	
1,1-Dichloroethene	A	50.0	46.1	0.777461	0.7172756		-7.7	20
Carbon disulfide	A	50.0	44.4	1.858694	1.651347		-11.2	
Methyl Acetate	A	50.0	48.2	0.1922845	0.1851878		-3.7	
Methylene Chloride	L	50.0	45.2	1.3004	0.6098004		-53.1	
trans-1,2-Dichloroethene	A	50.0	44.2	0.764663	0.6754736		-11.7	
1,1-Dichloroethane	A	50.0	49.1	0.8798868	0.8639389	0.1	-1.8	
Vinyl acetate	A	50.0	50.1	0.7730708	0.7749869		0.2	
2,2-Dichloropropane	A	50.0	46.6	0.8674895	0.8075662		-6.9	
2-Butanone	A	50.0	50.6	0.1876336	0.1898721		1.2	
cis-1,2-Dichloroethene	A	50.0	47.7	0.7020811	0.6694422		-4.6	
Chloroform	A	50.0	48.2	0.8983923	0.8661645		-3.6	20
Bromochloromethane	A	50.0	50.6	0.2926808	0.2958989		1.1	
Cyclohexane	A	50.0	47.8	0.8792215	0.8410953		-4.3	

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-23

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601448

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6H0203	Prep Method:	EPA 3550B GCMS
Percent Solids:	85.10	Laboratory ID:	B6H0203-MS1
		Client Sample ID:	1601448-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Pyridine	1960	ND	1020	52		20 - 160
N-Nitrosodimethylamine	1960	ND	1170	60		20 - 160
Aniline	1960	ND	891	46		20 - 160
Phenol	1960	ND	1110	57		20 - 160
bis(2-chloroethyl)ether	1960	ND	1100	56	*	70 - 130
2-Chlorophenol	1960	ND	1140	58	*	70 - 130
1,3-Dichlorobenzene	1960	ND	1240	63	*	70 - 130
1,4-Dichlorobenzene	1960	ND	1230	63	*	70 - 130
Benzyl alcohol	1960	ND	1160	59		20 - 160
1,2-Dichlorobenzene	1960	ND	1230	63	*	70 - 130
2-Methylphenol	1960	ND	1070	55		20 - 160
bis(2-chloroisopropyl)ether	1960	ND	1200	61	*	70 - 130
3 & 4-Methylphenol	1960	ND	1070	55		20 - 160
N-Nitroso-di-n-propylamine	1960	ND	1180	60	*	70 - 130
Hexachloroethane	1960	ND	1260	64		20 - 160
Nitrobenzene	1960	ND	1370	70		70 - 130
Isophorone	1960	ND	1320	67	*	70 - 130
2-Nitrophenol	1960	ND	1310	67	*	70 - 130
2,4-Dimethylphenol	1960	ND	1330	68	*	70 - 130
bis(2-chloroethoxy)methane	1960	ND	1260	64	*	70 - 130
2,4-Dichlorophenol	1960	ND	1270	65	*	70 - 130
1,2,4-Trichlorobenzene	1960	ND	1360	69	*	70 - 130
Naphthalene	1960	ND	1310	67	*	70 - 130
4-Chloroaniline	1960	ND	594	30		20 - 160
Hexachlorobutadiene	1960	ND	1450	74		70 - 130
4-Chloro-3-methylphenol	1960	ND	1320	68	*	70 - 130
2-Methylnaphthylene	1960	ND	1280	65	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-23

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601448

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6H0203	Prep Method:	EPA 3550B GCMS
Percent Solids:	85.10	Laboratory ID:	B6H0203-MS1
		Client Sample ID:	1601448-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Hexachlorocyclopentadiene	1960	ND	945	48		20 - 160
2,4,6-Trichlorophenol	1960	ND	1460	74		70 - 130
2,4,5-Trichlorophenol	1960	ND	1390	71		70 - 130
2-Chloronaphthalene	1960	ND	1460	75		70 - 130
2-Nitroaniline	1960	ND	1580	80		70 - 130
Dimethylphthalate	1960	ND	1520	77		70 - 130
Acenaphthylene	1960	ND	1500	77		70 - 130
3-Nitroaniline	1960	ND	1120	57	*	70 - 130
Acenaphthene	1960	ND	1530	78		70 - 130
2,4-Dinitrophenol	1960	ND	1230	63		20 - 160
4-Nitrophenol	1960	ND	1450	74		20 - 160
Dibenzofuran	1960	ND	1460	75		70 - 130
2,6-Dinitrotoluene	1960	ND	1530	78		70 - 130
2,4-Dinitrotoluene	1960	ND	1570	80		70 - 130
2,3,4,6-Tetrachlorophenol	1960	ND	1430	73		70 - 130
Diethyl phthalate	1960	ND	1480	76		70 - 130
4-Chlorophenyl-phenylether	1960	ND	1480	76		70 - 130
Fluorene	1960	ND	1450	74		70 - 130
4-Nitroaniline	1960	ND	1370	70		70 - 130
4,6-Dinitro-2-methylphenol	1960	ND	1640	84		70 - 130
Carbazole	1960	ND	1480	75		70 - 130
N-Nitrosodiphenylamine	1960	ND	1620	83		20 - 160
Azobenzene	1960	ND	1580	81		70 - 130
4-Bromophenyl-phenylether	1960	ND	1590	81		70 - 130
Hexachlorobenzene	1960	ND	1660	85		70 - 130
Pentachlorophenol	1960	ND	1110	57		20 - 160
Phenanthrene	1960	ND	1540	79		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-23

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601448

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6H0203	Prep Method:	EPA 3550B GCMS
Percent Solids:	85.10	Laboratory ID:	B6H0203-MS1
		Client Sample ID:	1601448-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Anthracene	1960	ND	1550	79	70 - 130
Di-n-butyl phthalate	1960	ND	1480	76	70 - 130
Fluoranthene	1960	ND	1460	75	70 - 130
Pyrene	1960	ND	1590	81	70 - 130
Butylbenzylphthalate	1960	ND	1520	78	70 - 130
Benzo[a]anthracene	1960	ND	1540	79	70 - 130
bis(2-ethylhexyl)phthalate	1960	49.8	1540	76	70 - 130
Chrysene	1960	ND	1490	76	70 - 130
Di-n-octyl phthalate	1960	ND	1590	81	70 - 130
Benzo[b]fluoranthene	1960	ND	1630	83	70 - 130
Benzo[k]fluoranthene	1960	ND	1550	79	70 - 130
Benzo[a]pyrene	1960	ND	1580	81	70 - 130
Indeno(1,2,3-cd)pyrene	1960	ND	1560	80	70 - 130
Dibenzo(a,h)anthracene	1960	ND	1540	78	70 - 130
Benzo[ghi]perylene	1960	ND	1530	78	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-23

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601448

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6H0203	Prep Method:	EPA 3550B GCMS
Percent Solids:	85.10	Laboratory ID:	B6H0203-MSD1
		Client Sample ID:	1601448-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Pyridine	1960	1150	59		12	30	20 - 160
N-Nitrosodimethylamine	1960	1320	67		12	30	20 - 160
Aniline	1960	1030	53		14	30	20 - 160
Phenol	1960	1240	63		11	30	20 - 160
bis(2-chloroethyl)ether	1960	1260	65	*	14	30	70 - 130
2-Chlorophenol	1960	1300	66	*	13	30	70 - 130
1,3-Dichlorobenzene	1960	1400	71		12	30	70 - 130
1,4-Dichlorobenzene	1960	1390	71		12	30	70 - 130
Benzyl alcohol	1960	1310	67		12	30	20 - 160
1,2-Dichlorobenzene	1960	1400	71		12	30	70 - 130
2-Methylphenol	1960	1180	60		10	30	20 - 160
bis(2-chloroisopropyl)ether	1960	1350	69	*	12	30	70 - 130
3 & 4-Methylphenol	1960	1180	60		10	30	20 - 160
N-Nitroso-di-n-propylamine	1960	1290	66	*	9	30	70 - 130
Hexachloroethane	1960	1440	73		13	30	20 - 160
Nitrobenzene	1960	1540	78		11	30	70 - 130
Isophorone	1960	1430	73		8	30	70 - 130
2-Nitrophenol	1960	1480	76		12	30	70 - 130
2,4-Dimethylphenol	1960	1460	74		9	30	70 - 130
bis(2-chloroethoxy)methane	1960	1410	72		11	30	70 - 130
2,4-Dichlorophenol	1960	1420	73		11	30	70 - 130
1,2,4-Trichlorobenzene	1960	1490	76		9	30	70 - 130
Naphthalene	1960	1480	75		12	30	70 - 130
4-Chloroaniline	1960	659	34		10	30	20 - 160
Hexachlorobutadiene	1960	1640	84		12	30	70 - 130
4-Chloro-3-methylphenol	1960	1380	70		4	30	70 - 130
2-Methylnaphthylene	1960	1410	72		10	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-23

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601448

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6H0203	Prep Method:	EPA 3550B GCMS
Percent Solids:	85.10	Laboratory ID:	B6H0203-MSD1
		Client Sample ID:	1601448-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Hexachlorocyclopentadiene	1960	1110	57	16	30	20 - 160
2,4,6-Trichlorophenol	1960	1520	78	4	30	70 - 130
2,4,5-Trichlorophenol	1960	1460	74	5	30	70 - 130
2-Chloronaphthalene	1960	1570	80	7	30	70 - 130
2-Nitroaniline	1960	1630	83	3	30	70 - 130
Dimethylphthalate	1960	1530	78	0.6	30	70 - 130
Acenaphthylene	1960	1600	82	7	30	70 - 130
3-Nitroaniline	1960	1130	58 *	0.8	30	70 - 130
Acenaphthene	1960	1610	82	5	30	70 - 130
2,4-Dinitrophenol	1960	1270	65	3	30	20 - 160
4-Nitrophenol	1960	1470	75	2	30	20 - 160
Dibenzofuran	1960	1530	78	4	30	70 - 130
2,6-Dinitrotoluene	1960	1560	80	2	30	70 - 130
2,4-Dinitrotoluene	1960	1570	80	0.2	30	70 - 130
2,3,4,6-Tetrachlorophenol	1960	1410	72	2	30	70 - 130
Diethyl phthalate	1960	1480	76	0.3	30	70 - 130
4-Chlorophenyl-phenylether	1960	1500	77	1	30	70 - 130
Fluorene	1960	1470	75	1	30	70 - 130
4-Nitroaniline	1960	1350	69 *	2	30	70 - 130
4,6-Dinitro-2-methylphenol	1960	1740	89	6	30	70 - 130
Carbazole	1960	1500	77	1	30	70 - 130
N-Nitrosodiphenylamine	1960	1630	83	1	30	20 - 160
Azobenzene	1960	1660	85	5	30	70 - 130
4-Bromophenyl-phenylether	1960	1640	84	3	30	70 - 130
Hexachlorobenzene	1960	1700	87	2	30	70 - 130
Pentachlorophenol	1960	1170	60	6	30	20 - 160
Phenanthrene	1960	1560	80	1	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-23

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601448

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6H0203	Prep Method:	EPA 3550B GCMS
Percent Solids:	85.10	Laboratory ID:	B6H0203-MSD1
		Client Sample ID:	1601448-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Anthracene	1960	1560	79	0.7	30	70 - 130
Di-n-butyl phthalate	1960	1490	76	0.4	30	70 - 130
Fluoranthene	1960	1470	75	0.5	30	70 - 130
Pyrene	1960	1610	82	1	30	70 - 130
Butylbenzylphthalate	1960	1550	79	2	30	70 - 130
Benzo[a]anthracene	1960	1560	80	1	30	70 - 130
bis(2-ethylhexyl)phthalate	1960	1580	78	2	30	70 - 130
Chrysene	1960	1530	78	3	30	70 - 130
Di-n-octyl phthalate	1960	1600	82	0.7	30	70 - 130
Benzo[b]fluoranthene	1960	1600	82	2	30	70 - 130
Benzo[k]fluoranthene	1960	1570	80	2	30	70 - 130
Benzo[a]pyrene	1960	1590	81	0.4	30	70 - 130
Indeno(1,2,3-cd)pyrene	1960	1580	81	2	30	70 - 130
Dibenzo(a,h)anthracene	1960	1550	79	0.7	30	70 - 130
Benzo[ghi]perylene	1960	1550	79	1	30	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601448

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6H0203	Lab Sample ID:	B6H0203-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2,4,6-Trichlorophenol	1670	1420	85	70 - 130
2,4,5-Trichlorophenol	1670	1390	84	70 - 130
2-Chloronaphthalene	1670	1480	89	70 - 130
2-Nitroaniline	1670	1560	94	70 - 130
Dimethylphthalate	1670	1460	87	70 - 130
Acenaphthylene	1670	1430	86	70 - 130
3-Nitroaniline	1670	950	57 *	70 - 130
Acenaphthene	1670	1490	90	70 - 130
2,4-Dinitrophenol	1670	1380	83	20 - 160
4-Nitrophenol	1670	1430	86	20 - 160
Dibenzofuran	1670	1460	88	70 - 130
2,6-Dinitrotoluene	1670	1500	90	70 - 130
2,4-Dinitrotoluene	1670	1500	90	70 - 130
2,3,4,6-Tetrachlorophenol	1670	1400	84	70 - 130
Diethyl phthalate	1670	1460	87	70 - 130
4-Chlorophenyl-phenylether	1670	1480	89	70 - 130
Fluorene	1670	1430	86	70 - 130
4-Nitroaniline	1670	1240	74	70 - 130
4,6-Dinitro-2-methylphenol	1670	1660	100	70 - 130
Carbazole	1670	1450	87	70 - 130
N-Nitrosodiphenylamine	1670	1550	93	20 - 160
Azobenzene	1670	1540	92	70 - 130
4-Bromophenyl-phenylether	1670	1580	95	70 - 130
Hexachlorobenzene	1670	1640	99	70 - 130
Pentachlorophenol	1670	1300	78	20 - 160
Phenanthrene	1670	1530	92	70 - 130
Anthracene	1670	1490	89	70 - 130
Di-n-butyl phthalate	1670	1450	87	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601448

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6H0203	Lab Sample ID:	B6H0203-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1000	60	20 - 160
N-Nitrosodimethylamine	1670	1190	71	20 - 160
Aniline	1670	761	46	20 - 160
Phenol	1670	1130	68	20 - 160
bis(2-chloroethyl)ether	1670	1180	71	70 - 130
2-Chlorophenol	1670	1180	71	70 - 130
1,3-Dichlorobenzene	1670	1260	76	70 - 130
1,4-Dichlorobenzene	1670	1250	75	70 - 130
Benzyl alcohol	1670	1200	72	20 - 160
1,2-Dichlorobenzene	1670	1240	75	70 - 130
2-Methylphenol	1670	1120	67	20 - 160
bis(2-chloroisopropyl)ether	1670	1250	75	70 - 130
3 & 4-Methylphenol	1670	1110	66	20 - 160
N-Nitroso-di-n-propylamine	1670	1210	72	70 - 130
Hexachloroethane	1670	1290	77	20 - 160
Nitrobenzene	1670	1410	85	70 - 130
Isophorone	1670	1340	81	70 - 130
2-Nitrophenol	1670	1340	80	70 - 130
2,4-Dimethylphenol	1670	1360	82	70 - 130
bis(2-chloroethoxy)methane	1670	1310	79	70 - 130
2,4-Dichlorophenol	1670	1310	79	70 - 130
1,2,4-Trichlorobenzene	1670	1400	84	70 - 130
Naphthalene	1670	1360	81	70 - 130
4-Chloroaniline	1670	394	24 *	70 - 130
Hexachlorobutadiene	1670	1510	90	70 - 130
4-Chloro-3-methylphenol	1670	1300	78	70 - 130
2-Methylnaphthylene	1670	1260	76	70 - 130
Hexachlorocyclopentadiene	1670	1070	64	20 - 160

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601448
Project: 255 East 138th Street

Calibration:	16G1402	Instrument:	GC/MS E
		Calibration Date:	6/6/2016 2:44:35PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	1.014413	7.446843		
4-Chloroaniline	0.5030556	3.466959		
Hexachlorobutadiene	0.1549383	2.975079	CCC (20)	
Caprolactam	0.2059759	4.024724		
4-Chloro-3-methylphenol	0.3148834	3.706397	CCC (20)	
2-Methylnaphthylene	0.7209771	8.193629		
1,2,4,5-Tetrachlorobenzene	0.4894636	6.658484		
Hexachlorocyclopentadiene	0.3043353	8.043457	SPCC (0.05)	
2,4,6-Trichlorophenol	0.3810716	2.654666	CCC (20)	
2,4,5-Trichlorophenol	0.3910356	4.219982		
2-Chloronaphthalene	1.117736	7.950694		
1,1-Biphenyl	1.303017	12.75237		
2-Nitroaniline	0.3230266	2.83713		
Dimethylphthalate	1.295766	8.404396		
Acenaphthylene	1.728125	9.846874		
3-Nitroaniline	0.429227	1.460559		
Acenaphthene	1.061398	6.631354	CCC (20)	
2,4-Dinitrophenol	0.1418895	43.47269	SPCC (0.05)	
4-Nitrophenol	0.1116238	3.556766	SPCC (0.05)	
Dibenzofuran	1.565428	9.233606		
2,6-Dinitrotoluene	0.3316834	2.19327		
2,4-Dinitrotoluene	0.4046039	2.990609		
2,3,4,6-Tetrachlorophenol	0.3201041	3.652533		
Diethyl phthalate	1.292764	9.050481		
4-Chlorophenyl-phenylether	0.5728172	9.142366		

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1601448		
Project:	255 East 138th Street		
Instrument ID:	GC/MS E	Calibration:	16G1402
Lab File ID:	E10945.D	Calibration Date:	06/06/16 14:44
Sequence:	S6H0308	Injection Date:	08/03/16
Lab Sample ID:	S6H0308-CCV1	Injection Time:	13:49

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.0	52.9	0.3153011	0.3337258		5.8	20
1,2,4-Trichlorobenzene	A	50.0	52.6	0.3242736	0.3413604		5.3	
Naphthalene	A	50.0	51.4	1.014413	1.043226		2.8	
4-Chloroaniline	A	50.0	48.2	0.5030556	0.4846333		-3.7	
Hexachlorobutadiene	A	50.0	55.4	0.1549383	0.1716007		10.8	20
Caprolactam	A	50.0	53.4	0.2059759	0.2200891		6.9	
4-Chloro-3-methylphenol	A	50.0	50.9	0.3148834	0.320676		1.8	20
2-Methylnaphthylene	A	50.0	48.6	0.7209771	0.7006159		-2.8	
1,2,4,5-Tetrachlorobenzene	A	50.0	58.5	0.4894636	0.5725625		17.0	
Hexachlorocyclopentadiene	A	50.0	42.3	0.3043353	0.2574149	0.05	-15.4	
2,4,6-Trichlorophenol	A	50.0	52.7	0.3810716	0.4018038		5.4	20
2,4,5-Trichlorophenol	A	50.0	51.2	0.3910356	0.4000262		2.3	
2-Chloronaphthalene	A	50.0	52.0	1.117736	1.162106		4.0	
1,1-Biphenyl	A	50.0	56.6	1.303017	1.47599		13.3	
2-Nitroaniline	A	50.0	57.4	0.3230266	0.3708835		14.8	
Dimethylphthalate	A	50.0	49.0	1.295766	1.268923		-2.1	
Acenaphthylene	A	50.0	52.3	1.728125	1.807368		4.6	
3-Nitroaniline	A	50.0	50.6	0.429227	0.4342052		1.2	
Acenaphthene	A	50.0	51.6	1.061398	1.096277		3.3	20
2,4-Dinitrophenol	L	50.0	58.9	0.1418895	0.2253754	0.05	58.8	
4-Nitrophenol	A	50.0	54.9	0.1116238	0.1226717	0.05	9.9	
Dibenzofuran	A	50.0	51.8	1.565428	1.622596		3.7	
2,6-Dinitrotoluene	A	50.0	51.1	0.3316834	0.3389988		2.2	

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1601618

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1601618

The data associated with this Sample Delivery Group (SDG) 1601618, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 10/27/16

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx, NY
SAMPLING DATE:	August 24, 2016
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1601618

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on August 24, 2016. This sample was analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1601618. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1601618, one sample was analyzed and results were reported for 191 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-24	Acetone	J detects	ICV RPD > 20 %	Sample detects are estimated
EP-24	Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-24	1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Nitrophenol 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 2-Methylnaphthalene 2,4,6-Trichlorophenol 4-Chlorophenylphenylether 3-Nitroaniline	"UJ"	LCS < 70 % QC limit	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-24	Lead Iron	J detects	Serial dilution > 10 %	Data is estimated

Table 6-6 Wet Chemistry

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 E. 138th Street

AAR Work Order: 1601618

Client Sample ID:	Lab Sample ID:
EP-24	1601618-01

This data has been reviewed and accepted by:

Daniel Miguel 09/27/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 E. 138th Street) on 08/24/2016 14:05.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B6H2515-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6H2601 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6H2601 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, the laboratory control sample (LCS) for Batch B6H2506 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike concentration. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th St.
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1905 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1631618
P.O. #	10BR198

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-24	8/24/16 1240	S	10-11	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYS DEC Category B Data Deliverables. Hard copy due 4 weeks from today, 8/24/16 COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES, EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8/24/16	Time: 1405	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-24
Lab Sample ID: 1601618-01
Project: 255 E. 138th Street
Work Order: 1601618

Date Sampled:	08/24/16 12:10	Prep Date:	08/25/16 17:17	Matrix:	Soil
Percent Solids:	82.40	Prep Method:	EPA 5035A	File ID:	A9225.D
Prep Batch:	B6H2515	Sequence:	S6H2507	Analyzed:	08/25/16 17:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.68	12.8	U
107-13-1	Acrylonitrile	ND	2.56	12.8	U
67-64-1	Acetone	36.7 J	1.28	2.56	
75-71-8	Dichlorodifluoromethane	ND	1.28	2.56	U
74-87-3	Chloromethane	ND	1.28	2.56	U
75-01-4	Vinyl chloride	ND	1.28	2.56	U
74-83-9	Bromomethane	ND	1.28	2.56	U
75-00-3	Chloroethane	ND	1.28	2.56	U
75-69-4	Trichlorofluoromethane	ND	1.28	2.56	U
75-35-4	1,1-Dichloroethene	ND	1.28	2.56	U
75-15-0	Carbon disulfide	ND	1.28	2.56	U
75-09-2	Methylene Chloride	ND UJ	1.28	2.56	U
156-60-5	trans-1,2-Dichloroethene	ND	1.28	2.56	U
75-34-3	1,1-Dichloroethane	ND	1.28	2.56	U
108-05-4	Vinyl acetate	ND	1.28	2.56	U
590-20-7	2,2-Dichloropropane	ND	1.28	2.56	U
78-93-3	2-Butanone	8.23	1.28	2.56	
156-59-4	cis-1,2-Dichloroethene	ND	1.28	2.56	U
67-66-3	Chloroform	ND	1.28	2.56	U
74-97-5	Bromochloromethane	ND	1.28	2.56	U
71-55-6	1,1,1-Trichloroethane	ND	1.28	2.56	U
563-58-6	1,1-Dichloropropene	ND	1.28	2.56	U
56-23-5	Carbon Tetrachloride	ND	1.28	2.56	U
107-06-2	1,2-Dichloroethane	ND	1.28	2.56	U
71-43-2	Benzene	ND	1.28	2.56	U

MKP 10/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-24
Lab Sample ID: 1601618-01
Project: 255 E. 138th Street
Work Order: 1601618

Date Sampled:	08/24/16 12:10	Prep Date:	08/25/16 17:17	Matrix:	Soil
Percent Solids:	82.40	Prep Method:	EPA 5035A	File ID:	A9225.D
Prep Batch:	B6H2515	Sequence:	S6H2507	Analyzed:	08/25/16 17:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.28	2.56	U
78-87-5	1,2-Dichloropropane	ND	1.28	2.56	U
75-27-4	Bromodichloromethane	ND	1.28	2.56	U
74-95-3	Dibromomethane	ND	1.28	2.56	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.28	2.56	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.28	2.56	U
108-88-3	Toluene	ND	1.28	2.56	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.28	2.56	U
79-00-5	1,1,2-Trichloroethane	ND	1.28	2.56	U
108-10-1	4-Methyl-2-pentanone	ND	1.28	2.56	U
106-93-4	1,2-Dibromoethane	ND	1.28	2.56	U
591-78-6	2-Hexanone	ND	1.28	2.56	U
142-28-9	1,3-Dichloropropane	ND	1.28	2.56	U
127-18-4	Tetrachloroethene	ND	1.28	2.56	U
124-48-1	Dibromochloromethane	ND	1.28	2.56	U
100-41-4	Ethylbenzene	ND	1.28	2.56	U
108-90-7	Chlorobenzene	ND	1.28	2.56	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.28	2.56	U
108-38-3/106-42	m,p-Xylenes	ND	2.56	5.12	U
95-47-6	o-Xylene	ND	2.56	5.12	U
100-42-5	Styrene	ND	1.28	5.12	U
75-25-2	Bromoform	ND	1.28	2.56	U
98-82-8	Isopropylbenzene	ND	1.28	2.56	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.28	2.56	U
96-18-4	1,2,3-Trichloropropane	ND	1.28	2.56	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-24
Lab Sample ID: 1601618-01
Project: 255 E. 138th Street
Work Order: 1601618

Date Sampled:	08/24/16 12:10	Prep Date:	08/25/16 17:17	Matrix:	Soil
Percent Solids:	82.40	Prep Method:	EPA 5035A	File ID:	A9225.D
Prep Batch:	B6H2515	Sequence:	S6H2507	Analyzed:	08/25/16 17:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	1.28	2.56	U
108-86-1	Bromobenzene	ND	1.28	2.56	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.28	2.56	U
95-49-8	2-Chlorotoluene	ND	1.28	2.56	U
106-43-4	4-Chlorotoluene	ND	1.28	2.56	U
98-06-6	tert-Butylbenzene	ND	1.28	2.56	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.28	2.56	U
135-98-8	sec-Butylbenzene	ND	1.28	2.56	U
99-87-6	p-Isopropyltoluene	ND	1.28	2.56	U
541-73-1	1,3-Dichlorobenzene	ND	1.28	2.56	U
106-46-7	1,4-Dichlorobenzene	ND	1.28	2.56	U
104-51-8	n-Butyl Benzene	ND	1.28	2.56	U
95-50-1	1,2-Dichlorobenzene	ND	1.28	2.56	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.28	2.56	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.28	2.56	U
87-68-3	Hexachlorobutadiene	ND	1.28	2.56	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.28	2.56	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	100%	70-130
Toluene-d8	106%	70-130
Bromofluorobenzene	91%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-24
Lab Sample ID: 1601618-01
Project: 255 E. 138th Street
Work Order: 1601618

Date Sampled:	08/24/16 12:10	Prep Date:	08/26/16 05:30	Matrix:	Soil
Percent Solids:	82.40	Prep Method:	EPA 3550B GCMS	File ID:	F14110.D
Prep Batch:	B6H2601	Sequence:	S6H2609	Analyzed:	08/26/16 19:07
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	40.4	203	U
108-95-2	Phenol	ND	40.4	203	U
111-44-4	bis(2-chloroethyl)ether	ND	40.4	203	U
95-57-8	2-Chlorophenol	ND	40.4	203	U
541-73-1	1,3-Dichlorobenzene	ND UJ	40.4	203	U
106-46-7	1,4-Dichlorobenzene	ND UJ	40.4	203	U
100-51-6	Benzyl alcohol	ND	40.4	203	U
95-50-1	1,2-Dichlorobenzene	ND UJ	40.4	203	U
95-48-7	2-Methylphenol	ND	40.4	203	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.4	203	U
106-44-5	3 & 4-Methylphenol	ND	40.4	203	U
621-64-7	N-Nitroso-di-n-propylamine	ND	40.4	203	U
67-72-1	Hexachloroethane	ND	40.4	203	U
98-95-3	Nitrobenzene	ND	40.4	203	U
78-59-1	Isophorone	ND	40.4	203	U
88-75-5	2-Nitrophenol	ND UJ	40.4	203	U
105-67-9	2,4-Dimethylphenol	ND	40.4	203	U
65-85-0	Benzoic acid	ND	101	404	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.4	203	U
120-83-2	2,4-Dichlorophenol	ND UJ	40.4	203	U
120-82-1	1,2,4-Trichlorobenzene	ND UJ	40.4	203	U
91-20-3	Naphthalene	ND UJ	40.4	203	U
106-47-8	4-Chloroaniline	ND UJ	40.4	203	U
87-68-3	Hexachlorobutadiene	ND UJ	40.4	203	U
59-50-7	4-Chloro-3-methylphenol	ND	40.4	203	U

 MKP 10/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-24
Lab Sample ID: 1601618-01
Project: 255 E. 138th Street
Work Order: 1601618

Date Sampled:	08/24/16 12:10	Prep Date:	08/26/16 05:30	Matrix:	Soil
Percent Solids:	82.40	Prep Method:	EPA 3550B GCMS	File ID:	F14110.D
Prep Batch:	B6H2601	Sequence:	S6H2609	Analyzed:	08/26/16 19:07
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND UJ	40.4	203	U
77-47-4	Hexachlorocyclopentadiene	ND	40.4	203	U
88-06-2	2,4,6-Trichlorophenol	ND UJ	40.4	203	U
95-95-4	2,4,5-Trichlorophenol	ND	40.4	203	U
91-58-7	2-Chloronaphthalene	ND	40.4	203	U
88-74-4	2-Nitroaniline	ND	40.4	203	U
131-11-3	Dimethylphthalate	ND	40.4	203	U
208-96-8	Acenaphthylene	ND	40.4	203	U
99-09-2	3-Nitroaniline	ND UJ	40.4	203	U
83-32-9	Acenaphthene	ND	40.4	203	U
51-28-5	2,4-Dinitrophenol	ND	40.4	404	U
100-02-7	4-Nitrophenol	ND	40.4	203	U
132-64-9	Dibenzofuran	ND	40.4	203	U
606-20-2	2,6-Dinitrotoluene	ND	40.4	203	U
121-14-2	2,4-Dinitrotoluene	ND	40.4	203	U
84-66-2	Diethyl phthalate	ND	40.4	203	U
7005-72-3	4-Chlorophenyl-phenylether	ND UJ	40.4	203	U
86-73-7	Fluorene	ND	40.4	203	U
100-01-6	4-Nitroaniline	ND	40.4	203	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.4	203	U
86-30-6	N-Nitrosodiphenylamine	ND	40.4	203	U
101-55-3	4-Bromophenyl-phenylether	ND	40.4	203	U
118-74-1	Hexachlorobenzene	ND	40.4	203	U
87-86-5	Pentachlorophenol	ND	40.4	203	U
85-01-8	Phenanthrene	ND	40.4	203	U

 MKP 10/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-24
Lab Sample ID: 1601618-01
Project: 255 E. 138th Street
Work Order: 1601618

Date Sampled:	08/24/16 12:10	Prep Date:	08/26/16 05:30	Matrix:	Soil
Percent Solids:	82.40	Prep Method:	EPA 3550B GCMS	File ID:	F14110.D
Prep Batch:	B6H2601	Sequence:	S6H2609	Analyzed:	08/26/16 19:07
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	40.4	203	U
84-74-2	Di-n-butyl phthalate	ND	40.4	203	U
206-44-0	Fluoranthene	ND	40.4	203	U
129-00-0	Pyrene	ND	40.4	203	U
85-68-7	Butylbenzylphthalate	ND	40.4	203	U
91-94-1	3,3'-Dichlorobenzidine	ND	101	203	U
56-55-3	Benzo[a]anthracene	ND	40.4	203	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	40.4	203	U
218-01-9	Chrysene	ND	40.4	203	U
117-84-0	Di-n-octyl phthalate	ND	40.4	203	U
205-99-2	Benzo[b]fluoranthene	ND	40.4	203	U
207-08-9	Benzo[k]fluoranthene	ND	40.4	203	U
50-32-8	Benzo[a]pyrene	ND	40.4	203	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	40.4	203	U
53-70-3	Dibenzo(a,h)anthracene	ND	40.4	203	U
191-24-2	Benzo[ghi]perylene	ND	40.4	203	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	70%	30-130
Phenol-d5	72%	30-130
Nitrobenzene-d5	72%	30-130
2-Fluorobiphenyl	65%	30-130
2,4,6-Tribromophenol	77%	30-130
Terphenyl-d14	85%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-24
Lab Sample ID: 1601618-01
Project: 255 E. 138th Street
Work Order: 1601618

Date Sampled:	08/24/16 12:10	Prep Date:	08/25/16 10:21	Matrix:	Soil
Percent Solids:	82.40	Prep Method:	EPA 3550B	File ID:	A22882.D
Prep Batch:	B6H2506	Sequence:	S6H2602	Analyzed:	08/26/16 21:22
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.801	0.801	U
319-85-7	beta-BHC	ND	0.801	0.801	U
319-86-8	delta-BHC	ND	0.801	0.801	U
58-89-9	gamma-BHC [Lindane]	ND	0.801	0.801	U
76-44-8	Heptachlor	ND	0.801	0.801	U
309-00-2	Aldrin	ND	0.801	0.801	U
1024-57-3	Heptachlor Epoxide	ND	0.801	0.801	U
959-98-8	Endosulfan I	ND	0.801	0.801	U
60-57-1	Dieldrin	ND	1.61	1.61	U
72-55-9	4,4'-DDE	ND	1.61	1.61	U
72-20-8	Endrin	ND	1.61	1.61	U
33213-65-9	Endosulfan II	ND	1.61	1.61	U
72-54-8	4,4'-DDD	ND	1.61	1.61	U
1031-07-8	Endosulfan sulfate	ND	1.61	1.61	U
50-29-3	4,4'-DDT	ND	1.61	1.61	U
72-43-5	Methoxychlor	ND	2.43	8.08	U
53494-70-5	Endrin ketone	ND	1.61	1.61	U
7421-93-4	Endrin aldehyde	ND	1.61	1.61	U
5103-71-9	alpha-Chlordane	ND	0.801	0.801	U
5566-34-7	gamma-Chlordane	ND	0.801	0.801	U
8001-35-2	Toxaphene	ND	40.4	40.4	U
12674-11-2	Aroclor-1016	ND	20.1	40.4	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-24
Lab Sample ID: 1601618-01
Project: 255 E. 138th Street
Work Order: 1601618

Date Sampled:	08/24/16 12:10	Prep Date:	08/25/16 10:21	Matrix:	Soil
Percent Solids:	82.40	Prep Method:	EPA 3550B	File ID:	A22882.D
Prep Batch:	B6H2506	Sequence:	S6H2602	Analyzed:	08/26/16 21:22
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.1	40.4	U
11141-16-5	Aroclor-1232	ND	20.1	40.4	U
53469-21-9	Aroclor-1242	ND	20.1	40.4	U
12672-29-6	Aroclor-1248	ND	20.1	40.4	U
11097-69-1	Aroclor-1254	ND	20.1	40.4	U
11096-82-5	Aroclor-1260	ND	20.1	40.4	U
37324-23-5	Aroclor-1262	ND	20.1	40.4	U
11100-14-4	Aroclor-1268	ND	20.1	40.4	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	55.3%	30-150
Tetrachloro-m-xylene [2C]	85.3%	30-150
Decachlorobiphenyl	72.9%	30-150
Decachlorobiphenyl [2C]	88.7%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-24
Lab Sample ID: 1601618-01
Project: 255 E. 138th Street
Work Order: 1601618

Date Sampled:	08/24/16 12:10	Matrix:	Soil
Percent Solids:	82.40	File ID:	082616E-027

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	12600	24.2	24.2	1		08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7439-97-6	Mercury	ND	0.0910	0.0910	1	U	08/26/16 07:17	EPA 7471A	08/26/16 13:58 PRT	EPA 7471
7440-36-0	Antimony	ND	4.84	4.84	1	U	08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7440-38-2	Arsenic	2.29	1.21	1.21	1		08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7440-39-3	Barium	64.0	24.2	24.2	1		08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7440-41-7	Beryllium	ND	0.605	0.605	1	U	08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7440-43-9	Cadmium	ND	0.605	0.605	1	U	08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7440-70-2	Calcium	1630	30.2	30.2	1		08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7440-47-3	Chromium	15.5	2.42	2.42	1		08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7440-48-4	Cobalt	6.61	6.05	6.05	1		08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7440-50-8	Copper	10.1	3.63	3.63	1		08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7439-89-6	Iron	14400 J	30.2	30.2	1		08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7439-92-1	Lead	12.9 J	1.21	1.21	1		08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7439-95-4	Magnesium	3030	60.5	60.5	1		08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7439-96-5	Manganese	418	2.42	2.42	1		08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7440-02-0	Nickel	12.4	4.84	4.84	1		08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7440-09-7	Potassium	690	60.5	60.5	1		08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7782-49-2	Selenium	ND	4.84	4.84	1	U	08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7440-22-4	Silver	ND	0.605	0.605	1	U	08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7440-23-5	Sodium	89.3	60.5	60.5	1		08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7440-28-0	Thallium	ND	1.81	3.63	1	U	08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7440-62-2	Vanadium	21.1	6.05	6.05	1		08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010
7440-66-6	Zinc	41.4	7.26	7.26	1		08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MKP 10/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-24
Lab Sample ID: 1601618-01
Project: 255 E. 138th Street
Work Order: 1601618

Date Sampled:	08/24/16 12:10	Matrix:	Soil
Percent Solids:	82.40	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	15.5	1.99	1.99	1		08/26/16 08:47	[CALC]	08/27/16 13:36 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.43	2.43	1	U	08/26/16 08:47	SW 846 3060A	08/27/16 13:36 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.21	1.21	1	U	08/29/16 11:48	EPA 9010C	08/29/16 17:06 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	82.4	0.100	0.100	1		08/26/16 09:30	Percent Solids	08/29/16 09:19 CLD	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601618
Project: 255 E. 138th Street

Calibration:	16G2901	Instrument:	GC/MS A
		Calibration Date:	7/28/2016 11:00:56AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	3.940028E-02	3.96743		
Acrylonitrile	9.664191E-02	10.03424		
Acetone	0.2048483	39.69748		
Dichlorodifluoromethane	0.6149421	13.26661		
Chloromethane	0.7591113	7.325997	SPCC (0.1)	
Vinyl chloride	0.7362654	8.753645	CCC (20)	
Bromomethane	0.5626239	10.75447		
Chloroethane	0.2338689	6.217668		
Trichlorofluoromethane	0.8001752	10.82604		
Freon 113	0.5444944	4.681728		
1,1-Dichloroethene	0.777461	4.210771	CCC (20)	
Carbon disulfide	1.858694	9.074759		
Methyl Acetate	0.1922845	11.73523		
Methylene Chloride	1.3004	104.2599		
trans-1,2-Dichloroethene	0.764663	8.951139		
1,1-Dichloroethane	0.8798868	5.384	SPCC (0.1)	
Vinyl acetate	0.7730708	10.04256		
2,2-Dichloropropane	0.8674895	10.00306		
2-Butanone	0.1876336	6.12607		
cis-1,2-Dichloroethene	0.7020811	9.315722		
Chloroform	0.8983923	6.321035	CCC (20)	
Bromochloromethane	0.2926808	3.87027		
Cyclohexane	0.8792215	8.624052		
1,1,1-Trichloroethane	0.8270675	5.890328		
t-Butyl alcohol	2.239046E-02	9.948907		

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CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1601618		
Project:	255 E. 138th Street		
Instrument ID:	GC/MS A	Calibration:	16G2901
Lab File ID:	A9216.D	Calibration Date:	07/28/16 11:00
Sequence:	S6H2507	Injection Date:	08/25/16
Lab Sample ID:	S6H2507-CCV1	Injection Time:	12:00

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	292	3.940028E-02	4.605724E-02		16.9	
Acrylonitrile	A	250	301	9.664191E-02	0.1163817		20.4	
Acetone	L	50.0	59.8	0.2048483	0.1945017		-5.1	
Dichlorodifluoromethane	A	50.0	42.5	0.6149421	0.5226777		-15.0	
Chloromethane	A	50.0	52.8	0.7591113	0.8008835	0.1	5.5	
Vinyl chloride	A	50.0	53.0	0.7362654	0.7800417		5.9	20
Bromomethane	A	50.0	50.2	0.5626239	0.5650133		0.4	
Chloroethane	A	50.0	59.2	0.2338689	0.2768479		18.4	
Trichlorofluoromethane	A	50.0	43.5	0.8001752	0.6958736		-13.0	
Freon 113	A	50.0	48.6	0.5444944	0.5288837		-2.9	
1,1-Dichloroethene	A	50.0	50.3	0.777461	0.7821468		0.6	20
Carbon disulfide	A	50.0	52.9	1.858694	1.965939		5.8	
Methyl Acetate	A	50.0	63.2	0.1922845	0.2430867		26.4	– NT
Methylene Chloride	L	50.0	62.0	1.3004	0.7927271		-39.0	
trans-1,2-Dichloroethene	A	50.0	52.7	0.764663	0.8058722		5.4	
1,1-Dichloroethane	A	50.0	52.8	0.8798868	0.9301238	0.1	5.7	
Vinyl acetate	A	50.0	56.6	0.7730708	0.8756154		13.3	
2,2-Dichloropropane	A	50.0	44.0	0.8674895	0.762611		-12.1	
2-Butanone	A	50.0	58.2	0.1876336	0.2182822		16.3	
cis-1,2-Dichloroethene	A	50.0	51.9	0.7020811	0.7289016		3.8	
Chloroform	A	50.0	48.8	0.8983923	0.8763474		-2.5	20
Bromochloromethane	A	50.0	54.4	0.2926808	0.3186664		8.9	
Cyclohexane	A	50.0	54.6	0.8792215	0.9597823		9.2	

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-24

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601618

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6H2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	82.40	Laboratory ID:	B6H2601-MS1
		Client Sample ID:	1601618-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Pyridine	2020	ND	1120	56		20 - 160
N-Nitrosodimethylamine	2020	ND	1340	66		20 - 160
Aniline	2020	ND	1280	63		20 - 160
Phenol	2020	ND	1400	69		20 - 160
bis(2-chloroethyl)ether	2020	ND	1360	67	*	70 - 130
2-Chlorophenol	2020	ND	1260	62	*	70 - 130
1,3-Dichlorobenzene	2020	ND	1150	57	*	70 - 130
1,4-Dichlorobenzene	2020	ND	1160	57	*	70 - 130
Benzyl alcohol	2020	ND	1330	66		20 - 160
1,2-Dichlorobenzene	2020	ND	1190	59	*	70 - 130
2-Methylphenol	2020	ND	1330	66		20 - 160
bis(2-chloroisopropyl)ether	2020	ND	1560	77		70 - 130
3 & 4-Methylphenol	2020	ND	1380	68		20 - 160
N-Nitroso-di-n-propylamine	2020	ND	1360	67	*	70 - 130
Hexachloroethane	2020	ND	1040	51		20 - 160
Nitrobenzene	2020	ND	1360	67	*	70 - 130
Isophorone	2020	ND	1440	71		70 - 130
2-Nitrophenol	2020	ND	1290	64	*	70 - 130
2,4-Dimethylphenol	2020	ND	1300	64	*	70 - 130
bis(2-chloroethoxy)methane	2020	ND	1390	69	*	70 - 130
2,4-Dichlorophenol	2020	ND	1280	63	*	70 - 130
1,2,4-Trichlorobenzene	2020	ND	1170	58	*	70 - 130
Naphthalene	2020	ND	1250	62	*	70 - 130
4-Chloroaniline	2020	ND	966	48		20 - 160
Hexachlorobutadiene	2020	ND	1050	52	*	70 - 130
4-Chloro-3-methylphenol	2020	ND	1430	71		70 - 130
2-Methylnaphthylene	2020	ND	1310	65	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-24

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601618

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6H2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	82.40	Laboratory ID:	B6H2601-MS1
		Client Sample ID:	1601618-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Hexachlorocyclopentadiene	2020	ND	622	31		20 - 160
2,4,6-Trichlorophenol	2020	ND	1340	66	*	70 - 130
2,4,5-Trichlorophenol	2020	ND	1390	69	*	70 - 130
2-Chloronaphthalene	2020	ND	1340	66	*	70 - 130
2-Nitroaniline	2020	ND	1650	81		70 - 130
Dimethylphthalate	2020	ND	1500	74		70 - 130
Acenaphthylene	2020	ND	1400	69	*	70 - 130
3-Nitroaniline	2020	ND	1390	68	*	70 - 130
Acenaphthene	2020	ND	1440	71		70 - 130
2,4-Dinitrophenol	2020	ND	1140	57		20 - 160
4-Nitrophenol	2020	ND	1380	68		20 - 160
Dibenzofuran	2020	ND	1400	69	*	70 - 130
2,6-Dinitrotoluene	2020	ND	1450	72		70 - 130
2,4-Dinitrotoluene	2020	ND	1500	74		70 - 130
2,3,4,6-Tetrachlorophenol	2020	ND	1370	68	*	70 - 130
Diethyl phthalate	2020	ND	1470	73		70 - 130
4-Chlorophenyl-phenylether	2020	ND	1350	67	*	70 - 130
Fluorene	2020	ND	1430	70		70 - 130
4-Nitroaniline	2020	ND	1660	82		70 - 130
4,6-Dinitro-2-methylphenol	2020	ND	1320	65	*	70 - 130
Carbazole	2020	ND	1570	77		70 - 130
N-Nitrosodiphenylamine	2020	ND	1460	72		20 - 160
Azobenzene	2020	ND	1800	89		70 - 130
4-Bromophenyl-phenylether	2020	ND	1390	68	*	70 - 130
Hexachlorobenzene	2020	ND	1390	69	*	70 - 130
Pentachlorophenol	2020	ND	1350	67		20 - 160
Phenanthrene	2020	ND	1470	73		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-24

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601618

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6H2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	82.40	Laboratory ID:	B6H2601-MS1
		Client Sample ID:	1601618-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Anthracene	2020	ND	1470	73	70 - 130
Di-n-butyl phthalate	2020	ND	1510	74	70 - 130
Fluoranthene	2020	ND	1490	74	70 - 130
Pyrene	2020	ND	1530	76	70 - 130
Butylbenzylphthalate	2020	ND	1550	77	70 - 130
Benzo[a]anthracene	2020	ND	1430	71	70 - 130
bis(2-ethylhexyl)phthalate	2020	ND	1560	77	70 - 130
Chrysene	2020	ND	1480	73	70 - 130
Di-n-octyl phthalate	2020	ND	1580	78	70 - 130
Benzo[b]fluoranthene	2020	ND	1420	70	70 - 130
Benzo[k]fluoranthene	2020	ND	1500	74	70 - 130
Benzo[a]pyrene	2020	ND	1500	74	70 - 130
Indeno(1,2,3-cd)pyrene	2020	ND	1440	71	70 - 130
Dibenzo(a,h)anthracene	2020	ND	1460	72	70 - 130
Benzo[ghi]perylene	2020	ND	1430	71	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-24

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601618

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6H2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	82.40	Laboratory ID:	B6H2601-MSD1
		Client Sample ID:	1601618-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Pyridine	2020	1300	64		14	30	20 - 160
N-Nitrosodimethylamine	2020	1600	79		18	30	20 - 160
Aniline	2020	1430	71		11	30	20 - 160
Phenol	2020	1640	81		16	30	20 - 160
bis(2-chloroethyl)ether	2020	1560	77		14	30	70 - 130
2-Chlorophenol	2020	1480	73		16	30	70 - 130
1,3-Dichlorobenzene	2020	1320	65	*	14	30	70 - 130
1,4-Dichlorobenzene	2020	1320	65	*	13	30	70 - 130
Benzyl alcohol	2020	1550	77		15	30	20 - 160
1,2-Dichlorobenzene	2020	1340	66	*	12	30	70 - 130
2-Methylphenol	2020	1570	78		16	30	20 - 160
bis(2-chloroisopropyl)ether	2020	1770	87		13	30	70 - 130
3 & 4-Methylphenol	2020	1600	79		15	30	20 - 160
N-Nitroso-di-n-propylamine	2020	1590	78		15	30	70 - 130
Hexachloroethane	2020	1030	51		0.8	30	20 - 160
Nitrobenzene	2020	1540	76		13	30	70 - 130
Isophorone	2020	1640	81		13	30	70 - 130
2-Nitrophenol	2020	1460	72		13	30	70 - 130
2,4-Dimethylphenol	2020	1520	75		15	30	70 - 130
bis(2-chloroethoxy)methane	2020	1620	80		15	30	70 - 130
2,4-Dichlorophenol	2020	1500	74		16	30	70 - 130
1,2,4-Trichlorobenzene	2020	1340	66	*	14	30	70 - 130
Naphthalene	2020	1410	70		12	30	70 - 130
4-Chloroaniline	2020	883	44		9	30	20 - 160
Hexachlorobutadiene	2020	1190	59	*	13	30	70 - 130
4-Chloro-3-methylphenol	2020	1610	80		12	30	70 - 130
2-Methylnaphthylene	2020	1470	73		12	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-24

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601618

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6H2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	82.40	Laboratory ID:	B6H2601-MSD1
		Client Sample ID:	1601618-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
Hexachlorocyclopentadiene	2020	454	22		31	*	30	20 - 160
2,4,6-Trichlorophenol	2020	1490	74		10		30	70 - 130
2,4,5-Trichlorophenol	2020	1570	78		13		30	70 - 130
2-Chloronaphthalene	2020	1500	74		12		30	70 - 130
2-Nitroaniline	2020	1780	88		8		30	70 - 130
Dimethylphthalate	2020	1680	83		11		30	70 - 130
Acenaphthylene	2020	1560	77		11		30	70 - 130
3-Nitroaniline	2020	1400	69	*	1		30	70 - 130
Acenaphthene	2020	1590	79		10		30	70 - 130
2,4-Dinitrophenol	2020	1320	65		14		30	20 - 160
4-Nitrophenol	2020	1500	74		8		30	20 - 160
Dibenzofuran	2020	1540	76		9		30	70 - 130
2,6-Dinitrotoluene	2020	1580	78		8		30	70 - 130
2,4-Dinitrotoluene	2020	1630	81		8		30	70 - 130
2,3,4,6-Tetrachlorophenol	2020	1490	73		8		30	70 - 130
Diethyl phthalate	2020	1590	78		7		30	70 - 130
4-Chlorophenyl-phenylether	2020	1500	74		10		30	70 - 130
Fluorene	2020	1570	78		10		30	70 - 130
4-Nitroaniline	2020	1740	86		5		30	70 - 130
4,6-Dinitro-2-methylphenol	2020	1500	74		13		30	70 - 130
Carbazole	2020	1720	85		10		30	70 - 130
N-Nitrosodiphenylamine	2020	1630	80		11		30	20 - 160
Azobenzene	2020	1970	98		9		30	70 - 130
4-Bromophenyl-phenylether	2020	1580	78		13		30	70 - 130
Hexachlorobenzene	2020	1560	77		11		30	70 - 130
Pentachlorophenol	2020	1510	75		11		30	20 - 160
Phenanthrene	2020	1610	80		9		30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-24

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601618

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6H2601	Prep Method:	EPA 3550B GCMS
Percent Solids:	82.40	Laboratory ID:	B6H2601-MSD1
		Client Sample ID:	1601618-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Anthracene	2020	1620	80	10	30	70 - 130
Di-n-butyl phthalate	2020	1660	82	10	30	70 - 130
Fluoranthene	2020	1620	80	8	30	70 - 130
Pyrene	2020	1670	83	9	30	70 - 130
Butylbenzylphthalate	2020	1680	83	8	30	70 - 130
Benzo[a]anthracene	2020	1570	78	9	30	70 - 130
bis(2-ethylhexyl)phthalate	2020	1690	83	8	30	70 - 130
Chrysene	2020	1610	80	9	30	70 - 130
Di-n-octyl phthalate	2020	1700	84	8	30	70 - 130
Benzo[b]fluoranthene	2020	1630	81	14	30	70 - 130
Benzo[k]fluoranthene	2020	1660	82	10	30	70 - 130
Benzo[a]pyrene	2020	1620	80	8	30	70 - 130
Indeno(1,2,3-cd)pyrene	2020	1570	78	9	30	70 - 130
Dibenzo(a,h)anthracene	2020	1610	80	10	30	70 - 130
Benzo[ghi]perylene	2020	1550	76	8	30	70 - 130

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LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601618

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6H2601	Lab Sample ID:	B6H2601-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1050	63	20 - 160
N-Nitrosodimethylamine	1670	1340	81	20 - 160
Aniline	1670	1190	72	20 - 160
Phenol	1670	1330	80	20 - 160
bis(2-chloroethyl)ether	1670	1270	76	70 - 130
2-Chlorophenol	1670	1210	73	70 - 130
1,3-Dichlorobenzene	1670	1060	63 *	70 - 130
1,4-Dichlorobenzene	1670	1060	63 *	70 - 130
Benzyl alcohol	1670	1260	76	20 - 160
1,2-Dichlorobenzene	1670	1080	65 *	70 - 130
2-Methylphenol	1670	1280	77	20 - 160
bis(2-chloroisopropyl)ether	1670	1470	88	70 - 130
3 & 4-Methylphenol	1670	1300	78	20 - 160
N-Nitroso-di-n-propylamine	1670	1290	77	70 - 130
Hexachloroethane	1670	1070	64	20 - 160
Nitrobenzene	1670	1210	73	70 - 130
Isophorone	1670	1290	77	70 - 130
2-Nitrophenol	1670	1130	68 *	70 - 130
2,4-Dimethylphenol	1670	1160	70	70 - 130
bis(2-chloroethoxy)methane	1670	1260	76	70 - 130
2,4-Dichlorophenol	1670	1160	69 *	70 - 130
1,2,4-Trichlorobenzene	1670	1060	63 *	70 - 130
Naphthalene	1670	1130	68 *	70 - 130
4-Chloroaniline	1670	734	44 *	70 - 130
Hexachlorobutadiene	1670	949	57 *	70 - 130
4-Chloro-3-methylphenol	1670	1230	74	70 - 130
2-Methylnaphthylene	1670	1140	68 *	70 - 130
Hexachlorocyclopentadiene	1670	907	54	20 - 160

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601618

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6H2601	Lab Sample ID:	B6H2601-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2,4,6-Trichlorophenol	1670	1130	68 *	70 - 130
2,4,5-Trichlorophenol	1670	1180	71	70 - 130
2-Chloronaphthalene	1670	1160	70	70 - 130
2-Nitroaniline	1670	1390	83	70 - 130
Dimethylphthalate	1670	1250	75	70 - 130
Acenaphthylene	1670	1200	72	70 - 130
3-Nitroaniline	1670	1110	67 *	70 - 130
Acenaphthene	1670	1220	73	70 - 130
2,4-Dinitrophenol	1670	1030	62	20 - 160
4-Nitrophenol	1670	1120	67	20 - 160
Dibenzofuran	1670	1190	71	70 - 130
2,6-Dinitrotoluene	1670	1230	74	70 - 130
2,4-Dinitrotoluene	1670	1280	77	70 - 130
2,3,4,6-Tetrachlorophenol	1670	1130	68 *	70 - 130
Diethyl phthalate	1670	1220	73	70 - 130
4-Chlorophenyl-phenylether	1670	1130	68 *	70 - 130
Fluorene	1670	1200	72	70 - 130
4-Nitroaniline	1670	1360	82	70 - 130
4,6-Dinitro-2-methylphenol	1670	1180	71	70 - 130
Carbazole	1670	1290	78	70 - 130
N-Nitrosodiphenylamine	1670	1230	74	20 - 160
Azobenzene	1670	1500	90	70 - 130
4-Bromophenyl-phenylether	1670	1190	72	70 - 130
Hexachlorobenzene	1670	1170	70	70 - 130
Pentachlorophenol	1670	1150	69	20 - 160
Phenanthrene	1670	1220	73	70 - 130
Anthracene	1670	1230	74	70 - 130
Di-n-butyl phthalate	1670	1280	77	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601618

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6H2601	Lab Sample ID:	B6H2601-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Fluoranthene	1670	1240	75	70 - 130
Pyrene	1670	1280	77	70 - 130
Butylbenzylphthalate	1670	1280	77	70 - 130
Benzo[a]anthracene	1670	1220	73	70 - 130
bis(2-ethylhexyl)phthalate	1670	1310	79	70 - 130
Chrysene	1670	1260	75	70 - 130
Di-n-octyl phthalate	1670	1270	76	70 - 130
Benzo[b]fluoranthene	1670	1220	73	70 - 130
Benzo[k]fluoranthene	1670	1290	77	70 - 130
Benzo[a]pyrene	1670	1260	75	70 - 130
Indeno(1,2,3-cd)pyrene	1670	1240	75	70 - 130
Dibenzo(a,h)anthracene	1670	1260	76	70 - 130
Benzo[ghi]perylene	1670	1240	75	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

SERIAL DILUTION

EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1601618
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 E. 138th Street
Matrix:	Solid	Laboratory ID:	S6H2606-SRD1
Sequence:	S6H2606	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Lead	17.8	19.7	10.1	*	10.00
Antimony	ND	ND	N/A		10.00
Arsenic	1.34	ND	N/A		10.00
Barium	48.6	ND	N/A		10.00
Beryllium	ND	ND	N/A		10.00
Cadmium	ND	ND	N/A		10.00
Calcium	2940	3140	6.67		10.00
Chromium	21.7	23.0	5.50		10.00
Cobalt	6.63	ND	N/A		10.00
Aluminum	9090	9510	4.58		10.00
Iron	16200	18000	10.6	*	10.00
Zinc	41.7	45.4	8.54		10.00
Magnesium	4000	4190	4.49		10.00
Manganese	231	250	7.55		10.00
Nickel	14.4	ND	N/A		10.00
Potassium	1330	1370	3.48		10.00
Selenium	ND	ND	N/A		10.00
Silver	ND	ND	N/A		10.00
Sodium	160	ND	N/A		10.00
Thallium	ND	ND	N/A		10.00
Vanadium	33.5	34.7	3.58		10.00
Copper	19.7	21.4	8.29		10.00

* Values outside of QC limits

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1601635

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1601635

The data associated with this Sample Delivery Group (SDG) 1601635, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 10/27/16

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx, NY
SAMPLING DATE:	August 24, 2016
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1601635

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on August 24, 2016. This sample was analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1601635. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg Sample Condition Holding Time System Monitoring Compounds Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers – Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Matrix Spikes Blanks Instrument Calibration & Verification Analyte ID Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Initial/Continuing Calibration CRDL Standards Blanks Interference Check Sample Spike Recoveries Lab Duplicate Lab Control Sample ICP Serial Dilutions Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Times Calibration Lab Control Samples Blanks Spike Recoveries Lab Duplicates	Completeness of Pkg Sample Condition Holding Time Canister Certification Lab Control Sample Instrument Tuning Blanks Initial Calibration & System Performance Daily Calibration Field Duplicate

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1601635, one sample was analyzed and results were reported for 191 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-25	Acetone	J detects	ICV RPD > 20 %	Sample detects are estimated
EP-25	Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-25	1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Nitrophenol 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 2-Methylnaphthalene 2,4,6-Trichlorophenol 4-Chlorophenylphenylether 3-Nitroaniline	"UJ"	LCS < 70 % QC limit	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-25	Lead Iron	J detects	Serial dilution > 10 %	Data is estimated

Table 6-6 Wet Chemistry

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601635

Client Sample ID:	Lab Sample ID:
EP-25	1601635-01

This data has been reviewed and accepted by:

Daniel Miguel 09/30/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 08/24/2016 14:05.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B6H2515-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6H2601 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6H2601 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, the labortory control sample (LCS) for Batch B6H2506 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	BrinKerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1631635
P.O. #	10BRI88

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	TCL Chrom	AAR SAMPLE #
EP-25	8/24/16 1040	S	NA	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverables. Hard Copy due 4 Weeks from today, 8/24/16. DO NOT RUN Until authorized COOLER TEMP: 4C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus by email SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: BrinKerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8/24/16 Time: 1405		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/25/16 17:48	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 5035A	File ID:	A9226.D
Prep Batch:	B6H2515	Sequence:	S6H2507	Analyzed:	08/25/16 17:48
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.77	9.62	U
107-13-1	Acrylonitrile	ND	1.92	9.62	U
67-64-1	Acetone	ND	0.962	1.92	U
75-71-8	Dichlorodifluoromethane	ND	0.962	1.92	U
74-87-3	Chloromethane	ND	0.962	1.92	U
75-01-4	Vinyl chloride	ND	0.962	1.92	U
74-83-9	Bromomethane	ND	0.962	1.92	U
75-00-3	Chloroethane	ND	0.962	1.92	U
75-69-4	Trichlorofluoromethane	ND	0.962	1.92	U
75-35-4	1,1-Dichloroethene	ND	0.962	1.92	U
75-15-0	Carbon disulfide	ND	0.962	1.92	U
75-09-2	Methylene Chloride	ND UJ	0.962	1.92	U
156-60-5	trans-1,2-Dichloroethene	ND	0.962	1.92	U
75-34-3	1,1-Dichloroethane	ND	0.962	1.92	U
108-05-4	Vinyl acetate	ND	0.962	1.92	U
590-20-7	2,2-Dichloropropane	ND	0.962	1.92	U
78-93-3	2-Butanone	ND	0.962	1.92	U
156-59-4	cis-1,2-Dichloroethene	ND	0.962	1.92	U
67-66-3	Chloroform	ND	0.962	1.92	U
74-97-5	Bromochloromethane	ND	0.962	1.92	U
71-55-6	1,1,1-Trichloroethane	ND	0.962	1.92	U
563-58-6	1,1-Dichloropropene	ND	0.962	1.92	U
56-23-5	Carbon Tetrachloride	ND	0.962	1.92	U
107-06-2	1,2-Dichloroethane	ND	0.962	1.92	U
71-43-2	Benzene	ND	0.962	1.92	U

MKP 10/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/25/16 17:48	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 5035A	File ID:	A9226.D
Prep Batch:	B6H2515	Sequence:	S6H2507	Analyzed:	08/25/16 17:48
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.962	1.92	U
78-87-5	1,2-Dichloropropane	ND	0.962	1.92	U
75-27-4	Bromodichloromethane	ND	0.962	1.92	U
74-95-3	Dibromomethane	ND	0.962	1.92	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.962	1.92	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.962	1.92	U
108-88-3	Toluene	ND	0.962	1.92	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.962	1.92	U
79-00-5	1,1,2-Trichloroethane	ND	0.962	1.92	U
108-10-1	4-Methyl-2-pentanone	ND	0.962	1.92	U
106-93-4	1,2-Dibromoethane	ND	0.962	1.92	U
591-78-6	2-Hexanone	ND	0.962	1.92	U
142-28-9	1,3-Dichloropropane	ND	0.962	1.92	U
127-18-4	Tetrachloroethene	ND	0.962	1.92	U
124-48-1	Dibromochloromethane	ND	0.962	1.92	U
100-41-4	Ethylbenzene	ND	0.962	1.92	U
108-90-7	Chlorobenzene	ND	0.962	1.92	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.962	1.92	U
108-38-3/106-42	m,p-Xylenes	ND	1.92	3.85	U
95-47-6	o-Xylene	ND	1.92	3.85	U
100-42-5	Styrene	ND	0.962	3.85	U
75-25-2	Bromoform	ND	0.962	1.92	U
98-82-8	Isopropylbenzene	ND	0.962	1.92	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.962	1.92	U
96-18-4	1,2,3-Trichloropropane	ND	0.962	1.92	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/25/16 17:48	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 5035A	File ID:	A9226.D
Prep Batch:	B6H2515	Sequence:	S6H2507	Analyzed:	08/25/16 17:48
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	0.962	1.92	U
108-86-1	Bromobenzene	ND	0.962	1.92	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.962	1.92	U
95-49-8	2-Chlorotoluene	ND	0.962	1.92	U
106-43-4	4-Chlorotoluene	ND	0.962	1.92	U
98-06-6	tert-Butylbenzene	ND	0.962	1.92	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.962	1.92	U
135-98-8	sec-Butylbenzene	ND	0.962	1.92	U
99-87-6	p-Isopropyltoluene	ND	0.962	1.92	U
541-73-1	1,3-Dichlorobenzene	ND	0.962	1.92	U
106-46-7	1,4-Dichlorobenzene	ND	0.962	1.92	U
104-51-8	n-Butyl Benzene	ND	0.962	1.92	U
95-50-1	1,2-Dichlorobenzene	ND	0.962	1.92	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.962	1.92	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.962	1.92	U
87-68-3	Hexachlorobutadiene	ND	0.962	1.92	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.962	1.92	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	104%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	86%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/26/16 05:30	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 3550B GCMS	File ID:	F14109.D
Prep Batch:	B6H2601	Sequence:	S6H2609	Analyzed:	08/26/16 18:21
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	36.5	183	U
108-95-2	Phenol	ND	36.5	183	U
111-44-4	bis(2-chloroethyl)ether	ND	36.5	183	U
95-57-8	2-Chlorophenol	ND	36.5	183	U
541-73-1	1,3-Dichlorobenzene	ND UJ	36.5	183	U
106-46-7	1,4-Dichlorobenzene	ND UJ	36.5	183	U
100-51-6	Benzyl alcohol	ND	36.5	183	U
95-50-1	1,2-Dichlorobenzene	ND UJ	36.5	183	U
95-48-7	2-Methylphenol	ND	36.5	183	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	36.5	183	U
106-44-5	3 & 4-Methylphenol	ND	36.5	183	U
621-64-7	N-Nitroso-di-n-propylamine	ND	36.5	183	U
67-72-1	Hexachloroethane	ND	36.5	183	U
98-95-3	Nitrobenzene	ND	36.5	183	U
78-59-1	Isophorone	ND	36.5	183	U
88-75-5	2-Nitrophenol	ND UJ	36.5	183	U
105-67-9	2,4-Dimethylphenol	ND	36.5	183	U
65-85-0	Benzoic acid	ND	91.0	365	U
111-91-1	bis(2-chloroethoxy)methane	ND	36.5	183	U
120-83-2	2,4-Dichlorophenol	ND UJ	36.5	183	U
120-82-1	1,2,4-Trichlorobenzene	ND UJ	36.5	183	U
91-20-3	Naphthalene	ND UJ	36.5	183	U
106-47-8	4-Chloroaniline	ND UJ	36.5	183	U
87-68-3	Hexachlorobutadiene	ND UJ	36.5	183	U
59-50-7	4-Chloro-3-methylphenol	ND	36.5	183	U

 MMP 11/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/26/16 05:30	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 3550B GCMS	File ID:	F14109.D
Prep Batch:	B6H2601	Sequence:	S6H2609	Analyzed:	08/26/16 18:21
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND UJ	36.5	183	U
77-47-4	Hexachlorocyclopentadiene	ND	36.5	183	U
88-06-2	2,4,6-Trichlorophenol	ND UJ	36.5	183	U
95-95-4	2,4,5-Trichlorophenol	ND	36.5	183	U
91-58-7	2-Chloronaphthalene	ND	36.5	183	U
88-74-4	2-Nitroaniline	ND	36.5	183	U
131-11-3	Dimethylphthalate	ND	36.5	183	U
208-96-8	Acenaphthylene	ND	36.5	183	U
99-09-2	3-Nitroaniline	ND UJ	36.5	183	U
83-32-9	Acenaphthene	ND	36.5	183	U
51-28-5	2,4-Dinitrophenol	ND	36.5	365	U
100-02-7	4-Nitrophenol	ND	36.5	183	U
132-64-9	Dibenzofuran	ND	36.5	183	U
606-20-2	2,6-Dinitrotoluene	ND	36.5	183	U
121-14-2	2,4-Dinitrotoluene	ND	36.5	183	U
84-66-2	Diethyl phthalate	ND	36.5	183	U
7005-72-3	4-Chlorophenyl-phenylether	ND UJ	36.5	183	U
86-73-7	Fluorene	ND	36.5	183	U
100-01-6	4-Nitroaniline	ND	36.5	183	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	36.5	183	U
86-30-6	N-Nitrosodiphenylamine	ND	36.5	183	U
101-55-3	4-Bromophenyl-phenylether	ND	36.5	183	U
118-74-1	Hexachlorobenzene	ND	36.5	183	U
87-86-5	Pentachlorophenol	ND	36.5	183	U
85-01-8	Phenanthrene	ND	36.5	183	U

 MWP 10/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/26/16 05:30	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 3550B GCMS	File ID:	F14109.D
Prep Batch:	B6H2601	Sequence:	S6H2609	Analyzed:	08/26/16 18:21
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	36.5	183	U
84-74-2	Di-n-butyl phthalate	ND	36.5	183	U
206-44-0	Fluoranthene	ND	36.5	183	U
129-00-0	Pyrene	ND	36.5	183	U
85-68-7	Butylbenzylphthalate	ND	36.5	183	U
91-94-1	3,3'-Dichlorobenzidine	ND	91.0	183	U
56-55-3	Benzo[a]anthracene	ND	36.5	183	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	36.5	183	U
218-01-9	Chrysene	ND	36.5	183	U
117-84-0	Di-n-octyl phthalate	ND	36.5	183	U
205-99-2	Benzo[b]fluoranthene	ND	36.5	183	U
207-08-9	Benzo[k]fluoranthene	ND	36.5	183	U
50-32-8	Benzo[a]pyrene	ND	36.5	183	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36.5	183	U
53-70-3	Dibenzo(a,h)anthracene	ND	36.5	183	U
191-24-2	Benzo[ghi]perylene	ND	36.5	183	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	72%	30-130
Phenol-d5	76%	30-130
Nitrobenzene-d5	75%	30-130
2-Fluorobiphenyl	69%	30-130
2,4,6-Tribromophenol	75%	30-130
Terphenyl-d14	91%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/25/16 15:16	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 3550B	File ID:	A22871.D
Prep Batch:	B6H2506	Sequence:	S6H2602	Analyzed:	08/26/16 16:00
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.724	0.724	U
319-85-7	beta-BHC	ND	0.724	0.724	U
319-86-8	delta-BHC	ND	0.724	0.724	U
58-89-9	gamma-BHC [Lindane]	ND	0.724	0.724	U
76-44-8	Heptachlor	ND	0.724	0.724	U
309-00-2	Aldrin	ND	0.724	0.724	U
1024-57-3	Heptachlor Epoxide	ND	0.724	0.724	U
959-98-8	Endosulfan I	ND	0.724	0.724	U
60-57-1	Dieldrin	ND	1.46	1.46	U
72-55-9	4,4'-DDE	ND	1.46	1.46	U
72-20-8	Endrin	ND	1.46	1.46	U
33213-65-9	Endosulfan II	ND	1.46	1.46	U
72-54-8	4,4'-DDD	ND	1.46	1.46	U
1031-07-8	Endosulfan sulfate	ND	1.46	1.46	U
50-29-3	4,4'-DDT	ND	1.46	1.46	U
72-43-5	Methoxychlor	ND	2.19	7.30	U
53494-70-5	Endrin ketone	ND	1.46	1.46	U
7421-93-4	Endrin aldehyde	ND	1.46	1.46	U
5103-71-9	alpha-Chlordane	ND	0.724	0.724	U
5566-34-7	gamma-Chlordane	ND	0.724	0.724	U
8001-35-2	Toxaphene	ND	36.5	36.5	U
12674-11-2	Aroclor-1016	ND	18.2	36.5	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/25/16 15:16	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 3550B	File ID:	A22871.D
Prep Batch:	B6H2506	Sequence:	S6H2602	Analyzed:	08/26/16 16:00
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	18.2	36.5	U
11141-16-5	Aroclor-1232	ND	18.2	36.5	U
53469-21-9	Aroclor-1242	ND	18.2	36.5	U
12672-29-6	Aroclor-1248	ND	18.2	36.5	U
11097-69-1	Aroclor-1254	ND	18.2	36.5	U
11096-82-5	Aroclor-1260	ND	18.2	36.5	U
37324-23-5	Aroclor-1262	ND	18.2	36.5	U
11100-14-4	Aroclor-1268	ND	18.2	36.5	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	65.9%	30-150
Tetrachloro-m-xylene [2C]	78.2%	30-150
Decachlorobiphenyl	90.7%	30-150
Decachlorobiphenyl [2C]	98.3%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Matrix:	Soil
Percent Solids:	91.20	File ID:	082616E-035

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	5240	21.8	21.8	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7439-97-6	Mercury	ND	0.0822	0.0822	1	U	08/26/16 07:17	EPA 7471A	08/26/16 14:09 PRT	EPA 7471
7440-36-0	Antimony	ND	4.36	4.36	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-38-2	Arsenic	5.48	1.09	1.09	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-39-3	Barium	37.7	21.8	21.8	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-41-7	Beryllium	ND	0.545	0.545	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-43-9	Cadmium	ND	0.545	0.545	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-70-2	Calcium	43000	27.2	27.2	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-47-3	Chromium	9.20	2.18	2.18	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-48-4	Cobalt	ND	5.45	5.45	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-50-8	Copper	16.2	3.27	3.27	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7439-89-6	Iron	7740 J	27.2	27.2	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7439-92-1	Lead	11.6 J	1.09	1.09	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7439-95-4	Magnesium	10700	54.5	54.5	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7439-96-5	Manganese	216	2.18	2.18	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-02-0	Nickel	7.17	4.36	4.36	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-09-7	Potassium	1500	54.5	54.5	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7782-49-2	Selenium	ND	4.36	4.36	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-22-4	Silver	ND	0.545	0.545	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-23-5	Sodium	147	54.5	54.5	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-28-0	Thallium	ND	1.63	3.27	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-62-2	Vanadium	17.1	5.45	5.45	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-66-6	Zinc	31.6	6.54	6.54	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

mxp 10/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Matrix:	Soil
Percent Solids:	91.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	9.20	1.99	1.99	1		08/26/16 08:47	[CALC]	08/27/16 13:36 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.19	2.19	1	U	08/26/16 08:47	SW 846 3060A	08/27/16 13:36 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.10	1.10	1	U	08/29/16 11:48	EPA 9010C	08/29/16 17:06 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	91.2	0.100	0.100	1		08/26/16 08:30	Percent Solids	08/29/16 09:23 RMK	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601635
Project: 255 East 138th Street

Calibration:	16G2901	Instrument:	GC/MS A
		Calibration Date:	7/28/2016 11:00:56AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	3.940028E-02	3.96743		
Acrylonitrile	9.664191E-02	10.03424		
Acetone	0.2048483	39.69748		
Dichlorodifluoromethane	0.6149421	13.26661		
Chloromethane	0.7591113	7.325997	SPCC (0.1)	
Vinyl chloride	0.7362654	8.753645	CCC (20)	
Bromomethane	0.5626239	10.75447		
Chloroethane	0.2338689	6.217668		
Trichlorofluoromethane	0.8001752	10.82604		
Freon 113	0.5444944	4.681728		
1,1-Dichloroethene	0.777461	4.210771	CCC (20)	
Carbon disulfide	1.858694	9.074759		
Methyl Acetate	0.1922845	11.73523		
Methylene Chloride	1.3004	104.2599		
trans-1,2-Dichloroethene	0.764663	8.951139		
1,1-Dichloroethane	0.8798868	5.384	SPCC (0.1)	
Vinyl acetate	0.7730708	10.04256		
2,2-Dichloropropane	0.8674895	10.00306		
2-Butanone	0.1876336	6.12607		
cis-1,2-Dichloroethene	0.7020811	9.315722		
Chloroform	0.8983923	6.321035	CCC (20)	
Bromochloromethane	0.2926808	3.87027		
Cyclohexane	0.8792215	8.624052		
1,1,1-Trichloroethane	0.8270675	5.890328		
t-Butyl alcohol	2.239046E-02	9.948907		

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1601635		
Project:	255 East 138th Street		
Instrument ID:	GC/MS A	Calibration:	16G2901
Lab File ID:	A9216.D	Calibration Date:	07/28/16 11:00
Sequence:	S6H2507	Injection Date:	08/25/16
Lab Sample ID:	S6H2507-CCV1	Injection Time:	12:00

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	292	3.940028E-02	4.605724E-02		16.9	
Acrylonitrile	A	250	301	9.664191E-02	0.1163817		20.4	
Acetone	L	50.0	59.8	0.2048483	0.1945017		-5.1	
Dichlorodifluoromethane	A	50.0	42.5	0.6149421	0.5226777		-15.0	
Chloromethane	A	50.0	52.8	0.7591113	0.8008835	0.1	5.5	
Vinyl chloride	A	50.0	53.0	0.7362654	0.7800417		5.9	20
Bromomethane	A	50.0	50.2	0.5626239	0.5650133		0.4	
Chloroethane	A	50.0	59.2	0.2338689	0.2768479		18.4	
Trichlorofluoromethane	A	50.0	43.5	0.8001752	0.6958736		-13.0	
Freon 113	A	50.0	48.6	0.5444944	0.5288837		-2.9	
1,1-Dichloroethene	A	50.0	50.3	0.777461	0.7821468		0.6	20
Carbon disulfide	A	50.0	52.9	1.858694	1.965939		5.8	
Methyl Acetate	A	50.0	63.2	0.1922845	0.2430867		26.4 -NT	
Methylene Chloride	L	50.0	62.0	1.3004	0.7927271		-39.0	
trans-1,2-Dichloroethene	A	50.0	52.7	0.764663	0.8058722		5.4	
1,1-Dichloroethane	A	50.0	52.8	0.8798868	0.9301238	0.1	5.7	
Vinyl acetate	A	50.0	56.6	0.7730708	0.8756154		13.3	
2,2-Dichloropropane	A	50.0	44.0	0.8674895	0.762611		-12.1	
2-Butanone	A	50.0	58.2	0.1876336	0.2182822		16.3	
cis-1,2-Dichloroethene	A	50.0	51.9	0.7020811	0.7289016		3.8	
Chloroform	A	50.0	48.8	0.8983923	0.8763474		-2.5	20
Bromochloromethane	A	50.0	54.4	0.2926808	0.3186664		8.9	
Cyclohexane	A	50.0	54.6	0.8792215	0.9597823		9.2	

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601635

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6H2601	Lab Sample ID:	B6H2601-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1050	63	20 - 160
N-Nitrosodimethylamine	1670	1340	81	20 - 160
Aniline	1670	1190	72	20 - 160
Phenol	1670	1330	80	20 - 160
bis(2-chloroethyl)ether	1670	1270	76	70 - 130
2-Chlorophenol	1670	1210	73	70 - 130
1,3-Dichlorobenzene	1670	1060	63 *	70 - 130
1,4-Dichlorobenzene	1670	1060	63 *	70 - 130
Benzyl alcohol	1670	1260	76	20 - 160
1,2-Dichlorobenzene	1670	1080	65 *	70 - 130
2-Methylphenol	1670	1280	77	20 - 160
bis(2-chloroisopropyl)ether	1670	1470	88	70 - 130
3 & 4-Methylphenol	1670	1300	78	20 - 160
N-Nitroso-di-n-propylamine	1670	1290	77	70 - 130
Hexachloroethane	1670	1070	64	20 - 160
Nitrobenzene	1670	1210	73	70 - 130
Isophorone	1670	1290	77	70 - 130
2-Nitrophenol	1670	1130	68 *	70 - 130
2,4-Dimethylphenol	1670	1160	70	70 - 130
bis(2-chloroethoxy)methane	1670	1260	76	70 - 130
2,4-Dichlorophenol	1670	1160	69 *	70 - 130
1,2,4-Trichlorobenzene	1670	1060	63 *	70 - 130
Naphthalene	1670	1130	68 *	70 - 130
4-Chloroaniline	1670	734	44 *	70 - 130
Hexachlorobutadiene	1670	949	57 *	70 - 130
4-Chloro-3-methylphenol	1670	1230	74	70 - 130
2-Methylnaphthylene	1670	1140	68 *	70 - 130
Hexachlorocyclopentadiene	1670	907	54	20 - 160

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601635

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6H2601	Lab Sample ID:	B6H2601-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2,4,6-Trichlorophenol	1670	1130	68 *	70 - 130
2,4,5-Trichlorophenol	1670	1180	71	70 - 130
2-Chloronaphthalene	1670	1160	70	70 - 130
2-Nitroaniline	1670	1390	83	70 - 130
Dimethylphthalate	1670	1250	75	70 - 130
Acenaphthylene	1670	1200	72	70 - 130
3-Nitroaniline	1670	1110	67 *	70 - 130
Acenaphthene	1670	1220	73	70 - 130
2,4-Dinitrophenol	1670	1030	62	20 - 160
4-Nitrophenol	1670	1120	67	20 - 160
Dibenzofuran	1670	1190	71	70 - 130
2,6-Dinitrotoluene	1670	1230	74	70 - 130
2,4-Dinitrotoluene	1670	1280	77	70 - 130
2,3,4,6-Tetrachlorophenol	1670	1130	68 *	70 - 130 NT
Diethyl phthalate	1670	1220	73	70 - 130
4-Chlorophenyl-phenylether	1670	1130	68 *	70 - 130
Fluorene	1670	1200	72	70 - 130
4-Nitroaniline	1670	1360	82	70 - 130
4,6-Dinitro-2-methylphenol	1670	1180	71	70 - 130
Carbazole	1670	1290	78	70 - 130
N-Nitrosodiphenylamine	1670	1230	74	20 - 160
Azobenzene	1670	1500	90	70 - 130
4-Bromophenyl-phenylether	1670	1190	72	70 - 130
Hexachlorobenzene	1670	1170	70	70 - 130
Pentachlorophenol	1670	1150	69	20 - 160
Phenanthrene	1670	1220	73	70 - 130
Anthracene	1670	1230	74	70 - 130
Di-n-butyl phthalate	1670	1280	77	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601635

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6H2601	Lab Sample ID:	B6H2601-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Fluoranthene	1670	1240	75	70 - 130
Pyrene	1670	1280	77	70 - 130
Butylbenzylphthalate	1670	1280	77	70 - 130
Benzo[a]anthracene	1670	1220	73	70 - 130
bis(2-ethylhexyl)phthalate	1670	1310	79	70 - 130
Chrysene	1670	1260	75	70 - 130
Di-n-octyl phthalate	1670	1270	76	70 - 130
Benzo[b]fluoranthene	1670	1220	73	70 - 130
Benzo[k]fluoranthene	1670	1290	77	70 - 130
Benzo[a]pyrene	1670	1260	75	70 - 130
Indeno(1,2,3-cd)pyrene	1670	1240	75	70 - 130
Dibenzo(a,h)anthracene	1670	1260	76	70 - 130
Benzo[ghi]perylene	1670	1240	75	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

SERIAL DILUTION

EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1601635
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Matrix:	Solid	Laboratory ID:	S6H2606-SRD1
Sequence:	S6H2606	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Lead	17.8	19.7	10.1	*	10.00
Antimony	ND	ND	N/A		10.00
Arsenic	1.34	ND	N/A		10.00
Barium	48.6	ND	N/A		10.00
Beryllium	ND	ND	N/A		10.00
Cadmium	ND	ND	N/A		10.00
Calcium	2940	3140	6.67		10.00
Chromium	21.7	23.0	5.50		10.00
Cobalt	6.63	ND	N/A		10.00
Aluminum	9090	9510	4.58		10.00
Iron	16200	18000	10.6	*	10.00
Zinc	41.7	45.4	8.54		10.00
Magnesium	4000	4190	4.49		10.00
Manganese	231	250	7.55		10.00
Nickel	14.4	ND	N/A		10.00
Potassium	1330	1370	3.48		10.00
Selenium	ND	ND	N/A		10.00
Silver	ND	ND	N/A		10.00
Sodium	160	ND	N/A		10.00
Thallium	ND	ND	N/A		10.00
Vanadium	33.5	34.7	3.58		10.00
Copper	19.7	21.4	8.29		10.00

* Values outside of QC limits

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1601673

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1601673

The data associated with this Sample Delivery Group (SDG) 1601673, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 10/20/16
Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx, NY
SAMPLING DATE:	August 31, 2016
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1601673

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on August 31, 2016. This sample was analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1601673. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1601673, one sample was analyzed and results were reported for 191 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-26	Acetone	J all data 10X MB value	Detected in the method blank	Data is estimated
EP-26	Acetone Methlyene Chloride	J detects	ICV RPD > 20 %	Sample detects are estimated
EP-26	Acetone Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-26	Surr.: 2,4,6-Tribromophenol	none	rec < 30 % QC limit	Other phenolic surr. within QC limits

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-26	a-Chordane	J detects	% D > 25 %	Form X missing – hand calculated

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-6 Wet Chemistry

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601673

Client Sample ID:	Lab Sample ID:
EP-26	1601673-01

This data has been reviewed and accepted by:

Daniel Miguel 10/04/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 08/31/2016 14:20.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B6I0210-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, B6I0103-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Pesticide analyses, B6I0601-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601673
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-26	8/31/16 0856	S	1-10	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER ____ (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverables. Hard Copy report due four (4) weeks from today

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muntz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muntz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8/31/16	Time: 1460	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-26
Lab Sample ID: 1601673-01
Project: 255 East 138th Street
Work Order: 1601673

Date Sampled:	08/31/16 08:56	Prep Date:	09/02/16 14:48	Matrix:	Soil
Percent Solids:	87.20	Prep Method:	EPA 5035A	File ID:	A9343.D
Prep Batch:	B6I0210	Sequence:	S6I0210	Analyzed:	09/02/16 14:48
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	6.80	11.3	U
107-13-1	Acrylonitrile	ND	2.27	11.3	U
67-64-1	Acetone	4.37 J	1.13	2.27	B
75-71-8	Dichlorodifluoromethane	ND	1.13	2.27	U
74-87-3	Chloromethane	ND	1.13	2.27	U
75-01-4	Vinyl chloride	ND	1.13	2.27	U
74-83-9	Bromomethane	ND	1.13	2.27	U
75-00-3	Chloroethane	ND	1.13	2.27	U
75-69-4	Trichlorofluoromethane	ND	1.13	2.27	U
75-35-4	1,1-Dichloroethene	ND	1.13	2.27	U
75-15-0	Carbon disulfide	ND	1.13	2.27	U
75-09-2	Methylene Chloride	ND	1.13	2.27	U
156-60-5	trans-1,2-Dichloroethene	ND	1.13	2.27	U
75-34-3	1,1-Dichloroethane	ND	1.13	2.27	U
108-05-4	Vinyl acetate	ND	1.13	2.27	U
590-20-7	2,2-Dichloropropane	ND	1.13	2.27	U
78-93-3	2-Butanone	ND	1.13	2.27	U
156-59-4	cis-1,2-Dichloroethene	ND	1.13	2.27	U
67-66-3	Chloroform	ND	1.13	2.27	U
74-97-5	Bromochloromethane	ND	1.13	2.27	U
71-55-6	1,1,1-Trichloroethane	ND	1.13	2.27	U
563-58-6	1,1-Dichloropropene	ND	1.13	2.27	U
56-23-5	Carbon Tetrachloride	ND	1.13	2.27	U
107-06-2	1,2-Dichloroethane	ND	1.13	2.27	U
71-43-2	Benzene	ND	1.13	2.27	U

MKP 10/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-26
Lab Sample ID: 1601673-01
Project: 255 East 138th Street
Work Order: 1601673

Date Sampled:	08/31/16 08:56	Prep Date:	09/02/16 14:48	Matrix:	Soil
Percent Solids:	87.20	Prep Method:	EPA 5035A	File ID:	A9343.D
Prep Batch:	B6I0210	Sequence:	S6I0210	Analyzed:	09/02/16 14:48
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.13	2.27	U
78-87-5	1,2-Dichloropropane	ND	1.13	2.27	U
75-27-4	Bromodichloromethane	ND	1.13	2.27	U
74-95-3	Dibromomethane	ND	1.13	2.27	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.13	2.27	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.13	2.27	U
108-88-3	Toluene	ND	1.13	2.27	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.13	2.27	U
79-00-5	1,1,2-Trichloroethane	ND	1.13	2.27	U
108-10-1	4-Methyl-2-pentanone	ND	1.13	2.27	U
106-93-4	1,2-Dibromoethane	ND	1.13	2.27	U
591-78-6	2-Hexanone	ND	1.13	2.27	U
142-28-9	1,3-Dichloropropane	ND	1.13	2.27	U
127-18-4	Tetrachloroethene	ND	1.13	2.27	U
124-48-1	Dibromochloromethane	ND	1.13	2.27	U
100-41-4	Ethylbenzene	ND	1.13	2.27	U
108-90-7	Chlorobenzene	ND	1.13	2.27	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.13	2.27	U
108-38-3/106-42	m,p-Xylenes	ND	2.27	4.53	U
95-47-6	o-Xylene	ND	2.27	4.53	U
100-42-5	Styrene	ND	1.13	4.53	U
75-25-2	Bromoform	ND	1.13	2.27	U
98-82-8	Isopropylbenzene	ND	1.13	2.27	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.13	2.27	U
96-18-4	1,2,3-Trichloropropane	ND	1.13	2.27	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

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Lab Sample ID: 1601673-01
Project: 255 East 138th Street
Work Order: 1601673

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Percent Solids:	87.20	Prep Method:	EPA 5035A	File ID:	A9343.D
Prep Batch:	B6I0210	Sequence:	S6I0210	Analyzed:	09/02/16 14:48
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	1.13	2.27	U
108-86-1	Bromobenzene	ND	1.13	2.27	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.13	2.27	U
95-49-8	2-Chlorotoluene	ND	1.13	2.27	U
106-43-4	4-Chlorotoluene	ND	1.13	2.27	U
98-06-6	tert-Butylbenzene	ND	1.13	2.27	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.13	2.27	U
135-98-8	sec-Butylbenzene	ND	1.13	2.27	U
99-87-6	p-Isopropyltoluene	ND	1.13	2.27	U
541-73-1	1,3-Dichlorobenzene	ND	1.13	2.27	U
106-46-7	1,4-Dichlorobenzene	ND	1.13	2.27	U
104-51-8	n-Butyl Benzene	ND	1.13	2.27	U
95-50-1	1,2-Dichlorobenzene	ND	1.13	2.27	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.13	2.27	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.13	2.27	U
87-68-3	Hexachlorobutadiene	ND	1.13	2.27	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.13	2.27	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	111%	70-130
Toluene-d8	98%	70-130
Bromofluorobenzene	86%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-26
Lab Sample ID: 1601673-01
Project: 255 East 138th Street
Work Order: 1601673

Date Sampled:	08/31/16 08:56	Prep Date:	09/01/16 07:24	Matrix:	Soil
Percent Solids:	87.20	Prep Method:	EPA 3550B GCMS	File ID:	F14143.D
Prep Batch:	B6I0103	Sequence:	S6I0112	Analyzed:	09/01/16 21:54
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.2	192	U
108-95-2	Phenol	ND	38.2	192	U
111-44-4	bis(2-chloroethyl)ether	ND	38.2	192	U
95-57-8	2-Chlorophenol	ND	38.2	192	U
541-73-1	1,3-Dichlorobenzene	ND	38.2	192	U
106-46-7	1,4-Dichlorobenzene	ND	38.2	192	U
100-51-6	Benzyl alcohol	ND	38.2	192	U
95-50-1	1,2-Dichlorobenzene	ND	38.2	192	U
95-48-7	2-Methylphenol	ND	38.2	192	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.2	192	U
106-44-5	3 & 4-Methylphenol	ND	38.2	192	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.2	192	U
67-72-1	Hexachloroethane	ND	38.2	192	U
98-95-3	Nitrobenzene	ND	38.2	192	U
78-59-1	Isophorone	ND	38.2	192	U
88-75-5	2-Nitrophenol	ND	38.2	192	U
105-67-9	2,4-Dimethylphenol	ND	38.2	192	U
65-85-0	Benzoic acid	ND	95.2	382	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.2	192	U
120-83-2	2,4-Dichlorophenol	ND	38.2	192	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.2	192	U
91-20-3	Naphthalene	ND	38.2	192	U
106-47-8	4-Chloroaniline	ND	38.2	192	U
87-68-3	Hexachlorobutadiene	ND	38.2	192	U
59-50-7	4-Chloro-3-methylphenol	ND	38.2	192	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-26
Lab Sample ID: 1601673-01
Project: 255 East 138th Street
Work Order: 1601673

Date Sampled:	08/31/16 08:56	Prep Date:	09/01/16 07:24	Matrix:	Soil
Percent Solids:	87.20	Prep Method:	EPA 3550B GCMS	File ID:	F14143.D
Prep Batch:	B6I0103	Sequence:	S6I0112	Analyzed:	09/01/16 21:54
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	38.2	192	U
77-47-4	Hexachlorocyclopentadiene	ND	38.2	192	U
88-06-2	2,4,6-Trichlorophenol	ND	38.2	192	U
95-95-4	2,4,5-Trichlorophenol	ND	38.2	192	U
91-58-7	2-Chloronaphthalene	ND	38.2	192	U
88-74-4	2-Nitroaniline	ND	38.2	192	U
131-11-3	Dimethylphthalate	ND	38.2	192	U
208-96-8	Acenaphthylene	ND	38.2	192	U
99-09-2	3-Nitroaniline	ND	38.2	192	U
83-32-9	Acenaphthene	ND	38.2	192	U
51-28-5	2,4-Dinitrophenol	ND	38.2	382	U
100-02-7	4-Nitrophenol	ND	38.2	192	U
132-64-9	Dibenzofuran	ND	38.2	192	U
606-20-2	2,6-Dinitrotoluene	ND	38.2	192	U
121-14-2	2,4-Dinitrotoluene	ND	38.2	192	U
84-66-2	Diethyl phthalate	ND	38.2	192	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.2	192	U
86-73-7	Fluorene	ND	38.2	192	U
100-01-6	4-Nitroaniline	ND	38.2	192	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.2	192	U
86-30-6	N-Nitrosodiphenylamine	ND	38.2	192	U
101-55-3	4-Bromophenyl-phenylether	ND	38.2	192	U
118-74-1	Hexachlorobenzene	ND	38.2	192	U
87-86-5	Pentachlorophenol	ND	38.2	192	U
85-01-8	Phenanthrene	361	38.2	192	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-26
Lab Sample ID: 1601673-01
Project: 255 East 138th Street
Work Order: 1601673

Date Sampled:	08/31/16 08:56	Prep Date:	09/01/16 07:24	Matrix:	Soil
Percent Solids:	87.20	Prep Method:	EPA 3550B GCMS	File ID:	F14143.D
Prep Batch:	B6I0103	Sequence:	S6I0112	Analyzed:	09/01/16 21:54
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	80.7	38.2	192	J
84-74-2	Di-n-butyl phthalate	ND	38.2	192	U
206-44-0	Fluoranthene	509	38.2	192	
129-00-0	Pyrene	565	38.2	192	
85-68-7	Butylbenzylphthalate	ND	38.2	192	U
91-94-1	3,3'-Dichlorobenzidine	ND	95.2	192	U
56-55-3	Benzo[a]anthracene	254	38.2	192	
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.2	192	U
218-01-9	Chrysene	265	38.2	192	
117-84-0	Di-n-octyl phthalate	ND	38.2	192	U
205-99-2	Benzo[b]fluoranthene	269	38.2	192	
207-08-9	Benzo[k]fluoranthene	133	38.2	192	J
50-32-8	Benzo[a]pyrene	237	38.2	192	
193-39-5	Indeno(1,2,3-cd)pyrene	86.8	38.2	192	J
53-70-3	Dibenzo(a,h)anthracene	ND	38.2	192	U
191-24-2	Benzo[ghi]perylene	95.6	38.2	192	J

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	61%		30-130
Phenol-d5	74%		30-130
Nitrobenzene-d5	80%		30-130
2-Fluorobiphenyl	74%		30-130
2,4,6-Tribromophenol	26%	*	30-130
Terphenyl-d14	88%		30-130

MKP 10/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-26
Lab Sample ID: 1601673-01
Project: 255 East 138th Street
Work Order: 1601673

Date Sampled:	08/31/16 08:56	Prep Date:	09/06/16 05:29	Matrix:	Soil
Percent Solids:	87.20	Prep Method:	EPA 3550B	File ID:	A22985.D
Prep Batch:	B6I0601	Sequence:	S6I0602	Analyzed:	09/06/16 15:02
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.757	0.757	U
319-85-7	beta-BHC	ND	0.757	0.757	U
319-86-8	delta-BHC	ND	0.757	0.757	U
58-89-9	gamma-BHC [Lindane]	ND	0.757	0.757	U
76-44-8	Heptachlor	ND	0.757	0.757	U
309-00-2	Aldrin	ND	0.757	0.757	U
1024-57-3	Heptachlor Epoxide	ND	0.757	0.757	U
959-98-8	Endosulfan I	ND	0.757	0.757	U
60-57-1	Dieldrin	ND	1.53	1.53	U
72-55-9	4,4'-DDE	ND	1.53	1.53	U
72-20-8	Endrin	ND	1.53	1.53	U
33213-65-9	Endosulfan II	ND	1.53	1.53	U
72-54-8	4,4'-DDD	ND	1.53	1.53	U
1031-07-8	Endosulfan sulfate	ND	1.53	1.53	U
50-29-3	4,4'-DDT	ND	1.53	1.53	U
72-43-5	Methoxychlor	ND	2.29	7.64	U
53494-70-5	Endrin ketone	ND	1.53	1.53	U
7421-93-4	Endrin aldehyde	ND	1.53	1.53	U
5103-71-9	alpha-Chlordane [2C]	0.917 J	0.757	0.757	
5566-34-7	gamma-Chlordane	ND	0.757	0.757	U
8001-35-2	Toxaphene	ND	38.2	38.2	U
12674-11-2	Aroclor-1016	ND	19.0	38.2	U

MKP 10/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-26
Lab Sample ID: 1601673-01
Project: 255 East 138th Street
Work Order: 1601673

Date Sampled:	08/31/16 08:56	Prep Date:	09/06/16 05:29	Matrix:	Soil
Percent Solids:	87.20	Prep Method:	EPA 3550B	File ID:	A22985.D
Prep Batch:	B6I0601	Sequence:	S6I0602	Analyzed:	09/06/16 15:02
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.0	38.2	U
11141-16-5	Aroclor-1232	ND	19.0	38.2	U
53469-21-9	Aroclor-1242	ND	19.0	38.2	U
12672-29-6	Aroclor-1248	ND	19.0	38.2	U
11097-69-1	Aroclor-1254	ND	19.0	38.2	U
11096-82-5	Aroclor-1260	ND	19.0	38.2	U
37324-23-5	Aroclor-1262	ND	19.0	38.2	U
11100-14-4	Aroclor-1268	ND	19.0	38.2	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	55.5%	30-150
Tetrachloro-m-xylene [2C]	61.9%	30-150
Decachlorobiphenyl	63.7%	30-150
Decachlorobiphenyl [2C]	83.8%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-26
Lab Sample ID: 1601673-01
Project: 255 East 138th Street
Work Order: 1601673

Date Sampled:	08/31/16 08:56	Matrix:	Soil
Percent Solids:	87.20	File ID:	090616C-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	8250	22.9	22.9	1		09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0860	0.0860	1	U	09/01/16 12:18	EPA 7471A	09/02/16 10:44 PRT	EPA 7471
7440-36-0	Antimony	ND	4.59	4.59	1	U	09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7440-38-2	Arsenic	2.62	1.15	1.15	1		09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7440-39-3	Barium	57.5	22.9	22.9	1		09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.573	0.573	1	U	09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.573	0.573	1	U	09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7440-70-2	Calcium	16300	28.7	28.7	1		09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7440-47-3	Chromium	15.8	2.29	2.29	1		09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7440-48-4	Cobalt	7.86	5.73	5.73	1		09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7440-50-8	Copper	32.7	3.44	3.44	1		09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7439-89-6	Iron	16800	28.7	28.7	1		09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7439-92-1	Lead	62.8	1.15	1.15	1		09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7439-95-4	Magnesium	7840	57.3	57.3	1		09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7439-96-5	Manganese	295	2.29	2.29	1		09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7440-02-0	Nickel	13.7	4.59	4.59	1		09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7440-09-7	Potassium	1560	57.3	57.3	1		09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7782-49-2	Selenium	ND	4.59	4.59	1	U	09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7440-22-4	Silver	ND	0.573	0.573	1	U	09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7440-23-5	Sodium	228	57.3	57.3	1		09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7440-28-0	Thallium	ND	1.72	3.44	1	U	09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7440-62-2	Vanadium	23.3	5.73	5.73	1		09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010
7440-66-6	Zinc	71.8	6.88	6.88	1		09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-26
Lab Sample ID: 1601673-01
Project: 255 East 138th Street
Work Order: 1601673

Date Sampled:	08/31/16 08:56	Matrix:	Soil
Percent Solids:	87.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	15.8	2.00	2.00	1		09/06/16 12:10	[CALC]	09/07/16 14:37 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.29	2.29	1	U	09/06/16 12:10	SW 846 3060A	09/07/16 14:37 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.15	1.15	1	U	08/31/16 15:24	EPA 9010C	09/07/16 10:28 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	87.2	0.100	0.100	1		09/01/16 13:50	Percent Solids	09/02/16 10:53 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601673
Project: 255 East 138th Street

Instrument ID:	GC/MS A	Calibration:	16H2903
Lab File ID:	A9334.D	Calibration Date:	08/29/16 19:56
Sequence:	S6I0210	Injection Date:	09/02/16
Lab Sample ID:	S6I0210-CCV1	Injection Time:	09:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	215	5.094183E-02	4.378305E-02		-14.1	
Acrylonitrile	A	250	232	0.1167273	0.1081347		-7.4	
Acetone	L	50.0	50.0	0.1747694	0.1328501		-24.0	
Dichlorodifluoromethane	A	50.0	59.1	0.3620657	0.4282228		18.3	
Chloromethane	A	50.0	55.0	0.6446193	0.7091769	0.1	10.0	
Vinyl chloride	A	50.0	55.4	0.6338856	0.70297		10.9	20
Bromomethane	A	50.0	52.8	0.4973511	0.524804		5.5	
Chloroethane	A	50.0	52.4	0.2364184	0.2479082		4.9	
Trichlorofluoromethane	A	50.0	51.3	0.6040865	0.6195149		2.6	
Freon 113	A	50.0	45.7	0.5460094	0.4986015		-8.7	
1,1-Dichloroethene	A	50.0	45.4	0.8821578	0.8017064		-9.1	20
Carbon disulfide	A	50.0	42.6	2.237789	1.908621		-14.7	
Methyl Acetate	A	50.0	41.0	0.2835279	0.2324766		-18.0	
Methylene Chloride	L	50.0	43.1	1.877848	0.8573305		-54.3	
trans-1,2-Dichloroethene	A	50.0	47.2	0.8991449	0.8479411		-5.7	
1,1-Dichloroethane	A	50.0	48.8	1.058622	1.033164	0.1	-2.4	
Vinyl acetate	A	50.0	47.6	0.9809122	0.9330979		-4.9	
2,2-Dichloropropane	A	50.0	50.4	0.8359179	0.8433836		0.9	
2-Butanone	A	50.0	48.9	0.1839178	0.1799396		-2.2	
cis-1,2-Dichloroethene	A	50.0	49.3	0.8114303	0.799393		-1.5	
Chloroform	A	50.0	47.6	1.02525	0.9759109		-4.8	20
Bromochloromethane	A	50.0	48.2	0.3642218	0.3513432		-3.5	
Cyclohexane	A	50.0	46.9	0.9915085	0.9296174		-6.2	

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601673
Project: 255 East 138th Street

Calibration:	16H2903	Instrument:	GC/MS A
		Calibration Date:	8/29/2016 7:56:55PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	5.094183E-02	5.902873		
Acrylonitrile	0.1167273	3.778378		
Acetone	0.1747694	41.54276		
Dichlorodifluoromethane	0.3620657	13.06906		
Chloromethane	0.6446193	7.262679	SPCC (0.1)	
Vinyl chloride	0.6338856	7.791452	CCC (20)	
Bromomethane	0.4973511	6.110204		
Chloroethane	0.2364184	7.428701		
Trichlorofluoromethane	0.6040865	8.703495		
Freon 113	0.5460094	4.513852		
1,1-Dichloroethene	0.8821578	4.055756	CCC (20)	
Carbon disulfide	2.237789	5.996131		
Methyl Acetate	0.2835279	13.47158		
Methylene Chloride	1.877848	96.62287		
trans-1,2-Dichloroethene	0.8991449	6.440984		
1,1-Dichloroethane	1.058622	6.387356	SPCC (0.1)	
Vinyl acetate	0.9809122	4.721133		
2,2-Dichloropropane	0.8359179	3.248966		
2-Butanone	0.1839178	13.22088		
cis-1,2-Dichloroethene	0.8114303	6.048788		
Chloroform	1.02525	3.40079	CCC (20)	
Bromochloromethane	0.3642218	7.373368		
Cyclohexane	0.9915085	4.912063		
1,1,1-Trichloroethane	0.8164359	3.315326		
t-Butyl alcohol	2.729559E-02	4.03008		

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601673
Project: 255 East 138th Street

Matrix:	Solid	Laboratory ID:	B6I0210-BLK1	File ID:	A9336.D
Batch:	B6I0210	Prepared:	09/02/16 10:55	Analyzed:	09/02/16 10:55
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S6I0210	Instrument:	GC/MS A

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	2.26	1.00	2.00	
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	ND	1.00	2.00	U
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

SYSTEM MONITORING COMPOUND SUMMARY

EPA 8270

Client:	**BRINKERHOFF ENVIRONMENTAL**		
Project:	**255 East 138th Street**	Matrix:	Solid
Work Order:	**1601673**	Instrument:	GC/MS F

Lab Sample ID:	2FP (30% - 130%)	FBP (30% - 130%)	NBZ (30% - 130%)	PHL (30% - 130%)	TBP (30% - 130%)	TPH (30% - 130%)
1601673-01	61	74	80	74	26*	88
B6I0103-BLK1	88	81	91	87	82	104
B6I0103-BS1	103	86	98	103	90	94
B6I0103-MS1	77	78	82	80	89	101
B6I0103-MSD1	77	73	78	77	86	97

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1601701

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1601701

The data associated with this Sample Delivery Group (SDG) 1601701, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 10/27/16

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx, NY
SAMPLING DATE:	September 6, 2016
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1601701

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on September 6, 2016. This sample was analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1601701. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1601701, one sample was analyzed and results were reported for 191 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-27	Acetone Methlyene Chloride	J detects	ICV RPD > 20 %	Sample detects are estimated
EP-27	Acetone Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-27	Bis(2-ethylhexyl)phthalate	J all data 10X MB value	Detected in the method blank	Sample was non-detect
EP-27	4-Chloroaniline Hexachlorobutadiene 3-Nitroaniline	"UJ"	LCS < 70 % QC limit	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-6 Wet Chemistry

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601701

Client Sample ID:	Lab Sample ID:
EP-27	1601701-01

This data has been reviewed and accepted by:

Daniel Miguel 10/12/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 09/07/2016 14:15.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B6I0815-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6I0901 recovered outside control limits for multiple analytes. These analytes were recovered within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6I0901 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B6I0902-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE): NJ NY PA

PROJECT NAME: 255 East 138th Street
CONTACT: Sean Harrison
OFFICE PHONE #: (732) 223-2225
OFFICE FAX #: (732) 223-3666
INITIAL RESULTS TO: Sharrison@brinkenv.com
EMAIL FOR INVOICE: Sharrison@brinkenv.com

CLIENT NAME: Brinkerhoff Environmental
ADDRESS: 1105 Atlantic Ave
CITY: Manasquan
STATE: New Jersey
ZIP: 07756

AAR QUOTE #:
AAR WORK ORDER #: 1601701
P.O. #: 10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex chrom	Tri chrom	AAR SAMPLE #
EP-27	9/6/16 1247	S	16'	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ~~36 hr~~ JK 9/7/16
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYS DEC Catagory B Data Deliverables, Hard Copy report due 4 weeks from today.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: B. O'Grady	Print Name:	Print Name:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 9 / 7 / 16 Time: 14:15		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/08/16 15:03	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 5035A	File ID:	A9386.D
Prep Batch:	B6I0815	Sequence:	S6I0807	Analyzed:	09/08/16 15:03
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	8.42	14.0	U
107-13-1	Acrylonitrile	ND	2.81	14.0	U
67-64-1	Acetone	8.27 J	1.40	2.81	
75-71-8	Dichlorodifluoromethane	ND	1.40	2.81	U
74-87-3	Chloromethane	ND	1.40	2.81	U
75-01-4	Vinyl chloride	ND	1.40	2.81	U
74-83-9	Bromomethane	ND	1.40	2.81	U
75-00-3	Chloroethane	ND	1.40	2.81	U
75-69-4	Trichlorofluoromethane	ND UJ	1.40	2.81	U
75-35-4	1,1-Dichloroethene	ND	1.40	2.81	U
75-15-0	Carbon disulfide	ND	1.40	2.81	U
75-09-2	Methylene Chloride	ND UJ	1.40	2.81	U
156-60-5	trans-1,2-Dichloroethene	ND	1.40	2.81	U
75-34-3	1,1-Dichloroethane	ND	1.40	2.81	U
108-05-4	Vinyl acetate	ND	1.40	2.81	U
590-20-7	2,2-Dichloropropane	ND	1.40	2.81	U
78-93-3	2-Butanone	ND	1.40	2.81	U
156-59-4	cis-1,2-Dichloroethene	ND	1.40	2.81	U
67-66-3	Chloroform	ND	1.40	2.81	U
74-97-5	Bromochloromethane	ND	1.40	2.81	U
71-55-6	1,1,1-Trichloroethane	ND	1.40	2.81	U
563-58-6	1,1-Dichloropropene	ND	1.40	2.81	U
56-23-5	Carbon Tetrachloride	ND	1.40	2.81	U
107-06-2	1,2-Dichloroethane	ND	1.40	2.81	U
71-43-2	Benzene	ND	1.40	2.81	U

VMXP 10/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/08/16 15:03	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 5035A	File ID:	A9386.D
Prep Batch:	B6I0815	Sequence:	S6I0807	Analyzed:	09/08/16 15:03
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.40	2.81	U
78-87-5	1,2-Dichloropropane	ND	1.40	2.81	U
75-27-4	Bromodichloromethane	ND	1.40	2.81	U
74-95-3	Dibromomethane	ND	1.40	2.81	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.40	2.81	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.40	2.81	U
108-88-3	Toluene	ND	1.40	2.81	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.40	2.81	U
79-00-5	1,1,2-Trichloroethane	ND	1.40	2.81	U
108-10-1	4-Methyl-2-pentanone	ND	1.40	2.81	U
106-93-4	1,2-Dibromoethane	ND	1.40	2.81	U
591-78-6	2-Hexanone	ND	1.40	2.81	U
142-28-9	1,3-Dichloropropane	ND	1.40	2.81	U
127-18-4	Tetrachloroethene	ND	1.40	2.81	U
124-48-1	Dibromochloromethane	ND	1.40	2.81	U
100-41-4	Ethylbenzene	ND	1.40	2.81	U
108-90-7	Chlorobenzene	ND	1.40	2.81	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.40	2.81	U
108-38-3/106-42	m,p-Xylenes	ND	2.81	5.61	U
95-47-6	o-Xylene	ND	2.81	5.61	U
100-42-5	Styrene	ND	1.40	5.61	U
75-25-2	Bromoform	ND	1.40	2.81	U
98-82-8	Isopropylbenzene	ND	1.40	2.81	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.40	2.81	U
96-18-4	1,2,3-Trichloropropane	ND	1.40	2.81	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/08/16 15:03	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 5035A	File ID:	A9386.D
Prep Batch:	B6I0815	Sequence:	S6I0807	Analyzed:	09/08/16 15:03
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	1.40	2.81	U
108-86-1	Bromobenzene	ND	1.40	2.81	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.40	2.81	U
95-49-8	2-Chlorotoluene	ND	1.40	2.81	U
106-43-4	4-Chlorotoluene	ND	1.40	2.81	U
98-06-6	tert-Butylbenzene	ND	1.40	2.81	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.40	2.81	U
135-98-8	sec-Butylbenzene	ND	1.40	2.81	U
99-87-6	p-Isopropyltoluene	ND	1.40	2.81	U
541-73-1	1,3-Dichlorobenzene	ND	1.40	2.81	U
106-46-7	1,4-Dichlorobenzene	ND	1.40	2.81	U
104-51-8	n-Butyl Benzene	ND	1.40	2.81	U
95-50-1	1,2-Dichlorobenzene	ND	1.40	2.81	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.40	2.81	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.40	2.81	U
87-68-3	Hexachlorobutadiene	ND	1.40	2.81	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.40	2.81	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	109%	70-130
Toluene-d8	95%	70-130
Bromofluorobenzene	89%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/09/16 05:22	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 3550B GCMS	File ID:	F14237.D
Prep Batch:	B6I0901	Sequence:	S6I0915	Analyzed:	09/09/16 23:17
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	45.4	228	U
108-95-2	Phenol	ND	45.4	228	U
111-44-4	bis(2-chloroethyl)ether	ND	45.4	228	U
95-57-8	2-Chlorophenol	ND	45.4	228	U
541-73-1	1,3-Dichlorobenzene	ND	45.4	228	U
106-46-7	1,4-Dichlorobenzene	ND	45.4	228	U
100-51-6	Benzyl alcohol	ND	45.4	228	U
95-50-1	1,2-Dichlorobenzene	ND	45.4	228	U
95-48-7	2-Methylphenol	ND	45.4	228	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	45.4	228	U
106-44-5	3 & 4-Methylphenol	ND	45.4	228	U
621-64-7	N-Nitroso-di-n-propylamine	ND	45.4	228	U
67-72-1	Hexachloroethane	ND	45.4	228	U
98-95-3	Nitrobenzene	ND	45.4	228	U
78-59-1	Isophorone	ND	45.4	228	U
88-75-5	2-Nitrophenol	ND	45.4	228	U
105-67-9	2,4-Dimethylphenol	ND	45.4	228	U
65-85-0	Benzoic acid	ND	113	454	U
111-91-1	bis(2-chloroethoxy)methane	ND	45.4	228	U
120-83-2	2,4-Dichlorophenol	ND	45.4	228	U
120-82-1	1,2,4-Trichlorobenzene	ND	45.4	228	U
91-20-3	Naphthalene	ND	45.4	228	U
106-47-8	4-Chloroaniline	ND UJ	45.4	228	U
87-68-3	Hexachlorobutadiene	ND UJ	45.4	228	U
59-50-7	4-Chloro-3-methylphenol	ND	45.4	228	U

MMP 10/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/09/16 05:22	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 3550B GCMS	File ID:	F14237.D
Prep Batch:	B6I0901	Sequence:	S6I0915	Analyzed:	09/09/16 23:17
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	45.4	228	U
77-47-4	Hexachlorocyclopentadiene	ND	45.4	228	U
88-06-2	2,4,6-Trichlorophenol	ND	45.4	228	U
95-95-4	2,4,5-Trichlorophenol	ND	45.4	228	U
91-58-7	2-Chloronaphthalene	ND	45.4	228	U
88-74-4	2-Nitroaniline	ND	45.4	228	U
131-11-3	Dimethylphthalate	ND	45.4	228	U
208-96-8	Acenaphthylene	ND	45.4	228	U
99-09-2	3-Nitroaniline	ND UJ	45.4	228	U
83-32-9	Acenaphthene	ND	45.4	228	U
51-28-5	2,4-Dinitrophenol	ND	45.4	454	U
100-02-7	4-Nitrophenol	ND	45.4	228	U
132-64-9	Dibenzofuran	ND	45.4	228	U
606-20-2	2,6-Dinitrotoluene	ND	45.4	228	U
121-14-2	2,4-Dinitrotoluene	ND	45.4	228	U
84-66-2	Diethyl phthalate	ND	45.4	228	U
7005-72-3	4-Chlorophenyl-phenylether	ND	45.4	228	U
86-73-7	Fluorene	ND	45.4	228	U
100-01-6	4-Nitroaniline	ND	45.4	228	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	45.4	228	U
86-30-6	N-Nitrosodiphenylamine	ND	45.4	228	U
101-55-3	4-Bromophenyl-phenylether	ND	45.4	228	U
118-74-1	Hexachlorobenzene	ND	45.4	228	U
87-86-5	Pentachlorophenol	ND	45.4	228	U
85-01-8	Phenanthrene	118	45.4	228	J

MCP 9/27/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/09/16 05:22	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 3550B GCMS	File ID:	F14237.D
Prep Batch:	B6I0901	Sequence:	S6I0915	Analyzed:	09/09/16 23:17
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	45.4	228	U
84-74-2	Di-n-butyl phthalate	ND	45.4	228	U
206-44-0	Fluoranthene	178	45.4	228	J
129-00-0	Pyrene	162	45.4	228	J
85-68-7	Butylbenzylphthalate	ND	45.4	228	U
91-94-1	3,3'-Dichlorobenzidine	ND	113	228	U
56-55-3	Benzo[a]anthracene	84.6	45.4	228	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	45.4	228	U
218-01-9	Chrysene	94.1	45.4	228	J
117-84-0	Di-n-octyl phthalate	ND	45.4	228	U
205-99-2	Benzo[b]fluoranthene	99.6	45.4	228	J
207-08-9	Benzo[k]fluoranthene	ND	45.4	228	U
50-32-8	Benzo[a]pyrene	77.3	45.4	228	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	45.4	228	U
53-70-3	Dibenzo(a,h)anthracene	ND	45.4	228	U
191-24-2	Benzo[ghi]perylene	ND	45.4	228	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	93%	30-130
Phenol-d5	92%	30-130
Nitrobenzene-d5	52%	30-130
2-Fluorobiphenyl	51%	30-130
2,4,6-Tribromophenol	94%	30-130
Terphenyl-d14	92%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/09/16 05:25	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 3550B	File ID:	A23027.D
Prep Batch:	B6I0902	Sequence:	S6I0901	Analyzed:	09/09/16 17:09
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.900	0.900	U
319-85-7	beta-BHC	ND	0.900	0.900	U
319-86-8	delta-BHC	ND	0.900	0.900	U
58-89-9	gamma-BHC [Lindane]	ND	0.900	0.900	U
76-44-8	Heptachlor	ND	0.900	0.900	U
309-00-2	Aldrin	ND	0.900	0.900	U
1024-57-3	Heptachlor Epoxide	ND	0.900	0.900	U
959-98-8	Endosulfan I	ND	0.900	0.900	U
60-57-1	Dieldrin	ND	1.81	1.81	U
72-55-9	4,4'-DDE	ND	1.81	1.81	U
72-20-8	Endrin	ND	1.81	1.81	U
33213-65-9	Endosulfan II	ND	1.81	1.81	U
72-54-8	4,4'-DDD	ND	1.81	1.81	U
1031-07-8	Endosulfan sulfate	ND	1.81	1.81	U
50-29-3	4,4'-DDT	ND	1.81	1.81	U
72-43-5	Methoxychlor	ND	2.73	9.09	U
53494-70-5	Endrin ketone	ND	1.81	1.81	U
7421-93-4	Endrin aldehyde	ND	1.81	1.81	U
5103-71-9	alpha-Chlordane	ND	0.900	0.900	U
5566-34-7	gamma-Chlordane	ND	0.900	0.900	U
8001-35-2	Toxaphene	ND	45.4	45.4	U
12674-11-2	Aroclor-1016	ND	22.6	45.4	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/09/16 05:25	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 3550B	File ID:	A23027.D
Prep Batch:	B6I0902	Sequence:	S6I0901	Analyzed:	09/09/16 17:09
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	22.6	45.4	U
11141-16-5	Aroclor-1232	ND	22.6	45.4	U
53469-21-9	Aroclor-1242	ND	22.6	45.4	U
12672-29-6	Aroclor-1248	ND	22.6	45.4	U
11097-69-1	Aroclor-1254	ND	22.6	45.4	U
11096-82-5	Aroclor-1260	ND	22.6	45.4	U
37324-23-5	Aroclor-1262	ND	22.6	45.4	U
11100-14-4	Aroclor-1268	ND	22.6	45.4	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	56.7%	30-150
Tetrachloro-m-xylene [2C]	69.5%	30-150
Decachlorobiphenyl	72.4%	30-150
Decachlorobiphenyl [2C]	84.0%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Matrix:	Soil
Percent Solids:	73.30	File ID:	091216A-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10600	20.2	20.2	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7439-97-6	Mercury	0.164	0.102	0.102	1		09/09/16 09:31	EPA 7471A	09/09/16 12:07 PRT	EPA 7471
7440-36-0	Antimony	ND	4.04	4.04	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-38-2	Arsenic	2.53	1.01	1.01	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-39-3	Barium	58.5	20.2	20.2	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.505	0.505	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-43-9	Cadmium	0.890	0.505	0.505	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-70-2	Calcium	11800	25.2	25.2	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-47-3	Chromium	17.0	2.02	2.02	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-48-4	Cobalt	8.34	5.05	5.05	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-50-8	Copper	18.9	3.03	3.03	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7439-89-6	Iron	15200	25.2	25.2	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7439-92-1	Lead	31.0	1.01	1.01	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7439-95-4	Magnesium	8860	50.5	50.5	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7439-96-5	Manganese	473	2.02	2.02	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-02-0	Nickel	14.1	4.04	4.04	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-09-7	Potassium	1410	50.5	50.5	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7782-49-2	Selenium	ND	4.04	4.04	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-22-4	Silver	ND	0.505	0.505	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-23-5	Sodium	201	50.5	50.5	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-28-0	Thallium	ND	1.51	3.03	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-62-2	Vanadium	25.6	5.05	5.05	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-66-6	Zinc	55.1	6.06	6.06	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Matrix:	Soil
Percent Solids:	73.30	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	17.0	1.48	1.48	1		09/12/16 09:31	[CALC]	09/12/16 17:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.73	2.73	1	U	09/12/16 09:31	SW 846 3060A	09/12/16 17:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.36	1.36	1	U	09/12/16 09:24	EPA 9010C	09/12/16 15:07 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	73.3	0.100	0.100	1		09/08/16 12:20	Percent Solids	09/09/16 09:44 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601701
Project: 255 East 138th Street

Instrument ID:	GC/MS A	Calibration:	16H2903
Lab File ID:	A9376.D	Calibration Date:	08/29/16 19:56
Sequence:	S6I0807	Injection Date:	09/08/16
Lab Sample ID:	S6I0807-CCV1	Injection Time:	09:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	212	5.094183E-02	4.322327E-02		-15.2	
Acrylonitrile	A	250	246	0.1167273	0.1147691		-1.7	
Acetone	L	50.0	53.7	0.1747694	0.1419703		-18.8	
Dichlorodifluoromethane	A	50.0	54.8	0.3620657	0.396968		9.6	
Chloromethane	A	50.0	50.0	0.6446193	0.6445226	0.1	-0.02	
Vinyl chloride	A	50.0	53.5	0.6338856	0.6779023		6.9	20
Bromomethane	A	50.0	56.0	0.4973511	0.5570743		12.0	
Chloroethane	A	50.0	52.6	0.2364184	0.2487277		5.2	
Trichlorofluoromethane	A	50.0	62.5	0.6040865	0.7547778		24.9	
Freon 113	A	50.0	48.3	0.5460094	0.5269841		-3.5	
1,1-Dichloroethene	A	50.0	48.3	0.8821578	0.8513793		-3.5	20
Carbon disulfide	A	50.0	42.2	2.237789	1.888894		-15.6	
Methyl Acetate	A	50.0	41.0	0.2835279	0.232206		-18.1	
Methylene Chloride	L	50.0	42.7	1.877848	0.8510613		-54.7	
trans-1,2-Dichloroethene	A	50.0	49.1	0.8991449	0.8827141		-1.8	
1,1-Dichloroethane	A	50.0	51.5	1.058622	1.089513	0.1	2.9	
Vinyl acetate	A	50.0	50.1	0.9809122	0.9833657		0.3	
2,2-Dichloropropane	A	50.0	57.0	0.8359179	0.9537502		14.1	
2-Butanone	A	50.0	48.5	0.1839178	0.1784797		-3.0	
cis-1,2-Dichloroethene	A	50.0	51.8	0.8114303	0.8404505		3.6	
Chloroform	A	50.0	53.1	1.02525	1.088214		6.1	20
Bromochloromethane	A	50.0	50.9	0.3642218	0.3710755		1.9	
Cyclohexane	A	50.0	46.6	0.9915085	0.9241606		-6.8	

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601701
Project: 255 East 138th Street

Calibration:	16H2903	Instrument:	GC/MS A
		Calibration Date:	8/29/2016 7:56:55PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	5.094183E-02	5.902873		
Acrylonitrile	0.1167273	3.778378		
Acetone	0.1747694	41.54276		
Dichlorodifluoromethane	0.3620657	13.06906		
Chloromethane	0.6446193	7.262679	SPCC (0.1)	
Vinyl chloride	0.6338856	7.791452	CCC (20)	
Bromomethane	0.4973511	6.110204		
Chloroethane	0.2364184	7.428701		
Trichlorofluoromethane	0.6040865	8.703495		
Freon 113	0.5460094	4.513852		
1,1-Dichloroethene	0.8821578	4.055756	CCC (20)	
Carbon disulfide	2.237789	5.996131		
Methyl Acetate	0.2835279	13.47158		
Methylene Chloride	1.877848	96.62287		
trans-1,2-Dichloroethene	0.8991449	6.440984		
1,1-Dichloroethane	1.058622	6.387356	SPCC (0.1)	
Vinyl acetate	0.9809122	4.721133		
2,2-Dichloropropane	0.8359179	3.248966		
2-Butanone	0.1839178	13.22088		
cis-1,2-Dichloroethene	0.8114303	6.048788		
Chloroform	1.02525	3.40079	CCC (20)	
Bromochloromethane	0.3642218	7.373368		
Cyclohexane	0.9915085	4.912063		
1,1,1-Trichloroethane	0.8164359	3.315326		
t-Butyl alcohol	2.729559E-02	4.03008		

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601701
Project: 255 East 138th Street

Matrix:	Solid	Laboratory ID:	B6I0901-BLK1	File ID:	F14229.D
Batch:	B6I0901	Prepared:	09/09/16 05:22	Analyzed:	09/09/16 17:02
Column:	1	Preparation:	EPA 3550B GCMS	Dilution:	
		Sequence:	S6I0915	Instrument:	GC/MS F

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
87-86-5	Pentachlorophenol	ND	33.3	167	U
85-01-8	Phenanthrene	ND	33.3	167	U
120-12-7	Anthracene	ND	33.3	167	U
84-74-2	Di-n-butyl phthalate	ND	33.3	167	U
206-44-0	Fluoranthene	ND	33.3	167	U
129-00-0	Pyrene	ND	33.3	167	U
85-68-7	Butylbenzylphthalate	ND	33.3	167	U
91-94-1	3,3'-Dichlorobenzidine	ND	83.0	167	U
56-55-3	Benzo[a]anthracene	ND	33.3	167	U
117-81-7	bis(2-ethylhexyl)phthalate	36.7	33.3	167	J
218-01-9	Chrysene	ND	33.3	167	U
117-84-0	Di-n-octyl phthalate	ND	33.3	167	U
205-99-2	Benzo[b]fluoranthene	ND	33.3	167	U
207-08-9	Benzo[k]fluoranthene	ND	33.3	167	U
50-32-8	Benzo[a]pyrene	ND	33.3	167	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33.3	167	U
53-70-3	Dibenzo(a,h)anthracene	ND	33.3	167	U
191-24-2	Benzo[ghi]perylene	ND	33.3	167	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	79%	30-130
Phenol-d5	81%	30-130
Nitrobenzene-d5	82%	30-130
2-Fluorobiphenyl	71%	30-130
2,4,6-Tribromophenol	73%	30-130
Terphenyl-d14	97%	30-130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601701

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6I0901	Lab Sample ID:	B6I0901-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1080	65	20 - 160
N-Nitrosodimethylamine	1670	1340	80	20 - 160
Aniline	1670	1210	73	20 - 160
Phenol	1670	1420	85	20 - 160
bis(2-chloroethyl)ether	1670	1340	81	70 - 130
2-Chlorophenol	1670	1380	83	70 - 130
1,3-Dichlorobenzene	1670	1200	72	70 - 130
1,4-Dichlorobenzene	1670	1210	73	70 - 130
Benzyl alcohol	1670	1370	82	20 - 160
1,2-Dichlorobenzene	1670	1220	73	70 - 130
2-Methylphenol	1670	1390	83	20 - 160
bis(2-chloroisopropyl)ether	1670	1320	79	70 - 130
3 & 4-Methylphenol	1670	1410	84	20 - 160
N-Nitroso-di-n-propylamine	1670	1360	81	70 - 130
Hexachloroethane	1670	1260	75	20 - 160
Nitrobenzene	1670	1280	77	70 - 130
Isophorone	1670	1310	79	70 - 130
2-Nitrophenol	1670	1280	77	70 - 130
2,4-Dimethylphenol	1670	1300	78	70 - 130
bis(2-chloroethoxy)methane	1670	1290	78	70 - 130
2,4-Dichlorophenol	1670	1280	77	70 - 130
1,2,4-Trichlorobenzene	1670	1170	70	70 - 130
Naphthalene	1670	1210	72	70 - 130
4-Chloroaniline	1670	584	35 *	70 - 130
Hexachlorobutadiene	1670	1070	64 *	70 - 130
4-Chloro-3-methylphenol	1670	1430	86	70 - 130
2-Methylnaphthylene	1670	1260	75	70 - 130
Hexachlorocyclopentadiene	1670	1020	61	20 - 160

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601701

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6I0901	Lab Sample ID:	B6I0901-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2,4,6-Trichlorophenol	1670	1330	80	70 - 130
2,4,5-Trichlorophenol	1670	1370	82	70 - 130
2-Chloronaphthalene	1670	1310	79	70 - 130
2-Nitroaniline	1670	1500	90	70 - 130
Dimethylphthalate	1670	1420	85	70 - 130
Acenaphthylene	1670	1330	80	70 - 130
3-Nitroaniline	1670	1130	68 *	70 - 130
Acenaphthene	1670	1370	82	70 - 130
2,4-Dinitrophenol	1670	1050	63	20 - 160
4-Nitrophenol	1670	1430	86	20 - 160
Dibenzofuran	1670	1340	80	70 - 130
2,6-Dinitrotoluene	1670	1450	87	70 - 130
2,4-Dinitrotoluene	1670	1480	89	70 - 130
2,3,4,6-Tetrachlorophenol	1670	1300	78	70 - 130
Diethyl phthalate	1670	1400	84	70 - 130
4-Chlorophenyl-phenylether	1670	1310	78	70 - 130
Fluorene	1670	1350	81	70 - 130
4-Nitroaniline	1670	1500	90	70 - 130
4,6-Dinitro-2-methylphenol	1670	1310	78	70 - 130
Carbazole	1670	1490	89	70 - 130
N-Nitrosodiphenylamine	1670	1430	86	20 - 160
Azobenzene	1670	1570	94	70 - 130
4-Bromophenyl-phenylether	1670	1400	84	70 - 130
Hexachlorobenzene	1670	1350	81	70 - 130
Pentachlorophenol	1670	1190	71	20 - 160
Phenanthrene	1670	1410	85	70 - 130
Anthracene	1670	1410	85	70 - 130
Di-n-butyl phthalate	1670	1430	86	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601701

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6I0901	Lab Sample ID:	B6I0901-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Fluoranthene	1670	1450	87	70 - 130
Pyrene	1670	1500	90	70 - 130
Butylbenzylphthalate	1670	1480	89	70 - 130
Benzo[a]anthracene	1670	1420	85	70 - 130
bis(2-ethylhexyl)phthalate	1670	1440	86	70 - 130
Chrysene	1670	1450	87	70 - 130
Di-n-octyl phthalate	1670	1490	89	70 - 130
Benzo[b]fluoranthene	1670	1420	85	70 - 130
Benzo[k]fluoranthene	1670	1470	88	70 - 130
Benzo[a]pyrene	1670	1470	88	70 - 130
Indeno(1,2,3-cd)pyrene	1670	1430	86	70 - 130
Dibenzo(a,h)anthracene	1670	1440	86	70 - 130
Benzo[ghi]perylene	1670	1420	85	70 - 130

* Values outside of QC limits

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1601734

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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APPENDIX A Validated Analytical Results
APPENDIX B Laboratory QC Documentation
APPENDIX C Validator Qualifications

Tables

Table 4-1 Data Validation Guidance Documents
Table 4-2 Quality Control Criteria for Validating Laboratory Analytical Data

Summaries of Validated Results
Table 6-1 VOCs
Table 6-2 SVOCs
Table 6-3 Pesticides
Table 6-4 PCBs
Table 6-5 Metals
Table 6-6 Wet Chemistry

REVIEWER'S NARRATIVE
SDG 1601734

The data associated with this Sample Delivery Group (SDG) 1601734, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. P Date: 10/28/16
Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx, NY
SAMPLING DATE:	September 9, 2016
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1601734

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on September 9, 2016. This sample was analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1601734. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1601734, one sample was analyzed and results were reported for 191 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-28	Acetone Methylene Chloride	J detects	ICV RPD > 20 %	Sample detects are estimated
EP-28	Dichlorodifluoromethane Trichlorofluoromethane Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-28	4-Chloroaniline	"UJ"	LCS < 70 % QC limit	All samples non-detect
EP-28	Benzoic acid	UJ non-detects J detects	CCV > 40 %	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-28	Lead Iron Zinc	J detects	Serial dilution > 10 %	Data is estimated

Table 6-6 Wet Chemistry

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601734

Client Sample ID:	Lab Sample ID:
EP-28	1601734-01

This data has been reviewed and accepted by:

Daniel Miguel 10/10/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 09/09/2016 14:20.

All analyses were performed within the required holding time.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6I1201 recovered outside control limits for certain analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6I1201 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

In the Hexavalent Chromium analyses, the MS1 recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732) 223 2225
OFFICE FAX #	(732) 223 - 36664
INITIAL RESULTS TO:	sharrison@brinkenv.com
EMAIL FOR INVOICE:	same

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601734
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-28	9/9/16 1330	S	9-10	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME (CIRCLE ONE): STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER ____ (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverables. Hard Copy Report due four(4) weeks from today. COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: W. R. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 9/9/16	Time: 1420	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-28
Lab Sample ID: 1601734-01
Project: 255 East 138th Street
Work Order: 1601734

Date Sampled:	09/09/16 09:30	Prep Date:	09/09/16 20:19	Matrix:	Soil
Percent Solids:	85.30	Prep Method:	EPA 5035A	File ID:	A9415.D
Prep Batch:	B6I0921	Sequence:	S6I0913	Analyzed:	09/09/16 20:19
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.28	12.1	U
107-13-1	Acrylonitrile	ND	2.43	12.1	U
67-64-1	Acetone	60.8	1.21	2.43	
75-71-8	Dichlorodifluoromethane	ND UJ	1.21	2.43	U
74-87-3	Chloromethane	ND	1.21	2.43	U
75-01-4	Vinyl chloride	ND	1.21	2.43	U
74-83-9	Bromomethane	ND	1.21	2.43	U
75-00-3	Chloroethane	ND	1.21	2.43	U
75-69-4	Trichlorofluoromethane	ND UJ	1.21	2.43	U
75-35-4	1,1-Dichloroethene	ND	1.21	2.43	U
75-15-0	Carbon disulfide	ND	1.21	2.43	U
75-09-2	Methylene Chloride	ND UJ	1.21	2.43	U
156-60-5	trans-1,2-Dichloroethene	ND	1.21	2.43	U
75-34-3	1,1-Dichloroethane	ND	1.21	2.43	U
108-05-4	Vinyl acetate	ND	1.21	2.43	U
590-20-7	2,2-Dichloropropane	ND	1.21	2.43	U
78-93-3	2-Butanone	17.1	1.21	2.43	
156-59-4	cis-1,2-Dichloroethene	ND	1.21	2.43	U
67-66-3	Chloroform	ND	1.21	2.43	U
74-97-5	Bromochloromethane	ND	1.21	2.43	U
71-55-6	1,1,1-Trichloroethane	ND	1.21	2.43	U
563-58-6	1,1-Dichloropropene	ND	1.21	2.43	U
56-23-5	Carbon Tetrachloride	ND	1.21	2.43	U
107-06-2	1,2-Dichloroethane	ND	1.21	2.43	U
71-43-2	Benzene	ND	1.21	2.43	U

mtp 10/28/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
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Project: 255 East 138th Street
Work Order: 1601734

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Percent Solids:	85.30	Prep Method:	EPA 5035A	File ID:	A9415.D
Prep Batch:	B6I0921	Sequence:	S6I0913	Analyzed:	09/09/16 20:19
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.21	2.43	U
78-87-5	1,2-Dichloropropane	ND	1.21	2.43	U
75-27-4	Bromodichloromethane	ND	1.21	2.43	U
74-95-3	Dibromomethane	ND	1.21	2.43	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.21	2.43	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.21	2.43	U
108-88-3	Toluene	ND	1.21	2.43	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.21	2.43	U
79-00-5	1,1,2-Trichloroethane	ND	1.21	2.43	U
108-10-1	4-Methyl-2-pentanone	ND	1.21	2.43	U
106-93-4	1,2-Dibromoethane	ND	1.21	2.43	U
591-78-6	2-Hexanone	ND	1.21	2.43	U
142-28-9	1,3-Dichloropropane	ND	1.21	2.43	U
127-18-4	Tetrachloroethene	ND	1.21	2.43	U
124-48-1	Dibromochloromethane	ND	1.21	2.43	U
100-41-4	Ethylbenzene	ND	1.21	2.43	U
108-90-7	Chlorobenzene	ND	1.21	2.43	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.21	2.43	U
108-38-3/106-42	m,p-Xylenes	ND	2.43	4.85	U
95-47-6	o-Xylene	ND	2.43	4.85	U
100-42-5	Styrene	ND	1.21	4.85	U
75-25-2	Bromoform	ND	1.21	2.43	U
98-82-8	Isopropylbenzene	ND	1.21	2.43	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.21	2.43	U
96-18-4	1,2,3-Trichloropropane	ND	1.21	2.43	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-28
Lab Sample ID: 1601734-01
Project: 255 East 138th Street
Work Order: 1601734

Date Sampled:	09/09/16 09:30	Prep Date:	09/09/16 20:19	Matrix:	Soil
Percent Solids:	85.30	Prep Method:	EPA 5035A	File ID:	A9415.D
Prep Batch:	B6I0921	Sequence:	S6I0913	Analyzed:	09/09/16 20:19
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	1.21	2.43	U
108-86-1	Bromobenzene	ND	1.21	2.43	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.21	2.43	U
95-49-8	2-Chlorotoluene	ND	1.21	2.43	U
106-43-4	4-Chlorotoluene	ND	1.21	2.43	U
98-06-6	tert-Butylbenzene	ND	1.21	2.43	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.21	2.43	U
135-98-8	sec-Butylbenzene	ND	1.21	2.43	U
99-87-6	p-Isopropyltoluene	ND	1.21	2.43	U
541-73-1	1,3-Dichlorobenzene	ND	1.21	2.43	U
106-46-7	1,4-Dichlorobenzene	ND	1.21	2.43	U
104-51-8	n-Butyl Benzene	ND	1.21	2.43	U
95-50-1	1,2-Dichlorobenzene	ND	1.21	2.43	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.21	2.43	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.21	2.43	U
87-68-3	Hexachlorobutadiene	ND	1.21	2.43	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.21	2.43	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	109%	70-130
Toluene-d8	97%	70-130
Bromofluorobenzene	86%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-28
Lab Sample ID: 1601734-01
Project: 255 East 138th Street
Work Order: 1601734

Date Sampled:	09/09/16 09:30	Prep Date:	09/12/16 05:32	Matrix:	Soil
Percent Solids:	85.30	Prep Method:	EPA 3550B GCMS	File ID:	F14250.D
Prep Batch:	B6I1201	Sequence:	S6I1207	Analyzed:	09/12/16 18:09
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	39.0	196	U
108-95-2	Phenol	ND	39.0	196	U
111-44-4	bis(2-chloroethyl)ether	ND	39.0	196	U
95-57-8	2-Chlorophenol	ND	39.0	196	U
541-73-1	1,3-Dichlorobenzene	ND	39.0	196	U
106-46-7	1,4-Dichlorobenzene	ND	39.0	196	U
100-51-6	Benzyl alcohol	ND	39.0	196	U
95-50-1	1,2-Dichlorobenzene	ND	39.0	196	U
95-48-7	2-Methylphenol	ND	39.0	196	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	39.0	196	U
106-44-5	3 & 4-Methylphenol	ND	39.0	196	U
621-64-7	N-Nitroso-di-n-propylamine	ND	39.0	196	U
67-72-1	Hexachloroethane	ND	39.0	196	U
98-95-3	Nitrobenzene	ND	39.0	196	U
78-59-1	Isophorone	ND	39.0	196	U
88-75-5	2-Nitrophenol	ND	39.0	196	U
105-67-9	2,4-Dimethylphenol	ND	39.0	196	U
65-85-0	Benzoic acid	ND UJ	97.3	390	U
111-91-1	bis(2-chloroethoxy)methane	ND	39.0	196	U
120-83-2	2,4-Dichlorophenol	ND	39.0	196	U
120-82-1	1,2,4-Trichlorobenzene	ND	39.0	196	U
91-20-3	Naphthalene	ND	39.0	196	U
106-47-8	4-Chloroaniline	ND UJ	39.0	196	U
87-68-3	Hexachlorobutadiene	ND	39.0	196	U
59-50-7	4-Chloro-3-methylphenol	ND	39.0	196	U

 MKP 10/28/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

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Project: 255 East 138th Street
Work Order: 1601734

Date Sampled:	09/09/16 09:30	Prep Date:	09/12/16 05:32	Matrix:	Soil
Percent Solids:	85.30	Prep Method:	EPA 3550B GCMS	File ID:	F14250.D
Prep Batch:	B6I1201	Sequence:	S6I1207	Analyzed:	09/12/16 18:09
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	39.0	196	U
77-47-4	Hexachlorocyclopentadiene	ND	39.0	196	U
88-06-2	2,4,6-Trichlorophenol	ND	39.0	196	U
95-95-4	2,4,5-Trichlorophenol	ND	39.0	196	U
91-58-7	2-Chloronaphthalene	ND	39.0	196	U
88-74-4	2-Nitroaniline	ND	39.0	196	U
131-11-3	Dimethylphthalate	ND	39.0	196	U
208-96-8	Acenaphthylene	ND	39.0	196	U
99-09-2	3-Nitroaniline	ND	39.0	196	U
83-32-9	Acenaphthene	ND	39.0	196	U
51-28-5	2,4-Dinitrophenol	ND	39.0	390	U
100-02-7	4-Nitrophenol	ND	39.0	196	U
132-64-9	Dibenzofuran	ND	39.0	196	U
606-20-2	2,6-Dinitrotoluene	ND	39.0	196	U
121-14-2	2,4-Dinitrotoluene	ND	39.0	196	U
84-66-2	Diethyl phthalate	ND	39.0	196	U
7005-72-3	4-Chlorophenyl-phenylether	ND	39.0	196	U
86-73-7	Fluorene	ND	39.0	196	U
100-01-6	4-Nitroaniline	ND	39.0	196	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	39.0	196	U
86-30-6	N-Nitrosodiphenylamine	ND	39.0	196	U
101-55-3	4-Bromophenyl-phenylether	ND	39.0	196	U
118-74-1	Hexachlorobenzene	ND	39.0	196	U
87-86-5	Pentachlorophenol	ND	39.0	196	U
85-01-8	Phenanthrene	ND	39.0	196	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-28
Lab Sample ID: 1601734-01
Project: 255 East 138th Street
Work Order: 1601734

Date Sampled:	09/09/16 09:30	Prep Date:	09/12/16 05:32	Matrix:	Soil
Percent Solids:	85.30	Prep Method:	EPA 3550B GCMS	File ID:	F14250.D
Prep Batch:	B6I1201	Sequence:	S6I1207	Analyzed:	09/12/16 18:09
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	39.0	196	U
84-74-2	Di-n-butyl phthalate	ND	39.0	196	U
206-44-0	Fluoranthene	ND	39.0	196	U
129-00-0	Pyrene	ND	39.0	196	U
85-68-7	Butylbenzylphthalate	ND	39.0	196	U
91-94-1	3,3'-Dichlorobenzidine	ND	97.3	196	U
56-55-3	Benzo[a]anthracene	ND	39.0	196	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	39.0	196	U
218-01-9	Chrysene	ND	39.0	196	U
117-84-0	Di-n-octyl phthalate	ND	39.0	196	U
205-99-2	Benzo[b]fluoranthene	ND	39.0	196	U
207-08-9	Benzo[k]fluoranthene	ND	39.0	196	U
50-32-8	Benzo[a]pyrene	ND	39.0	196	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	39.0	196	U
53-70-3	Dibenzo(a,h)anthracene	ND	39.0	196	U
191-24-2	Benzo[ghi]perylene	ND	39.0	196	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	73%	30-130
Phenol-d5	73%	30-130
Nitrobenzene-d5	77%	30-130
2-Fluorobiphenyl	68%	30-130
2,4,6-Tribromophenol	75%	30-130
Terphenyl-d14	102%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-28
Lab Sample ID: 1601734-01
Project: 255 East 138th Street
Work Order: 1601734

Date Sampled:	09/09/16 09:30	Prep Date:	09/12/16 05:36	Matrix:	Soil
Percent Solids:	85.30	Prep Method:	EPA 3550B	File ID:	A23055.D
Prep Batch:	B6I1202	Sequence:	S6I1205	Analyzed:	09/12/16 14:30
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.774	0.774	U
319-85-7	beta-BHC	ND	0.774	0.774	U
319-86-8	delta-BHC	ND	0.774	0.774	U
58-89-9	gamma-BHC [Lindane]	ND	0.774	0.774	U
76-44-8	Heptachlor	ND	0.774	0.774	U
309-00-2	Aldrin	ND	0.774	0.774	U
1024-57-3	Heptachlor Epoxide	ND	0.774	0.774	U
959-98-8	Endosulfan I	ND	0.774	0.774	U
60-57-1	Dieldrin	ND	1.56	1.56	U
72-55-9	4,4'-DDE	ND	1.56	1.56	U
72-20-8	Endrin	ND	1.56	1.56	U
33213-65-9	Endosulfan II	ND	1.56	1.56	U
72-54-8	4,4'-DDD	ND	1.56	1.56	U
1031-07-8	Endosulfan sulfate	ND	1.56	1.56	U
50-29-3	4,4'-DDT	ND	1.56	1.56	U
72-43-5	Methoxychlor	ND	2.34	7.81	U
53494-70-5	Endrin ketone	ND	1.56	1.56	U
7421-93-4	Endrin aldehyde	ND	1.56	1.56	U
5103-71-9	alpha-Chlordane	ND	0.774	0.774	U
5566-34-7	gamma-Chlordane	ND	0.774	0.774	U
8001-35-2	Toxaphene	ND	39.0	39.0	U
12674-11-2	Aroclor-1016	ND	19.5	39.0	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-28
Lab Sample ID: 1601734-01
Project: 255 East 138th Street
Work Order: 1601734

Date Sampled:	09/09/16 09:30	Prep Date:	09/12/16 05:36	Matrix:	Soil
Percent Solids:	85.30	Prep Method:	EPA 3550B	File ID:	A23055.D
Prep Batch:	B6I1202	Sequence:	S6I1205	Analyzed:	09/12/16 14:30
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.5	39.0	U
11141-16-5	Aroclor-1232	ND	19.5	39.0	U
53469-21-9	Aroclor-1242	ND	19.5	39.0	U
12672-29-6	Aroclor-1248	ND	19.5	39.0	U
11097-69-1	Aroclor-1254	ND	19.5	39.0	U
11096-82-5	Aroclor-1260	ND	19.5	39.0	U
37324-23-5	Aroclor-1262	ND	19.5	39.0	U
11100-14-4	Aroclor-1268	ND	19.5	39.0	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	73.3%	30-150
Tetrachloro-m-xylene [2C]	84.5%	30-150
Decachlorobiphenyl	91.0%	30-150
Decachlorobiphenyl [2C]	99.0%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-28
Lab Sample ID: 1601734-01
Project: 255 East 138th Street
Work Order: 1601734

Date Sampled:	09/09/16 09:30	Matrix:	Soil
Percent Solids:	85.30	File ID:	091316B-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11500	19.3	19.3	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0879	0.0879	1	U	09/12/16 08:53	EPA 7471A	09/12/16 14:22 PRT	EPA 7471
7440-36-0	Antimony	ND	3.87	3.87	1	U	09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7440-38-2	Arsenic	2.32	0.967	0.967	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7440-39-3	Barium	57.3	19.3	19.3	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.484	0.484	1	U	09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7440-43-9	Cadmium	0.667	0.484	0.484	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7440-70-2	Calcium	4100	24.2	24.2	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7440-47-3	Chromium	22.8	1.93	1.93	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7440-48-4	Cobalt	9.35	4.84	4.84	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7440-50-8	Copper	17.8	2.90	2.90	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7439-89-6	Iron	18800 J	24.2	24.2	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7439-92-1	Lead	13.0 J	0.967	0.967	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7439-95-4	Magnesium	7030	48.4	48.4	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7439-96-5	Manganese	557	1.93	1.93	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7440-02-0	Nickel	15.8	3.87	3.87	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7440-09-7	Potassium	1840	48.4	48.4	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7782-49-2	Selenium	ND	3.87	3.87	1	U	09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7440-22-4	Silver	ND	0.484	0.484	1	U	09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7440-23-5	Sodium	166	48.4	48.4	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7440-28-0	Thallium	ND	1.45	2.90	1	U	09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7440-62-2	Vanadium	31.6	4.84	4.84	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010
7440-66-6	Zinc	46.1 J	5.80	5.80	1		09/12/16 09:18	EPA 3050B	09/13/16 16:58 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

mxp 10/28/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-28
Lab Sample ID: 1601734-01
Project: 255 East 138th Street
Work Order: 1601734

Date Sampled:	09/09/16 09:30	Matrix:	Soil
Percent Solids:	85.30	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	22.8	1.65	1.65	1		09/12/16 09:31	[CALC]	09/13/16 16:58 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.34	2.34	1	U	09/12/16 09:31	SW 846 3060A	09/12/16 17:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.17	1.17	1	U	09/12/16 09:24	EPA 9010C	09/12/16 15:07 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	85.3	0.100	0.100	1		09/09/16 16:18	Percent Solids	09/12/16 09:37 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601734
Project: 255 East 138th Street

Calibration:	16H2903	Instrument:	GC/MS A
		Calibration Date:	8/29/2016 7:56:55PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	5.094183E-02	5.902873		
Acrylonitrile	0.1167273	3.778378		
Acetone	0.1747694	41.54276		
Dichlorodifluoromethane	0.3620657	13.06906		
Chloromethane	0.6446193	7.262679	SPCC (0.1)	
Vinyl chloride	0.6338856	7.791452	CCC (20)	
Bromomethane	0.4973511	6.110204		
Chloroethane	0.2364184	7.428701		
Trichlorofluoromethane	0.6040865	8.703495		
Freon 113	0.5460094	4.513852		
1,1-Dichloroethene	0.8821578	4.055756	CCC (20)	
Carbon disulfide	2.237789	5.996131		
Methyl Acetate	0.2835279	13.47158		
Methylene Chloride	1.877848	96.62287		
trans-1,2-Dichloroethene	0.8991449	6.440984		
1,1-Dichloroethane	1.058622	6.387356	SPCC (0.1)	
Vinyl acetate	0.9809122	4.721133		
2,2-Dichloropropane	0.8359179	3.248966		
2-Butanone	0.1839178	13.22088		
cis-1,2-Dichloroethene	0.8114303	6.048788		
Chloroform	1.02525	3.40079	CCC (20)	
Bromochloromethane	0.3642218	7.373368		
Cyclohexane	0.9915085	4.912063		
1,1,1-Trichloroethane	0.8164359	3.315326		
t-Butyl alcohol	2.729559E-02	4.03008		

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1601734		
Project:	255 East 138th Street		
Instrument ID:	GC/MS A	Calibration:	16H2903
Lab File ID:	A9400.D	Calibration Date:	08/29/16 19:56
Sequence:	S6I0913	Injection Date:	09/09/16
Lab Sample ID:	S6I0913-CCV1	Injection Time:	12:08

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acrolein	A	250	208	5.094183E-02	4.233541E-02		-16.9		
Acrylonitrile	A	250	232	0.1167273	0.1081992		-7.3		
Acetone	L	50.0	54.6	0.1747694	0.1441788		-17.5		
Dichlorodifluoromethane	A	50.0	66.6	0.3620657	0.4821573		33.2		
Chloromethane	A	50.0	58.4	0.6446193	0.7531789	0.1	16.8		
Vinyl chloride	A	50.0	60.0	0.6338856	0.7611953		20.1	20	*
Bromomethane	A	50.0	56.7	0.4973511	0.5638038		13.4		
Chloroethane	A	50.0	55.2	0.2364184	0.2610373		10.4		
Trichlorofluoromethane	A	50.0	60.3	0.6040865	0.7287409		20.6		
Freon 113	A	50.0	44.6	0.5460094	0.4865095		-10.9		
1,1-Dichloroethene	A	50.0	43.8	0.8821578	0.773018		-12.4	20	
Carbon disulfide	A	50.0	40.1	2.237789	1.79611		-19.7		
Methyl Acetate	A	50.0	40.5	0.2835279	0.2294295		-19.1		
Methylene Chloride	L	50.0	42.1	1.877848	0.84301		-55.1		
trans-1,2-Dichloroethene	A	50.0	48.1	0.8991449	0.8646982		-3.8		
1,1-Dichloroethane	A	50.0	46.6	1.058622	0.9876006	0.1	-6.7		
Vinyl acetate	A	50.0	48.4	0.9809122	0.950518		-3.1		
2,2-Dichloropropane	A	50.0	51.4	0.8359179	0.8591786		2.8		
2-Butanone	A	50.0	50.1	0.1839178	0.1841485		0.1		
cis-1,2-Dichloroethene	A	50.0	49.8	0.8114303	0.8078582		-0.4		
Chloroform	A	50.0	50.9	1.02525	1.043302		1.8	20	
Bromochloromethane	A	50.0	49.8	0.3642218	0.3626879		-0.4		
Cyclohexane	A	50.0	44.0	0.9915085	0.8732652		-11.9		

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601734

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6I1201	Lab Sample ID:	B6I1201-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1140	69	20 - 160
N-Nitrosodimethylamine	1670	1470	88	20 - 160
Aniline	1670	1410	85	20 - 160
Phenol	1670	1580	95	20 - 160
bis(2-chloroethyl)ether	1670	1500	90	70 - 130
2-Chlorophenol	1670	1530	92	70 - 130
1,3-Dichlorobenzene	1670	1350	81	70 - 130
1,4-Dichlorobenzene	1670	1350	81	70 - 130
Benzyl alcohol	1670	1500	90	20 - 160
1,2-Dichlorobenzene	1670	1370	82	70 - 130
2-Methylphenol	1670	1520	91	20 - 160
bis(2-chloroisopropyl)ether	1670	1510	91	70 - 130
3 & 4-Methylphenol	1670	1560	93	20 - 160
N-Nitroso-di-n-propylamine	1670	1480	88	70 - 130
Hexachloroethane	1670	1410	85	20 - 160
Nitrobenzene	1670	1420	85	70 - 130
Isophorone	1670	1430	86	70 - 130
2-Nitrophenol	1670	1400	84	70 - 130
2,4-Dimethylphenol	1670	1400	84	70 - 130
bis(2-chloroethoxy)methane	1670	1440	86	70 - 130
2,4-Dichlorophenol	1670	1400	84	70 - 130
1,2,4-Trichlorobenzene	1670	1280	77	70 - 130
Naphthalene	1670	1340	80	70 - 130
4-Chloroaniline	1670	1010	60 *	70 - 130
Hexachlorobutadiene	1670	1200	72	70 - 130
4-Chloro-3-methylphenol	1670	1460	88	70 - 130
2-Methylnaphthylene	1670	1360	82	70 - 130
Hexachlorocyclopentadiene	1670	1100	66	20 - 160

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1601734		
Project:	255 East 138th Street		
Instrument ID:	GC/MS F	Calibration:	16H2202
Lab File ID:	F14244.D	Calibration Date:	08/15/16 15:46
Sequence:	S6I1207	Injection Date:	09/12/16
Lab Sample ID:	S6I1207-CCV1	Injection Time:	13:31

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	60.5	0.8886553	1.074506		20.9	
N-Nitrosodimethylamine	A	50.0	60.0	0.6059328	0.7276767		20.1	
Benzaldehyde	A	50.0	46.2	0.1877297	0.173398		-7.6	
Aniline	A	50.0	51.8	2.01292	2.087517		3.7	
Phenol	A	50.0	52.6	1.710699	1.798847		5.2	20
bis(2-chloroethyl)ether	A	50.0	52.5	1.45391	1.526849		5.0	
2-Chlorophenol	A	50.0	50.6	1.440342	1.456705		1.1	
1,3-Dichlorobenzene	A	50.0	47.9	1.547319	1.48174		-4.2	
1,4-Dichlorobenzene	A	50.0	48.2	1.604884	1.545461		-3.7	20
Benzyl alcohol	A	50.0	51.7	1.121277	1.159718		3.4	
1,2-Dichlorobenzene	A	50.0	48.3	1.531773	1.480237		-3.4	
2-Methylphenol	A	50.0	51.1	1.315402	1.344663		2.2	
bis(2-chloroisopropyl)ether	A	50.0	54.6	1.557541	1.699652		9.1	
Acetophenone	A	50.0	48.7	1.896367	1.848172		-2.5	
3 & 4-Methylphenol	A	50.0	51.0	1.416771	1.445424		2.0	
N-Nitroso-di-n-propylamine	A	50.0	51.7	1.035407	1.070495	0.05	3.4	
Hexachloroethane	A	50.0	49.9	0.6304627	0.6289762		-0.2	
Nitrobenzene	A	50.0	50.5	0.3433064	0.3470392		1.1	
Isophorone	A	50.0	50.5	0.7453566	0.7529069		1.0	
2-Nitrophenol	A	50.0	50.4	0.2295834	0.2314081		0.8	20
2,4-Dimethylphenol	A	50.0	49.5	0.3583662	0.3546622		-1.0	
Benzoic acid	L	50.0	11.8	0.1636113	2.471404E-02		-84.9	
bis(2-chloroethoxy)methane	A	50.0	51.5	0.4552118	0.4689019		3.0	

Accredited Analytical Resources, LLC.

SERIAL DILUTION

EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1601734
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Matrix:	Solid	Laboratory ID:	S6I1307-SRD1
Sequence:	S6I1307	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Lead	21.4	24.3	12.7	*	10.00
Antimony	ND	ND	N/A		10.00
Arsenic	10.7	11.1	4.32		10.00
Barium	102	ND	N/A		10.00
Beryllium	0.977	ND	N/A		10.00
Cadmium	0.861	ND	N/A		10.00
Calcium	1270	1390	8.72		10.00
Chromium	27.4	28.9	5.28		10.00
Cobalt	11.4	ND	N/A		10.00
Aluminum	15900	16300	2.59		10.00
Iron	25000	28900	14.7	*	10.00
Zinc	48.9	59.3	19.2	*	10.00
Magnesium	4680	4950	5.61		10.00
Manganese	513	555	7.85		10.00
Nickel	18.5	ND	N/A		10.00
Potassium	1840	1900	3.08		10.00
Selenium	ND	ND	N/A		10.00
Silver	ND	ND	N/A		10.00
Sodium	84.6	ND	N/A		10.00
Thallium	ND	ND	N/A		10.00
Vanadium	48.6	50.9	4.67		10.00
Copper	27.9	30.2	7.84		10.00

* Values outside of QC limits

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1601751

2 Soil Samples

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1601751

The data associated with this Sample Delivery Group (SDG) 1601751, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 10/28/16

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx, NY
SAMPLING DATE:	September 13, 2016
SAMPLE TYPE:	2 soil samples
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1601751

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for two soil samples collected on September 13, 2016. These samples were analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1601751. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg Sample Condition Holding Time System Monitoring Compounds Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Matrix Spikes Blanks Instrument Calibration & Verification Analyte ID Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Initial/Continuing Calibration CRDL Standards Blanks Interference Check Sample Spike Recoveries Lab Duplicate Lab Control Sample ICP Serial Dilutions Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Times Calibration Lab Control Samples Blanks Spike Recoveries Lab Duplicates	Completeness of Pkg Sample Condition Holding Time Canister Certification Lab Control Sample Instrument Tuning Blanks Initial Calibration & System Performance Daily Calibration Field Duplicate

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1601751, two samples were analyzed and results were reported for 382 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-29 EP-30	Methylene Chloride	J all data 10X MB value	Detected in the method blank	No data was affected
EP-29 EP-30	Acetone Methylene Chloride	J detects	ICV RPD > 20 %	Sample detects are estimated
EP-29 EP-30	Dichlorodifluoromethane Trichlorofluoromethane Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-29	Surr.: 2,4,6-Tribromophenol	none	rec < 30 % QC limit	Other phenolic surr. within QC limits
EP-29 EP-30	1,4-Dichlorobenzene 1,2,4-Trichlorobenzene 4-Chloroaniline Hexachlorobutadiene 4,6-Dinitro-2-methylphenol	"UJ"	LCS < 70 % QC limit	All samples non-detect
EP-29 EP-30	Benzoic acid	UJ non-detects J detects	CCV > 40 %	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-29 EP-30	Lead Iron	J detects	Serial dilution > 10 %	Data is estimated

Table 6-6 Wet Chemistry

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 E. 138th Street

AAR Work Order: 1601751

Client Sample ID:	Lab Sample ID:
EP-29	1601751-01
EP-30	1601751-02

This data has been reviewed and accepted by:

Daniel Miguel 10/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 2 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 E. 138th Street) on 09/13/2016 14:50.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B6I1313-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6I1403 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6I1403 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, the laboratory control sample (LCS) for Batch B6I1402 recovered outside control limits for certain analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the Metals analysis the recoveries of the MS/MSD are outside of acceptance criteria due to matrix interference. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601751
P.O. #	10B2188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL / TCL	Hex Valent Chromium	Trivalent Chromium										AAR SAMPLE #
EP-29	9/13/16 @ 12:10	S		4	G	X	X	X										-01
EP-30	9/13/16 @ 12:25	S		4	G	X	X	X										-02

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER

TURNAROUND TIME (CIRCLE ONE): STANDARD 5 DAY 72 HRS. (48 HRS.) 24 HRS. OTHER ~~[illegible]~~ (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Please provide ~~category~~ NYSDEC Category B Data Deliverable; Send invoice to Brinkerhoff

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Monica Norton	Signature: K. Muniz	Signature:	Signature:
Agent of: BES	Agent of: AAR	Agent of:	Agent of:
Date Received: 9/13/16 Time: 14:50	1250 KM 9/13/16	Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-29
Lab Sample ID: 1601751-01
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:10	Prep Date:	09/13/16 20:19	Matrix:	Soil
Percent Solids:	70.00	Prep Method:	EPA 5035A	File ID:	A9460.D
Prep Batch:	B6I1313	Sequence:	S6I1311	Analyzed:	09/13/16 20:19
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	9.18	15.3	U
107-13-1	Acrylonitrile	ND	3.06	15.3	U
67-64-1	Acetone	91.0 J	1.53	3.06	
75-71-8	Dichlorodifluoromethane	ND	1.53	3.06	U
74-87-3	Chloromethane	ND	1.53	3.06	U
75-01-4	Vinyl chloride	ND	1.53	3.06	U
74-83-9	Bromomethane	ND	1.53	3.06	U
75-00-3	Chloroethane	ND	1.53	3.06	U
75-69-4	Trichlorofluoromethane	ND	1.53	3.06	U
75-35-4	1,1-Dichloroethene	ND	1.53	3.06	U
75-15-0	Carbon disulfide	ND	1.53	3.06	U
75-09-2	Methylene Chloride	ND UJ	1.53	3.06	U
156-60-5	trans-1,2-Dichloroethene	ND	1.53	3.06	U
75-34-3	1,1-Dichloroethane	ND	1.53	3.06	U
108-05-4	Vinyl acetate	ND	1.53	3.06	U
590-20-7	2,2-Dichloropropane	ND	1.53	3.06	U
78-93-3	2-Butanone	11.0	1.53	3.06	
156-59-4	cis-1,2-Dichloroethene	ND	1.53	3.06	U
67-66-3	Chloroform	ND	1.53	3.06	U
74-97-5	Bromochloromethane	ND	1.53	3.06	U
71-55-6	1,1,1-Trichloroethane	ND	1.53	3.06	U
563-58-6	1,1-Dichloropropene	ND	1.53	3.06	U
56-23-5	Carbon Tetrachloride	ND	1.53	3.06	U
107-06-2	1,2-Dichloroethane	ND	1.53	3.06	U
71-43-2	Benzene	ND	1.53	3.06	U

 MMP 10/20/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-29
Lab Sample ID: 1601751-01
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:10	Prep Date:	09/13/16 20:19	Matrix:	Soil
Percent Solids:	70.00	Prep Method:	EPA 5035A	File ID:	A9460.D
Prep Batch:	B6I1313	Sequence:	S6I1311	Analyzed:	09/13/16 20:19
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.53	3.06	U
78-87-5	1,2-Dichloropropane	ND	1.53	3.06	U
75-27-4	Bromodichloromethane	ND	1.53	3.06	U
74-95-3	Dibromomethane	ND	1.53	3.06	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.53	3.06	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.53	3.06	U
108-88-3	Toluene	2.19	1.53	3.06	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.53	3.06	U
79-00-5	1,1,2-Trichloroethane	ND	1.53	3.06	U
108-10-1	4-Methyl-2-pentanone	ND	1.53	3.06	U
106-93-4	1,2-Dibromoethane	ND	1.53	3.06	U
591-78-6	2-Hexanone	ND	1.53	3.06	U
142-28-9	1,3-Dichloropropane	ND	1.53	3.06	U
127-18-4	Tetrachloroethene	ND	1.53	3.06	U
124-48-1	Dibromochloromethane	ND	1.53	3.06	U
100-41-4	Ethylbenzene	1.99	1.53	3.06	J
108-90-7	Chlorobenzene	ND	1.53	3.06	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.53	3.06	U
108-38-3/106-42	m,p-Xylenes	9.16	3.06	6.12	
95-47-6	o-Xylene	4.44	3.06	6.12	J
100-42-5	Styrene	ND	1.53	6.12	U
75-25-2	Bromoform	ND	1.53	3.06	U
98-82-8	Isopropylbenzene	ND	1.53	3.06	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.53	3.06	U
96-18-4	1,2,3-Trichloropropane	ND	1.53	3.06	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-29
Lab Sample ID: 1601751-01
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:10	Prep Date:	09/13/16 20:19	Matrix:	Soil
Percent Solids:	70.00	Prep Method:	EPA 5035A	File ID:	A9460.D
Prep Batch:	B6I1313	Sequence:	S6I1311	Analyzed:	09/13/16 20:19
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	1.53	3.06	U
108-86-1	Bromobenzene	ND	1.53	3.06	U
108-67-8	1,3,5-Trimethylbenzene	2.84	1.53	3.06	J
95-49-8	2-Chlorotoluene	ND	1.53	3.06	U
106-43-4	4-Chlorotoluene	ND	1.53	3.06	U
98-06-6	tert-Butylbenzene	ND	1.53	3.06	U
95-63-6	1,2,4-Trimethylbenzene	8.90	1.53	3.06	
135-98-8	sec-Butylbenzene	ND	1.53	3.06	U
99-87-6	p-Isopropyltoluene	ND	1.53	3.06	U
541-73-1	1,3-Dichlorobenzene	ND	1.53	3.06	U
106-46-7	1,4-Dichlorobenzene	ND	1.53	3.06	U
104-51-8	n-Butyl Benzene	ND	1.53	3.06	U
95-50-1	1,2-Dichlorobenzene	ND	1.53	3.06	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.53	3.06	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.53	3.06	U
87-68-3	Hexachlorobutadiene	ND	1.53	3.06	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.53	3.06	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	115%	70-130
Toluene-d8	97%	70-130
Bromofluorobenzene	93%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-30
Lab Sample ID: 1601751-02
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:25	Prep Date:	09/13/16 20:50	Matrix:	Soil
Percent Solids:	74.50	Prep Method:	EPA 5035A	File ID:	A9461.D
Prep Batch:	B6I1313	Sequence:	S6I1311	Analyzed:	09/13/16 20:50
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.50	12.5	U
107-13-1	Acrylonitrile	ND	2.50	12.5	U
67-64-1	Acetone	23.4 J	1.25	2.50	
75-71-8	Dichlorodifluoromethane	ND	1.25	2.50	U
74-87-3	Chloromethane	ND	1.25	2.50	U
75-01-4	Vinyl chloride	ND	1.25	2.50	U
74-83-9	Bromomethane	ND	1.25	2.50	U
75-00-3	Chloroethane	ND	1.25	2.50	U
75-69-4	Trichlorofluoromethane	ND	1.25	2.50	U
75-35-4	1,1-Dichloroethene	ND	1.25	2.50	U
75-15-0	Carbon disulfide	ND	1.25	2.50	U
75-09-2	Methylene Chloride	ND UJ	1.25	2.50	U
156-60-5	trans-1,2-Dichloroethene	ND	1.25	2.50	U
75-34-3	1,1-Dichloroethane	ND	1.25	2.50	U
108-05-4	Vinyl acetate	ND	1.25	2.50	U
590-20-7	2,2-Dichloropropane	ND	1.25	2.50	U
78-93-3	2-Butanone	ND	1.25	2.50	U
156-59-4	cis-1,2-Dichloroethene	ND	1.25	2.50	U
67-66-3	Chloroform	ND	1.25	2.50	U
74-97-5	Bromochloromethane	ND	1.25	2.50	U
71-55-6	1,1,1-Trichloroethane	ND	1.25	2.50	U
563-58-6	1,1-Dichloropropene	ND	1.25	2.50	U
56-23-5	Carbon Tetrachloride	ND	1.25	2.50	U
107-06-2	1,2-Dichloroethane	ND	1.25	2.50	U
71-43-2	Benzene	ND	1.25	2.50	U

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-30
Lab Sample ID: 1601751-02
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:25	Prep Date:	09/13/16 20:50	Matrix:	Soil
Percent Solids:	74.50	Prep Method:	EPA 5035A	File ID:	A9461.D
Prep Batch:	B6I1313	Sequence:	S6I1311	Analyzed:	09/13/16 20:50
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.25	2.50	U
78-87-5	1,2-Dichloropropane	ND	1.25	2.50	U
75-27-4	Bromodichloromethane	ND	1.25	2.50	U
74-95-3	Dibromomethane	ND	1.25	2.50	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.25	2.50	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.25	2.50	U
108-88-3	Toluene	ND	1.25	2.50	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.25	2.50	U
79-00-5	1,1,2-Trichloroethane	ND	1.25	2.50	U
108-10-1	4-Methyl-2-pentanone	ND	1.25	2.50	U
106-93-4	1,2-Dibromoethane	ND	1.25	2.50	U
591-78-6	2-Hexanone	ND	1.25	2.50	U
142-28-9	1,3-Dichloropropane	ND	1.25	2.50	U
127-18-4	Tetrachloroethene	ND	1.25	2.50	U
124-48-1	Dibromochloromethane	ND	1.25	2.50	U
100-41-4	Ethylbenzene	ND	1.25	2.50	U
108-90-7	Chlorobenzene	ND	1.25	2.50	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.25	2.50	U
108-38-3/106-42	m,p-Xylenes	ND	2.50	5.00	U
95-47-6	o-Xylene	ND	2.50	5.00	U
100-42-5	Styrene	ND	1.25	5.00	U
75-25-2	Bromoform	ND	1.25	2.50	U
98-82-8	Isopropylbenzene	ND	1.25	2.50	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.25	2.50	U
96-18-4	1,2,3-Trichloropropane	ND	1.25	2.50	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-30
Lab Sample ID: 1601751-02
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:25	Prep Date:	09/13/16 20:50	Matrix:	Soil
Percent Solids:	74.50	Prep Method:	EPA 5035A	File ID:	A9461.D
Prep Batch:	B6I1313	Sequence:	S6I1311	Analyzed:	09/13/16 20:50
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	1.25	2.50	U
108-86-1	Bromobenzene	ND	1.25	2.50	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.25	2.50	U
95-49-8	2-Chlorotoluene	ND	1.25	2.50	U
106-43-4	4-Chlorotoluene	ND	1.25	2.50	U
98-06-6	tert-Butylbenzene	ND	1.25	2.50	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.25	2.50	U
135-98-8	sec-Butylbenzene	ND	1.25	2.50	U
99-87-6	p-Isopropyltoluene	ND	1.25	2.50	U
541-73-1	1,3-Dichlorobenzene	ND	1.25	2.50	U
106-46-7	1,4-Dichlorobenzene	ND	1.25	2.50	U
104-51-8	n-Butyl Benzene	ND	1.25	2.50	U
95-50-1	1,2-Dichlorobenzene	ND	1.25	2.50	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.25	2.50	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.25	2.50	U
87-68-3	Hexachlorobutadiene	ND	1.25	2.50	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.25	2.50	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	121%	70-130
Toluene-d8	96%	70-130
Bromofluorobenzene	83%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-29
Lab Sample ID: 1601751-01
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:10	Prep Date:	09/14/16 05:36	Matrix:	Soil
Percent Solids:	70.00	Prep Method:	EPA 3550B GCMS	File ID:	F14302.D
Prep Batch:	B6I1403	Sequence:	S6I1511	Analyzed:	09/15/16 19:20
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	47.6	239	U
108-95-2	Phenol	164	47.6	239	J
111-44-4	bis(2-chloroethyl)ether	ND	47.6	239	U
95-57-8	2-Chlorophenol	ND	47.6	239	U
541-73-1	1,3-Dichlorobenzene	ND	47.6	239	U
106-46-7	1,4-Dichlorobenzene	ND UJ	47.6	239	U
100-51-6	Benzyl alcohol	ND	47.6	239	U
95-50-1	1,2-Dichlorobenzene	ND	47.6	239	U
95-48-7	2-Methylphenol	ND	47.6	239	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	47.6	239	U
106-44-5	3 & 4-Methylphenol	ND	47.6	239	U
621-64-7	N-Nitroso-di-n-propylamine	ND	47.6	239	U
67-72-1	Hexachloroethane	ND	47.6	239	U
98-95-3	Nitrobenzene	ND	47.6	239	U
78-59-1	Isophorone	ND	47.6	239	U
88-75-5	2-Nitrophenol	ND	47.6	239	U
105-67-9	2,4-Dimethylphenol	ND	47.6	239	U
65-85-0	Benzoic acid	ND	119	476	U
111-91-1	bis(2-chloroethoxy)methane	ND	47.6	239	U
120-83-2	2,4-Dichlorophenol	ND	47.6	239	U
120-82-1	1,2,4-Trichlorobenzene	ND UJ	47.6	239	U
91-20-3	Naphthalene	51.4	47.6	239	J
106-47-8	4-Chloroaniline	ND UJ	47.6	239	U
87-68-3	Hexachlorobutadiene	ND UJ	47.6	239	U
59-50-7	4-Chloro-3-methylphenol	ND	47.6	239	U

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-29
Lab Sample ID: 1601751-01
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:10	Prep Date:	09/14/16 05:36	Matrix:	Soil
Percent Solids:	70.00	Prep Method:	EPA 3550B GCMS	File ID:	F14302.D
Prep Batch:	B6I1403	Sequence:	S6I1511	Analyzed:	09/15/16 19:20
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	47.6	239	U
77-47-4	Hexachlorocyclopentadiene	ND	47.6	239	U
88-06-2	2,4,6-Trichlorophenol	ND	47.6	239	U
95-95-4	2,4,5-Trichlorophenol	ND	47.6	239	U
91-58-7	2-Chloronaphthalene	ND	47.6	239	U
88-74-4	2-Nitroaniline	ND	47.6	239	U
131-11-3	Dimethylphthalate	ND	47.6	239	U
208-96-8	Acenaphthylene	ND	47.6	239	U
99-09-2	3-Nitroaniline	ND	47.6	239	U
83-32-9	Acenaphthene	79.5	47.6	239	J
51-28-5	2,4-Dinitrophenol	ND	47.6	476	U
100-02-7	4-Nitrophenol	ND	47.6	239	U
132-64-9	Dibenzofuran	ND	47.6	239	U
606-20-2	2,6-Dinitrotoluene	ND	47.6	239	U
121-14-2	2,4-Dinitrotoluene	ND	47.6	239	U
84-66-2	Diethyl phthalate	ND	47.6	239	U
7005-72-3	4-Chlorophenyl-phenylether	ND	47.6	239	U
86-73-7	Fluorene	72.4	47.6	239	J
100-01-6	4-Nitroaniline	ND	47.6	239	U
534-52-1	4,6-Dinitro-2-methylphenol	ND UJ	47.6	239	U
86-30-6	N-Nitrosodiphenylamine	ND	47.6	239	U
101-55-3	4-Bromophenyl-phenylether	ND	47.6	239	U
118-74-1	Hexachlorobenzene	ND	47.6	239	U
87-86-5	Pentachlorophenol	ND	47.6	239	U
85-01-8	Phenanthrene	1020	47.6	239	

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-29
Lab Sample ID: 1601751-01
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:10	Prep Date:	09/14/16 05:36	Matrix:	Soil
Percent Solids:	70.00	Prep Method:	EPA 3550B GCMS	File ID:	F14302.D
Prep Batch:	B6I1403	Sequence:	S6I1511	Analyzed:	09/15/16 19:20
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	135	47.6	239	J
84-74-2	Di-n-butyl phthalate	ND	47.6	239	U
206-44-0	Fluoranthene	1150	47.6	239	
129-00-0	Pyrene	933	47.6	239	
85-68-7	Butylbenzylphthalate	ND	47.6	239	U
91-94-1	3,3'-Dichlorobenzidine	ND	119	239	U
56-55-3	Benzo[a]anthracene	420	47.6	239	
117-81-7	bis(2-ethylhexyl)phthalate	142	47.6	239	J
218-01-9	Chrysene	486	47.6	239	
117-84-0	Di-n-octyl phthalate	ND	47.6	239	U
205-99-2	Benzo[b]fluoranthene	525	47.6	239	
207-08-9	Benzo[k]fluoranthene	189	47.6	239	J
50-32-8	Benzo[a]pyrene	387	47.6	239	
193-39-5	Indeno(1,2,3-cd)pyrene	200	47.6	239	J
53-70-3	Dibenzo(a,h)anthracene	55.2	47.6	239	J
191-24-2	Benzo[ghi]perylene	212	47.6	239	J

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	38%		30-130
Phenol-d5	51%		30-130
Nitrobenzene-d5	53%		30-130
2-Fluorobiphenyl	54%		30-130
2,4,6-Tribromophenol	10%	*	30-130
Terphenyl-d14	87%		30-130

MMP 10/28/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-30
Lab Sample ID: 1601751-02
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:25	Prep Date:	09/14/16 05:36	Matrix:	Soil
Percent Solids:	74.50	Prep Method:	EPA 3550B GCMS	File ID:	F14303.D
Prep Batch:	B6I1403	Sequence:	S6I1511	Analyzed:	09/15/16 20:06
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	44.7	224	U
108-95-2	Phenol	ND	44.7	224	U
111-44-4	bis(2-chloroethyl)ether	ND	44.7	224	U
95-57-8	2-Chlorophenol	ND	44.7	224	U
541-73-1	1,3-Dichlorobenzene	ND	44.7	224	U
106-46-7	1,4-Dichlorobenzene	ND uJ	44.7	224	U
100-51-6	Benzyl alcohol	ND	44.7	224	U
95-50-1	1,2-Dichlorobenzene	ND	44.7	224	U
95-48-7	2-Methylphenol	ND	44.7	224	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	44.7	224	U
106-44-5	3 & 4-Methylphenol	ND	44.7	224	U
621-64-7	N-Nitroso-di-n-propylamine	ND	44.7	224	U
67-72-1	Hexachloroethane	ND	44.7	224	U
98-95-3	Nitrobenzene	ND	44.7	224	U
78-59-1	Isophorone	ND	44.7	224	U
88-75-5	2-Nitrophenol	ND	44.7	224	U
105-67-9	2,4-Dimethylphenol	ND	44.7	224	U
65-85-0	Benzoic acid	ND	111	447	U
111-91-1	bis(2-chloroethoxy)methane	ND	44.7	224	U
120-83-2	2,4-Dichlorophenol	ND	44.7	224	U
120-82-1	1,2,4-Trichlorobenzene	ND uJ	44.7	224	U
91-20-3	Naphthalene	ND	44.7	224	U
106-47-8	4-Chloroaniline	ND uJ	44.7	224	U
87-68-3	Hexachlorobutadiene	ND uJ	44.7	224	U
59-50-7	4-Chloro-3-methylphenol	ND	44.7	224	U

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-30
Lab Sample ID: 1601751-02
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:25	Prep Date:	09/14/16 05:36	Matrix:	Soil
Percent Solids:	74.50	Prep Method:	EPA 3550B GCMS	File ID:	F14303.D
Prep Batch:	B6I1403	Sequence:	S6I1511	Analyzed:	09/15/16 20:06
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	44.7	224	U
77-47-4	Hexachlorocyclopentadiene	ND	44.7	224	U
88-06-2	2,4,6-Trichlorophenol	ND	44.7	224	U
95-95-4	2,4,5-Trichlorophenol	ND	44.7	224	U
91-58-7	2-Chloronaphthalene	ND	44.7	224	U
88-74-4	2-Nitroaniline	ND	44.7	224	U
131-11-3	Dimethylphthalate	ND	44.7	224	U
208-96-8	Acenaphthylene	ND	44.7	224	U
99-09-2	3-Nitroaniline	ND	44.7	224	U
83-32-9	Acenaphthene	ND	44.7	224	U
51-28-5	2,4-Dinitrophenol	ND	44.7	447	U
100-02-7	4-Nitrophenol	ND	44.7	224	U
132-64-9	Dibenzofuran	ND	44.7	224	U
606-20-2	2,6-Dinitrotoluene	ND	44.7	224	U
121-14-2	2,4-Dinitrotoluene	ND	44.7	224	U
84-66-2	Diethyl phthalate	ND	44.7	224	U
7005-72-3	4-Chlorophenyl-phenylether	ND	44.7	224	U
86-73-7	Fluorene	ND	44.7	224	U
100-01-6	4-Nitroaniline	ND	44.7	224	U
534-52-1	4,6-Dinitro-2-methylphenol	ND UJ	44.7	224	U
86-30-6	N-Nitrosodiphenylamine	ND	44.7	224	U
101-55-3	4-Bromophenyl-phenylether	ND	44.7	224	U
118-74-1	Hexachlorobenzene	ND	44.7	224	U
87-86-5	Pentachlorophenol	ND	44.7	224	U
85-01-8	Phenanthrene	236	44.7	224	

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-30
Lab Sample ID: 1601751-02
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:25	Prep Date:	09/14/16 05:36	Matrix:	Soil
Percent Solids:	74.50	Prep Method:	EPA 3550B GCMS	File ID:	F14303.D
Prep Batch:	B6I1403	Sequence:	S6I1511	Analyzed:	09/15/16 20:06
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	57.7	44.7	224	J
84-74-2	Di-n-butyl phthalate	ND	44.7	224	U
206-44-0	Fluoranthene	386	44.7	224	
129-00-0	Pyrene	376	44.7	224	
85-68-7	Butylbenzylphthalate	ND	44.7	224	U
91-94-1	3,3'-Dichlorobenzidine	ND	111	224	U
56-55-3	Benzo[a]anthracene	190	44.7	224	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	44.7	224	U
218-01-9	Chrysene	197	44.7	224	J
117-84-0	Di-n-octyl phthalate	ND	44.7	224	U
205-99-2	Benzo[b]fluoranthene	211	44.7	224	J
207-08-9	Benzo[k]fluoranthene	83.7	44.7	224	J
50-32-8	Benzo[a]pyrene	178	44.7	224	J
193-39-5	Indeno(1,2,3-cd)pyrene	81.4	44.7	224	J
53-70-3	Dibenzo(a,h)anthracene	ND	44.7	224	U
191-24-2	Benzo[ghi]perylene	88.6	44.7	224	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	79%	30-130
Phenol-d5	80%	30-130
Nitrobenzene-d5	79%	30-130
2-Fluorobiphenyl	79%	30-130
2,4,6-Tribromophenol	80%	30-130
Terphenyl-d14	96%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-29
Lab Sample ID: 1601751-01
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:10	Prep Date:	09/14/16 05:34	Matrix:	Soil
Percent Solids:	70.00	Prep Method:	EPA 3550B	File ID:	A23092.D
Prep Batch:	B6I1402	Sequence:	S6I1402	Analyzed:	09/14/16 15:50
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.943	0.943	U
319-85-7	beta-BHC	ND	0.943	0.943	U
319-86-8	delta-BHC	ND	0.943	0.943	U
58-89-9	gamma-BHC [Lindane]	ND	0.943	0.943	U
76-44-8	Heptachlor	ND	0.943	0.943	U
309-00-2	Aldrin	ND	0.943	0.943	U
1024-57-3	Heptachlor Epoxide	ND	0.943	0.943	U
959-98-8	Endosulfan I	ND	0.943	0.943	U
60-57-1	Dieldrin	ND	1.90	1.90	U
72-55-9	4,4'-DDE	ND	1.90	1.90	U
72-20-8	Endrin	ND	1.90	1.90	U
33213-65-9	Endosulfan II	ND	1.90	1.90	U
72-54-8	4,4'-DDD	ND	1.90	1.90	U
1031-07-8	Endosulfan sulfate	ND	1.90	1.90	U
50-29-3	4,4'-DDT	ND	1.90	1.90	U
72-43-5	Methoxychlor	ND	2.86	9.51	U
53494-70-5	Endrin ketone	ND	1.90	1.90	U
7421-93-4	Endrin aldehyde	ND	1.90	1.90	U
5103-71-9	alpha-Chlordane	ND	0.943	0.943	U
5566-34-7	gamma-Chlordane	ND	0.943	0.943	U
8001-35-2	Toxaphene	ND	47.6	47.6	U
12674-11-2	Aroclor-1016	ND	23.7	47.6	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-29
Lab Sample ID: 1601751-01
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:10	Prep Date:	09/14/16 05:34	Matrix:	Soil
Percent Solids:	70.00	Prep Method:	EPA 3550B	File ID:	A23092.D
Prep Batch:	B6I1402	Sequence:	S6I1402	Analyzed:	09/14/16 15:50
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	23.7	47.6	U
11141-16-5	Aroclor-1232	ND	23.7	47.6	U
53469-21-9	Aroclor-1242	ND	23.7	47.6	U
12672-29-6	Aroclor-1248	ND	23.7	47.6	U
11097-69-1	Aroclor-1254	ND	23.7	47.6	U
11096-82-5	Aroclor-1260	ND	23.7	47.6	U
37324-23-5	Aroclor-1262	ND	23.7	47.6	U
11100-14-4	Aroclor-1268	ND	23.7	47.6	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	73.3%	30-150
Tetrachloro-m-xylene [2C]	85.8%	30-150
Decachlorobiphenyl	90.2%	30-150
Decachlorobiphenyl [2C]	115%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-30
Lab Sample ID: 1601751-02
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:25	Prep Date:	09/14/16 05:34	Matrix:	Soil
Percent Solids:	74.50	Prep Method:	EPA 3550B	File ID:	A23093.D
Prep Batch:	B6I1402	Sequence:	S6I1402	Analyzed:	09/14/16 16:19
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.886	0.886	U
319-85-7	beta-BHC	ND	0.886	0.886	U
319-86-8	delta-BHC	ND	0.886	0.886	U
58-89-9	gamma-BHC [Lindane]	ND	0.886	0.886	U
76-44-8	Heptachlor	ND	0.886	0.886	U
309-00-2	Aldrin	ND	0.886	0.886	U
1024-57-3	Heptachlor Epoxide	ND	0.886	0.886	U
959-98-8	Endosulfan I	ND	0.886	0.886	U
60-57-1	Dieldrin	ND	1.79	1.79	U
72-55-9	4,4'-DDE	ND	1.79	1.79	U
72-20-8	Endrin	ND	1.79	1.79	U
33213-65-9	Endosulfan II	ND	1.79	1.79	U
72-54-8	4,4'-DDD	ND	1.79	1.79	U
1031-07-8	Endosulfan sulfate	ND	1.79	1.79	U
50-29-3	4,4'-DDT	ND	1.79	1.79	U
72-43-5	Methoxychlor	ND	2.68	8.94	U
53494-70-5	Endrin ketone	ND	1.79	1.79	U
7421-93-4	Endrin aldehyde	ND	1.79	1.79	U
5103-71-9	alpha-Chlordane	ND	0.886	0.886	U
5566-34-7	gamma-Chlordane	ND	0.886	0.886	U
8001-35-2	Toxaphene	ND	44.7	44.7	U
12674-11-2	Aroclor-1016	ND	22.3	44.7	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-30
Lab Sample ID: 1601751-02
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:25	Prep Date:	09/14/16 05:34	Matrix:	Soil
Percent Solids:	74.50	Prep Method:	EPA 3550B	File ID:	A23093.D
Prep Batch:	B6I1402	Sequence:	S6I1402	Analyzed:	09/14/16 16:19
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	22.3	44.7	U
11141-16-5	Aroclor-1232	ND	22.3	44.7	U
53469-21-9	Aroclor-1242	ND	22.3	44.7	U
12672-29-6	Aroclor-1248	ND	22.3	44.7	U
11097-69-1	Aroclor-1254	ND	22.3	44.7	U
11096-82-5	Aroclor-1260	ND	22.3	44.7	U
37324-23-5	Aroclor-1262	ND	22.3	44.7	U
11100-14-4	Aroclor-1268	ND	22.3	44.7	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	72.6%	30-150
Tetrachloro-m-xylene [2C]	88.7%	30-150
Decachlorobiphenyl	86.2%	30-150
Decachlorobiphenyl [2C]	110%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-29
Lab Sample ID: 1601751-01
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:10	Matrix:	Soil
Percent Solids:	70.00	File ID:	091316C-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	9540	16.9	16.9	1		09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7439-97-6	Mercury	0.149	0.107	0.107	1		09/15/16 08:08	EPA 7471A	09/15/16 11:45 PRT	EPA 7471
7440-36-0	Antimony	ND	3.37	3.37	1	U	09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7440-38-2	Arsenic	4.18	0.843	0.843	1		09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7440-39-3	Barium	70.9	16.9	16.9	1		09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.421	0.421	1	U	09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7440-43-9	Cadmium	0.886	0.421	0.421	1		09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7440-70-2	Calcium	30600	527	527	25	D	09/13/16 14:59	EPA 3050B	09/14/16 11:22 LIT	EPA 6010
7440-47-3	Chromium	18.2	1.69	1.69	1		09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7440-48-4	Cobalt	7.75	4.21	4.21	1		09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7440-50-8	Copper	31.7	2.53	2.53	1		09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7439-89-6	Iron	17900 J	21.1	21.1	1		09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7439-92-1	Lead	65.6 J	0.843	0.843	1		09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7439-95-4	Magnesium	10900	42.1	42.1	1		09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7439-96-5	Manganese	307	1.69	1.69	1		09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7440-02-0	Nickel	15.6	3.37	3.37	1		09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7440-09-7	Potassium	1750	42.1	42.1	1		09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7782-49-2	Selenium	ND	3.37	3.37	1	U	09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7440-22-4	Silver	ND	0.421	0.421	1	U	09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7440-23-5	Sodium	355	42.1	42.1	1		09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7440-28-0	Thallium	ND	1.26	2.53	1	U	09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7440-62-2	Vanadium	23.6	4.21	4.21	1		09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010
7440-66-6	Zinc	74.5	5.06	5.06	1		09/13/16 14:59	EPA 3050B	09/13/16 19:26 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MXP 10/28/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-30
Lab Sample ID: 1601751-02
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:25	Matrix:	Soil
Percent Solids:	74.50	File ID:	091316C-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	8480	18.5	18.5	1		09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7439-97-6	Mercury	0.202	0.101	0.101	1		09/15/16 08:08	EPA 7471A	09/15/16 11:47 PRT	EPA 7471
7440-36-0	Antimony	ND	3.69	3.69	1	U	09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7440-38-2	Arsenic	2.52	0.923	0.923	1		09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7440-39-3	Barium	71.8	18.5	18.5	1		09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.461	0.461	1	U	09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7440-43-9	Cadmium	0.799	0.461	0.461	1		09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7440-70-2	Calcium	34900	577	577	25	D	09/13/16 14:59	EPA 3050B	09/14/16 11:27 LIT	EPA 6010
7440-47-3	Chromium	16.5	1.85	1.85	1		09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7440-48-4	Cobalt	7.69	4.61	4.61	1		09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7440-50-8	Copper	27.6	2.77	2.77	1		09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7439-89-6	Iron	16500 J	23.1	23.1	1		09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7439-92-1	Lead	73.6 J	0.923	0.923	1		09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7439-95-4	Magnesium	13700	46.1	46.1	1		09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7439-96-5	Manganese	363	1.85	1.85	1		09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7440-02-0	Nickel	14.2	3.69	3.69	1		09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7440-09-7	Potassium	1720	46.1	46.1	1		09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7782-49-2	Selenium	ND	3.69	3.69	1	U	09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7440-22-4	Silver	ND	0.461	0.461	1	U	09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7440-23-5	Sodium	311	46.1	46.1	1		09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7440-28-0	Thallium	ND	1.38	2.77	1	U	09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7440-62-2	Vanadium	24.3	4.61	4.61	1		09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010
7440-66-6	Zinc	68.9	5.54	5.54	1		09/13/16 14:59	EPA 3050B	09/13/16 19:31 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

mxp 10/28/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-29
Lab Sample ID: 1601751-01
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:10	Matrix:	Soil
Percent Solids:	70.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	18.2	1.18	1.18	1		09/13/16 15:42	[CALC]	09/14/16 17:12 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.86	2.86	1	U	09/13/16 15:42	SW 846 3060A	09/14/16 17:12 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.43	1.43	1	U	09/13/16 15:41	EPA 9010C	09/13/16 17:44 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	70.0	0.100	0.100	1		09/14/16 09:41	Percent Solids	09/15/16 10:45 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-30
Lab Sample ID: 1601751-02
Project: 255 E. 138th Street
Work Order: 1601751

Date Sampled:	09/13/16 12:25	Matrix:	Soil
Percent Solids:	74.50	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	16.5	1.37	1.37	1		09/13/16 15:42	[CALC]	09/14/16 17:12 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.68	2.68	1	U	09/13/16 15:42	SW 846 3060A	09/14/16 17:12 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.34	1.34	1	U	09/13/16 15:41	EPA 9010C	09/13/16 17:44 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	74.5	0.100	0.100	1		09/14/16 09:41	Percent Solids	09/15/16 10:45 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601751
Project: 255 E. 138th Street

Matrix:	Solid	Laboratory ID:	B6I1313-BLK1	File ID:	A9443.D
Batch:	B6I1313	Prepared:	09/13/16 10:51	Analyzed:	09/13/16 10:51
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S6I1311	Instrument:	GC/MS A

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND	1.00	2.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	8.30	1.00	2.00	
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601751
Project: 255 E. 138th Street

Calibration:	16H2903	Instrument:	GC/MS A
		Calibration Date:	8/29/2016 7:56:55PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	5.094183E-02	5.902873		
Acrylonitrile	0.1167273	3.778378		
Acetone	0.1747694	41.54276		
Dichlorodifluoromethane	0.3620657	13.06906		
Chloromethane	0.6446193	7.262679	SPCC (0.1)	
Vinyl chloride	0.6338856	7.791452	CCC (20)	
Bromomethane	0.4973511	6.110204		
Chloroethane	0.2364184	7.428701		
Trichlorofluoromethane	0.6040865	8.703495		
Freon 113	0.5460094	4.513852		
1,1-Dichloroethene	0.8821578	4.055756	CCC (20)	
Carbon disulfide	2.237789	5.996131		
Methyl Acetate	0.2835279	13.47158		
Methylene Chloride	1.877848	96.62287		
trans-1,2-Dichloroethene	0.8991449	6.440984		
1,1-Dichloroethane	1.058622	6.387356	SPCC (0.1)	
Vinyl acetate	0.9809122	4.721133		
2,2-Dichloropropane	0.8359179	3.248966		
2-Butanone	0.1839178	13.22088		
cis-1,2-Dichloroethene	0.8114303	6.048788		
Chloroform	1.02525	3.40079	CCC (20)	
Bromochloromethane	0.3642218	7.373368		
Cyclohexane	0.9915085	4.912063		
1,1,1-Trichloroethane	0.8164359	3.315326		
t-Butyl alcohol	2.729559E-02	4.03008		

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1601751		
Project:	255 E. 138th Street		
Instrument ID:	GC/MS A	Calibration:	16H2903
Lab File ID:	A9441.D	Calibration Date:	08/29/16 19:56
Sequence:	S6I1311	Injection Date:	09/13/16
Lab Sample ID:	S6I1311-CCV1	Injection Time:	09:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	226	5.094183E-02	4.614942E-02		-9.4	
Acrylonitrile	A	250	247	0.1167273	0.1155399		-1.0	
Acetone	L	50.0	51.5	0.1747694	0.136721		-21.8	
Dichlorodifluoromethane	A	50.0	51.2	0.3620657	0.3710391		2.5	
Chloromethane	A	50.0	45.8	0.6446193	0.590445	0.1	-8.4	
Vinyl chloride	A	50.0	47.5	0.6338856	0.6021924		-5.0	20
Bromomethane	A	50.0	45.0	0.4973511	0.448048		-9.9	
Chloroethane	A	50.0	42.1	0.2364184	0.1992199		-15.7	
Trichlorofluoromethane	A	50.0	53.5	0.6040865	0.6460937		7.0	
Freon 113	A	50.0	60.0	0.5460094	0.6546736		19.9	
1,1-Dichloroethene	A	50.0	42.1	0.8821578	0.7427117		-15.8	20
Carbon disulfide	A	50.0	47.3	2.237789	2.116047		-5.4	
Methyl Acetate	A	50.0	42.4	0.2835279	0.2402429		-15.3	
Methylene Chloride	L	50.0	47.6	1.877848	0.9230704		-50.8	
trans-1,2-Dichloroethene	A	50.0	41.4	0.8991449	0.744518		-17.2	
1,1-Dichloroethane	A	50.0	41.1	1.058622	0.8705018	0.1	-17.8	
Vinyl acetate	A	50.0	48.6	0.9809122	0.9541295		-2.7	
2,2-Dichloropropane	A	50.0	46.6	0.8359179	0.7793432		-6.8	
2-Butanone	A	50.0	44.3	0.1839178	0.1629636		-11.4	
cis-1,2-Dichloroethene	A	50.0	42.7	0.8114303	0.6930335		-14.6	
Chloroform	A	50.0	42.5	1.02525	0.8712644		-15.0	20
Bromochloromethane	A	50.0	40.6	0.3642218	0.2959078		-18.8	
Cyclohexane	A	50.0	53.3	0.9915085	1.057388		6.6	

Accredited Analytical Resources, LLC.

SYSTEM MONITORING COMPOUND SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601751

Matrix: Solid
Instrument: GC/MS F

Lab Sample ID:	2FP (30% - 130%)	FBP (30% - 130%)	NBZ (30% - 130%)	PHL (30% - 130%)	TBP (30% - 130%)	TPH (30% - 130%)
1601751-01	38	54	53	51	10*	87
1601751-02	79	79	79	80	80	96
B6I1403-BLK1	76	71	78	78	71	95
B6I1403-BS1	80	74	81	83	72	87
B6I1403-MS1	77	75	81	80	84	91
B6I1403-MSD1	78	75	80	78	82	96

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-30

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601751

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6I1403	Prep Method:	EPA 3550B GCMS
Percent Solids:	74.50	Laboratory ID:	B6I1403-MS1
		Client Sample ID:	1601751-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Pyridine	2240	ND	870	39		20 - 160
N-Nitrosodimethylamine	2240	ND	1520	68		20 - 160
Aniline	2240	ND	1350	60		20 - 160
Phenol	2240	ND	1800	81		20 - 160
bis(2-chloroethyl)ether	2240	ND	1700	76		70 - 130
2-Chlorophenol	2240	ND	1700	76		70 - 130
1,3-Dichlorobenzene	2240	ND	1530	69	*	70 - 130
1,4-Dichlorobenzene	2240	ND	1540	69	*	70 - 130
Benzyl alcohol	2240	ND	1650	74		20 - 160
1,2-Dichlorobenzene	2240	ND	1550	69	*	70 - 130
2-Methylphenol	2240	ND	1670	75		20 - 160
bis(2-chloroisopropyl)ether	2240	ND	1600	71		70 - 130
3 & 4-Methylphenol	2240	ND	1720	77		20 - 160
N-Nitroso-di-n-propylamine	2240	ND	1580	71		70 - 130
Hexachloroethane	2240	ND	1280	57		20 - 160
Nitrobenzene	2240	ND	1660	74		70 - 130
Isophorone	2240	ND	1640	73		70 - 130
2-Nitrophenol	2240	ND	1590	71		70 - 130
2,4-Dimethylphenol	2240	ND	1590	71		70 - 130
bis(2-chloroethoxy)methane	2240	ND	1680	75		70 - 130
2,4-Dichlorophenol	2240	ND	1740	78		70 - 130
1,2,4-Trichlorobenzene	2240	ND	1580	71		70 - 130
Naphthalene	2240	ND	1620	72		70 - 130
4-Chloroaniline	2240	ND	795	36		20 - 160
Hexachlorobutadiene	2240	ND	1460	65	*	70 - 130
4-Chloro-3-methylphenol	2240	ND	1850	83		70 - 130
2-Methylnaphthylene	2240	ND	1680	75		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-30

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601751

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6I1403	Prep Method:	EPA 3550B GCMS
Percent Solids:	74.50	Laboratory ID:	B6I1403-MS1
		Client Sample ID:	1601751-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Hexachlorocyclopentadiene	2240	ND	289	13	*	20 - 160
2,4,6-Trichlorophenol	2240	ND	1740	78		70 - 130
2,4,5-Trichlorophenol	2240	ND	1800	80		70 - 130
2-Chloronaphthalene	2240	ND	1710	76		70 - 130
2-Nitroaniline	2240	ND	1860	83		70 - 130
Dimethylphthalate	2240	ND	1670	75		70 - 130
Acenaphthylene	2240	ND	1830	82		70 - 130
3-Nitroaniline	2240	ND	1340	60	*	70 - 130
Acenaphthene	2240	ND	1790	80		70 - 130
2,4-Dinitrophenol	2240	ND	500	22		20 - 160
4-Nitrophenol	2240	ND	51.9	2	*	20 - 160
Dibenzofuran	2240	ND	1750	78		70 - 130
2,6-Dinitrotoluene	2240	ND	1740	78		70 - 130
2,4-Dinitrotoluene	2240	ND	1770	79		70 - 130
2,3,4,6-Tetrachlorophenol	2240	ND	1670	75		70 - 130
Diethyl phthalate	2240	ND	1680	75		70 - 130
4-Chlorophenyl-phenylether	2240	ND	1660	74		70 - 130
Fluorene	2240	ND	1790	80		70 - 130
4-Nitroaniline	2240	ND	1800	80		70 - 130
4,6-Dinitro-2-methylphenol	2240	ND	588	26	*	70 - 130
Carbazole	2240	ND	1950	87		70 - 130
N-Nitrosodiphenylamine	2240	ND	1730	77		20 - 160
Azobenzene	2240	ND	1950	87		70 - 130
4-Bromophenyl-phenylether	2240	ND	1710	76		70 - 130
Hexachlorobenzene	2240	ND	1700	76		70 - 130
Pentachlorophenol	2240	ND	1520	68		20 - 160
Phenanthrene	2240	236	2090	83		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-30

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601751

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6I1403	Prep Method:	EPA 3550B GCMS
Percent Solids:	74.50	Laboratory ID:	B6I1403-MS1
		Client Sample ID:	1601751-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Anthracene	2240	57.7	1910	83		70 - 130
Di-n-butyl phthalate	2240	ND	1710	76		70 - 130
Fluoranthene	2240	386	2470	93		70 - 130
Pyrene	2240	376	2540	97		70 - 130
Butylbenzylphthalate	2240	ND	1810	81		70 - 130
Benzo[a]anthracene	2240	190	2120	86		70 - 130
bis(2-ethylhexyl)phthalate	2240	ND	1790	80		70 - 130
Chrysene	2240	197	2170	88		70 - 130
Di-n-octyl phthalate	2240	ND	2930	131	*	70 - 130
Benzo[b]fluoranthene	2240	211	3020	126		70 - 130
Benzo[k]fluoranthene	2240	83.7	2180	94		70 - 130
Benzo[a]pyrene	2240	178	2290	95		70 - 130
Indeno(1,2,3-cd)pyrene	2240	81.4	1020	42	*	70 - 130
Dibenzo(a,h)anthracene	2240	ND	1020	46	*	70 - 130
Benzo[ghi]perylene	2240	88.6	838	33	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-30

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601751

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6I1403	Prep Method:	EPA 3550B GCMS
Percent Solids:	74.50	Laboratory ID:	B6I1403-MSD1
		Client Sample ID:	1601751-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Pyridine	2240	740	33	16	30	20 - 160
N-Nitrosodimethylamine	2240	1590	71	4	30	20 - 160
Aniline	2240	1360	61	0.8	30	20 - 160
Phenol	2240	1850	83	2	30	20 - 160
bis(2-chloroethyl)ether	2240	1760	78	3	30	70 - 130
2-Chlorophenol	2240	1750	78	3	30	70 - 130
1,3-Dichlorobenzene	2240	1560	70	2	30	70 - 130
1,4-Dichlorobenzene	2240	1570	70	2	30	70 - 130
Benzyl alcohol	2240	1680	75	2	30	20 - 160
1,2-Dichlorobenzene	2240	1600	71	3	30	70 - 130
2-Methylphenol	2240	1730	77	3	30	20 - 160
bis(2-chloroisopropyl)ether	2240	1660	74	4	30	70 - 130
3 & 4-Methylphenol	2240	1780	79	3	30	20 - 160
N-Nitroso-di-n-propylamine	2240	1640	73	4	30	70 - 130
Hexachloroethane	2240	1340	60	4	30	20 - 160
Nitrobenzene	2240	1690	76	2	30	70 - 130
Isophorone	2240	1690	76	3	30	70 - 130
2-Nitrophenol	2240	1610	72	1	30	70 - 130
2,4-Dimethylphenol	2240	1670	74	5	30	70 - 130
bis(2-chloroethoxy)methane	2240	1700	76	0.7	30	70 - 130
2,4-Dichlorophenol	2240	1800	80	3	30	70 - 130
1,2,4-Trichlorobenzene	2240	1610	72	1	30	70 - 130
Naphthalene	2240	1640	73	2	30	70 - 130
4-Chloroaniline	2240	888	40	11	30	20 - 160
Hexachlorobutadiene	2240	1510	67 *	3	30	70 - 130
4-Chloro-3-methylphenol	2240	1820	81	1	30	70 - 130
2-Methylnaphthylene	2240	1730	77	3	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-30

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601751

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6I1403	Prep Method:	EPA 3550B GCMS
Percent Solids:	74.50	Laboratory ID:	B6I1403-MSD1
		Client Sample ID:	1601751-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Hexachlorocyclopentadiene	2240	261	12	*	10	30	20 - 160
2,4,6-Trichlorophenol	2240	1770	79		2	30	70 - 130
2,4,5-Trichlorophenol	2240	1820	81		1	30	70 - 130
2-Chloronaphthalene	2240	1750	78		2	30	70 - 130
2-Nitroaniline	2240	1860	83		0.1	30	70 - 130
Dimethylphthalate	2240	1730	77		3	30	70 - 130
Acenaphthylene	2240	1850	83		1	30	70 - 130
3-Nitroaniline	2240	1370	61	*	2	30	70 - 130
Acenaphthene	2240	1810	81		1	30	70 - 130
2,4-Dinitrophenol	2240	402	18	*	22	30	20 - 160
4-Nitrophenol	2240	54.1	2	*	4	30	20 - 160
Dibenzofuran	2240	1760	79		0.4	30	70 - 130
2,6-Dinitrotoluene	2240	1700	76		2	30	70 - 130
2,4-Dinitrotoluene	2240	1770	79		0.2	30	70 - 130
2,3,4,6-Tetrachlorophenol	2240	1690	76		1	30	70 - 130
Diethyl phthalate	2240	1710	76		2	30	70 - 130
4-Chlorophenyl-phenylether	2240	1680	75		1	30	70 - 130
Fluorene	2240	1760	79		2	30	70 - 130
4-Nitroaniline	2240	1790	80		0.4	30	70 - 130
4,6-Dinitro-2-methylphenol	2240	451	20	*	27	30	70 - 130
Carbazole	2240	1910	86		2	30	70 - 130
N-Nitrosodiphenylamine	2240	1730	77		0	30	20 - 160
Azobenzene	2240	1950	87		0.2	30	70 - 130
4-Bromophenyl-phenylether	2240	1700	76		0.6	30	70 - 130
Hexachlorobenzene	2240	1720	77		1	30	70 - 130
Pentachlorophenol	2240	1500	67		2	30	20 - 160
Phenanthrene	2240	1920	75		9	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-30

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601751

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6I1403	Prep Method:	EPA 3550B GCMS
Percent Solids:	74.50	Laboratory ID:	B6I1403-MSD1
		Client Sample ID:	1601751-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
Anthracene	2240	1850	80		3		30	70 - 130
Di-n-butyl phthalate	2240	1700	76		0.6		30	70 - 130
Fluoranthene	2240	2180	80		13		30	70 - 130
Pyrene	2240	2460	93		3		30	70 - 130
Butylbenzylphthalate	2240	1950	87		8		30	70 - 130
Benzo[a]anthracene	2240	1960	79		8		30	70 - 130
bis(2-ethylhexyl)phthalate	2240	1910	86		7		30	70 - 130
Chrysene	2240	1980	80		9		30	70 - 130
Di-n-octyl phthalate	2240	3950	177	*	30	*	30	70 - 130
Benzo[b]fluoranthene	2240	2920	121		3		30	70 - 130
Benzo[k]fluoranthene	2240	2370	102		8		30	70 - 130
Benzo[a]pyrene	2240	2180	89		5		30	70 - 130
Indeno(1,2,3-cd)pyrene	2240	874	35	*	15		30	70 - 130
Dibenzo(a,h)anthracene	2240	915	41	*	11		30	70 - 130
Benzo[ghi]perylene	2240	719	28	*	15		30	70 - 130

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LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601751

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6I1403	Lab Sample ID:	B6I1403-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1090	65	20 - 160
N-Nitrosodimethylamine	1670	1260	76	20 - 160
Aniline	1670	1290	78	20 - 160
Phenol	1670	1470	88	20 - 160
bis(2-chloroethyl)ether	1670	1360	81	70 - 130
2-Chlorophenol	1670	1330	80	70 - 130
1,3-Dichlorobenzene	1670	1160	70	70 - 130
1,4-Dichlorobenzene	1670	1150	69 *	70 - 130
Benzyl alcohol	1670	1330	80	20 - 160
1,2-Dichlorobenzene	1670	1190	71	70 - 130
2-Methylphenol	1670	1360	81	20 - 160
bis(2-chloroisopropyl)ether	1670	1290	78	70 - 130
3 & 4-Methylphenol	1670	1390	83	20 - 160
N-Nitroso-di-n-propylamine	1670	1330	80	70 - 130
Hexachloroethane	1670	1200	72	20 - 160
Nitrobenzene	1670	1280	77	70 - 130
Isophorone	1670	1310	79	70 - 130
2-Nitrophenol	1670	1230	74	70 - 130
2,4-Dimethylphenol	1670	1280	77	70 - 130
bis(2-chloroethoxy)methane	1670	1330	80	70 - 130
2,4-Dichlorophenol	1670	1290	77	70 - 130
1,2,4-Trichlorobenzene	1670	1140	69	70 - 130
Naphthalene	1670	1210	73	70 - 130
4-Chloroaniline	1670	1010	61	70 - 130
Hexachlorobutadiene	1670	1060	64	70 - 130
4-Chloro-3-methylphenol	1670	1380	83	70 - 130
2-Methylnaphthylene	1670	1280	77	70 - 130
Hexachlorocyclopentadiene	1670	980	59	20 - 160

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601751

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6I1403	Lab Sample ID:	B6I1403-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2,4,6-Trichlorophenol	1670	1260	76	70 - 130
2,4,5-Trichlorophenol	1670	1240	75	70 - 130
2-Chloronaphthalene	1670	1260	75	70 - 130
2-Nitroaniline	1670	1380	83	70 - 130
Dimethylphthalate	1670	1370	82	70 - 130
Acenaphthylene	1670	1270	76	70 - 130
3-Nitroaniline	1670	1240	74	70 - 130
Acenaphthene	1670	1300	78	70 - 130
2,4-Dinitrophenol	1670	979	59	20 - 160
4-Nitrophenol	1670	1210	73	20 - 160
Dibenzofuran	1670	1270	76	70 - 130
2,6-Dinitrotoluene	1670	1330	80	70 - 130
2,4-Dinitrotoluene	1670	1330	80	70 - 130
2,3,4,6-Tetrachlorophenol	1670	1130	68 *	70 - 130
Diethyl phthalate	1670	1310	78	70 - 130
4-Chlorophenyl-phenylether	1670	1230	74	70 - 130
Fluorene	1670	1290	77	70 - 130
4-Nitroaniline	1670	1410	85	70 - 130
4,6-Dinitro-2-methylphenol	1670	1130	68 *	70 - 130
Carbazole	1670	1350	81	70 - 130
N-Nitrosodiphenylamine	1670	1320	79	20 - 160
Azobenzene	1670	1500	90	70 - 130
4-Bromophenyl-phenylether	1670	1270	76	70 - 130
Hexachlorobenzene	1670	1230	74	70 - 130
Pentachlorophenol	1670	888	53	20 - 160
Phenanthrene	1670	1290	78	70 - 130
Anthracene	1670	1290	78	70 - 130
Di-n-butyl phthalate	1670	1320	79	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601751

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6I1403	Lab Sample ID:	B6I1403-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Fluoranthene	1670	1300	78	70 - 130
Pyrene	1670	1390	84	70 - 130
Butylbenzylphthalate	1670	1410	84	70 - 130
Benzo[a]anthracene	1670	1300	78	70 - 130
bis(2-ethylhexyl)phthalate	1670	1350	81	70 - 130
Chrysene	1670	1350	81	70 - 130
Di-n-octyl phthalate	1670	1350	81	70 - 130
Benzo[b]fluoranthene	1670	1290	78	70 - 130
Benzo[k]fluoranthene	1670	1360	82	70 - 130
Benzo[a]pyrene	1670	1360	82	70 - 130
Indeno(1,2,3-cd)pyrene	1670	1410	85	70 - 130
Dibenzo(a,h)anthracene	1670	1430	86	70 - 130
Benzo[ghi]perylene	1670	1460	87	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1601751		
Project:	255 E. 138th Street		
Instrument ID:	GC/MS F	Calibration:	16H2202
Lab File ID:	F14294.D	Calibration Date:	08/15/16 15:46
Sequence:	S6I1511	Injection Date:	09/15/16
Lab Sample ID:	S6I1511-CCV1	Injection Time:	13:20

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	56.2	0.8886553	0.9986706		12.4	
N-Nitrosodimethylamine	A	50.0	56.0	0.6059328	0.6792287		12.1	
Benzaldehyde	A	50.0	56.8	0.1877297	0.2132868		13.6	
Aniline	A	50.0	51.4	2.01292	2.071474		2.9	
Phenol	A	50.0	54.7	1.710699	1.870587		9.3	20
bis(2-chloroethyl)ether	A	50.0	54.1	1.45391	1.572951		8.2	
2-Chlorophenol	A	50.0	50.6	1.440342	1.45885		1.3	
1,3-Dichlorobenzene	A	50.0	48.8	1.547319	1.508837		-2.5	
1,4-Dichlorobenzene	A	50.0	48.6	1.604884	1.55972		-2.8	20
Benzyl alcohol	A	50.0	52.2	1.121277	1.169676		4.3	
1,2-Dichlorobenzene	A	50.0	49.9	1.531773	1.528379		-0.2	
2-Methylphenol	A	50.0	51.8	1.315402	1.36173		3.5	
bis(2-chloroisopropyl)ether	A	50.0	51.9	1.557541	1.616483		3.8	
Acetophenone	A	50.0	49.4	1.896367	1.87283		-1.2	
3 & 4-Methylphenol	A	50.0	51.6	1.416771	1.462423		3.2	
N-Nitroso-di-n-propylamine	A	50.0	51.6	1.035407	1.069144	0.05	3.3	
Hexachloroethane	A	50.0	51.9	0.6304627	0.6539401		3.7	
Nitrobenzene	A	50.0	50.7	0.3433064	0.3482047		1.4	
Isophorone	A	50.0	50.1	0.7453566	0.7463631		0.1	
2-Nitrophenol	A	50.0	49.7	0.2295834	0.2283539		-0.5	20
2,4-Dimethylphenol	A	50.0	50.3	0.3583662	0.3602653		0.5	
Benzoic acid	L	50.0	54.2	0.1636113	0.2340252		43.0	
bis(2-chloroethoxy)methane	A	50.0	51.7	0.4552118	0.470992		3.5	

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 E. 138th Street
Work Order: 1601751

Matrix:	Solid	Prep Method:	EPA 3550B
Prep Batch:	B6I1402	Lab Sample ID:	B6I1402-BS1
Column:	1		

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
alpha-BHC	10.0	12.2	122	40 - 140
beta-BHC	10.0	10.4	104	40 - 140
delta-BHC	10.0	12.6	126	40 - 140
gamma-BHC [Lindane]	10.0	12.9	129	40 - 140
Heptachlor	10.0	12.4	124	40 - 140
Aldrin	10.0	11.6	116	40 - 140
Heptachlor Epoxide	10.0	11.9	119	40 - 140
Endosulfan I	10.0	9.63	96.3	40 - 140
Dieldrin	10.0	12.9	129	40 - 140
4,4'-DDE	10.0	11.9	119	40 - 140
Endrin	10.0	13.7	137	40 - 140
Endosulfan II	10.0	11.9	119	40 - 140
4,4'-DDD	10.0	12.7	127	40 - 140
Endosulfan sulfate	10.0	13.5	135	40 - 140
4,4'-DDT	10.0	12.7	127	40 - 140
Methoxychlor	10.0	14.8	148 *	40 - 140
Endrin ketone	10.0	12.9	129	40 - 140
Endrin aldehyde	10.0	12.8	128	40 - 140
alpha-Chlordane	10.0	12.8	128	40 - 140
gamma-Chlordane	10.0	11.5	115	40 - 140

Accredited Analytical Resources, LLC.

SERIAL DILUTION

EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1601751
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 E. 138th Street
Matrix:	Solid	Laboratory ID:	S6I1308-SRD1
Sequence:	S6I1308	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Lead	93.9	104	10.4	*	10.00
Antimony	ND	ND	N/A		10.00
Arsenic	4.16	ND	N/A		10.00
Barium	154	155	0.912		10.00
Beryllium	ND	ND	N/A		10.00
Cadmium	0.864	ND	N/A		10.00
Calcium	5630	5930	5.27		10.00
Chromium	30.3	31.4	3.59		10.00
Cobalt	16.5	ND	N/A		10.00
Aluminum	12300	12400	1.10		10.00
Iron	20400	22800	11.2	*	10.00
Zinc	147	160	8.28		10.00
Magnesium	3770	3900	3.36		10.00
Manganese	386	410	6.06		10.00
Nickel	17.2	ND	N/A		10.00
Potassium	1990	2010	1.11		10.00
Selenium	ND	ND	N/A		10.00
Silver	ND	ND	N/A		10.00
Sodium	187	ND	N/A		10.00
Thallium	ND	ND	N/A		10.00
Vanadium	36.7	36.8	0.407		10.00
Copper	32.6	34.6	5.83		10.00

* Values outside of QC limits

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1601783

1 Soil Sample

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

October 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1601783

The data associated with this Sample Delivery Group (SDG) 1601783, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. P. Date: 10/29/16
Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx, NY
SAMPLING DATE:	September 16, 2016
SAMPLE TYPE:	1 soil sample
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1601783

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one soil sample collected on September 16, 2016. This sample was analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1601783. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1601783, one sample was analyzed and results were reported for 191 analytes. Thirteen results were rejected. Even though some results were flagged with a "J" as estimated, all other results (93 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-31	All analytes	UJ non-detects J detects	Surr. BFB < 70 % QC limit	Sample are estimated
EP-31 EP-31RE	Acetone Methylene Chloride	J all data 10X MB value	Detected in the method blank	No data was affected
EP-31 EP-31RE	Acetone Methylene Chloride	J detects	ICV RPD > 20 %	Sample detects are estimated
EP-31 EP-31RE	Acetone Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-31 EP-31RE	All phenolic compounds	R non-detects and J detects	Surr. PHL < 30 % Surr. 2FP and TBP < 10 %	All non-detect phenolics are unusable, detects may be biased low. 13 analytes rejected.
EP-31 EP-31RE	2-Nitroanaline 4-Chloroaniline	"UJ"	LCS < 70 % QC limit	All samples non-detect
EP-31 EP-31RE	2,4 Dinitrophenol	J detects	ICAL > 40 %	See above

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-6 Wet Chemistry

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601783

Client Sample ID:	Lab Sample ID:
EP-31	1601783-01
EP-31	1601783-01RE1

This data has been reviewed and accepted by:

Daniel Miguel 10/14/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 09/16/2016 14:10.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B6I2013-MS1/MSD1 and B6I2307-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, three surrogates (2-Fluorophenol, Phenol-d5 and 2,4,6-Tribromophenol) were out of criteria. The sample was diluted and analyzed and the surrogates were again recovered out of the required criteria.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6I2101 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6I2101 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B6I1902-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered withn acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #:	732-223-2225
OFFICE FAX #:	732-223-3666
INITIAL RESULTS TO:	sharrison@brinkenv.com
EMAIL FOR INVOICE:	same

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1601783
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	Total TCL	Hex Chrom	Tri Chrom										AAR SAMPLE #
EP-31	9/16/16 10:20	S	15-15.5	4	G	X	X	X										-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME (CIRCLE ONE): STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSEC catagory B Data Deliverables. Hardcopy report due four (4) weeks from today.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: K. Munig	Print Name:	Print Name:
Signature: [signature]	Signature: K. Munig	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 9/16/16	Time: 1410	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/20/16 20:22	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9514.D
Prep Batch:	B6I2013	Sequence:	S6I2006	Analyzed:	09/20/16 20:22
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND UJ	25.1	41.9	U
107-13-1	Acrylonitrile	ND	8.37	41.9	U
67-64-1	Acetone	2290 J	4.19	8.37	B, E
75-71-8	Dichlorodifluoromethane	ND UJ	4.19	8.37	U
74-87-3	Chloromethane	ND	4.19	8.37	U
75-01-4	Vinyl chloride	ND	4.19	8.37	U
74-83-9	Bromomethane	ND	4.19	8.37	U
75-00-3	Chloroethane	ND	4.19	8.37	U
75-69-4	Trichlorofluoromethane	ND	4.19	8.37	U
75-35-4	1,1-Dichloroethene	ND	4.19	8.37	U
75-15-0	Carbon disulfide	35.8 J	4.19	8.37	
75-09-2	Methylene Chloride	ND UJ	4.19	8.37	U
156-60-5	trans-1,2-Dichloroethene	ND	4.19	8.37	U
75-34-3	1,1-Dichloroethane	ND	4.19	8.37	U
108-05-4	Vinyl acetate	ND	4.19	8.37	U
590-20-7	2,2-Dichloropropane	ND	4.19	8.37	U
78-93-3	2-Butanone	453	4.19	8.37	
156-59-4	cis-1,2-Dichloroethene	ND	4.19	8.37	U
67-66-3	Chloroform	ND	4.19	8.37	U
74-97-5	Bromochloromethane	ND	4.19	8.37	U
71-55-6	1,1,1-Trichloroethane	ND	4.19	8.37	U
563-58-6	1,1-Dichloropropene	ND	4.19	8.37	U
56-23-5	Carbon Tetrachloride	ND	4.19	8.37	U
107-06-2	1,2-Dichloroethane	ND	4.19	8.37	U
71-43-2	Benzene	ND	4.19	8.37	U

MKP 10/24/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/20/16 20:22	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9514.D
Prep Batch:	B6I2013	Sequence:	S6I2006	Analyzed:	09/20/16 20:22
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND UJ	4.19	8.37	U
78-87-5	1,2-Dichloropropane	ND	4.19	8.37	U
75-27-4	Bromodichloromethane	ND	4.19	8.37	U
74-95-3	Dibromomethane	ND	4.19	8.37	U
110-75-8	2-Chloroethyl vinyl ether	ND	4.19	8.37	U
10061-01-5	cis-1,3-Dichloropropene	ND	4.19	8.37	U
108-88-3	Toluene	5.19 J	4.19	8.37	J
10061-02-6	trans-1,3-Dichloropropene	ND UJ	4.19	8.37	U
79-00-5	1,1,2-Trichloroethane	ND	4.19	8.37	U
108-10-1	4-Methyl-2-pentanone	ND	4.19	8.37	U
106-93-4	1,2-Dibromoethane	ND	4.19	8.37	U
591-78-6	2-Hexanone	ND	4.19	8.37	U
142-28-9	1,3-Dichloropropane	ND	4.19	8.37	U
127-18-4	Tetrachloroethene	ND	4.19	8.37	U
124-48-1	Dibromochloromethane	ND	4.19	8.37	U
100-41-4	Ethylbenzene	5.74 J	4.19	8.37	J
108-90-7	Chlorobenzene	ND UJ	4.19	8.37	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.19	8.37	U
108-38-3/106-42	m,p-Xylenes	14.5 J	8.37	16.7	J
95-47-6	o-Xylene	ND UJ	8.37	16.7	U
100-42-5	Styrene	ND	4.19	16.7	U
75-25-2	Bromoform	ND	4.19	8.37	U
98-82-8	Isopropylbenzene	5.07 J	4.19	8.37	J
79-34-5	1,1,2,2-Tetrachloroethane	ND UJ	4.19	8.37	U
96-18-4	1,2,3-Trichloropropane	ND	4.19	8.37	U

 MXP 10/20/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/20/16 20:22	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9514.D
Prep Batch:	B6I2013	Sequence:	S6I2006	Analyzed:	09/20/16 20:22
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	7.75 J	4.19	8.37	J
108-86-1	Bromobenzene	ND UJ	4.19	8.37	U
108-67-8	1,3,5-Trimethylbenzene	8.46 J	4.19	8.37	
95-49-8	2-Chlorotoluene	ND UJ	4.19	8.37	U
106-43-4	4-Chlorotoluene	ND	4.19	8.37	U
98-06-6	tert-Butylbenzene	ND	4.19	8.37	U
95-63-6	1,2,4-Trimethylbenzene	36.0 J	4.19	8.37	
135-98-8	sec-Butylbenzene	7.66 J	4.19	8.37	J
99-87-6	p-Isopropyltoluene	ND UJ	4.19	8.37	U
541-73-1	1,3-Dichlorobenzene	ND	4.19	8.37	U
106-46-7	1,4-Dichlorobenzene	ND	4.19	8.37	U
104-51-8	n-Butyl Benzene	8.96 J	4.19	8.37	
95-50-1	1,2-Dichlorobenzene	ND UJ	4.19	8.37	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.19	8.37	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.19	8.37	U
87-68-3	Hexachlorobutadiene	ND	4.19	8.37	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.19	8.37	U

Surrogate	% Recovery		Recovery Limits
1,2-Dichloroethane-d4	98%		70-130
Toluene-d8	94%		70-130
Bromofluorobenzene	68%	*	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MMP 10/20/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/23/16 15:06	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9583.D
Prep Batch:	B6I2307	Sequence:	S6I2304	Analyzed:	09/23/16 15:06
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	502	837	U
107-13-1	Acrylonitrile	ND	167	837	U
67-64-1	Acetone	1950 J	83.7	167	D
75-71-8	Dichlorodifluoromethane	ND	83.7	167	U
74-87-3	Chloromethane	ND	83.7	167	U
75-01-4	Vinyl chloride	ND	83.7	167	U
74-83-9	Bromomethane	ND	83.7	167	U
75-00-3	Chloroethane	ND	83.7	167	U
75-69-4	Trichlorofluoromethane	ND	83.7	167	U
75-35-4	1,1-Dichloroethene	ND	83.7	167	U
75-15-0	Carbon disulfide	ND	83.7	167	U
75-09-2	Methylene Chloride	ND	83.7	167	U
156-60-5	trans-1,2-Dichloroethene	ND	83.7	167	U
75-34-3	1,1-Dichloroethane	ND	83.7	167	U
108-05-4	Vinyl acetate	ND	83.7	167	U
590-20-7	2,2-Dichloropropane	ND	83.7	167	U
78-93-3	2-Butanone	529	83.7	167	D
156-59-4	cis-1,2-Dichloroethene	ND	83.7	167	U
67-66-3	Chloroform	ND	83.7	167	U
74-97-5	Bromochloromethane	ND	83.7	167	U
71-55-6	1,1,1-Trichloroethane	ND	83.7	167	U
563-58-6	1,1-Dichloropropene	ND	83.7	167	U
56-23-5	Carbon Tetrachloride	ND	83.7	167	U
107-06-2	1,2-Dichloroethane	ND	83.7	167	U
71-43-2	Benzene	ND	83.7	167	U

 MKP 10/29/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/23/16 15:06	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9583.D
Prep Batch:	B6I2307	Sequence:	S6I2304	Analyzed:	09/23/16 15:06
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	83.7	167	U
78-87-5	1,2-Dichloropropane	ND	83.7	167	U
75-27-4	Bromodichloromethane	ND	83.7	167	U
74-95-3	Dibromomethane	ND	83.7	167	U
110-75-8	2-Chloroethyl vinyl ether	ND	83.7	167	U
10061-01-5	cis-1,3-Dichloropropene	ND	83.7	167	U
108-88-3	Toluene	ND	83.7	167	U
10061-02-6	trans-1,3-Dichloropropene	ND	83.7	167	U
79-00-5	1,1,2-Trichloroethane	ND	83.7	167	U
108-10-1	4-Methyl-2-pentanone	ND	83.7	167	U
106-93-4	1,2-Dibromoethane	ND	83.7	167	U
591-78-6	2-Hexanone	ND	83.7	167	U
142-28-9	1,3-Dichloropropane	ND	83.7	167	U
127-18-4	Tetrachloroethene	ND	83.7	167	U
124-48-1	Dibromochloromethane	ND	83.7	167	U
100-41-4	Ethylbenzene	ND	83.7	167	U
108-90-7	Chlorobenzene	ND	83.7	167	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	83.7	167	U
108-38-3/106-42	m,p-Xylenes	ND	167	335	U
95-47-6	o-Xylene	ND	167	335	U
100-42-5	Styrene	ND	83.7	335	U
75-25-2	Bromoform	ND	83.7	167	U
98-82-8	Isopropylbenzene	ND	83.7	167	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	83.7	167	U
96-18-4	1,2,3-Trichloropropane	ND	83.7	167	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/23/16 15:06	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9583.D
Prep Batch:	B6I2307	Sequence:	S6I2304	Analyzed:	09/23/16 15:06
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	83.7	167	U
108-86-1	Bromobenzene	ND	83.7	167	U
108-67-8	1,3,5-Trimethylbenzene	ND	83.7	167	U
95-49-8	2-Chlorotoluene	ND	83.7	167	U
106-43-4	4-Chlorotoluene	ND	83.7	167	U
98-06-6	tert-Butylbenzene	ND	83.7	167	U
95-63-6	1,2,4-Trimethylbenzene	ND	83.7	167	U
135-98-8	sec-Butylbenzene	ND	83.7	167	U
99-87-6	p-Isopropyltoluene	ND	83.7	167	U
541-73-1	1,3-Dichlorobenzene	ND	83.7	167	U
106-46-7	1,4-Dichlorobenzene	ND	83.7	167	U
104-51-8	n-Butyl Benzene	ND	83.7	167	U
95-50-1	1,2-Dichlorobenzene	ND	83.7	167	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	83.7	167	U
120-82-1	1,2,4-Trichlorobenzene	ND	83.7	167	U
87-68-3	Hexachlorobutadiene	ND	83.7	167	U
87-61-6	1,2,3-Trichlorobenzene	ND	83.7	167	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	95%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	102%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11195.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 20:33
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	89.5	449	U
108-95-2	Phenol	~~ND~~ R	89.5	449	U
111-44-4	bis(2-chloroethyl)ether	ND	89.5	449	U
95-57-8	2-Chlorophenol	~~ND~~ R	89.5	449	U
541-73-1	1,3-Dichlorobenzene	ND	89.5	449	U
106-46-7	1,4-Dichlorobenzene	ND	89.5	449	U
100-51-6	Benzyl alcohol	ND	89.5	449	U
95-50-1	1,2-Dichlorobenzene	ND	89.5	449	U
95-48-7	2-Methylphenol	~~ND~~ R	89.5	449	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	89.5	449	U
106-44-5	3 & 4-Methylphenol	254 J	89.5	449	J
621-64-7	N-Nitroso-di-n-propylamine	ND	89.5	449	U
67-72-1	Hexachloroethane	ND	89.5	449	U
98-95-3	Nitrobenzene	ND	89.5	449	U
78-59-1	Isophorone	ND	89.5	449	U
88-75-5	2-Nitrophenol	~~ND~~ R	89.5	449	U
105-67-9	2,4-Dimethylphenol	~~ND~~ R	89.5	449	U
65-85-0	Benzoic acid	ND	223	895	U
111-91-1	bis(2-chloroethoxy)methane	ND	89.5	449	U
120-83-2	2,4-Dichlorophenol	~~ND~~ R	89.5	449	U
120-82-1	1,2,4-Trichlorobenzene	ND	89.5	449	U
91-20-3	Naphthalene	ND	89.5	449	U
106-47-8	4-Chloroaniline	ND	89.5	449	U
87-68-3	Hexachlorobutadiene	ND	89.5	449	U
59-50-7	4-Chloro-3-methylphenol	~~ND~~ R	89.5	449	U

MKP 10/29/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11195.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 20:33
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	89.5	449	U
77-47-4	Hexachlorocyclopentadiene	ND	89.5	449	U
88-06-2	2,4,6-Trichlorophenol	~~ND~~ R	89.5	449	U
95-95-4	2,4,5-Trichlorophenol	~~ND~~ R	89.5	449	U
91-58-7	2-Chloronaphthalene	ND	89.5	449	U
88-74-4	2-Nitroaniline	ND	89.5	449	U
131-11-3	Dimethylphthalate	ND	89.5	449	U
208-96-8	Acenaphthylene	ND	89.5	449	U
99-09-2	3-Nitroaniline	ND	89.5	449	U
83-32-9	Acenaphthene	ND	89.5	449	U
51-28-5	2,4-Dinitrophenol	~~ND~~ R	89.5	895	U
100-02-7	4-Nitrophenol	~~ND~~ R	89.5	449	U
132-64-9	Dibenzofuran	ND	89.5	449	U
606-20-2	2,6-Dinitrotoluene	ND	89.5	449	U
121-14-2	2,4-Dinitrotoluene	ND	89.5	449	U
84-66-2	Diethyl phthalate	ND	89.5	449	U
7005-72-3	4-Chlorophenyl-phenylether	ND	89.5	449	U
86-73-7	Fluorene	ND	89.5	449	U
100-01-6	4-Nitroaniline	ND	89.5	449	U
534-52-1	4,6-Dinitro-2-methylphenol	~~ND~~ R	89.5	449	U
86-30-6	N-Nitrosodiphenylamine	ND	89.5	449	U
101-55-3	4-Bromophenyl-phenylether	ND	89.5	449	U
118-74-1	Hexachlorobenzene	ND	89.5	449	U
87-86-5	Pentachlorophenol	~~ND~~ R	89.5	449	U
85-01-8	Phenanthrene	505	89.5	449	

MKP 10/29/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11195.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 20:33
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	127	89.5	449	J
84-74-2	Di-n-butyl phthalate	ND	89.5	449	U
206-44-0	Fluoranthene	980	89.5	449	
129-00-0	Pyrene	814	89.5	449	
85-68-7	Butylbenzylphthalate	ND	89.5	449	U
91-94-1	3,3'-Dichlorobenzidine	ND	223	449	U
56-55-3	Benzo[a]anthracene	453	89.5	449	
117-81-7	bis(2-ethylhexyl)phthalate	ND	89.5	449	U
218-01-9	Chrysene	483	89.5	449	
117-84-0	Di-n-octyl phthalate	ND	89.5	449	U
205-99-2	Benzo[b]fluoranthene	537	89.5	449	
207-08-9	Benzo[k]fluoranthene	244	89.5	449	J
50-32-8	Benzo[a]pyrene	487	89.5	449	
193-39-5	Indeno(1,2,3-cd)pyrene	308	89.5	449	J
53-70-3	Dibenzo(a,h)anthracene	ND	89.5	449	U
191-24-2	Benzo[ghi]perylene	371	89.5	449	J

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	0.9%	*	30-130
Phenol-d5	11%	*	30-130
Nitrobenzene-d5	98%		30-130
2-Fluorobiphenyl	84%		30-130
2,4,6-Tribromophenol	0.8%	*	30-130
Terphenyl-d14	83%		30-130

MKP 10/29/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11196.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 21:17
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	448	2240	U
108-95-2	Phenol	~~ND~~ R	448	2240	U
111-44-4	bis(2-chloroethyl)ether	ND	448	2240	U
95-57-8	2-Chlorophenol	~~ND~~ R	448	2240	U
541-73-1	1,3-Dichlorobenzene	ND	448	2240	U
106-46-7	1,4-Dichlorobenzene	ND	448	2240	U
100-51-6	Benzyl alcohol	ND	448	2240	U
95-50-1	1,2-Dichlorobenzene	ND	448	2240	U
95-48-7	2-Methylphenol	~~ND~~ R	448	2240	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	448	2240	U
106-44-5	3 & 4-Methylphenol	~~ND~~ R	448	2240	U
621-64-7	N-Nitroso-di-n-propylamine	ND	448	2240	U
67-72-1	Hexachloroethane	ND	448	2240	U
98-95-3	Nitrobenzene	ND	448	2240	U
78-59-1	Isophorone	ND	448	2240	U
88-75-5	2-Nitrophenol	~~ND~~ R	448	2240	U
105-67-9	2,4-Dimethylphenol	~~ND~~ R	448	2240	U
65-85-0	Benzoic acid	ND	1120	4480	U
111-91-1	bis(2-chloroethoxy)methane	ND	448	2240	U
120-83-2	2,4-Dichlorophenol	~~ND~~ R	448	2240	U
120-82-1	1,2,4-Trichlorobenzene	ND	448	2240	U
91-20-3	Naphthalene	ND	448	2240	U
106-47-8	4-Chloroaniline	ND	448	2240	U
87-68-3	Hexachlorobutadiene	ND	448	2240	U
59-50-7	4-Chloro-3-methylphenol	~~ND~~ R	448	2240	U

 MVP 10/24/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11196.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 21:17
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	448	2240	U
77-47-4	Hexachlorocyclopentadiene	ND	448	2240	U
88-06-2	2,4,6-Trichlorophenol	~~ND~~ R	448	2240	U
95-95-4	2,4,5-Trichlorophenol	~~ND~~ R	448	2240	U
91-58-7	2-Chloronaphthalene	ND	448	2240	U
88-74-4	2-Nitroaniline	ND	448	2240	U
131-11-3	Dimethylphthalate	ND	448	2240	U
208-96-8	Acenaphthylene	ND	448	2240	U
99-09-2	3-Nitroaniline	ND	448	2240	U
83-32-9	Acenaphthene	ND	448	2240	U
51-28-5	2,4-Dinitrophenol	~~ND~~ R	448	4480	U
100-02-7	4-Nitrophenol	~~ND~~ R	448	2240	U
132-64-9	Dibenzofuran	ND	448	2240	U
606-20-2	2,6-Dinitrotoluene	ND	448	2240	U
121-14-2	2,4-Dinitrotoluene	ND	448	2240	U
84-66-2	Diethyl phthalate	ND	448	2240	U
7005-72-3	4-Chlorophenyl-phenylether	ND	448	2240	U
86-73-7	Fluorene	ND	448	2240	U
100-01-6	4-Nitroaniline	ND	448	2240	U
534-52-1	4,6-Dinitro-2-methylphenol	~~ND~~ R	448	2240	U
86-30-6	N-Nitrosodiphenylamine	ND	448	2240	U
101-55-3	4-Bromophenyl-phenylether	ND	448	2240	U
118-74-1	Hexachlorobenzene	ND	448	2240	U
87-86-5	Pentachlorophenol	~~ND~~ R	448	2240	U
85-01-8	Phenanthrene	545	448	2240	J, D

 MVP 10/24/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11196.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 21:17
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	448	2240	U
84-74-2	Di-n-butyl phthalate	ND	448	2240	U
206-44-0	Fluoranthene	1070	448	2240	J, D
129-00-0	Pyrene	892	448	2240	J, D
85-68-7	Butylbenzylphthalate	ND	448	2240	U
91-94-1	3,3'-Dichlorobenzidine	ND	1120	2240	U
56-55-3	Benzo[a]anthracene	496	448	2240	J, D
117-81-7	bis(2-ethylhexyl)phthalate	ND	448	2240	U
218-01-9	Chrysene	552	448	2240	J, D
117-84-0	Di-n-octyl phthalate	ND	448	2240	U
205-99-2	Benzo[b]fluoranthene	603	448	2240	J, D
207-08-9	Benzo[k]fluoranthene	ND	448	2240	U
50-32-8	Benzo[a]pyrene	555	448	2240	J, D
193-39-5	Indeno(1,2,3-cd)pyrene	ND	448	2240	U
53-70-3	Dibenzo(a,h)anthracene	ND	448	2240	U
191-24-2	Benzo[ghi]perylene	ND	448	2240	U

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	0.9%	*	30-130
Phenol-d5	11%	*	30-130
Nitrobenzene-d5	102%		30-130
2-Fluorobiphenyl	98%		30-130
2,4,6-Tribromophenol	1%	*	30-130
Terphenyl-d14	100%		30-130

mkp 10/24/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/19/16 06:09	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B	File ID:	A23166.D
Prep Batch:	B6I1902	Sequence:	S6I1901	Analyzed:	09/19/16 18:24
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	1.77	1.77	U
319-85-7	beta-BHC	ND	1.77	1.77	U
319-86-8	delta-BHC	ND	1.77	1.77	U
58-89-9	gamma-BHC [Lindane]	ND	1.77	1.77	U
76-44-8	Heptachlor	ND	1.77	1.77	U
309-00-2	Aldrin	ND	1.77	1.77	U
1024-57-3	Heptachlor Epoxide	ND	1.77	1.77	U
959-98-8	Endosulfan I	ND	1.77	1.77	U
60-57-1	Dieldrin	ND	3.58	3.58	U
72-55-9	4,4'-DDE	ND	3.58	3.58	U
72-20-8	Endrin	ND	3.58	3.58	U
33213-65-9	Endosulfan II	ND	3.58	3.58	U
72-54-8	4,4'-DDD	ND	3.58	3.58	U
1031-07-8	Endosulfan sulfate	ND	3.58	3.58	U
50-29-3	4,4'-DDT	ND	3.58	3.58	U
72-43-5	Methoxychlor	ND	5.38	17.9	U
53494-70-5	Endrin ketone	ND	3.58	3.58	U
7421-93-4	Endrin aldehyde	ND	3.58	3.58	U
5103-71-9	alpha-Chlordane	ND	1.77	1.77	U
5566-34-7	gamma-Chlordane	ND	1.77	1.77	U
8001-35-2	Toxaphene	ND	89.5	89.5	U
12674-11-2	Aroclor-1016	ND	44.6	89.5	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/19/16 06:09	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B	File ID:	A23166.D
Prep Batch:	B6I1902	Sequence:	S6I1901	Analyzed:	09/19/16 18:24
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	44.6	89.5	U
11141-16-5	Aroclor-1232	ND	44.6	89.5	U
53469-21-9	Aroclor-1242	ND	44.6	89.5	U
12672-29-6	Aroclor-1248	ND	44.6	89.5	U
11097-69-1	Aroclor-1254	ND	44.6	89.5	U
11096-82-5	Aroclor-1260	ND	44.6	89.5	U
37324-23-5	Aroclor-1262	ND	44.6	89.5	U
11100-14-4	Aroclor-1268	ND	44.6	89.5	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	46.0%	30-150
Tetrachloro-m-xylene [2C]	56.3%	30-150
Decachlorobiphenyl	53.5%	30-150
Decachlorobiphenyl [2C]	73.1%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Matrix:	Soil
Percent Solids:	37.20	File ID:	092016B-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	14900	28.8	28.8	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7439-97-6	Mercury	ND	0.202	0.202	1	U	09/19/16 08:21	EPA 7471A	09/19/16 13:21 PRT	EPA 7471
7440-36-0	Antimony	ND	5.75	5.75	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-38-2	Arsenic	4.85	1.44	1.44	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-39-3	Barium	104	28.8	28.8	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.719	0.719	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-43-9	Cadmium	0.902	0.719	0.719	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-70-2	Calcium	132000	1800	1800	50	D	09/19/16 08:50	EPA 3050B	09/20/16 13:05 LIT	EPA 6010
7440-47-3	Chromium	61.1	2.88	2.88	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-48-4	Cobalt	8.69	7.19	7.19	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-50-8	Copper	35.2	4.31	4.31	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7439-89-6	Iron	18200	35.9	35.9	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7439-92-1	Lead	52.8	1.44	1.44	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7439-95-4	Magnesium	7880	71.9	71.9	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7439-96-5	Manganese	458	2.88	2.88	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-02-0	Nickel	21.1	5.75	5.75	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-09-7	Potassium	2020	71.9	71.9	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7782-49-2	Selenium	ND	5.75	5.75	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-22-4	Silver	ND	0.719	0.719	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-23-5	Sodium	753	71.9	71.9	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-28-0	Thallium	ND	2.16	4.31	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-62-2	Vanadium	46.6	7.19	7.19	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-66-6	Zinc	123	8.63	8.63	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Matrix:	Soil
Percent Solids:	37.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	61.1	1.07	1.07	1		09/20/16 12:37	[CALC]	09/22/16 08:15 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	5.38	5.38	1	U	09/20/16 12:37	SW 846 3060A	09/22/16 08:15 NNM	EPA 7196A
NA	Cyanide (total)	ND	2.69	2.69	1	U	09/22/16 09:32	EPA 9010C	09/22/16 16:12 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	37.2	0.100	0.100	1		09/19/16 11:59	Percent Solids	09/19/16 16:56 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

SYSTEM MONITORING COMPOUND SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601783

Matrix: Solid
Instrument: GC/MS A

Lab Sample ID:	1,2-DCE-d4 (70% - 130%)	BFB (70% - 130%)	TOL-d8 (70% - 130%)
1601783-01	98	68*	94
B6I2013-BLK1	108	98	97
B6I2013-BS1	109	105	98
B6I2013-MS1	121	90	95
B6I2013-MSD1	125	81	92

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601783
Project: 255 East 138th Street

Matrix:	Solid	Laboratory ID:	B6I2013-BLK1	File ID:	A9501.D
Batch:	B6I2013	Prepared:	09/20/16 12:26	Analyzed:	09/20/16 12:26
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S6I2006	Instrument:	GC/MS A

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	1.91	1.00	2.00	J
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	3.15	1.00	2.00	
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601783
Project: 255 East 138th Street

Calibration:	16H2903	Instrument:	GC/MS A
		Calibration Date:	8/29/2016 7:56:55PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	5.094183E-02	5.902873		
Acrylonitrile	0.1167273	3.778378		
Acetone	0.1747694	41.54276		
Dichlorodifluoromethane	0.3620657	13.06906		
Chloromethane	0.6446193	7.262679	SPCC (0.1)	
Vinyl chloride	0.6338856	7.791452	CCC (20)	
Bromomethane	0.4973511	6.110204		
Chloroethane	0.2364184	7.428701		
Trichlorofluoromethane	0.6040865	8.703495		
Freon 113	0.5460094	4.513852		
1,1-Dichloroethene	0.8821578	4.055756	CCC (20)	
Carbon disulfide	2.237789	5.996131		
Methyl Acetate	0.2835279	13.47158		
Methylene Chloride	1.877848	96.62287		
trans-1,2-Dichloroethene	0.8991449	6.440984		
1,1-Dichloroethane	1.058622	6.387356	SPCC (0.1)	
Vinyl acetate	0.9809122	4.721133		
2,2-Dichloropropane	0.8359179	3.248966		
2-Butanone	0.1839178	13.22088		
cis-1,2-Dichloroethene	0.8114303	6.048788		
Chloroform	1.02525	3.40079	CCC (20)	
Bromochloromethane	0.3642218	7.373368		
Cyclohexane	0.9915085	4.912063		
1,1,1-Trichloroethane	0.8164359	3.315326		
t-Butyl alcohol	2.729559E-02	4.03008		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601783
Project: 255 East 138th Street

Calibration:	16I2601	Instrument:	GC/MS A
		Calibration Date:	9/22/2016 2:34:38PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	5.351277E-02	3.266802		
Acrylonitrile	0.1259208	1.826369		
Acetone	0.15486	44.48451		
Dichlorodifluoromethane	0.499218	18.20399		
Chloromethane	0.8073298	8.718946	SPCC (0.1)	
Vinyl chloride	0.7694418	7.703534	CCC (20)	
Bromomethane	0.5686235	8.683739		
Chloroethane	0.2688624	7.617021		
Trichlorofluoromethane	0.6190958	14.38761		
Freon 113	0.6712929	3.935529		
1,1-Dichloroethene	0.7483666	3.886904	CCC (20)	
Carbon disulfide	2.187451	5.255553		
Methyl Acetate	0.2917014	12.91849		
Methylene Chloride	1.217577	76.2124		
trans-1,2-Dichloroethene	0.7800425	2.618897		
1,1-Dichloroethane	0.9053845	1.552322	SPCC (0.1)	
Vinyl acetate	0.9979671	2.328048		
2,2-Dichloropropane	0.6953845	1.781966		
2-Butanone	0.1759346	6.783492		
cis-1,2-Dichloroethene	0.6901689	3.64564		
Chloroform	0.8372235	3.891803	CCC (20)	
Bromochloromethane	0.2956708	3.201543		
Cyclohexane	1.170159	4.798114		
1,1,1-Trichloroethane	0.648608	1.888395		
t-Butyl alcohol	2.808784E-02	5.649641		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601783
Project: 255 East 138th Street

Calibration:	16I2601	Instrument:	GC/MS A
		Calibration Date:	9/22/2016 2:34:38PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
o-Xylene	1.269878	5.462766		
Styrene	1.004685	3.654105		
Bromoform	0.126804	12.77923	SPCC (0.1)	
Isopropylbenzene	3.577724	2.811909		
1,1,2,2-Tetrachloroethane	0.5674752	5.514581	SPCC (0.3)	
1,2,3-Trichloropropane	0.4067208	2.182686		
n-Propyl Benzene	4.507736	4.861344		
Bromobenzene	1.26774	2.283857		
1,3,5-Trimethylbenzene	2.70715	1.972619		
2-Chlorotoluene	2.418182	4.192353		
4-Chlorotoluene	2.495661	5.635875		
tert-Butylbenzene	2.362289	2.381115		
1,2,4-Trimethylbenzene	2.733594	2.861654		
sec-Butylbenzene	3.796163	4.092442		
p-Isopropyltoluene	3.018334	2.96632		
1,3-Dichlorobenzene	1.483864	2.832892		
1,4-Dichlorobenzene	1.461118	5.01866		
n-Butyl Benzene	3.153113	5.000167		
1,2-Dichlorobenzene	1.271064	4.206623		
1,2-Dibromo-3-chloropropane	7.382205E-02	31.5289		
1,2,4-Trichlorobenzene	0.8197279	7.165339		
Hexachlorobutadiene	0.3444627	5.335948		
Naphthalene	1.466261	5.928814		
1,2,3-Trichlorobenzene	0.6870029	8.746632		
Methyl tert-Butyl Ether	1.836288	2.60316		

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1601783		
Project:	255 East 138th Street		
Instrument ID:	GC/MS A	Calibration:	16H2903
Lab File ID:	A9499.D	Calibration Date:	08/29/16 19:56
Sequence:	S6I2006	Injection Date:	09/20/16
Lab Sample ID:	S6I2006-CCV1	Injection Time:	11:16

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	204	5.094183E-02	4.154578E-02		-18.4	
Acrylonitrile	A	250	217	0.1167273	0.1012674		-13.2	
Acetone	L	50.0	44.3	0.1747694	0.1189507		-31.9	
Dichlorodifluoromethane	A	50.0	53.8	0.3620657	0.3897551		7.6	
Chloromethane	A	50.0	46.2	0.6446193	0.5958817	0.1	-7.6	
Vinyl chloride	A	50.0	49.4	0.6338856	0.6265385		-1.2	20
Bromomethane	A	50.0	47.5	0.4973511	0.4723038		-5.0	
Chloroethane	A	50.0	44.2	0.2364184	0.2090451		-11.6	
Trichlorofluoromethane	A	50.0	57.4	0.6040865	0.6932233		14.8	
Freon 113	A	50.0	46.6	0.5460094	0.5087727		-6.8	
1,1-Dichloroethene	A	50.0	44.3	0.8821578	0.7823481		-11.3	20
Carbon disulfide	A	50.0	44.1	2.237789	1.971849		-11.9	
Methyl Acetate	A	50.0	36.8	0.2835279	0.2085684		-26.4	
Methylene Chloride	L	50.0	41.5	1.877848	0.8343156		-55.6	
trans-1,2-Dichloroethene	A	50.0	43.5	0.8991449	0.7814678		-13.1	
1,1-Dichloroethane	A	50.0	40.5	1.058622	0.8582316	0.1	-18.9	
Vinyl acetate	A	50.0	43.9	0.9809122	0.8603935		-12.3	
2,2-Dichloropropane	A	50.0	49.1	0.8359179	0.820917		-1.8	
2-Butanone	A	50.0	41.6	0.1839178	0.1528516		-16.9	
cis-1,2-Dichloroethene	A	50.0	43.0	0.8114303	0.6980734		-14.0	
Chloroform	A	50.0	43.6	1.02525	0.8945742		-12.7	20
Bromochloromethane	A	50.0	41.6	0.3642218	0.302786		-16.9	
Cyclohexane	A	50.0	43.2	0.9915085	0.8577375		-13.5	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1601783		
Project:	255 East 138th Street		
Instrument ID:	GC/MS A	Calibration:	16I2601
Lab File ID:	A9571.D	Calibration Date:	09/22/16 14:34
Sequence:	S6I2304	Injection Date:	09/23/16
Lab Sample ID:	S6I2304-CCV1	Injection Time:	08:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	218	5.351277E-02	4.672712E-02		-12.7	
Acrylonitrile	A	250	227	0.1259208	0.1144564		-9.1	
Acetone	L	50.0	44.5	0.15486	0.1096255		-29.2	
Dichlorodifluoromethane	L	50.0	54.4	0.499218	0.5210484		4.4	
Chloromethane	A	50.0	50.2	0.8073298	0.8111959	0.1	0.5	
Vinyl chloride	A	50.0	50.6	0.7694418	0.7782716		1.1	20
Bromomethane	A	50.0	48.8	0.5686235	0.5549373		-2.4	
Chloroethane	A	50.0	45.1	0.2688624	0.2425365		-9.8	
Trichlorofluoromethane	A	50.0	50.7	0.6190958	0.6277266		1.4	
Freon 113	A	50.0	44.5	0.6712929	0.5975678		-11.0	
1,1-Dichloroethene	A	50.0	43.0	0.7483666	0.644298		-13.9	20
Carbon disulfide	A	50.0	43.8	2.187451	1.916687		-12.4	
Methyl Acetate	A	50.0	40.7	0.2917014	0.2371886		-18.7	
Methylene Chloride	L	50.0	45.5	1.217577	0.6982724		-42.7	
trans-1,2-Dichloroethene	A	50.0	44.1	0.7800425	0.6875176		-11.9	
1,1-Dichloroethane	A	50.0	46.1	0.9053845	0.8343998	0.1	-7.8	
Vinyl acetate	A	50.0	45.7	0.9979671	0.9113644		-8.7	
2,2-Dichloropropane	A	50.0	47.2	0.6953845	0.656054		-5.7	
2-Butanone	A	50.0	42.6	0.1759346	0.1499239		-14.8	
cis-1,2-Dichloroethene	A	50.0	45.7	0.6901689	0.6307991		-8.6	
Chloroform	A	50.0	45.4	0.8372235	0.7599279		-9.2	20
Bromochloromethane	A	50.0	47.0	0.2956708	0.2780195		-6.0	
Cyclohexane	A	50.0	44.5	1.170159	1.041328		-11.0	

Accredited Analytical Resources, LLC.

SYSTEM MONITORING COMPOUND SUMMARY

EPA 8270

Client:	**BRINKERHOFF ENVIRONMENTAL**		
Project:	**255 East 138th Street**	Matrix:	Solid
Work Order:	**1601783**	Instrument:	GC/MS E

Lab Sample ID:	2FP (30% - 130%)	FBP (30% - 130%)	NBZ (30% - 130%)	PHL (30% - 130%)	TBP (30% - 130%)	TPH (30% - 130%)	
1601783-01	0.9*	84	98	11*	0.8*	83	- < 10 % - Ron-detects / J detects
1601783-01RE1	0.9*	98	102	11*	1*	100	- < 10% - R - non-detects / J detects
B6I2101-BLK1	97	85	97	99	82	107	
B6I2101-BS1	65	75	76	71	92	94	
B6I2101-MS1	68	72	69	71	73	195*	
B6I2101-MSD1	69	74	70	71	72	219*	

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1601783

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6I2101	Lab Sample ID:	B6I2101-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	960	58	20 - 160
N-Nitrosodimethylamine	1670	1190	72	20 - 160
Aniline	1670	1160	70	20 - 160
Phenol	1670	1290	78	20 - 160
bis(2-chloroethyl)ether	1670	1300	78	70 - 130
2-Chlorophenol	1670	1370	82	70 - 130
1,3-Dichlorobenzene	1670	1260	75	70 - 130
1,4-Dichlorobenzene	1670	1260	76	70 - 130
Benzyl alcohol	1670	1350	81	20 - 160
1,2-Dichlorobenzene	1670	1270	76	70 - 130
2-Methylphenol	1670	1340	80	20 - 160
bis(2-chloroisopropyl)ether	1670	1410	85	70 - 130
3 & 4-Methylphenol	1670	1440	86	20 - 160
N-Nitroso-di-n-propylamine	1670	1320	79	70 - 130
Hexachloroethane	1670	1320	79	20 - 160
Nitrobenzene	1670	1300	78	70 - 130
Isophorone	1670	1400	84	70 - 130
2-Nitrophenol	1670	1080	65 *	70 - 130
2,4-Dimethylphenol	1670	1300	78	70 - 130
bis(2-chloroethoxy)methane	1670	1380	83	70 - 130
2,4-Dichlorophenol	1670	1420	85	70 - 130
1,2,4-Trichlorobenzene	1670	1360	82	70 - 130
Naphthalene	1670	1330	80	70 - 130
4-Chloroaniline	1670	865	52 *	70 - 130
Hexachlorobutadiene	1670	1370	82	70 - 130
4-Chloro-3-methylphenol	1670	1410	85	70 - 130
2-Methylnaphthylene	1670	1360	82	70 - 130
Hexachlorocyclopentadiene	1670	1280	77	20 - 160

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601783
Project: 255 East 138th Street

Calibration:	16I2803	Instrument:	GC/MS E
		Calibration Date:	9/14/2016 3:40:46PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	1.014123	7.169767		
4-Chloroaniline	0.4402657	5.784603		
Hexachlorobutadiene	0.1464964	3.84209	CCC (20)	
Caprolactam	0.1709709	6.445732		
4-Chloro-3-methylphenol	0.2768656	2.695514	CCC (20)	
2-Methylnaphthylene	0.6891113	5.691868		
1,2,4,5-Tetrachlorobenzene	0.5149505	9.15819		
Hexachlorocyclopentadiene	0.2714654	5.752113	SPCC (0.05)	
2,4,6-Trichlorophenol	0.3723882	3.624578	CCC (20)	
2,4,5-Trichlorophenol	0.3753609	3.607611		
2-Chloronaphthalene	1.119885	10.07415		
1,1-Biphenyl	1.384107	13.65235		
2-Nitroaniline	0.315577	3.81697		
Dimethylphthalate	1.253171	7.026729		
Acenaphthylene	1.848672	8.44986		
3-Nitroaniline	0.3983313	2.923779		
Acenaphthene	1.122913	5.841823	CCC (20)	
2,4-Dinitrophenol	0.1466101	43.82366	SPCC (0.05)	
4-Nitrophenol	9.450922E-02	12.00512	SPCC (0.05)	
Dibenzofuran	1.533681	7.637788		
2,6-Dinitrotoluene	0.3239296	3.154134		
2,4-Dinitrotoluene	0.3991266	4.741015		
2,3,4,6-Tetrachlorophenol	0.2828779	3.529397		
Diethyl phthalate	1.215381	4.575979		
4-Chlorophenyl-phenylether	0.526632	7.91456		

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1602114

3 Soil Samples

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

December 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1602114

The data associated with this Sample Delivery Group (SDG) 1602114, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. P. Date: 12/17/16
Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx, NY
SAMPLING DATE:	November 7, 2016
SAMPLE TYPE:	3 soil samples
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1602114

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for three soil samples collected on November 7, 2016. These samples were analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1602114. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1602114, three samples were analyzed and results were reported for 573 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-32 DUP-1 RE	Acetone (3.67) Methylene Chloride (1.67)	J detects	Method Blank contamination	J detects up to 10X MB level
EP-32	2-Hexanone 1,3-Dichloropropane Tetrachloroethene Dibromochloromethane Ethylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane m.p-Xylene o-Xylene Styrene Bromoform Isopropylbenzene 1,12,2-Tetrachlorobenzene 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene 2-Chlorotoluene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butybenzene p-Isopropyltoluene 1,3-Dichlorobenzene	UJ non-detects J detects	IS #3 and #4 area < 50 % QC limit	Sample data is estimated

	1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene DBCP 1,2,4-Trichlorobenzene Hexachlorobutadiene 1,2,3-Trichlorbenzene			
EP-33 DUP-1	Acetone Methylene Chloride DBCP Dichlorodifluoromethane	J detects	ICV RPD > 20 %	Sample detects are estimated
EP-33 DUP-1	Acetone Methylene Chloride DBCP Dichlorodifluoromethane Hexachlorobutadiene	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated
EP-32 DUP-1 RE	Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated
EP-33 DUP-1 DUP-1 RE	All analytes	UJ non-detects J detects	Gross variation between sample, sample reanalysis and field duplicate	Samples are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	4-Chloroanailine	"UJ"	LCS < 70 % QC limit	All samples non-detect
All samples	2,4-Dinitrophenol	J detects	ICV > 40 %	All samples non-detect

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	Lead Potassium Sodium	J detects	Matrix Spike > 125 %	Data is estimated
All samples	Arsenic Cadmium	J detect	Serial dilution > 10 %	Data is estimated

Table 6-6 Wet Chemistry

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1602114

Client Sample ID:	Lab Sample ID:
EP-32	1602114-01
EP-33	1602114-02
EP-33	1602114-02RE1
DUP-1	1602114-03
DUP-1	1602114-03RE1

This data has been reviewed and accepted by:

Daniel Miguel 11/30/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

AAR Work Order:**1602114**

Accredited Analytical Resources, LLC received 3 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 11/07/2016 14:15.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the MDL level was elevated for AAR Sample #1602114-03 due to matrix interference.

In the Volatile Organic analyses, B6K1113-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6K0901 recovered outside control limits for certain analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6K0901 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B6K0902-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis, the MDL/RL for Selenium exceeds the NYDEC Unrestricted Soil Cleanup Criteria for AAR Sample #1602114-01 due to the high moisture content of the sample (% Solid: 27%).

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria due to matrix interference. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE): NJ (NY) PA

PROJECT NAME: 255 East 138th Street
CONTACT: Sean Harrison
OFFICE PHONE #: 732-223-2225
OFFICE FAX #: 732-223-3604
INITIAL RESULTS TO: Sean Harrison
EMAIL FOR INVOICE: sharrison@brinkerhoff.com

CLIENT NAME: Brinkerhoff Environmental
ADDRESS: 1805 Atlantic Ave
CITY: Manasquan
STATE: NJ
ZIP: 08736

AAR QUOTE #:
AAR WORK ORDER #: 1632114
P.O. #: 10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL / TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-32	11/7/16 1230	S	5.5-6.5	4	G	X	X	X	-01
EP-33	11/7/16 1215	S	1.5-2.0	4	G	X	X	X	-02
DUP-1	11/7/16 1220	S		4	G	X	X	X	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE

PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER ____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDES Catagory B Data Deliverables. Hard copy Report due (4) four weeks from today.

COOLER TEMP: 6°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 11/7/16	Time: 1416	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-32	1602114-01	Soil	11/07/2016 12:30	11/07/2016 14:15
EP-33	1602114-02	Soil	11/07/2016 12:15	11/07/2016 14:15
DUP-1	1602114-03	Soil	11/07/2016 12:20	11/07/2016 14:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/11/16 15:12	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 5035A	File ID:	A10263.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:12
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	33.2	55.3	U
107-13-1	Acrylonitrile	ND	11.1	55.3	U
67-64-1	Acetone	129	5.53	11.1	B
75-71-8	Dichlorodifluoromethane	ND	5.53	11.1	U
74-87-3	Chloromethane	ND	5.53	11.1	U
75-01-4	Vinyl chloride	ND	5.53	11.1	U
74-83-9	Bromomethane	ND	5.53	11.1	U
75-00-3	Chloroethane	ND	5.53	11.1	U
75-69-4	Trichlorofluoromethane	ND	5.53	11.1	U
75-35-4	1,1-Dichloroethene	ND	5.53	11.1	U
75-15-0	Carbon disulfide	ND	5.53	11.1	U
75-09-2	Methylene Chloride	ND UJ	5.53	11.1	U
156-60-5	trans-1,2-Dichloroethene	ND	5.53	11.1	U
75-34-3	1,1-Dichloroethane	ND	5.53	11.1	U
108-05-4	Vinyl acetate	ND	5.53	11.1	U
590-20-7	2,2-Dichloropropane	ND	5.53	11.1	U
78-93-3	2-Butanone	44.4	5.53	11.1	
156-59-4	cis-1,2-Dichloroethene	ND	5.53	11.1	U
67-66-3	Chloroform	ND	5.53	11.1	U
74-97-5	Bromochloromethane	ND	5.53	11.1	U
71-55-6	1,1,1-Trichloroethane	ND	5.53	11.1	U
563-58-6	1,1-Dichloropropene	ND	5.53	11.1	U
56-23-5	Carbon Tetrachloride	ND	5.53	11.1	U
107-06-2	1,2-Dichloroethane	ND	5.53	11.1	U
71-43-2	Benzene	ND	5.53	11.1	U

 MKP 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/11/16 15:12	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 5035A	File ID:	A10263.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:12
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	5.53	11.1	U
78-87-5	1,2-Dichloropropane	ND	5.53	11.1	U
75-27-4	Bromodichloromethane	ND	5.53	11.1	U
74-95-3	Dibromomethane	ND	5.53	11.1	U
110-75-8	2-Chloroethyl vinyl ether	ND	5.53	11.1	U
10061-01-5	cis-1,3-Dichloropropene	ND	5.53	11.1	U
108-88-3	Toluene	ND	5.53	11.1	U
10061-02-6	trans-1,3-Dichloropropene	ND	5.53	11.1	U
79-00-5	1,1,2-Trichloroethane	ND	5.53	11.1	U
108-10-1	4-Methyl-2-pentanone	ND	5.53	11.1	U
106-93-4	1,2-Dibromoethane	ND	5.53	11.1	U
591-78-6	2-Hexanone	ND	5.53	11.1	U
142-28-9	1,3-Dichloropropane	ND	5.53	11.1	U
127-18-4	Tetrachloroethene	ND	5.53	11.1	U
124-48-1	Dibromochloromethane	ND	5.53	11.1	U
100-41-4	Ethylbenzene	ND	5.53	11.1	U
108-90-7	Chlorobenzene	ND	5.53	11.1	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.53	11.1	U
108-38-3/106-42	m,p-Xylenes	ND	11.1	22.1	U
95-47-6	o-Xylene	ND	11.1	22.1	U
100-42-5	Styrene	ND	5.53	22.1	U
75-25-2	Bromoform	ND	5.53	11.1	U
98-82-8	Isopropylbenzene	ND	5.53	11.1	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.53	11.1	U
96-18-4	1,2,3-Trichloropropane	ND	5.53	11.1	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/11/16 15:12	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 5035A	File ID:	A10263.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:12
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND UJ	5.53	11.1	U
108-86-1	Bromobenzene	ND	5.53	11.1	U
108-67-8	1,3,5-Trimethylbenzene	ND	5.53	11.1	U
95-49-8	2-Chlorotoluene	ND	5.53	11.1	U
106-43-4	4-Chlorotoluene	ND	5.53	11.1	U
98-06-6	tert-Butylbenzene	ND	5.53	11.1	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.53	11.1	U
135-98-8	sec-Butylbenzene	ND	5.53	11.1	U
99-87-6	p-Isopropyltoluene	ND	5.53	11.1	U
541-73-1	1,3-Dichlorobenzene	ND	5.53	11.1	U
106-46-7	1,4-Dichlorobenzene	ND	5.53	11.1	U
104-51-8	n-Butyl Benzene	ND	5.53	11.1	U
95-50-1	1,2-Dichlorobenzene	ND	5.53	11.1	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.53	11.1	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.53	11.1	U
87-68-3	Hexachlorobutadiene	ND	5.53	11.1	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.53	11.1	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	114%	70-130
Toluene-d8	94%	70-130
Bromofluorobenzene	71%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

mwp 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/08/16 19:00	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 5035A	File ID:	A10230.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 19:00
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND UJ	5.88	9.80	U
107-13-1	Acrylonitrile	ND ↓	1.96	9.80	U
67-64-1	Acetone	21.4 J	0.980	1.96	
75-71-8	Dichlorodifluoromethane	ND UJ	0.980	1.96	U
74-87-3	Chloromethane	ND	0.980	1.96	U
75-01-4	Vinyl chloride	ND	0.980	1.96	U
74-83-9	Bromomethane	ND	0.980	1.96	U
75-00-3	Chloroethane	ND	0.980	1.96	U
75-69-4	Trichlorofluoromethane	ND	0.980	1.96	U
75-35-4	1,1-Dichloroethene	ND	0.980	1.96	U
75-15-0	Carbon disulfide	ND	0.980	1.96	U
75-09-2	Methylene Chloride	ND UJ	0.980	1.96	U
156-60-5	trans-1,2-Dichloroethene	ND	0.980	1.96	U
75-34-3	1,1-Dichloroethane	ND	0.980	1.96	U
108-05-4	Vinyl acetate	ND	0.980	1.96	U
590-20-7	2,2-Dichloropropane	ND	0.980	1.96	U
78-93-3	2-Butanone	ND	0.980	1.96	U
156-59-4	cis-1,2-Dichloroethene	ND	0.980	1.96	U
67-66-3	Chloroform	ND	0.980	1.96	U
74-97-5	Bromochloromethane	ND	0.980	1.96	U
71-55-6	1,1,1-Trichloroethane	ND	0.980	1.96	U
563-58-6	1,1-Dichloropropene	ND	0.980	1.96	U
56-23-5	Carbon Tetrachloride	ND	0.980	1.96	U
107-06-2	1,2-Dichloroethane	ND	0.980	1.96	U
71-43-2	Benzene	ND	0.980	1.96	U

 MW 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/08/16 19:00	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 5035A	File ID:	A10230.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 19:00
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND UJ	0.980	1.96	U
78-87-5	1,2-Dichloropropane	ND	0.980	1.96	U
75-27-4	Bromodichloromethane	ND	0.980	1.96	U
74-95-3	Dibromomethane	ND	0.980	1.96	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.980	1.96	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.980	1.96	U
108-88-3	Toluene	ND	0.980	1.96	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.980	1.96	U
79-00-5	1,1,2-Trichloroethane	ND	0.980	1.96	U
108-10-1	4-Methyl-2-pentanone	ND	0.980	1.96	U
106-93-4	1,2-Dibromoethane	ND	0.980	1.96	U
591-78-6	2-Hexanone	ND	0.980	1.96	U
142-28-9	1,3-Dichloropropane	ND	0.980	1.96	U
127-18-4	Tetrachloroethene	ND	0.980	1.96	U
124-48-1	Dibromochloromethane	ND	0.980	1.96	U
100-41-4	Ethylbenzene	13.0 J	0.980	1.96	
108-90-7	Chlorobenzene	ND UJ	0.980	1.96	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.980	1.96	U
108-38-3/106-42	m,p-Xylenes	ND	1.96	3.92	U
95-47-6	o-Xylene	ND	1.96	3.92	U
100-42-5	Styrene	ND	0.980	3.92	U
75-25-2	Bromoform	ND	0.980	1.96	U
98-82-8	Isopropylbenzene	37.3 J	0.980	1.96	
79-34-5	1,1,2,2-Tetrachloroethane	ND UJ	0.980	1.96	U
96-18-4	1,2,3-Trichloropropane	ND	0.980	1.96	U

 MMP 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/08/16 19:00	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 5035A	File ID:	A10230.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 19:00
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	103 J	0.980	1.96	
108-86-1	Bromobenzene	ND UJ	0.980	1.96	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.980	1.96	U
95-49-8	2-Chlorotoluene	ND	0.980	1.96	U
106-43-4	4-Chlorotoluene	ND	0.980	1.96	U
98-06-6	tert-Butylbenzene	ND	0.980	1.96	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.980	1.96	U
135-98-8	sec-Butylbenzene	ND	0.980	1.96	U
99-87-6	p-Isopropyltoluene	ND	0.980	1.96	U
541-73-1	1,3-Dichlorobenzene	ND	0.980	1.96	U
106-46-7	1,4-Dichlorobenzene	ND	0.980	1.96	U
104-51-8	n-Butyl Benzene	12.6 J	0.980	1.96	
95-50-1	1,2-Dichlorobenzene	ND UJ	0.980	1.96	U
96-12-8	1,2-Dibromo-3-chloropropane	ND UJ	0.980	1.96	U
120-82-1	1,2,4-Trichlorobenzene	ND UJ	0.980	1.96	U
87-68-3	Hexachlorobutadiene	ND UJ	0.980	1.96	U
87-61-6	1,2,3-Trichlorobenzene	ND UJ	0.980	1.96	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	87%	70-130
Toluene-d8	93%	70-130
Bromofluorobenzene	94%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MKP 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/08/16 20:03	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10232.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 20:03
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND UJ	137	229	U
107-13-1	Acrylonitrile	ND	45.8	229	U
67-64-1	Acetone	ND	22.9	45.8	U
75-71-8	Dichlorodifluoromethane	ND	22.9	45.8	U
74-87-3	Chloromethane	ND	22.9	45.8	U
75-01-4	Vinyl chloride	ND	22.9	45.8	U
74-83-9	Bromomethane	ND	22.9	45.8	U
75-00-3	Chloroethane	ND	22.9	45.8	U
75-69-4	Trichlorofluoromethane	ND	22.9	45.8	U
75-35-4	1,1-Dichloroethene	ND	22.9	45.8	U
75-15-0	Carbon disulfide	ND	22.9	45.8	U
75-09-2	Methylene Chloride	ND	22.9	45.8	U
156-60-5	trans-1,2-Dichloroethene	ND	22.9	45.8	U
75-34-3	1,1-Dichloroethane	ND	22.9	45.8	U
108-05-4	Vinyl acetate	ND	22.9	45.8	U
590-20-7	2,2-Dichloropropane	ND	22.9	45.8	U
78-93-3	2-Butanone	ND	22.9	45.8	U
156-59-4	cis-1,2-Dichloroethene	ND	22.9	45.8	U
67-66-3	Chloroform	ND	22.9	45.8	U
74-97-5	Bromochloromethane	ND	22.9	45.8	U
71-55-6	1,1,1-Trichloroethane	ND	22.9	45.8	U
563-58-6	1,1-Dichloropropene	ND	22.9	45.8	U
56-23-5	Carbon Tetrachloride	ND	22.9	45.8	U
107-06-2	1,2-Dichloroethane	ND	22.9	45.8	U
71-43-2	Benzene	ND	22.9	45.8	U

MMP 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/08/16 20:03	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10232.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 20:03
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND UJ	22.9	45.8	U
78-87-5	1,2-Dichloropropane	ND	22.9	45.8	U
75-27-4	Bromodichloromethane	ND	22.9	45.8	U
74-95-3	Dibromomethane	ND	22.9	45.8	U
110-75-8	2-Chloroethyl vinyl ether	ND	22.9	45.8	U
10061-01-5	cis-1,3-Dichloropropene	ND	22.9	45.8	U
108-88-3	Toluene	ND	22.9	45.8	U
10061-02-6	trans-1,3-Dichloropropene	ND	22.9	45.8	U
79-00-5	1,1,2-Trichloroethane	ND	22.9	45.8	U
108-10-1	4-Methyl-2-pentanone	ND	22.9	45.8	U
106-93-4	1,2-Dibromoethane	ND	22.9	45.8	U
591-78-6	2-Hexanone	ND	22.9	45.8	U
142-28-9	1,3-Dichloropropane	ND	22.9	45.8	U
127-18-4	Tetrachloroethene	ND	22.9	45.8	U
124-48-1	Dibromochloromethane	ND	22.9	45.8	U
100-41-4	Ethylbenzene	397 J	22.9	45.8	D
108-90-7	Chlorobenzene	ND UJ	22.9	45.8	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	22.9	45.8	U
108-38-3/106-42	m,p-Xylenes	ND	45.8	91.5	U
95-47-6	o-Xylene	ND	45.8	91.5	U
100-42-5	Styrene	ND	22.9	91.5	U
75-25-2	Bromoform	ND	22.9	45.8	U
98-82-8	Isopropylbenzene	1920 J	22.9	45.8	D
79-34-5	1,1,2,2-Tetrachloroethane	ND UJ	22.9	45.8	U
96-18-4	1,2,3-Trichloropropane	ND	22.9	45.8	U

 mkp 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/08/16 20:03	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10232.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 20:03
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	7150 J	22.9	45.8	D, E
108-86-1	Bromobenzene	ND UJ	22.9	45.8	U
108-67-8	1,3,5-Trimethylbenzene	117 J	22.9	45.8	D
95-49-8	2-Chlorotoluene	ND UJ	22.9	45.8	U
106-43-4	4-Chlorotoluene	ND	22.9	45.8	U
98-06-6	tert-Butylbenzene	ND	22.9	45.8	U
95-63-6	1,2,4-Trimethylbenzene	42.3 J	22.9	45.8	J, D
135-98-8	sec-Butylbenzene	1140 J	22.9	45.8	D
99-87-6	p-Isopropyltoluene	234 J	22.9	45.8	D
541-73-1	1,3-Dichlorobenzene	ND UJ	22.9	45.8	U
106-46-7	1,4-Dichlorobenzene	ND	22.9	45.8	U
104-51-8	n-Butyl Benzene	2770 J	22.9	45.8	D
95-50-1	1,2-Dichlorobenzene	ND UJ	22.9	45.8	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	22.9	45.8	U
120-82-1	1,2,4-Trichlorobenzene	ND	22.9	45.8	U
87-68-3	Hexachlorobutadiene	ND	22.9	45.8	U
87-61-6	1,2,3-Trichlorobenzene	ND	22.9	45.8	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	87%	70-130
Toluene-d8	91%	70-130
Bromofluorobenzene	106%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MEP P 11/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/11/16 15:43	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10264.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:43
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND UJ	686	1140	U
107-13-1	Acrylonitrile	ND	229	1140	U
67-64-1	Acetone	ND	114	229	U
75-71-8	Dichlorodifluoromethane	ND	114	229	U
74-87-3	Chloromethane	ND	114	229	U
75-01-4	Vinyl chloride	ND	114	229	U
74-83-9	Bromomethane	ND	114	229	U
75-00-3	Chloroethane	ND	114	229	U
75-69-4	Trichlorofluoromethane	ND	114	229	U
75-35-4	1,1-Dichloroethene	ND	114	229	U
75-15-0	Carbon disulfide	ND	114	229	U
75-09-2	Methylene Chloride	ND	114	229	U
156-60-5	trans-1,2-Dichloroethene	ND	114	229	U
75-34-3	1,1-Dichloroethane	ND	114	229	U
108-05-4	Vinyl acetate	ND	114	229	U
590-20-7	2,2-Dichloropropane	ND	114	229	U
78-93-3	2-Butanone	ND	114	229	U
156-59-4	cis-1,2-Dichloroethene	ND	114	229	U
67-66-3	Chloroform	ND	114	229	U
74-97-5	Bromochloromethane	ND	114	229	U
71-55-6	1,1,1-Trichloroethane	ND	114	229	U
563-58-6	1,1-Dichloropropene	ND	114	229	U
56-23-5	Carbon Tetrachloride	ND	114	229	U
107-06-2	1,2-Dichloroethane	ND	114	229	U
71-43-2	Benzene	ND	114	229	U

mxp 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/11/16 15:43	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10264.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:43
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND UJ	114	229	U
78-87-5	1,2-Dichloropropane	ND	114	229	U
75-27-4	Bromodichloromethane	ND	114	229	U
74-95-3	Dibromomethane	ND	114	229	U
110-75-8	2-Chloroethyl vinyl ether	ND	114	229	U
10061-01-5	cis-1,3-Dichloropropene	ND	114	229	U
108-88-3	Toluene	ND	114	229	U
10061-02-6	trans-1,3-Dichloropropene	ND	114	229	U
79-00-5	1,1,2-Trichloroethane	ND	114	229	U
108-10-1	4-Methyl-2-pentanone	ND	114	229	U
106-93-4	1,2-Dibromoethane	ND	114	229	U
591-78-6	2-Hexanone	ND	114	229	U
142-28-9	1,3-Dichloropropane	ND	114	229	U
127-18-4	Tetrachloroethene	ND	114	229	U
124-48-1	Dibromochloromethane	ND	114	229	U
100-41-4	Ethylbenzene	ND	114	229	U
108-90-7	Chlorobenzene	ND	114	229	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	114	229	U
108-38-3/106-42	m,p-Xylenes	ND	229	458	U
95-47-6	o-Xylene	ND	229	458	U
100-42-5	Styrene	ND	114	458	U
75-25-2	Bromoform	ND	114	229	U
98-82-8	Isopropylbenzene	ND	114	229	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	114	229	U
96-18-4	1,2,3-Trichloropropane	ND	114	229	U

MKP 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/11/16 15:43	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10264.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:43
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	6640 JT	114	229	D
108-86-1	Bromobenzene	ND UJ	114	229	U
108-67-8	1,3,5-Trimethylbenzene	ND	114	229	U
95-49-8	2-Chlorotoluene	ND	114	229	U
106-43-4	4-Chlorotoluene	ND	114	229	U
98-06-6	tert-Butylbenzene	ND	114	229	U
95-63-6	1,2,4-Trimethylbenzene	ND	114	229	U
135-98-8	sec-Butylbenzene	ND	114	229	U
99-87-6	p-Isopropyltoluene	ND	114	229	U
541-73-1	1,3-Dichlorobenzene	ND	114	229	U
106-46-7	1,4-Dichlorobenzene	ND	114	229	U
104-51-8	n-Butyl Benzene	ND	114	229	U
95-50-1	1,2-Dichlorobenzene	ND	114	229	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	114	229	U
120-82-1	1,2,4-Trichlorobenzene	ND	114	229	U
87-68-3	Hexachlorobutadiene	ND	114	229	U
87-61-6	1,2,3-Trichlorobenzene	ND	114	229	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	103%	70-130
Toluene-d8	101%	70-130
Bromofluorobenzene	102%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

WVP 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B GCMS	File ID:	E11561.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 18:11
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	123	619	U
108-95-2	Phenol	ND	123	619	U
111-44-4	bis(2-chloroethyl)ether	ND	123	619	U
95-57-8	2-Chlorophenol	ND	123	619	U
541-73-1	1,3-Dichlorobenzene	ND	123	619	U
106-46-7	1,4-Dichlorobenzene	ND	123	619	U
100-51-6	Benzyl alcohol	ND	123	619	U
95-50-1	1,2-Dichlorobenzene	ND	123	619	U
95-48-7	2-Methylphenol	ND	123	619	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	123	619	U
106-44-5	3 & 4-Methylphenol	ND	123	619	U
621-64-7	N-Nitroso-di-n-propylamine	ND	123	619	U
67-72-1	Hexachloroethane	ND	123	619	U
98-95-3	Nitrobenzene	ND	123	619	U
78-59-1	Isophorone	ND	123	619	U
88-75-5	2-Nitrophenol	ND	123	619	U
105-67-9	2,4-Dimethylphenol	ND	123	619	U
65-85-0	Benzoic acid	ND	307	1230	U
111-91-1	bis(2-chloroethoxy)methane	ND	123	619	U
120-83-2	2,4-Dichlorophenol	ND	123	619	U
120-82-1	1,2,4-Trichlorobenzene	ND	123	619	U
91-20-3	Naphthalene	ND	123	619	U
106-47-8	4-Chloroaniline	ND UJ	123	619	U
87-68-3	Hexachlorobutadiene	ND	123	619	U
59-50-7	4-Chloro-3-methylphenol	ND	123	619	U

 mvp 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B GCMS	File ID:	E11561.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 18:11
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	123	619	U
77-47-4	Hexachlorocyclopentadiene	ND	123	619	U
88-06-2	2,4,6-Trichlorophenol	ND	123	619	U
95-95-4	2,4,5-Trichlorophenol	ND	123	619	U
91-58-7	2-Chloronaphthalene	ND	123	619	U
88-74-4	2-Nitroaniline	ND	123	619	U
131-11-3	Dimethylphthalate	ND	123	619	U
208-96-8	Acenaphthylene	ND	123	619	U
99-09-2	3-Nitroaniline	ND	123	619	U
83-32-9	Acenaphthene	ND	123	619	U
51-28-5	2,4-Dinitrophenol	ND	123	1230	U
100-02-7	4-Nitrophenol	ND	123	619	U
132-64-9	Dibenzofuran	ND	123	619	U
606-20-2	2,6-Dinitrotoluene	ND	123	619	U
121-14-2	2,4-Dinitrotoluene	ND	123	619	U
84-66-2	Diethyl phthalate	ND	123	619	U
7005-72-3	4-Chlorophenyl-phenylether	ND	123	619	U
86-73-7	Fluorene	ND	123	619	U
100-01-6	4-Nitroaniline	ND	123	619	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	123	619	U
86-30-6	N-Nitrosodiphenylamine	ND	123	619	U
101-55-3	4-Bromophenyl-phenylether	ND	123	619	U
118-74-1	Hexachlorobenzene	ND	123	619	U
87-86-5	Pentachlorophenol	ND	123	619	U
85-01-8	Phenanthrene	815	123	619	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B GCMS	File ID:	E11561.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 18:11
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	141	123	619	J
84-74-2	Di-n-butyl phthalate	ND	123	619	U
206-44-0	Fluoranthene	959	123	619	
129-00-0	Pyrene	1090	123	619	
85-68-7	Butylbenzylphthalate	ND	123	619	U
91-94-1	3,3'-Dichlorobenzidine	ND	307	619	U
56-55-3	Benzo[a]anthracene	431	123	619	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	123	619	U
218-01-9	Chrysene	482	123	619	J
117-84-0	Di-n-octyl phthalate	ND	123	619	U
205-99-2	Benzo[b]fluoranthene	520	123	619	J
207-08-9	Benzo[k]fluoranthene	174	123	619	J
50-32-8	Benzo[a]pyrene	420	123	619	J
193-39-5	Indeno(1,2,3-cd)pyrene	261	123	619	J
53-70-3	Dibenzo(a,h)anthracene	ND	123	619	U
191-24-2	Benzo[ghi]perylene	294	123	619	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	53%	30-130
Phenol-d5	59%	30-130
Nitrobenzene-d5	72%	30-130
2-Fluorobiphenyl	83%	30-130
2,4,6-Tribromophenol	80%	30-130
Terphenyl-d14	99%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11556.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 14:35
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.5	193	U
108-95-2	Phenol	ND	38.5	193	U
111-44-4	bis(2-chloroethyl)ether	ND	38.5	193	U
95-57-8	2-Chlorophenol	ND	38.5	193	U
541-73-1	1,3-Dichlorobenzene	ND	38.5	193	U
106-46-7	1,4-Dichlorobenzene	ND	38.5	193	U
100-51-6	Benzyl alcohol	ND	38.5	193	U
95-50-1	1,2-Dichlorobenzene	ND	38.5	193	U
95-48-7	2-Methylphenol	ND	38.5	193	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.5	193	U
106-44-5	3 & 4-Methylphenol	ND	38.5	193	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.5	193	U
67-72-1	Hexachloroethane	ND	38.5	193	U
98-95-3	Nitrobenzene	ND	38.5	193	U
78-59-1	Isophorone	ND	38.5	193	U
88-75-5	2-Nitrophenol	ND	38.5	193	U
105-67-9	2,4-Dimethylphenol	ND	38.5	193	U
65-85-0	Benzoic acid	ND	96.0	385	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.5	193	U
120-83-2	2,4-Dichlorophenol	ND	38.5	193	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.5	193	U
91-20-3	Naphthalene	10300	38.5	193	E
106-47-8	4-Chloroaniline	ND uJ	38.5	193	U
87-68-3	Hexachlorobutadiene	ND	38.5	193	U
59-50-7	4-Chloro-3-methylphenol	ND	38.5	193	U

 MMD 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11556.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 14:35
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	10200	38.5	193	E
77-47-4	Hexachlorocyclopentadiene	ND	38.5	193	U
88-06-2	2,4,6-Trichlorophenol	ND	38.5	193	U
95-95-4	2,4,5-Trichlorophenol	ND	38.5	193	U
91-58-7	2-Chloronaphthalene	ND	38.5	193	U
88-74-4	2-Nitroaniline	ND	38.5	193	U
131-11-3	Dimethylphthalate	ND	38.5	193	U
208-96-8	Acenaphthylene	ND	38.5	193	U
99-09-2	3-Nitroaniline	ND	38.5	193	U
83-32-9	Acenaphthene	42.7	38.5	193	J
51-28-5	2,4-Dinitrophenol	ND	38.5	385	U
100-02-7	4-Nitrophenol	ND	38.5	193	U
132-64-9	Dibenzofuran	ND	38.5	193	U
606-20-2	2,6-Dinitrotoluene	ND	38.5	193	U
121-14-2	2,4-Dinitrotoluene	ND	38.5	193	U
84-66-2	Diethyl phthalate	ND	38.5	193	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.5	193	U
86-73-7	Fluorene	113	38.5	193	J
100-01-6	4-Nitroaniline	ND	38.5	193	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.5	193	U
86-30-6	N-Nitrosodiphenylamine	ND	38.5	193	U
101-55-3	4-Bromophenyl-phenylether	ND	38.5	193	U
118-74-1	Hexachlorobenzene	ND	38.5	193	U
87-86-5	Pentachlorophenol	ND	38.5	193	U
85-01-8	Phenanthrene	215	38.5	193	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11556.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 14:35
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	53.5	38.5	193	J
84-74-2	Di-n-butyl phthalate	ND	38.5	193	U
206-44-0	Fluoranthene	114	38.5	193	J
129-00-0	Pyrene	116	38.5	193	J
85-68-7	Butylbenzylphthalate	ND	38.5	193	U
91-94-1	3,3'-Dichlorobenzidine	ND	96.0	193	U
56-55-3	Benzo[a]anthracene	50.6	38.5	193	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.5	193	U
218-01-9	Chrysene	48.4	38.5	193	J
117-84-0	Di-n-octyl phthalate	ND	38.5	193	U
205-99-2	Benzo[b]fluoranthene	ND	38.5	193	U
207-08-9	Benzo[k]fluoranthene	ND	38.5	193	U
50-32-8	Benzo[a]pyrene	ND	38.5	193	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.5	193	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.5	193	U
191-24-2	Benzo[ghi]perylene	ND	38.5	193	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	58%	30-130
Phenol-d5	65%	30-130
Nitrobenzene-d5	66%	30-130
2-Fluorobiphenyl	79%	30-130
2,4,6-Tribromophenol	91%	30-130
Terphenyl-d14	91%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11558.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 16:01
Dilution:	10			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	385	1930	U
108-95-2	Phenol	ND	385	1930	U
111-44-4	bis(2-chloroethyl)ether	ND	385	1930	U
95-57-8	2-Chlorophenol	ND	385	1930	U
541-73-1	1,3-Dichlorobenzene	ND	385	1930	U
106-46-7	1,4-Dichlorobenzene	ND	385	1930	U
100-51-6	Benzyl alcohol	ND	385	1930	U
95-50-1	1,2-Dichlorobenzene	ND	385	1930	U
95-48-7	2-Methylphenol	ND	385	1930	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	385	1930	U
106-44-5	3 & 4-Methylphenol	ND	385	1930	U
621-64-7	N-Nitroso-di-n-propylamine	ND	385	1930	U
67-72-1	Hexachloroethane	ND	385	1930	U
98-95-3	Nitrobenzene	ND	385	1930	U
78-59-1	Isophorone	ND	385	1930	U
88-75-5	2-Nitrophenol	ND	385	1930	U
105-67-9	2,4-Dimethylphenol	ND	385	1930	U
65-85-0	Benzoic acid	ND	960	3850	U
111-91-1	bis(2-chloroethoxy)methane	ND	385	1930	U
120-83-2	2,4-Dichlorophenol	ND	385	1930	U
120-82-1	1,2,4-Trichlorobenzene	ND	385	1930	U
91-20-3	Naphthalene	14200	385	1930	D
106-47-8	4-Chloroaniline	ND UJ	385	1930	U
87-68-3	Hexachlorobutadiene	ND	385	1930	U
59-50-7	4-Chloro-3-methylphenol	ND	385	1930	U

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11558.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 16:01
Dilution:	10			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	11300	385	1930	D
77-47-4	Hexachlorocyclopentadiene	ND	385	1930	U
88-06-2	2,4,6-Trichlorophenol	ND	385	1930	U
95-95-4	2,4,5-Trichlorophenol	ND	385	1930	U
91-58-7	2-Chloronaphthalene	ND	385	1930	U
88-74-4	2-Nitroaniline	ND	385	1930	U
131-11-3	Dimethylphthalate	ND	385	1930	U
208-96-8	Acenaphthylene	ND	385	1930	U
99-09-2	3-Nitroaniline	ND	385	1930	U
83-32-9	Acenaphthene	ND	385	1930	U
51-28-5	2,4-Dinitrophenol	ND	385	3850	U
100-02-7	4-Nitrophenol	ND	385	1930	U
132-64-9	Dibenzofuran	ND	385	1930	U
606-20-2	2,6-Dinitrotoluene	ND	385	1930	U
121-14-2	2,4-Dinitrotoluene	ND	385	1930	U
84-66-2	Diethyl phthalate	ND	385	1930	U
7005-72-3	4-Chlorophenyl-phenylether	ND	385	1930	U
86-73-7	Fluorene	ND	385	1930	U
100-01-6	4-Nitroaniline	ND	385	1930	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	385	1930	U
86-30-6	N-Nitrosodiphenylamine	ND	385	1930	U
101-55-3	4-Bromophenyl-phenylether	ND	385	1930	U
118-74-1	Hexachlorobenzene	ND	385	1930	U
87-86-5	Pentachlorophenol	ND	385	1930	U
85-01-8	Phenanthrene	ND	385	1930	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11558.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 16:01
Dilution:	10			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	385	1930	U
84-74-2	Di-n-butyl phthalate	ND	385	1930	U
206-44-0	Fluoranthene	ND	385	1930	U
129-00-0	Pyrene	ND	385	1930	U
85-68-7	Butylbenzylphthalate	ND	385	1930	U
91-94-1	3,3'-Dichlorobenzidine	ND	960	1930	U
56-55-3	Benzo[a]anthracene	ND	385	1930	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	385	1930	U
218-01-9	Chrysene	ND	385	1930	U
117-84-0	Di-n-octyl phthalate	ND	385	1930	U
205-99-2	Benzo[b]fluoranthene	ND	385	1930	U
207-08-9	Benzo[k]fluoranthene	ND	385	1930	U
50-32-8	Benzo[a]pyrene	ND	385	1930	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	385	1930	U
53-70-3	Dibenzo(a,h)anthracene	ND	385	1930	U
191-24-2	Benzo[ghi]perylene	ND	385	1930	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	56%	30-130
Phenol-d5	63%	30-130
Nitrobenzene-d5	72%	30-130
2-Fluorobiphenyl	81%	30-130
2,4,6-Tribromophenol	68%	30-130
Terphenyl-d14	95%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B GCMS	File ID:	E11557.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 15:18
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.1	191	U
108-95-2	Phenol	ND	38.1	191	U
111-44-4	bis(2-chloroethyl)ether	ND	38.1	191	U
95-57-8	2-Chlorophenol	ND	38.1	191	U
541-73-1	1,3-Dichlorobenzene	ND	38.1	191	U
106-46-7	1,4-Dichlorobenzene	ND	38.1	191	U
100-51-6	Benzyl alcohol	ND	38.1	191	U
95-50-1	1,2-Dichlorobenzene	ND	38.1	191	U
95-48-7	2-Methylphenol	ND	38.1	191	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.1	191	U
106-44-5	3 & 4-Methylphenol	ND	38.1	191	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.1	191	U
67-72-1	Hexachloroethane	ND	38.1	191	U
98-95-3	Nitrobenzene	ND	38.1	191	U
78-59-1	Isophorone	ND	38.1	191	U
88-75-5	2-Nitrophenol	ND	38.1	191	U
105-67-9	2,4-Dimethylphenol	ND	38.1	191	U
65-85-0	Benzoic acid	ND	95.0	381	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.1	191	U
120-83-2	2,4-Dichlorophenol	ND	38.1	191	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.1	191	U
91-20-3	Naphthalene	1190	38.1	191	
106-47-8	4-Chloroaniline	ND UJ	38.1	191	U
87-68-3	Hexachlorobutadiene	ND	38.1	191	U
59-50-7	4-Chloro-3-methylphenol	ND	38.1	191	U

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B GCMS	File ID:	E11557.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 15:18
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	1140	38.1	191	
77-47-4	Hexachlorocyclopentadiene	ND	38.1	191	U
88-06-2	2,4,6-Trichlorophenol	ND	38.1	191	U
95-95-4	2,4,5-Trichlorophenol	ND	38.1	191	U
91-58-7	2-Chloronaphthalene	ND	38.1	191	U
88-74-4	2-Nitroaniline	ND	38.1	191	U
131-11-3	Dimethylphthalate	ND	38.1	191	U
208-96-8	Acenaphthylene	ND	38.1	191	U
99-09-2	3-Nitroaniline	ND	38.1	191	U
83-32-9	Acenaphthene	ND	38.1	191	U
51-28-5	2,4-Dinitrophenol	ND	38.1	381	U
100-02-7	4-Nitrophenol	ND	38.1	191	U
132-64-9	Dibenzofuran	ND	38.1	191	U
606-20-2	2,6-Dinitrotoluene	ND	38.1	191	U
121-14-2	2,4-Dinitrotoluene	ND	38.1	191	U
84-66-2	Diethyl phthalate	ND	38.1	191	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.1	191	U
86-73-7	Fluorene	ND	38.1	191	U
100-01-6	4-Nitroaniline	ND	38.1	191	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.1	191	U
86-30-6	N-Nitrosodiphenylamine	ND	38.1	191	U
101-55-3	4-Bromophenyl-phenylether	ND	38.1	191	U
118-74-1	Hexachlorobenzene	ND	38.1	191	U
87-86-5	Pentachlorophenol	ND	38.1	191	U
85-01-8	Phenanthrene	ND	38.1	191	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B GCMS	File ID:	E11557.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 15:18
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	38.1	191	U
84-74-2	Di-n-butyl phthalate	ND	38.1	191	U
206-44-0	Fluoranthene	ND	38.1	191	U
129-00-0	Pyrene	ND	38.1	191	U
85-68-7	Butylbenzylphthalate	ND	38.1	191	U
91-94-1	3,3'-Dichlorobenzidine	ND	95.0	191	U
56-55-3	Benzo[a]anthracene	ND	38.1	191	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.1	191	U
218-01-9	Chrysene	ND	38.1	191	U
117-84-0	Di-n-octyl phthalate	ND	38.1	191	U
205-99-2	Benzo[b]fluoranthene	ND	38.1	191	U
207-08-9	Benzo[k]fluoranthene	ND	38.1	191	U
50-32-8	Benzo[a]pyrene	ND	38.1	191	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.1	191	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.1	191	U
191-24-2	Benzo[ghi]perylene	ND	38.1	191	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	59%	30-130
Phenol-d5	62%	30-130
Nitrobenzene-d5	76%	30-130
2-Fluorobiphenyl	78%	30-130
2,4,6-Tribromophenol	77%	30-130
Terphenyl-d14	94%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B	File ID:	G18486.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 13:16
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	2.44	2.44	U
319-85-7	beta-BHC	ND	2.44	2.44	U
319-86-8	delta-BHC	ND	2.44	2.44	U
58-89-9	gamma-BHC [Lindane]	ND	2.44	2.44	U
76-44-8	Heptachlor	ND	2.44	2.44	U
309-00-2	Aldrin	ND	2.44	2.44	U
1024-57-3	Heptachlor Epoxide	ND	2.44	2.44	U
959-98-8	Endosulfan I	ND	2.44	2.44	U
60-57-1	Dieldrin	ND	4.93	4.93	U
72-55-9	4,4'-DDE	ND	4.93	4.93	U
72-20-8	Endrin	ND	4.93	4.93	U
33213-65-9	Endosulfan II	ND	4.93	4.93	U
72-54-8	4,4'-DDD	ND	4.93	4.93	U
1031-07-8	Endosulfan sulfate	ND	4.93	4.93	U
50-29-3	4,4'-DDT	ND	4.93	4.93	U
72-43-5	Methoxychlor	ND	7.41	24.7	U
53494-70-5	Endrin ketone	ND	4.93	4.93	U
7421-93-4	Endrin aldehyde	ND	4.93	4.93	U
5103-71-9	alpha-Chlordane	ND	2.44	2.44	U
5566-34-7	gamma-Chlordane	ND	2.44	2.44	U
8001-35-2	Toxaphene	ND	123	123	U
12674-11-2	Aroclor-1016	ND	61.5	123	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B	File ID:	G18486.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 13:16
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	61.5	123	U
11141-16-5	Aroclor-1232	ND	61.5	123	U
53469-21-9	Aroclor-1242	ND	61.5	123	U
12672-29-6	Aroclor-1248	ND	61.5	123	U
11097-69-1	Aroclor-1254	ND	61.5	123	U
11096-82-5	Aroclor-1260	ND	61.5	123	U
37324-23-5	Aroclor-1262	ND	61.5	123	U
11100-14-4	Aroclor-1268	ND	61.5	123	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	42.5%	30-150
Tetrachloro-m-xylene [2C]	49.2%	30-150
Decachlorobiphenyl	51.6%	30-150
Decachlorobiphenyl [2C]	66.0%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B	File ID:	G18487.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 13:46
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.763	0.763	U
319-85-7	beta-BHC	ND	0.763	0.763	U
319-86-8	delta-BHC	ND	0.763	0.763	U
58-89-9	gamma-BHC [Lindane]	ND	0.763	0.763	U
76-44-8	Heptachlor	ND	0.763	0.763	U
309-00-2	Aldrin	ND	0.763	0.763	U
1024-57-3	Heptachlor Epoxide	ND	0.763	0.763	U
959-98-8	Endosulfan I	ND	0.763	0.763	U
60-57-1	Dieldrin	ND	1.54	1.54	U
72-55-9	4,4'-DDE	ND	1.54	1.54	U
72-20-8	Endrin	ND	1.54	1.54	U
33213-65-9	Endosulfan II	ND	1.54	1.54	U
72-54-8	4,4'-DDD	ND	1.54	1.54	U
1031-07-8	Endosulfan sulfate	ND	1.54	1.54	U
50-29-3	4,4'-DDT	ND	1.54	1.54	U
72-43-5	Methoxychlor	ND	2.31	7.70	U
53494-70-5	Endrin ketone	ND	1.54	1.54	U
7421-93-4	Endrin aldehyde	ND	1.54	1.54	U
5103-71-9	alpha-Chlordane	ND	0.763	0.763	U
5566-34-7	gamma-Chlordane	ND	0.763	0.763	U
8001-35-2	Toxaphene	ND	38.5	38.5	U
12674-11-2	Aroclor-1016	ND	19.2	38.5	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B	File ID:	G18487.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 13:46
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.2	38.5	U
11141-16-5	Aroclor-1232	ND	19.2	38.5	U
53469-21-9	Aroclor-1242	ND	19.2	38.5	U
12672-29-6	Aroclor-1248	ND	19.2	38.5	U
11097-69-1	Aroclor-1254	ND	19.2	38.5	U
11096-82-5	Aroclor-1260	ND	19.2	38.5	U
37324-23-5	Aroclor-1262	ND	19.2	38.5	U
11100-14-4	Aroclor-1268	ND	19.2	38.5	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	77.2%	30-150
Tetrachloro-m-xylene [2C]	98.8%	30-150
Decachlorobiphenyl	98.7%	30-150
Decachlorobiphenyl [2C]	116%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B	File ID:	G18488.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 14:15
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.755	0.755	U
319-85-7	beta-BHC	ND	0.755	0.755	U
319-86-8	delta-BHC	ND	0.755	0.755	U
58-89-9	gamma-BHC [Lindane]	ND	0.755	0.755	U
76-44-8	Heptachlor	ND	0.755	0.755	U
309-00-2	Aldrin	ND	0.755	0.755	U
1024-57-3	Heptachlor Epoxide	ND	0.755	0.755	U
959-98-8	Endosulfan I	ND	0.755	0.755	U
60-57-1	Dieldrin	ND	1.52	1.52	U
72-55-9	4,4'-DDE	ND	1.52	1.52	U
72-20-8	Endrin	ND	1.52	1.52	U
33213-65-9	Endosulfan II	ND	1.52	1.52	U
72-54-8	4,4'-DDD	ND	1.52	1.52	U
1031-07-8	Endosulfan sulfate	ND	1.52	1.52	U
50-29-3	4,4'-DDT	ND	1.52	1.52	U
72-43-5	Methoxychlor	ND	2.29	7.62	U
53494-70-5	Endrin ketone	ND	1.52	1.52	U
7421-93-4	Endrin aldehyde	ND	1.52	1.52	U
5103-71-9	alpha-Chlordane	ND	0.755	0.755	U
5566-34-7	gamma-Chlordane	ND	0.755	0.755	U
8001-35-2	Toxaphene	ND	38.1	38.1	U
12674-11-2	Aroclor-1016	ND	19.0	38.1	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B	File ID:	G18488.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 14:15
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.0	38.1	U
11141-16-5	Aroclor-1232	ND	19.0	38.1	U
53469-21-9	Aroclor-1242	ND	19.0	38.1	U
12672-29-6	Aroclor-1248	ND	19.0	38.1	U
11097-69-1	Aroclor-1254	ND	19.0	38.1	U
11096-82-5	Aroclor-1260	ND	19.0	38.1	U
37324-23-5	Aroclor-1262	ND	19.0	38.1	U
11100-14-4	Aroclor-1268	ND	19.0	38.1	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	87.0%	30-150
Tetrachloro-m-xylene [2C]	105%	30-150
Decachlorobiphenyl	103%	30-150
Decachlorobiphenyl [2C]	115%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Matrix:	Soil
Percent Solids:	27.00	File ID:	110816A-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	13000	67.2	67.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-97-6	Mercury	ND	0.278	0.278	1	U	11/11/16 07:31	EPA 7471A	11/11/16 13:13 PRT	EPA 7471
7440-36-0	Antimony	ND	13.4	13.4	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-38-2	Arsenic	5.44 J	3.36	3.36	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-39-3	Barium	74.8	67.2	67.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-41-7	Beryllium	ND	1.68	1.68	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-43-9	Cadmium	ND	1.68	1.68	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-70-2	Calcium	8850	84.0	84.0	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-47-3	Chromium	24.8	6.72	6.72	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-48-4	Cobalt	ND	16.8	16.8	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-50-8	Copper	25.7	10.1	10.1	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-89-6	Iron	20600	84.0	84.0	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-92-1	Lead	38.9 J	3.36	3.36	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-95-4	Magnesium	6320	168	168	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-96-5	Manganese	167	6.72	6.72	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-02-0	Nickel	16.0	13.4	13.4	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-09-7	Potassium	1810 J	168	168	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7782-49-2	Selenium	ND	13.4	13.4	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-22-4	Silver	ND	1.68	1.68	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-23-5	Sodium	3520 J	168	168	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-28-0	Thallium	ND	5.04	10.1	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-62-2	Vanadium	37.5	16.8	16.8	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-66-6	Zinc	76.3	20.2	20.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

 MKP 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Matrix:	Soil
Percent Solids:	86.50	File ID:	110816A-021

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	7210	18.2	18.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0867	0.0867	1	U	11/11/16 07:31	EPA 7471A	11/11/16 13:15 PRT	EPA 7471
7440-36-0	Antimony	ND	3.64	3.64	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-38-2	Arsenic	1.08 J	0.911	0.911	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-39-3	Barium	41.7	18.2	18.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.456	0.456	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.456	0.456	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-70-2	Calcium	8550	22.8	22.8	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-47-3	Chromium	16.1	1.82	1.82	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-48-4	Cobalt	7.27	4.56	4.56	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-50-8	Copper	18.2	2.73	2.73	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7439-89-6	Iron	15800	569	569	25	D	11/07/16 15:34	EPA 3050B	11/08/16 13:57 LIT	EPA 6010
7439-92-1	Lead	7.79 J	0.911	0.911	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7439-95-4	Magnesium	7720	45.6	45.6	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7439-96-5	Manganese	415	1.82	1.82	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-02-0	Nickel	12.9	3.64	3.64	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-09-7	Potassium	1690 J	45.6	45.6	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7782-49-2	Selenium	ND	3.64	3.64	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-22-4	Silver	ND	0.456	0.456	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-23-5	Sodium	185 J	45.6	45.6	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-28-0	Thallium	ND	1.37	2.73	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-62-2	Vanadium	27.5	4.56	4.56	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-66-6	Zinc	43.0	5.47	5.47	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010

* Values outside of QC limits
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 MVP 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Matrix:	Soil
Percent Solids:	87.40	File ID:	110816A-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	6580	18.3	18.3	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0858	0.0858	1	U	11/11/16 07:31	EPA 7471A	11/11/16 13:17 PRT	EPA 7471
7440-36-0	Antimony	ND	3.65	3.65	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-38-2	Arsenic	0.958 J	0.913	0.913	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-39-3	Barium	38.2	18.3	18.3	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.457	0.457	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.457	0.457	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-70-2	Calcium	8710	22.8	22.8	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-47-3	Chromium	14.3	1.83	1.83	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-48-4	Cobalt	7.10	4.57	4.57	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-50-8	Copper	17.1	2.74	2.74	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7439-89-6	Iron	15600	571	571	25	D	11/07/16 15:34	EPA 3050B	11/08/16 14:02 LIT	EPA 6010
7439-92-1	Lead	8.52 J	0.913	0.913	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7439-95-4	Magnesium	7580	45.7	45.7	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7439-96-5	Manganese	556	1.83	1.83	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-02-0	Nickel	11.1	3.65	3.65	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-09-7	Potassium	1530 J	45.7	45.7	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7782-49-2	Selenium	ND	3.65	3.65	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-22-4	Silver	ND	0.457	0.457	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-23-5	Sodium	180 J	45.7	45.7	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-28-0	Thallium	ND	1.37	2.74	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-62-2	Vanadium	23.7	4.57	4.57	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-66-6	Zinc	41.1	5.48	5.48	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010

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MDL - Minimum detection limit
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 MKP 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Matrix:	Soil
Percent Solids:	27.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	24.8	1.81	1.81	1		11/09/16 10:00	[CALC]	11/10/16 12:53 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	7.41	7.41	1	U	11/09/16 10:00	SW 846 3060A	11/10/16 12:53 NNM	EPA 7196A
NA	Cyanide (total)	ND	3.70	3.70	1	U	11/14/16 09:14	EPA 9010C	11/14/16 15:02 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	27.0	0.100	0.100	1		11/07/16 14:00	Percent Solids	11/08/16 09:00 KMC	SM 2540 G

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ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Matrix:	Soil
Percent Solids:	86.50	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	16.1	1.58	1.58	1		11/09/16 10:00	[CALC]	11/10/16 12:53 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.31	2.31	1	U	11/09/16 10:00	SW 846 3060A	11/10/16 12:53 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.16	1.16	1	U	11/14/16 09:14	EPA 9010C	11/14/16 15:02 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	86.5	0.100	0.100	1		11/07/16 14:00	Percent Solids	11/08/16 09:00 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
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MDL - Minimum detection limit
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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Matrix:	Soil
Percent Solids:	87.40	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	14.3	1.60	1.60	1		11/09/16 10:00	[CALC]	11/10/16 12:53 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.29	2.29	1	U	11/09/16 10:00	SW 846 3060A	11/10/16 12:53 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.14	1.14	1	U	11/14/16 09:14	EPA 9010C	11/14/16 15:02 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	87.4	0.100	0.100	1		11/07/16 14:00	Percent Solids	11/08/16 09:00 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
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D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602114
Project: 255 East 138th Street

Matrix:	Solid	Laboratory ID:	B6K1113-BLK1	File ID:	A10256.D
Batch:	B6K1113	Prepared:	11/11/16 10:35	Analyzed:	11/11/16 10:35
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S6K1109	Instrument:	GC/MS A

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	3.67	1.00	2.00	
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	1.67	1.00	2.00	J
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602114
Project: 255 East 138th Street

Sequence: S6K0809

Instrument: GC/MS A
Calibration: 16I2601

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-32 (1602114-01RE1)			*Lab File ID: A10229.D*			*Analyzed: 11/08/16 18:29*			
Pentafluorobenzene	427238	6.41	738695	6.39	58	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	701902	7.11	1252834	7.09	56	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	421272	11.21	999139	11.19	42	50 - 200	0.0200	+/-0.50	*
1,4-Dichlorobenzene-d4	114630	16.73	434676	16.72	26	50 - 200	0.0100	+/-0.50	*
EP-33 (1602114-02)			*Lab File ID: A10230.D*			*Analyzed: 11/08/16 19:00*			
Pentafluorobenzene	595501	6.41	738695	6.39	81	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	1031534	7.11	1252834	7.09	82	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	849059	11.21	999139	11.19	85	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	382516	16.74	434676	16.72	88	50 - 200	0.0200	+/-0.50	
DUP-1 (1602114-03)			*Lab File ID: A10232.D*			*Analyzed: 11/08/16 20:03*			
Pentafluorobenzene	607409	6.4	738695	6.39	82	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1090133	7.11	1252834	7.09	87	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	896225	11.21	999139	11.19	90	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	422202	16.73	434676	16.72	97	50 - 200	0.0100	+/-0.50	

* Values outside of QC limits

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602114
Project: 255 East 138th Street

Sequence: S6K1109

Instrument: GC/MS A
Calibration: 16K2901

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S6K1109-CCV1)			*Lab File ID: A10254.D*			*Analyzed: 11/11/16 09:23*			
Pentafluorobenzene	864064	6.43	880849	6.4	98	50 - 200	0.0300	+/-0.50	
1,4-Difluorobenzene	1438702	7.13	1424949	7.1	101	50 - 200	0.0300	+/-0.50	
Chlorobenzene-d5	1139531	11.23	1120812	11.2	102	50 - 200	0.0300	+/-0.50	
1,4-Dichlorobenzene-d4	505339	16.77	504471	16.72	100	50 - 200	0.0500	+/-0.50	
Blank (B6K1113-BLK1)			*Lab File ID: A10256.D*			*Analyzed: 11/11/16 10:35*			
Pentafluorobenzene	905617	6.43	864064	6.43	105	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1506218	7.13	1438702	7.13	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1177299	11.22	1139531	11.23	103	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	531127	16.77	505339	16.77	105	50 - 200	0.0000	+/-0.50	
LCS (B6K1113-BS1)			*Lab File ID: A10257.D*			*Analyzed: 11/11/16 11:55*			
Pentafluorobenzene	887707	6.42	864064	6.43	103	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene	1460486	7.12	1438702	7.13	102	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1171768	11.22	1139531	11.23	103	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	523826	16.77	505339	16.77	104	50 - 200	0.0000	+/-0.50	
EP-32 (1602114-01)			*Lab File ID: A10263.D*			*Analyzed: 11/11/16 15:12*			
Pentafluorobenzene	478476	6.42	864064	6.43	55	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene	802078	7.12	1438702	7.13	56	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	507968	11.22	1139531	11.23	45	50 - 200	-0.0100	+/-0.50	*
1,4-Dichlorobenzene-d4	163708	16.75	505339	16.77	32	50 - 200	-0.0200	+/-0.50	*
DUP-1 (1602114-03RE1)			*Lab File ID: A10264.D*			*Analyzed: 11/11/16 15:43*			
Pentafluorobenzene	907351	6.41	864064	6.43	105	50 - 200	-0.0200	+/-0.50	
1,4-Difluorobenzene	1532505	7.12	1438702	7.13	107	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1193697	11.22	1139531	11.23	105	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	541899	16.75	505339	16.77	107	50 - 200	-0.0200	+/-0.50	

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INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602114
Project: 255 East 138th Street

Calibration: 16I2601 Instrument: GC/MS A
Calibration Date: 9/22/2016 2:34:38PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	5.351277E-02	3.266802		
Acrylonitrile	0.1259208	1.826369		
Acetone	0.15486	44.48451		
Dichlorodifluoromethane	0.499218	18.20399		
Chloromethane	0.8073298	8.718946	SPCC (0.1)	
Vinyl chloride	0.7694418	7.703534	CCC (20)	
Bromomethane	0.5686235	8.683739		
Chloroethane	0.2688624	7.617021		
Trichlorofluoromethane	0.6190958	14.38761		
Freon 113	0.6712929	3.935529		
1,1-Dichloroethene	0.7483666	3.886904	CCC (20)	
Carbon disulfide	2.187451	5.255553		
Methyl Acetate	0.2917014	12.91849		
Methylene Chloride	1.217577	76.2124		
trans-1,2-Dichloroethene	0.7800425	2.618897		
1,1-Dichloroethane	0.9053845	1.552322	SPCC (0.1)	
Vinyl acetate	0.9979671	2.328048		
2,2-Dichloropropane	0.6953845	1.781966		
2-Butanone	0.1759346	6.783492		
cis-1,2-Dichloroethene	0.6901689	3.64564		
Chloroform	0.8372235	3.891803	CCC (20)	
Bromochloromethane	0.2956708	3.201543		
Cyclohexane	1.170159	4.798114		
1,1,1-Trichloroethane	0.648608	1.888395		
t-Butyl alcohol	2.808784E-02	5.649641		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602114
Project: 255 East 138th Street

Calibration:	16I2601	Instrument:	GC/MS A
		Calibration Date:	9/22/2016 2:34:38PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
o-Xylene	1.269878	5.462766		
Styrene	1.004685	3.654105		
Bromoform	0.126804	12.77923	SPCC (0.1)	
Isopropylbenzene	3.577724	2.811909		
1,1,2,2-Tetrachloroethane	0.5674752	5.514581	SPCC (0.3)	
1,2,3-Trichloropropane	0.4067208	2.182686		
n-Propyl Benzene	4.507736	4.861344		
Bromobenzene	1.26774	2.283857		
1,3,5-Trimethylbenzene	2.70715	1.972619		
2-Chlorotoluene	2.418182	4.192353		
4-Chlorotoluene	2.495661	5.635875		
tert-Butylbenzene	2.362289	2.381115		
1,2,4-Trimethylbenzene	2.733594	2.861654		
sec-Butylbenzene	3.796163	4.092442		
p-Isopropyltoluene	3.018334	2.96632		
1,3-Dichlorobenzene	1.483864	2.832892		
1,4-Dichlorobenzene	1.461118	5.01866		
n-Butyl Benzene	3.153113	5.000167		
1,2-Dichlorobenzene	1.271064	4.206623		
1,2-Dibromo-3-chloropropane	7.382205E-02	31.5289		
1,2,4-Trichlorobenzene	0.8197279	7.165339		
Hexachlorobutadiene	0.3444627	5.335948		
Naphthalene	1.466261	5.928814		
1,2,3-Trichlorobenzene	0.6870029	8.746632		
Methyl tert-Butyl Ether	1.836288	2.60316		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602114
Project: 255 East 138th Street

Calibration: 16K2901
Instrument: GC/MS A
Calibration Date: 11/11/2016 2:06:14PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	4.205456E-02	9.158955		
Acrylonitrile	0.1110298	6.457832		
Acetone	0.2259427	28.80095		
Dichlorodifluoromethane	0.4876265	22.22086		
Chloromethane	0.8110507	5.245469	SPCC (0.1)	
Vinyl chloride	0.763105	5.215547	CCC (20)	
Bromomethane	0.5218592	1.654538		
Chloroethane	0.2265883	7.665727		
Trichlorofluoromethane	0.5953867	9.478552		
Freon 113	0.565017	5.065087		
1,1-Dichloroethene	0.7385413	4.415367	CCC (20)	
Carbon disulfide	1.917528	4.228956		
Methyl Acetate	0.2397146	13.29626		
Methylene Chloride	1.205642	77.89174		
trans-1,2-Dichloroethene	0.774129	4.626237		
1,1-Dichloroethane	0.9423943	6.232792	SPCC (0.1)	
Vinyl acetate	0.8741036	4.967296		
2,2-Dichloropropane	0.7218103	7.188516		
2-Butanone	0.2327747	7.085253		
cis-1,2-Dichloroethene	0.7206962	3.877722		
Chloroform	0.8320457	5.649852	CCC (20)	
Bromochloromethane	0.3100194	5.695596		
Cyclohexane	1.046255	3.94819		
1,1,1-Trichloroethane	0.6778045	6.755606		
t-Butyl alcohol	2.403454E-02	5.023967		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602114
Project: 255 East 138th Street

Calibration: 16K2901
Instrument: GC/MS A
Calibration Date: 11/11/2016 2:06:14PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Styrene	1.031401	1.832325		
Bromoform	0.1468379	14.89628	SPCC (0.1)	
Isopropylbenzene	3.947915	2.126795		
1,1,2,2-Tetrachloroethane	0.6329738	5.922484	SPCC (0.3)	
1,2,3-Trichloropropane	0.4314435	6.002459		
n-Propyl Benzene	4.86141	1.832751		
Bromobenzene	1.341578	2.412734		
1,3,5-Trimethylbenzene	2.968746	2.399716		
2-Chlorotoluene	2.585701	2.45976		
4-Chlorotoluene	2.668629	2.912948		
tert-Butylbenzene	2.599352	2.293025		
1,2,4-Trimethylbenzene	2.973936	2.253427		
sec-Butylbenzene	4.194212	2.239044		
p-Isopropyltoluene	3.301733	1.960102		
1,3-Dichlorobenzene	1.656841	2.206572		
1,4-Dichlorobenzene	1.610636	2.17489		
n-Butyl Benzene	3.357056	3.288334		
1,2-Dichlorobenzene	1.409658	1.690112		
1,2-Dibromo-3-chloropropane	8.713914E-02	31.41804		
1,2,4-Trichlorobenzene	0.9117214	3.144935		
Hexachlorobutadiene	0.4083687	1.979488		
Naphthalene	1.628325	4.262825		
1,2,3-Trichlorobenzene	0.7550381	3.480348		
Methyl tert-Butyl Ether	1.750516	2.162257		
1,2-Dichloroethane-d4	0.2089738	4.232093		

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CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1602114		
Project:	255 East 138th Street		
Instrument ID:	GC/MS A	Calibration:	16I2601
Lab File ID:	A10215.D	Calibration Date:	09/22/16 14:34
Sequence:	S6K0809	Injection Date:	11/08/16
Lab Sample ID:	S6K0809-CCV1	Injection Time:	10:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	235	5.351277E-02	5.027488E-02		-6.1	
Acrylonitrile	A	250	240	0.1259208	0.1206582		-4.2	
Acetone	L	50.0	45.0	0.15486	0.1109253		-28.4	
Dichlorodifluoromethane	L	50.0	40.0	0.499218	0.3990889		-20.1	
Chloromethane	A	50.0	53.3	0.8073298	0.8605094	0.1	6.6	
Vinyl chloride	A	50.0	55.9	0.7694418	0.8600505		11.8	20
Bromomethane	A	50.0	53.4	0.5686235	0.6075728		6.8	
Chloroethane	A	50.0	46.3	0.2688624	0.2487563		-7.5	
Trichlorofluoromethane	A	50.0	58.8	0.6190958	0.727399		17.5	
Freon 113	A	50.0	45.7	0.6712929	0.6139394		-8.5	
1,1-Dichloroethene	A	50.0	45.2	0.7483666	0.6764429		-9.6	20
Carbon disulfide	A	50.0	42.3	2.187451	1.850171		-15.4	
Methyl Acetate	A	50.0	40.8	0.2917014	0.2377476		-18.5	
Methylene Chloride	L	50.0	53.9	1.217577	0.8057629		-33.8	
trans-1,2-Dichloroethene	A	50.0	48.2	0.7800425	0.7520871		-3.6	
1,1-Dichloroethane	A	50.0	54.2	0.9053845	0.9810842	0.1	8.4	
Vinyl acetate	A	50.0	49.7	0.9979671	0.9921104		-0.6	
2,2-Dichloropropane	A	50.0	54.1	0.6953845	0.7529535		8.3	
2-Butanone	A	50.0	48.6	0.1759346	0.170854		-2.9	
cis-1,2-Dichloroethene	A	50.0	52.3	0.6901689	0.721563		4.5	
Chloroform	A	50.0	51.6	0.8372235	0.8640373		3.2	20
Bromochloromethane	A	50.0	53.6	0.2956708	0.3167018		7.1	
Cyclohexane	A	50.0	49.9	1.170159	1.16885		-0.1	

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CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1602114		
Project:	255 East 138th Street		
Instrument ID:	GC/MS A	Calibration:	16I2601
Lab File ID:	A10215.D	Calibration Date:	09/22/16 14:34
Sequence:	S6K0809	Injection Date:	11/08/16
Lab Sample ID:	S6K0809-CCV1	Injection Time:	10:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Chlorobenzene	A	50.0	57.0	0.8997825	1.025433	0.3	14.0	
1,1,1,2-Tetrachloroethane	A	50.0	57.6	0.2656336	0.3059474		15.2	
m,p-Xylenes	A	100	111	1.1954	1.328305		11.1	
o-Xylene	A	100	110	1.269878	1.390613		9.5	
Styrene	A	100	112	1.004685	1.123826		11.9	
Bromoform	A	50.0	59.2	0.126804	0.1501623	0.1	18.4	
Isopropylbenzene	A	50.0	57.2	3.577724	4.091742		14.4	
1,1,2,2-Tetrachloroethane	A	50.0	58.0	0.5674752	0.6576692	0.3	15.9	
1,2,3-Trichloropropane	A	50.0	54.4	0.4067208	0.4425595		8.8	
n-Propyl Benzene	A	50.0	56.0	4.507736	5.051174		12.1	
Bromobenzene	A	50.0	54.9	1.26774	1.391147		9.7	
1,3,5-Trimethylbenzene	A	50.0	57.1	2.70715	3.090306		14.2	
2-Chlorotoluene	A	50.0	54.9	2.418182	2.655306		9.8	
4-Chlorotoluene	A	50.0	55.8	2.495661	2.785638		11.6	
tert-Butylbenzene	A	50.0	57.0	2.362289	2.69097		13.9	
1,2,4-Trimethylbenzene	A	50.0	56.4	2.733594	3.081047		12.7	
sec-Butylbenzene	A	50.0	56.5	3.796163	4.29034		13.0	
p-Isopropyltoluene	A	50.0	56.9	3.018334	3.43411		13.8	
1,3-Dichlorobenzene	A	50.0	56.9	1.483864	1.689419		13.9	
1,4-Dichlorobenzene	A	50.0	55.7	1.461118	1.627474		11.4	
n-Butyl Benzene	A	50.0	56.4	3.153113	3.553679		12.7	
1,2-Dichlorobenzene	A	50.0	55.0	1.271064	1.397533		9.9	
1,2-Dibromo-3-chloropropane	L	50.0	52.0	7.382205E-02	9.029024E-02		22.3	

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CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1602114		
Project:	255 East 138th Street		
Instrument ID:	GC/MS A	Calibration:	16I2601
Lab File ID:	A10215.D	Calibration Date:	09/22/16 14:34
Sequence:	S6K0809	Injection Date:	11/08/16
Lab Sample ID:	S6K0809-CCV1	Injection Time:	10:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2,4-Trichlorobenzene	A	50.0	56.0	0.8197279	0.9180562		12.0	
Hexachlorobutadiene	A	50.0	62.1	0.3444627	0.4279601		24.2	
Naphthalene	A	50.0	54.6	1.466261	1.601894		9.3	
1,2,3-Trichlorobenzene	A	50.0	55.7	0.6870029	0.7647627		11.3	
Methyl tert-Butyl Ether	A	100	101	1.836288	1.85181		0.8	
1,2-Dichloroethane-d4	A	50.0	45.2	0.228735	0.2065405		-9.7	
Toluene-d8	A	50.0	49.5	1.08216	1.070507		-1.1	
Bromofluorobenzene	A	50.0	50.4	0.3733596	0.3765647		0.9	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1602114		
Project:	255 East 138th Street		
Instrument ID:	GC/MS A	Calibration:	16K2901
Lab File ID:	A10254.D	Calibration Date:	11/11/16 14:06
Sequence:	S6K1109	Injection Date:	11/11/16
Lab Sample ID:	S6K1109-CCV1	Injection Time:	09:23

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	267	4.205456E-02	4.488232E-02		6.7	
Acrylonitrile	A	250	264	0.1110298	0.1174163		5.8	
Acetone	L	50.0	55.4	0.2259427	0.2234557		-1.1	
Dichlorodifluoromethane	L	50.0	47.7	0.4876265	0.4766915		-2.2	
Chloromethane	A	50.0	48.7	0.8110507	0.7901128	0.1	-2.6	
Vinyl chloride	A	50.0	50.6	0.763105	0.7727911		1.3	20
Bromomethane	A	50.0	50.4	0.5218592	0.5257469		0.7	
Chloroethane	A	50.0	46.4	0.2265883	0.210158		-7.3	
Trichlorofluoromethane	A	50.0	49.1	0.5953867	0.584996		-1.7	
Freon 113	A	50.0	50.0	0.565017	0.5652417		0.04	
1,1-Dichloroethene	A	50.0	48.9	0.7385413	0.7226328		-2.2	20
Carbon disulfide	A	50.0	48.6	1.917528	1.865081		-2.7	
Methyl Acetate	A	50.0	46.5	0.2397146	0.2228955		-7.0	
Methylene Chloride	L	50.0	50.9	1.205642	0.7753835		-35.7	
trans-1,2-Dichloroethene	A	50.0	50.1	0.774129	0.7750433		0.1	
1,1-Dichloroethane	A	50.0	50.2	0.9423943	0.9463662	0.1	0.4	
Vinyl acetate	A	50.0	51.0	0.8741036	0.8909953		1.9	
2,2-Dichloropropane	A	50.0	51.4	0.7218103	0.7424682		2.9	
2-Butanone	A	50.0	55.4	0.2327747	0.2579763		10.8	
cis-1,2-Dichloroethene	A	50.0	50.7	0.7206962	0.7303811		1.3	
Chloroform	A	50.0	50.5	0.8320457	0.839947		0.9	20
Bromochloromethane	A	50.0	51.3	0.3100194	0.3179209		2.5	
Cyclohexane	A	50.0	49.7	1.046255	1.039682		-0.6	

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1602114

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6K0901	Prep Method:	EPA 3550B GCMS
Percent Solids:	82.20	Laboratory ID:	B6K0901-MS1
		Client Sample ID:	1602125-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Hexachlorocyclopentadiene	2030	ND	659	33		20 - 160
2,4,6-Trichlorophenol	2030	ND	1740	86		70 - 130
2,4,5-Trichlorophenol	2030	ND	1740	86		70 - 130
2-Chloronaphthalene	2030	ND	1830	90		70 - 130
2-Nitroaniline	2030	ND	1750	87		70 - 130
Dimethylphthalate	2030	ND	1860	92		70 - 130
Acenaphthylene	2030	ND	1840	91		70 - 130
3-Nitroaniline	2030	ND	1320	65	*	70 - 130
Acenaphthene	2030	ND	1850	91		70 - 130
2,4-Dinitrophenol	2030	ND	1760	87		20 - 160
4-Nitrophenol	2030	ND	1730	85		20 - 160
Dibenzofuran	2030	ND	1870	92		70 - 130
2,6-Dinitrotoluene	2030	ND	1860	92		70 - 130
2,4-Dinitrotoluene	2030	ND	1930	95		70 - 130
2,3,4,6-Tetrachlorophenol	2030	ND	1670	82		70 - 130
Diethyl phthalate	2030	ND	1950	96		70 - 130
4-Chlorophenyl-phenylether	2030	ND	1730	85		70 - 130
Fluorene	2030	ND	1900	94		70 - 130
4-Nitroaniline	2030	ND	1580	78		70 - 130
4,6-Dinitro-2-methylphenol	2030	ND	2010	99		70 - 130
Carbazole	2030	ND	1890	93		70 - 130
N-Nitrosodiphenylamine	2030	ND	2090	103		20 - 160
Azobenzene	2030	ND	2060	102		70 - 130
4-Bromophenyl-phenylether	2030	ND	1820	90		70 - 130
Hexachlorobenzene	2030	ND	1840	91		70 - 130
Pentachlorophenol	2030	ND	1640	81		20 - 160
Phenanthrene	2030	88.7	2040	96		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1602114

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6K0901	Prep Method:	EPA 3550B GCMS
Percent Solids:	82.20	Laboratory ID:	B6K0901-MSD1
		Client Sample ID:	1602125-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Pyridine	2030	997	49		11	30	20 - 160
N-Nitrosodimethylamine	2030	1200	59		9	30	20 - 160
Aniline	2030	955	47		11	30	20 - 160
Phenol	2030	1470	72		11	30	20 - 160
bis(2-chloroethyl)ether	2030	1360	67	*	12	30	70 - 130
2-Chlorophenol	2030	1470	73		10	30	70 - 130
1,3-Dichlorobenzene	2030	1430	71		10	30	70 - 130
1,4-Dichlorobenzene	2030	1490	73		9	30	70 - 130
Benzyl alcohol	2030	1490	73		11	30	20 - 160
1,2-Dichlorobenzene	2030	1490	73		11	30	70 - 130
2-Methylphenol	2030	1460	72		11	30	20 - 160
bis(2-chloroisopropyl)ether	2030	1320	65	*	12	30	70 - 130
3 & 4-Methylphenol	2030	1540	73		13	30	20 - 160
N-Nitroso-di-n-propylamine	2030	1510	75		12	30	70 - 130
Hexachloroethane	2030	1300	64		10	30	20 - 160
Nitrobenzene	2030	1500	74		9	30	70 - 130
Isophorone	2030	1400	69	*	10	30	70 - 130
2-Nitrophenol	2030	1560	77		9	30	70 - 130
2,4-Dimethylphenol	2030	1450	71		10	30	70 - 130
bis(2-chloroethoxy)methane	2030	1370	68	*	11	30	70 - 130
2,4-Dichlorophenol	2030	1520	75		12	30	70 - 130
1,2,4-Trichlorobenzene	2030	1470	73		8	30	70 - 130
Naphthalene	2030	1610	79		8	30	70 - 130
4-Chloroaniline	2030	675	33		3	30	20 - 160
Hexachlorobutadiene	2030	1450	71		9	30	70 - 130
4-Chloro-3-methylphenol	2030	1520	75		10	30	70 - 130
2-Methylnaphthylene	2030	1640	81		8	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1602114

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6K0901	Prep Method:	EPA 3550B GCMS
Percent Solids:	82.20	Laboratory ID:	B6K0901-MSD1
		Client Sample ID:	1602125-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Hexachlorocyclopentadiene	2030	666	33		1	30	20 - 160
2,4,6-Trichlorophenol	2030	1610	79		8	30	70 - 130
2,4,5-Trichlorophenol	2030	1640	81		6	30	70 - 130
2-Chloronaphthalene	2030	1720	85		6	30	70 - 130
2-Nitroaniline	2030	1650	81		6	30	70 - 130
Dimethylphthalate	2030	1810	89		3	30	70 - 130
Acenaphthylene	2030	1710	85		7	30	70 - 130
3-Nitroaniline	2030	1250	62	*	5	30	70 - 130
Acenaphthene	2030	1730	85		7	30	70 - 130
2,4-Dinitrophenol	2030	1540	76		13	30	20 - 160
4-Nitrophenol	2030	1510	75		13	30	20 - 160
Dibenzofuran	2030	1780	88		5	30	70 - 130
2,6-Dinitrotoluene	2030	1720	85		8	30	70 - 130
2,4-Dinitrotoluene	2030	1710	85		12	30	70 - 130
2,3,4,6-Tetrachlorophenol	2030	1520	75		10	30	70 - 130
Diethyl phthalate	2030	1830	90		7	30	70 - 130
4-Chlorophenyl-phenylether	2030	1640	81		5	30	70 - 130
Fluorene	2030	1820	90		5	30	70 - 130
4-Nitroaniline	2030	1490	73		6	30	70 - 130
4,6-Dinitro-2-methylphenol	2030	1850	91		8	30	70 - 130
Carbazole	2030	1840	91		3	30	70 - 130
N-Nitrosodiphenylamine	2030	1950	96		7	30	20 - 160
Azobenzene	2030	1740	86		17	30	70 - 130
4-Bromophenyl-phenylether	2030	1700	84		6	30	70 - 130
Hexachlorobenzene	2030	1730	85		6	30	70 - 130
Pentachlorophenol	2030	1440	71		13	30	20 - 160
Phenanthrene	2030	2610	124		24	30	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1602114

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6K0901	Lab Sample ID:	B6K0901-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	1070	64	20 - 160
N-Nitrosodimethylamine	1670	1150	69	20 - 160
Aniline	1670	1090	66	20 - 160
Phenol	1670	1240	74	20 - 160
bis(2-chloroethyl)ether	1670	1210	73	70 - 130
2-Chlorophenol	1670	1290	77	70 - 130
1,3-Dichlorobenzene	1670	1270	76	70 - 130
1,4-Dichlorobenzene	1670	1300	78	70 - 130
Benzyl alcohol	1670	1330	80	20 - 160
1,2-Dichlorobenzene	1670	1310	78	70 - 130
2-Methylphenol	1670	1310	78	20 - 160
bis(2-chloroisopropyl)ether	1670	1170	70	70 - 130
3 & 4-Methylphenol	1670	1340	80	20 - 160
N-Nitroso-di-n-propylamine	1670	1340	80	70 - 130
Hexachloroethane	1670	1300	78	20 - 160
Nitrobenzene	1670	1280	77	70 - 130
Isophorone	1670	1190	71	70 - 130
2-Nitrophenol	1670	1310	79	70 - 130
2,4-Dimethylphenol	1670	1240	74	70 - 130
bis(2-chloroethoxy)methane	1670	1210	72	70 - 130
2,4-Dichlorophenol	1670	1330	80	70 - 130
1,2,4-Trichlorobenzene	1670	1260	76	70 - 130
Naphthalene	1670	1360	82	70 - 130
4-Chloroaniline	1670	1040	62 *	70 - 130
Hexachlorobutadiene	1670	1200	72	70 - 130
4-Chloro-3-methylphenol	1670	1300	78	70 - 130
2-Methylnaphthylene	1670	1410	85	70 - 130
Hexachlorocyclopentadiene	1670	1050	63	20 - 160

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602114
Project: 255 East 138th Street

Calibration:	16I2803	Instrument:	GC/MS E
		Calibration Date:	9/14/2016 3:40:46PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	1.014123	7.169767		
4-Chloroaniline	0.4402657	5.784603		
Hexachlorobutadiene	0.1464964	3.84209	CCC (20)	
Caprolactam	0.1709709	6.445732		
4-Chloro-3-methylphenol	0.2768656	2.695514	CCC (20)	
2-Methylnaphthylene	0.6891113	5.691868		
1,2,4,5-Tetrachlorobenzene	0.5149505	9.15819		
Hexachlorocyclopentadiene	0.2714654	5.752113	SPCC (0.05)	
2,4,6-Trichlorophenol	0.3723882	3.624578	CCC (20)	
2,4,5-Trichlorophenol	0.3753609	3.607611		
2-Chloronaphthalene	1.119885	10.07415		
1,1-Biphenyl	1.384107	13.65235		
2-Nitroaniline	0.315577	3.81697		
Dimethylphthalate	1.253171	7.026729		
Acenaphthylene	1.848672	8.44986		
3-Nitroaniline	0.3983313	2.923779		
Acenaphthene	1.122913	5.841823	CCC (20)	
2,4-Dinitrophenol	0.1466101	43.82366	SPCC (0.05)	
4-Nitrophenol	9.450922E-02	12.00512	SPCC (0.05)	
Dibenzofuran	1.533681	7.637788		
2,6-Dinitrotoluene	0.3239296	3.154134		
2,4-Dinitrotoluene	0.3991266	4.741015		
2,3,4,6-Tetrachlorophenol	0.2782603	4.7421		
Diethyl phthalate	1.215381	4.575979		
4-Chlorophenyl-phenylether	0.526632	7.91456		

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602114
Project: 255 East 138th Street

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B6K0722	Preparation:	EPA 3050B
% Solids:	88.10	Laboratory ID:	B6K0722-MS1
		Client Sample ID:	1602113-02

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)		MS % REC.		QC LIMITS REC.
Aluminum	284 *	4320	5880	*	550	*	75 - 125
Antimony	284	18.3	298		98.5		75 - 125
Arsenic	284	16.1	303		101		75 - 125
Barium	284	385	662		97.6		75 - 125
Beryllium	284	ND	280		98.7		75 - 125
Cadmium	284	5.40	275		94.9		75 - 125
Calcium	284 *	9010	9170	*	57.8	*	75 - 125
Chromium	284	36.5	305		94.5		75 - 125
Cobalt	284	9.20	271		92.2		75 - 125
Copper	284	136	427		102		75 - 125
Lead	284	740	1190	*	157	*	75 - 125
Magnesium	284 *	2570	2740	*	60.1	*	75 - 125
Manganese	284	272	541		94.7		75 - 125
Nickel	284	24.9	281		90.1		75 - 125
Potassium	284	663	1180	*	181	*	75 - 125
Selenium	284	ND	271		95.4		75 - 125
Silver	28.4	ND	26.6		93.6		75 - 125
Sodium	284	340	835	*	175	*	75 - 125
Thallium	284	ND	238		83.9		75 - 125
Vanadium	284	41.3	323		99.4		75 - 125
Zinc	284	608	952		122		75 - 125

* Amt. Added < 25% Sample conc.

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602114
Project: 255 East 138th Street

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B6K0722	Preparation:	EPA 3050B
% Solids:	88.10	Laboratory ID:	B6K0722-MSD1
		Client Sample ID:	1602113-02

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Aluminum	284	5820	528	*	1.07	20	75 - 125
Antimony	284	301	99.7		1.14	20	75 - 125
Arsenic	284	304	102		0.430	20	75 - 125
Barium	284	697	110		5.18	20	75 - 125
Beryllium	284	284	100		1.33	20	75 - 125
Cadmium	284	276	95.5		0.639	20	75 - 125
Calcium	284	8830	-62.2	*	3.78	20	75 - 125
Chromium	284	311	96.7		2.03	20	75 - 125
Cobalt	284	273	92.9		0.752	20	75 - 125
Copper	284	440	107		2.87	20	75 - 125
Lead	284	1250	181	*	5.58	20	75 - 125
Magnesium	284	2640	26.7	*	3.52	20	75 - 125
Manganese	284	538	93.7		0.537	20	75 - 125
Nickel	284	284	91.2		1.11	20	75 - 125
Potassium	284	1190	186	*	1.15	20	75 - 125
Selenium	284	273	96.1		0.794	20	75 - 125
Silver	28.4	27.1	95.3		1.82	20	75 - 125
Sodium	284	806	164	*	3.60	20	75 - 125
Thallium	284	239	84.2		0.381	20	75 - 125
Vanadium	284	325	100		0.630	20	75 - 125
Zinc	284	905	105		5.07	20	75 - 125

Accredited Analytical Resources, LLC.

SERIAL DILUTION

EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1602114
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Matrix:	Solid	Laboratory ID:	S6K0802-SRD1
Sequence:	S6K0802	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Magnesium	2570	2450	4.58		10.00
Antimony	18.3	ND	N/A		10.00
Arsenic	16.1	14.6	10.2	*	10.00
Barium	385	354	8.39		10.00
Beryllium	ND	ND	N/A		10.00
Cadmium	5.40	4.77	12.4	*	10.00
Calcium	9010	8740	3.07		10.00
Chromium	36.5	34.3	6.29		10.00
Cobalt	9.20	ND	N/A		10.00
Aluminum	4320	3980	8.03		10.00
Lead	740	756	2.12		10.00
Manganese	272	261	4.12		10.00
Nickel	24.9	24.0	4.00		10.00
Potassium	663	604	9.24		10.00
Selenium	ND	ND	N/A		10.00
Silver	ND	ND	N/A		10.00
Sodium	340	312	8.62		10.00
Thallium	ND	ND	N/A		10.00
Vanadium	41.3	37.9	8.56		10.00
Zinc	608	600	1.29		10.00
Copper	136	131	4.39		10.00

* Values outside of QC limits

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1602245

8 Soil Samples

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

December 2016

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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REVIEWER'S NARRATIVE
SDG 1602245

The data associated with this Sample Delivery Group (SDG) 1602245, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 12/18/16
Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx, NY
SAMPLING DATE:	December 2, 2016
SAMPLE TYPE:	8 soil samples
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1602245

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for eight soil samples collected on December 2, 2016. These samples were analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls (PCBs), TAL metals, hexavalent chromium, and total cyanide.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1602245. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-6. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1602245, eight samples were analyzed and results were reported for 1518 analytes. Five results were rejected. Even though some results were flagged with a "J" as estimated, all other results (99.7 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
EP-34 EP-35 EP-37	Methylene Chloride (3.28)	J detects	Method Blank contamination	J detects up to 10X MB level
EP-35 EP-36 EP-37	Isopropylbenzene 1,12,2-Tetrachlorobenzene 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene 2-Chlorotoluene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butybenzene p-Isopropyltoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene DBCP 1,2,4-Trichlorobenzene Hexachlorobutadiene 1,2,3-Trichlorbenzene	UJ non-detects J detects	IS#4 area < 50 % QC limit	Data may be biased low
All samples	Acetone Methylene Chloride	J detects	ICV RPD > 20 %	Sample detects are estimated

All samples	Acetone Methylene Chloride 2-Chloroethylvinylether	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated

Table 6-2 SVOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	4-Chloroaniline 3-Nitroaniline	"UJ"	LCS < 70 % QC limit	All samples non-detect
EP-39 EP-39 RE	3,3'-Dichlorobenzene Benzo(a)anthracene bis(2-Ethylhexyl)phthlate Chrysene	R non-detects J detects	IS #5 area < 50 % QC limit	Non-detects are unusable, detects may be biased low
EP-39 EP-39 RE EP-34	Di-n-octylphthlate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene	R non-detects J detects	IS #6 area < 50 % QC limit	Non-detects are unusable, detects may be biased low

Table 6-3 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-4 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

Table 6-5 TAL Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	Sodium	J Detects	Matrix Spike rec > 125 %	Data is estimated
All samples	Aluminum	J Detects	Serial dilution > 10 %	Data is estimated

Table 6-6 Wet Chemistry

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1602245

Client Sample ID:	Lab Sample ID:
EP-34	1602245-01
EP-35	1602245-02
EP-36	1602245-03
EP-37	1602245-04
EP-38	1602245-05
EP-39	1602245-06
EP-39	1602245-06RE1
EP-40	1602245-07
DUP-2	1602245-08

This data has been reviewed and accepted by:

Daniel Miguel 12/09/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

AAR Work Order: **1602245**

Accredited Analytical Resources, LLC received 8 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 12/02/2016 16:45.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the laboratory control sample (LCS) for Batch B6L0515 and B6L0614 recovered outside control limits for certain analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the Volatile Organic analyses, the MS/MSD for Batch B6L0515, B6L0614 and B6L0715 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits for affected compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6L0502 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6L0502 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B6L0502-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSd. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME	255 East 138th Street
CONTACT	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO	Sean Harrison
EMAIL FOR INVOICE	sharrison@brinkenv.com

CLIENT NAME	Brinkerhoff Environmental
ADDRESS	1805 Atlantic Ave
CITY	Manasquan
STATE	NJ
ZIP	08736

AAR QUOTE #	
AAR WORK ORDER #	1602245
P.O. #	10BR188

ANALYSIS

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
PRES. CODE →						5	5	5	
CONT. CODE →						E	G	G	
EP-34	12/2/16 1415	S	3	4	G	X	X	X	-01
EP-35	1424		3						-02
EP-36	1432		4						-03
EP-37	1440		5						-04
EP-38	1455		4						-05
EP-39	1505		5						-06
EP-40	1510		6						-07
DUP-2	1520		6			X	X	X	-08

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME (CIRCLE ONE): STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER X
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: 3 DAY TAT on Results, 5 DAY TAT for CATB Report. NYSDEC Category B data deliverables.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/2/16 Time: 1645		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-34	1602245-01	Soil	12/02/2016 14:15	12/02/2016 16:45
EP-35	1602245-02	Soil	12/02/2016 14:24	12/02/2016 16:45
EP-36	1602245-03	Soil	12/02/2016 14:32	12/02/2016 16:45
EP-37	1602245-04	Soil	12/02/2016 14:40	12/02/2016 16:45
EP-38	1602245-05	Soil	12/02/2016 14:55	12/02/2016 16:45
EP-39	1602245-06	Soil	12/02/2016 15:05	12/02/2016 16:45
EP-40	1602245-07	Soil	12/02/2016 15:10	12/02/2016 16:45
DUP-2	1602245-08	Soil	12/02/2016 15:20	12/02/2016 16:45

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.20	12.0	U
107-13-1	Acrylonitrile	ND	2.40	12.0	U
67-64-1	Acetone	7.17 J	1.20	2.40	
75-71-8	Dichlorodifluoromethane	ND	1.20	2.40	U
74-87-3	Chloromethane	ND	1.20	2.40	U
75-01-4	Vinyl chloride	ND	1.20	2.40	U
74-83-9	Bromomethane	ND	1.20	2.40	U
75-00-3	Chloroethane	ND	1.20	2.40	U
75-69-4	Trichlorofluoromethane	ND	1.20	2.40	U
75-35-4	1,1-Dichloroethene	ND	1.20	2.40	U
75-15-0	Carbon disulfide	ND	1.20	2.40	U
75-09-2	Methylene Chloride	ND UJ	1.20	2.40	U
156-60-5	trans-1,2-Dichloroethene	ND	1.20	2.40	U
75-34-3	1,1-Dichloroethane	ND	1.20	2.40	U
108-05-4	Vinyl acetate	ND	1.20	2.40	U
590-20-7	2,2-Dichloropropane	ND	1.20	2.40	U
78-93-3	2-Butanone	ND	1.20	2.40	U
156-59-4	cis-1,2-Dichloroethene	ND	1.20	2.40	U
67-66-3	Chloroform	ND	1.20	2.40	U
74-97-5	Bromochloromethane	ND	1.20	2.40	U
71-55-6	1,1,1-Trichloroethane	ND	1.20	2.40	U
563-58-6	1,1-Dichloropropene	ND	1.20	2.40	U
56-23-5	Carbon Tetrachloride	ND	1.20	2.40	U
107-06-2	1,2-Dichloroethane	ND	1.20	2.40	U
71-43-2	Benzene	ND	1.20	2.40	U

MYP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.20	2.40	U
78-87-5	1,2-Dichloropropane	ND	1.20	2.40	U
75-27-4	Bromodichloromethane	ND	1.20	2.40	U
74-95-3	Dibromomethane	ND	1.20	2.40	U
110-75-8	2-Chloroethyl vinyl ether	ND UJ	1.20	2.40	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.20	2.40	U
108-88-3	Toluene	ND	1.20	2.40	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.20	2.40	U
79-00-5	1,1,2-Trichloroethane	ND	1.20	2.40	U
108-10-1	4-Methyl-2-pentanone	ND	1.20	2.40	U
106-93-4	1,2-Dibromoethane	ND	1.20	2.40	U
591-78-6	2-Hexanone	ND	1.20	2.40	U
142-28-9	1,3-Dichloropropane	ND	1.20	2.40	U
127-18-4	Tetrachloroethene	ND	1.20	2.40	U
124-48-1	Dibromochloromethane	ND	1.20	2.40	U
100-41-4	Ethylbenzene	ND	1.20	2.40	U
108-90-7	Chlorobenzene	ND	1.20	2.40	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.20	2.40	U
108-38-3/106-42	m,p-Xylenes	ND	2.40	4.80	U
95-47-6	o-Xylene	ND	2.40	4.80	U
100-42-5	Styrene	ND	1.20	4.80	U
75-25-2	Bromoform	ND	1.20	2.40	U
98-82-8	Isopropylbenzene	ND	1.20	2.40	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.20	2.40	U
96-18-4	1,2,3-Trichloropropane	ND	1.20	2.40	U

 MKP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	1.20	2.40	U
108-86-1	Bromobenzene	ND	1.20	2.40	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.20	2.40	U
95-49-8	2-Chlorotoluene	ND	1.20	2.40	U
106-43-4	4-Chlorotoluene	ND	1.20	2.40	U
98-06-6	tert-Butylbenzene	ND	1.20	2.40	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.20	2.40	U
135-98-8	sec-Butylbenzene	ND	1.20	2.40	U
99-87-6	p-Isopropyltoluene	ND	1.20	2.40	U
541-73-1	1,3-Dichlorobenzene	ND	1.20	2.40	U
106-46-7	1,4-Dichlorobenzene	ND	1.20	2.40	U
104-51-8	n-Butyl Benzene	ND	1.20	2.40	U
95-50-1	1,2-Dichlorobenzene	ND	1.20	2.40	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.20	2.40	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.20	2.40	U
87-68-3	Hexachlorobutadiene	ND	1.20	2.40	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.20	2.40	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	110%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	94%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.05	11.7	U
107-13-1	Acrylonitrile	ND	2.35	11.7	U
67-64-1	Acetone	ND UJ	1.17	2.35	U
75-71-8	Dichlorodifluoromethane	ND	1.17	2.35	U
74-87-3	Chloromethane	ND	1.17	2.35	U
75-01-4	Vinyl chloride	ND	1.17	2.35	U
74-83-9	Bromomethane	ND	1.17	2.35	U
75-00-3	Chloroethane	ND	1.17	2.35	U
75-69-4	Trichlorofluoromethane	ND	1.17	2.35	U
75-35-4	1,1-Dichloroethene	ND	1.17	2.35	U
75-15-0	Carbon disulfide	ND	1.17	2.35	U
75-09-2	Methylene Chloride	ND UJ	1.17	2.35	U
156-60-5	trans-1,2-Dichloroethene	ND	1.17	2.35	U
75-34-3	1,1-Dichloroethane	ND	1.17	2.35	U
108-05-4	Vinyl acetate	ND	1.17	2.35	U
590-20-7	2,2-Dichloropropane	ND	1.17	2.35	U
78-93-3	2-Butanone	ND	1.17	2.35	U
156-59-4	cis-1,2-Dichloroethene	ND	1.17	2.35	U
67-66-3	Chloroform	ND	1.17	2.35	U
74-97-5	Bromochloromethane	ND	1.17	2.35	U
71-55-6	1,1,1-Trichloroethane	ND	1.17	2.35	U
563-58-6	1,1-Dichloropropene	ND	1.17	2.35	U
56-23-5	Carbon Tetrachloride	ND	1.17	2.35	U
107-06-2	1,2-Dichloroethane	ND	1.17	2.35	U
71-43-2	Benzene	ND	1.17	2.35	U

 MXP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.17	2.35	U
78-87-5	1,2-Dichloropropane	ND	1.17	2.35	U
75-27-4	Bromodichloromethane	ND	1.17	2.35	U
74-95-3	Dibromomethane	ND	1.17	2.35	U
110-75-8	2-Chloroethyl vinyl ether	ND UJ	1.17	2.35	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.17	2.35	U
108-88-3	Toluene	ND	1.17	2.35	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.17	2.35	U
79-00-5	1,1,2-Trichloroethane	ND	1.17	2.35	U
108-10-1	4-Methyl-2-pentanone	ND	1.17	2.35	U
106-93-4	1,2-Dibromoethane	ND	1.17	2.35	U
591-78-6	2-Hexanone	ND	1.17	2.35	U
142-28-9	1,3-Dichloropropane	ND	1.17	2.35	U
127-18-4	Tetrachloroethene	ND	1.17	2.35	U
124-48-1	Dibromochloromethane	ND	1.17	2.35	U
100-41-4	Ethylbenzene	ND	1.17	2.35	U
108-90-7	Chlorobenzene	ND	1.17	2.35	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.17	2.35	U
108-38-3/106-42	m,p-Xylenes	ND	2.35	4.70	U
95-47-6	o-Xylene	ND	2.35	4.70	U
100-42-5	Styrene	ND	1.17	4.70	U
75-25-2	Bromoform	ND	1.17	2.35	U
98-82-8	Isopropylbenzene	ND UJ	1.17	2.35	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.17	2.35	U
96-18-4	1,2,3-Trichloropropane	ND	1.17	2.35	U

 MKP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND UJ	1.17	2.35	U
108-86-1	Bromobenzene	ND	1.17	2.35	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.17	2.35	U
95-49-8	2-Chlorotoluene	ND	1.17	2.35	U
106-43-4	4-Chlorotoluene	ND	1.17	2.35	U
98-06-6	tert-Butylbenzene	ND	1.17	2.35	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.17	2.35	U
135-98-8	sec-Butylbenzene	ND	1.17	2.35	U
99-87-6	p-Isopropyltoluene	ND	1.17	2.35	U
541-73-1	1,3-Dichlorobenzene	ND	1.17	2.35	U
106-46-7	1,4-Dichlorobenzene	ND	1.17	2.35	U
104-51-8	n-Butyl Benzene	ND	1.17	2.35	U
95-50-1	1,2-Dichlorobenzene	ND	1.17	2.35	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.17	2.35	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.17	2.35	U
87-68-3	Hexachlorobutadiene	ND	1.17	2.35	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.17	2.35	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	111%	70-130
Toluene-d8	86%	70-130
Bromofluorobenzene	75%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

 MKP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.54	12.6	U
107-13-1	Acrylonitrile	ND	2.51	12.6	U
67-64-1	Acetone	ND UJ	1.26	2.51	U
75-71-8	Dichlorodifluoromethane	ND	1.26	2.51	U
74-87-3	Chloromethane	ND	1.26	2.51	U
75-01-4	Vinyl chloride	ND	1.26	2.51	U
74-83-9	Bromomethane	ND	1.26	2.51	U
75-00-3	Chloroethane	ND	1.26	2.51	U
75-69-4	Trichlorofluoromethane	ND	1.26	2.51	U
75-35-4	1,1-Dichloroethene	ND	1.26	2.51	U
75-15-0	Carbon disulfide	ND	1.26	2.51	U
75-09-2	Methylene Chloride	ND UJ	1.26	2.51	U
156-60-5	trans-1,2-Dichloroethene	ND	1.26	2.51	U
75-34-3	1,1-Dichloroethane	ND	1.26	2.51	U
108-05-4	Vinyl acetate	ND	1.26	2.51	U
590-20-7	2,2-Dichloropropane	ND	1.26	2.51	U
78-93-3	2-Butanone	ND	1.26	2.51	U
156-59-4	cis-1,2-Dichloroethene	ND	1.26	2.51	U
67-66-3	Chloroform	ND	1.26	2.51	U
74-97-5	Bromochloromethane	ND	1.26	2.51	U
71-55-6	1,1,1-Trichloroethane	ND	1.26	2.51	U
563-58-6	1,1-Dichloropropene	ND	1.26	2.51	U
56-23-5	Carbon Tetrachloride	ND	1.26	2.51	U
107-06-2	1,2-Dichloroethane	ND	1.26	2.51	U
71-43-2	Benzene	ND	1.26	2.51	U

 MAP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.26	2.51	U
78-87-5	1,2-Dichloropropane	ND	1.26	2.51	U
75-27-4	Bromodichloromethane	ND	1.26	2.51	U
74-95-3	Dibromomethane	ND	1.26	2.51	U
110-75-8	2-Chloroethyl vinyl ether	ND UJ	1.26	2.51	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.26	2.51	U
108-88-3	Toluene	ND	1.26	2.51	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.26	2.51	U
79-00-5	1,1,2-Trichloroethane	ND	1.26	2.51	U
108-10-1	4-Methyl-2-pentanone	ND	1.26	2.51	U
106-93-4	1,2-Dibromoethane	ND	1.26	2.51	U
591-78-6	2-Hexanone	ND	1.26	2.51	U
142-28-9	1,3-Dichloropropane	ND	1.26	2.51	U
127-18-4	Tetrachloroethene	ND	1.26	2.51	U
124-48-1	Dibromochloromethane	ND	1.26	2.51	U
100-41-4	Ethylbenzene	ND	1.26	2.51	U
108-90-7	Chlorobenzene	ND	1.26	2.51	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.26	2.51	U
108-38-3/106-42	m,p-Xylenes	ND	2.51	5.03	U
95-47-6	o-Xylene	ND	2.51	5.03	U
100-42-5	Styrene	ND	1.26	5.03	U
75-25-2	Bromoform	ND	1.26	2.51	U
98-82-8	Isopropylbenzene	ND UJ	1.26	2.51	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.26	2.51	U
96-18-4	1,2,3-Trichloropropane	ND	1.26	2.51	U

 MHP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND UJ	1.26	2.51	U
108-86-1	Bromobenzene	ND	1.26	2.51	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.26	2.51	U
95-49-8	2-Chlorotoluene	ND	1.26	2.51	U
106-43-4	4-Chlorotoluene	ND	1.26	2.51	U
98-06-6	tert-Butylbenzene	ND	1.26	2.51	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.26	2.51	U
135-98-8	sec-Butylbenzene	ND	1.26	2.51	U
99-87-6	p-Isopropyltoluene	ND	1.26	2.51	U
541-73-1	1,3-Dichlorobenzene	ND	1.26	2.51	U
106-46-7	1,4-Dichlorobenzene	ND	1.26	2.51	U
104-51-8	n-Butyl Benzene	ND	1.26	2.51	U
95-50-1	1,2-Dichlorobenzene	ND	1.26	2.51	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.26	2.51	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.26	2.51	U
87-68-3	Hexachlorobutadiene	ND	1.26	2.51	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.26	2.51	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	115%	70-130
Toluene-d8	91%	70-130
Bromofluorobenzene	78%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MEP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.10	11.8	U
107-13-1	Acrylonitrile	ND	2.37	11.8	U
67-64-1	Acetone	ND UJ	1.18	2.37	U
75-71-8	Dichlorodifluoromethane	ND	1.18	2.37	U
74-87-3	Chloromethane	ND	1.18	2.37	U
75-01-4	Vinyl chloride	ND	1.18	2.37	U
74-83-9	Bromomethane	ND	1.18	2.37	U
75-00-3	Chloroethane	ND	1.18	2.37	U
75-69-4	Trichlorofluoromethane	ND	1.18	2.37	U
75-35-4	1,1-Dichloroethene	ND	1.18	2.37	U
75-15-0	Carbon disulfide	ND	1.18	2.37	U
75-09-2	Methylene Chloride	ND UJ	1.18	2.37	U
156-60-5	trans-1,2-Dichloroethene	ND	1.18	2.37	U
75-34-3	1,1-Dichloroethane	ND	1.18	2.37	U
108-05-4	Vinyl acetate	ND	1.18	2.37	U
590-20-7	2,2-Dichloropropane	ND	1.18	2.37	U
78-93-3	2-Butanone	ND	1.18	2.37	U
156-59-4	cis-1,2-Dichloroethene	ND	1.18	2.37	U
67-66-3	Chloroform	ND	1.18	2.37	U
74-97-5	Bromochloromethane	ND	1.18	2.37	U
71-55-6	1,1,1-Trichloroethane	ND	1.18	2.37	U
563-58-6	1,1-Dichloropropene	ND	1.18	2.37	U
56-23-5	Carbon Tetrachloride	ND	1.18	2.37	U
107-06-2	1,2-Dichloroethane	ND	1.18	2.37	U
71-43-2	Benzene	ND	1.18	2.37	U

 VMKP 12/13/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.18	2.37	U
78-87-5	1,2-Dichloropropane	ND	1.18	2.37	U
75-27-4	Bromodichloromethane	ND	1.18	2.37	U
74-95-3	Dibromomethane	ND	1.18	2.37	U
110-75-8	2-Chloroethyl vinyl ether	ND UJ	1.18	2.37	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.18	2.37	U
108-88-3	Toluene	ND	1.18	2.37	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.18	2.37	U
79-00-5	1,1,2-Trichloroethane	ND	1.18	2.37	U
108-10-1	4-Methyl-2-pentanone	ND	1.18	2.37	U
106-93-4	1,2-Dibromoethane	ND	1.18	2.37	U
591-78-6	2-Hexanone	ND	1.18	2.37	U
142-28-9	1,3-Dichloropropane	ND	1.18	2.37	U
127-18-4	Tetrachloroethene	ND	1.18	2.37	U
124-48-1	Dibromochloromethane	ND	1.18	2.37	U
100-41-4	Ethylbenzene	ND	1.18	2.37	U
108-90-7	Chlorobenzene	ND	1.18	2.37	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.18	2.37	U
108-38-3/106-42	m,p-Xylenes	ND	2.37	4.73	U
95-47-6	o-Xylene	ND	2.37	4.73	U
100-42-5	Styrene	ND	1.18	4.73	U
75-25-2	Bromoform	ND	1.18	2.37	U
98-82-8	Isopropylbenzene	ND UJ	1.18	2.37	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.18	2.37	U
96-18-4	1,2,3-Trichloropropane	ND	1.18	2.37	U

 MKP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND uJ	1.18	2.37	U
108-86-1	Bromobenzene	ND	1.18	2.37	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.18	2.37	U
95-49-8	2-Chlorotoluene	ND	1.18	2.37	U
106-43-4	4-Chlorotoluene	ND	1.18	2.37	U
98-06-6	tert-Butylbenzene	ND	1.18	2.37	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.18	2.37	U
135-98-8	sec-Butylbenzene	ND	1.18	2.37	U
99-87-6	p-Isopropyltoluene	ND	1.18	2.37	U
541-73-1	1,3-Dichlorobenzene	ND	1.18	2.37	U
106-46-7	1,4-Dichlorobenzene	ND	1.18	2.37	U
104-51-8	n-Butyl Benzene	ND	1.18	2.37	U
95-50-1	1,2-Dichlorobenzene	ND	1.18	2.37	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.18	2.37	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.18	2.37	U
87-68-3	Hexachlorobutadiene	ND	1.18	2.37	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.18	2.37	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	110%	70-130
Toluene-d8	82%	70-130
Bromofluorobenzene	73%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

 MTP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.56	9.27	U
107-13-1	Acrylonitrile	ND	1.85	9.27	U
67-64-1	Acetone	1.85 J	0.927	1.85	
75-71-8	Dichlorodifluoromethane	ND	0.927	1.85	U
74-87-3	Chloromethane	ND	0.927	1.85	U
75-01-4	Vinyl chloride	ND	0.927	1.85	U
74-83-9	Bromomethane	ND	0.927	1.85	U
75-00-3	Chloroethane	ND	0.927	1.85	U
75-69-4	Trichlorofluoromethane	ND	0.927	1.85	U
75-35-4	1,1-Dichloroethene	ND	0.927	1.85	U
75-15-0	Carbon disulfide	ND	0.927	1.85	U
75-09-2	Methylene Chloride	ND UJ	0.927	1.85	U
156-60-5	trans-1,2-Dichloroethene	ND	0.927	1.85	U
75-34-3	1,1-Dichloroethane	ND	0.927	1.85	U
108-05-4	Vinyl acetate	ND	0.927	1.85	U
590-20-7	2,2-Dichloropropane	ND	0.927	1.85	U
78-93-3	2-Butanone	ND	0.927	1.85	U
156-59-4	cis-1,2-Dichloroethene	ND	0.927	1.85	U
67-66-3	Chloroform	ND	0.927	1.85	U
74-97-5	Bromochloromethane	ND	0.927	1.85	U
71-55-6	1,1,1-Trichloroethane	ND	0.927	1.85	U
563-58-6	1,1-Dichloropropene	ND	0.927	1.85	U
56-23-5	Carbon Tetrachloride	ND	0.927	1.85	U
107-06-2	1,2-Dichloroethane	ND	0.927	1.85	U
71-43-2	Benzene	ND	0.927	1.85	U

 MKP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.927	1.85	U
78-87-5	1,2-Dichloropropane	ND	0.927	1.85	U
75-27-4	Bromodichloromethane	ND	0.927	1.85	U
74-95-3	Dibromomethane	ND	0.927	1.85	U
110-75-8	2-Chloroethyl vinyl ether	ND UJ	0.927	1.85	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.927	1.85	U
108-88-3	Toluene	ND	0.927	1.85	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.927	1.85	U
79-00-5	1,1,2-Trichloroethane	ND	0.927	1.85	U
108-10-1	4-Methyl-2-pentanone	ND	0.927	1.85	U
106-93-4	1,2-Dibromoethane	ND	0.927	1.85	U
591-78-6	2-Hexanone	ND	0.927	1.85	U
142-28-9	1,3-Dichloropropane	ND	0.927	1.85	U
127-18-4	Tetrachloroethene	ND	0.927	1.85	U
124-48-1	Dibromochloromethane	ND	0.927	1.85	U
100-41-4	Ethylbenzene	ND	0.927	1.85	U
108-90-7	Chlorobenzene	ND	0.927	1.85	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.927	1.85	U
108-38-3/106-42	m,p-Xylenes	ND	1.85	3.71	U
95-47-6	o-Xylene	ND	1.85	3.71	U
100-42-5	Styrene	ND	0.927	3.71	U
75-25-2	Bromoform	ND	0.927	1.85	U
98-82-8	Isopropylbenzene	ND	0.927	1.85	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.927	1.85	U
96-18-4	1,2,3-Trichloropropane	ND	0.927	1.85	U

 MKP 12/8/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	0.927	1.85	U
108-86-1	Bromobenzene	ND	0.927	1.85	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.927	1.85	U
95-49-8	2-Chlorotoluene	ND	0.927	1.85	U
106-43-4	4-Chlorotoluene	ND	0.927	1.85	U
98-06-6	tert-Butylbenzene	ND	0.927	1.85	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.927	1.85	U
135-98-8	sec-Butylbenzene	ND	0.927	1.85	U
99-87-6	p-Isopropyltoluene	ND	0.927	1.85	U
541-73-1	1,3-Dichlorobenzene	ND	0.927	1.85	U
106-46-7	1,4-Dichlorobenzene	ND	0.927	1.85	U
104-51-8	n-Butyl Benzene	ND	0.927	1.85	U
95-50-1	1,2-Dichlorobenzene	ND	0.927	1.85	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.927	1.85	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.927	1.85	U
87-68-3	Hexachlorobutadiene	ND	0.927	1.85	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.927	1.85	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	101%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	91%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	6.72	11.2	U
107-13-1	Acrylonitrile	ND	2.24	11.2	U
67-64-1	Acetone	ND UJ	1.12	2.24	U
75-71-8	Dichlorodifluoromethane	ND	1.12	2.24	U
74-87-3	Chloromethane	ND	1.12	2.24	U
75-01-4	Vinyl chloride	ND	1.12	2.24	U
74-83-9	Bromomethane	ND	1.12	2.24	U
75-00-3	Chloroethane	ND	1.12	2.24	U
75-69-4	Trichlorofluoromethane	ND	1.12	2.24	U
75-35-4	1,1-Dichloroethene	ND	1.12	2.24	U
75-15-0	Carbon disulfide	ND	1.12	2.24	U
75-09-2	Methylene Chloride	ND UJ	1.12	2.24	U
156-60-5	trans-1,2-Dichloroethene	ND	1.12	2.24	U
75-34-3	1,1-Dichloroethane	ND	1.12	2.24	U
108-05-4	Vinyl acetate	ND	1.12	2.24	U
590-20-7	2,2-Dichloropropane	ND	1.12	2.24	U
78-93-3	2-Butanone	ND	1.12	2.24	U
156-59-4	cis-1,2-Dichloroethene	ND	1.12	2.24	U
67-66-3	Chloroform	ND	1.12	2.24	U
74-97-5	Bromochloromethane	ND	1.12	2.24	U
71-55-6	1,1,1-Trichloroethane	ND	1.12	2.24	U
563-58-6	1,1-Dichloropropene	ND	1.12	2.24	U
56-23-5	Carbon Tetrachloride	ND	1.12	2.24	U
107-06-2	1,2-Dichloroethane	ND	1.12	2.24	U
71-43-2	Benzene	ND	1.12	2.24	U

 MVP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.12	2.24	U
78-87-5	1,2-Dichloropropane	ND	1.12	2.24	U
75-27-4	Bromodichloromethane	ND	1.12	2.24	U
74-95-3	Dibromomethane	ND	1.12	2.24	U
110-75-8	2-Chloroethyl vinyl ether	ND UJ	1.12	2.24	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.12	2.24	U
108-88-3	Toluene	ND	1.12	2.24	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.12	2.24	U
79-00-5	1,1,2-Trichloroethane	ND	1.12	2.24	U
108-10-1	4-Methyl-2-pentanone	ND	1.12	2.24	U
106-93-4	1,2-Dibromoethane	ND	1.12	2.24	U
591-78-6	2-Hexanone	ND	1.12	2.24	U
142-28-9	1,3-Dichloropropane	ND	1.12	2.24	U
127-18-4	Tetrachloroethene	ND	1.12	2.24	U
124-48-1	Dibromochloromethane	ND	1.12	2.24	U
100-41-4	Ethylbenzene	ND	1.12	2.24	U
108-90-7	Chlorobenzene	ND	1.12	2.24	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.12	2.24	U
108-38-3/106-42	m,p-Xylenes	ND	2.24	4.48	U
95-47-6	o-Xylene	ND	2.24	4.48	U
100-42-5	Styrene	ND	1.12	4.48	U
75-25-2	Bromoform	ND	1.12	2.24	U
98-82-8	Isopropylbenzene	ND	1.12	2.24	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.12	2.24	U
96-18-4	1,2,3-Trichloropropane	ND	1.12	2.24	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	1.12	2.24	U
108-86-1	Bromobenzene	ND	1.12	2.24	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.12	2.24	U
95-49-8	2-Chlorotoluene	ND	1.12	2.24	U
106-43-4	4-Chlorotoluene	ND	1.12	2.24	U
98-06-6	tert-Butylbenzene	ND	1.12	2.24	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.12	2.24	U
135-98-8	sec-Butylbenzene	ND	1.12	2.24	U
99-87-6	p-Isopropyltoluene	ND	1.12	2.24	U
541-73-1	1,3-Dichlorobenzene	ND	1.12	2.24	U
106-46-7	1,4-Dichlorobenzene	ND	1.12	2.24	U
104-51-8	n-Butyl Benzene	ND	1.12	2.24	U
95-50-1	1,2-Dichlorobenzene	ND	1.12	2.24	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.12	2.24	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.12	2.24	U
87-68-3	Hexachlorobutadiene	ND	1.12	2.24	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.12	2.24	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	120%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	87%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.60	9.33	U
107-13-1	Acrylonitrile	ND	1.87	9.33	U
67-64-1	Acetone	6.59 J	0.933	1.87	
75-71-8	Dichlorodifluoromethane	ND	0.933	1.87	U
74-87-3	Chloromethane	ND	0.933	1.87	U
75-01-4	Vinyl chloride	ND	0.933	1.87	U
74-83-9	Bromomethane	ND	0.933	1.87	U
75-00-3	Chloroethane	ND	0.933	1.87	U
75-69-4	Trichlorofluoromethane	ND	0.933	1.87	U
75-35-4	1,1-Dichloroethene	ND	0.933	1.87	U
75-15-0	Carbon disulfide	ND	0.933	1.87	U
75-09-2	Methylene Chloride	ND UJ	0.933	1.87	U
156-60-5	trans-1,2-Dichloroethene	ND	0.933	1.87	U
75-34-3	1,1-Dichloroethane	ND	0.933	1.87	U
108-05-4	Vinyl acetate	ND	0.933	1.87	U
590-20-7	2,2-Dichloropropane	ND	0.933	1.87	U
78-93-3	2-Butanone	ND	0.933	1.87	U
156-59-4	cis-1,2-Dichloroethene	ND	0.933	1.87	U
67-66-3	Chloroform	ND	0.933	1.87	U
74-97-5	Bromochloromethane	ND	0.933	1.87	U
71-55-6	1,1,1-Trichloroethane	ND	0.933	1.87	U
563-58-6	1,1-Dichloropropene	ND	0.933	1.87	U
56-23-5	Carbon Tetrachloride	ND	0.933	1.87	U
107-06-2	1,2-Dichloroethane	ND	0.933	1.87	U
71-43-2	Benzene	ND	0.933	1.87	U

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.933	1.87	U
78-87-5	1,2-Dichloropropane	ND	0.933	1.87	U
75-27-4	Bromodichloromethane	ND	0.933	1.87	U
74-95-3	Dibromomethane	ND	0.933	1.87	U
110-75-8	2-Chloroethyl vinyl ether	ND UJ	0.933	1.87	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.933	1.87	U
108-88-3	Toluene	ND	0.933	1.87	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.933	1.87	U
79-00-5	1,1,2-Trichloroethane	ND	0.933	1.87	U
108-10-1	4-Methyl-2-pentanone	ND	0.933	1.87	U
106-93-4	1,2-Dibromoethane	ND	0.933	1.87	U
591-78-6	2-Hexanone	ND	0.933	1.87	U
142-28-9	1,3-Dichloropropane	ND	0.933	1.87	U
127-18-4	Tetrachloroethene	ND	0.933	1.87	U
124-48-1	Dibromochloromethane	ND	0.933	1.87	U
100-41-4	Ethylbenzene	ND	0.933	1.87	U
108-90-7	Chlorobenzene	ND	0.933	1.87	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.933	1.87	U
108-38-3/106-42	m,p-Xylenes	ND	1.87	3.73	U
95-47-6	o-Xylene	ND	1.87	3.73	U
100-42-5	Styrene	ND	0.933	3.73	U
75-25-2	Bromoform	ND	0.933	1.87	U
98-82-8	Isopropylbenzene	ND	0.933	1.87	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.933	1.87	U
96-18-4	1,2,3-Trichloropropane	ND	0.933	1.87	U

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	0.933	1.87	U
108-86-1	Bromobenzene	ND	0.933	1.87	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.933	1.87	U
95-49-8	2-Chlorotoluene	ND	0.933	1.87	U
106-43-4	4-Chlorotoluene	ND	0.933	1.87	U
98-06-6	tert-Butylbenzene	ND	0.933	1.87	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.933	1.87	U
135-98-8	sec-Butylbenzene	ND	0.933	1.87	U
99-87-6	p-Isopropyltoluene	ND	0.933	1.87	U
541-73-1	1,3-Dichlorobenzene	ND	0.933	1.87	U
106-46-7	1,4-Dichlorobenzene	ND	0.933	1.87	U
104-51-8	n-Butyl Benzene	ND	0.933	1.87	U
95-50-1	1,2-Dichlorobenzene	ND	0.933	1.87	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.933	1.87	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.933	1.87	U
87-68-3	Hexachlorobutadiene	ND	0.933	1.87	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.933	1.87	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	107%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	91%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.56	9.26	U
107-13-1	Acrylonitrile	ND	1.85	9.26	U
67-64-1	Acetone	18.2 J	0.926	1.85	
75-71-8	Dichlorodifluoromethane	ND	0.926	1.85	U
74-87-3	Chloromethane	ND	0.926	1.85	U
75-01-4	Vinyl chloride	ND	0.926	1.85	U
74-83-9	Bromomethane	ND	0.926	1.85	U
75-00-3	Chloroethane	ND	0.926	1.85	U
75-69-4	Trichlorofluoromethane	ND	0.926	1.85	U
75-35-4	1,1-Dichloroethene	ND	0.926	1.85	U
75-15-0	Carbon disulfide	ND	0.926	1.85	U
75-09-2	Methylene Chloride	ND UJ	0.926	1.85	U
156-60-5	trans-1,2-Dichloroethene	ND	0.926	1.85	U
75-34-3	1,1-Dichloroethane	ND	0.926	1.85	U
108-05-4	Vinyl acetate	ND	0.926	1.85	U
590-20-7	2,2-Dichloropropane	ND	0.926	1.85	U
78-93-3	2-Butanone	5.22	0.926	1.85	
156-59-4	cis-1,2-Dichloroethene	ND	0.926	1.85	U
67-66-3	Chloroform	ND	0.926	1.85	U
74-97-5	Bromochloromethane	ND	0.926	1.85	U
71-55-6	1,1,1-Trichloroethane	ND	0.926	1.85	U
563-58-6	1,1-Dichloropropene	ND	0.926	1.85	U
56-23-5	Carbon Tetrachloride	ND	0.926	1.85	U
107-06-2	1,2-Dichloroethane	ND	0.926	1.85	U
71-43-2	Benzene	ND	0.926	1.85	U

 MKP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.926	1.85	U
78-87-5	1,2-Dichloropropane	ND	0.926	1.85	U
75-27-4	Bromodichloromethane	ND	0.926	1.85	U
74-95-3	Dibromomethane	ND	0.926	1.85	U
110-75-8	2-Chloroethyl vinyl ether	ND UJ	0.926	1.85	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.926	1.85	U
108-88-3	Toluene	ND	0.926	1.85	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.926	1.85	U
79-00-5	1,1,2-Trichloroethane	ND	0.926	1.85	U
108-10-1	4-Methyl-2-pentanone	ND	0.926	1.85	U
106-93-4	1,2-Dibromoethane	ND	0.926	1.85	U
591-78-6	2-Hexanone	ND	0.926	1.85	U
142-28-9	1,3-Dichloropropane	ND	0.926	1.85	U
127-18-4	Tetrachloroethene	ND	0.926	1.85	U
124-48-1	Dibromochloromethane	ND	0.926	1.85	U
100-41-4	Ethylbenzene	ND	0.926	1.85	U
108-90-7	Chlorobenzene	ND	0.926	1.85	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.926	1.85	U
108-38-3/106-42	m,p-Xylenes	ND	1.85	3.70	U
95-47-6	o-Xylene	ND	1.85	3.70	U
100-42-5	Styrene	ND	0.926	3.70	U
75-25-2	Bromoform	ND	0.926	1.85	U
98-82-8	Isopropylbenzene	ND	0.926	1.85	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.926	1.85	U
96-18-4	1,2,3-Trichloropropane	ND	0.926	1.85	U

 MKP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	0.926	1.85	U
108-86-1	Bromobenzene	ND	0.926	1.85	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.926	1.85	U
95-49-8	2-Chlorotoluene	ND	0.926	1.85	U
106-43-4	4-Chlorotoluene	ND	0.926	1.85	U
98-06-6	tert-Butylbenzene	ND	0.926	1.85	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.926	1.85	U
135-98-8	sec-Butylbenzene	ND	0.926	1.85	U
99-87-6	p-Isopropyltoluene	ND	0.926	1.85	U
541-73-1	1,3-Dichlorobenzene	ND	0.926	1.85	U
106-46-7	1,4-Dichlorobenzene	ND	0.926	1.85	U
104-51-8	n-Butyl Benzene	ND	0.926	1.85	U
95-50-1	1,2-Dichlorobenzene	ND	0.926	1.85	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.926	1.85	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.926	1.85	U
87-68-3	Hexachlorobutadiene	ND	0.926	1.85	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.926	1.85	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	107%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	86%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.9	210	U
108-95-2	Phenol	ND	41.9	210	U
111-44-4	bis(2-chloroethyl)ether	ND	41.9	210	U
95-57-8	2-Chlorophenol	ND	41.9	210	U
541-73-1	1,3-Dichlorobenzene	ND	41.9	210	U
106-46-7	1,4-Dichlorobenzene	ND	41.9	210	U
100-51-6	Benzyl alcohol	ND	41.9	210	U
95-50-1	1,2-Dichlorobenzene	ND	41.9	210	U
95-48-7	2-Methylphenol	ND	41.9	210	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.9	210	U
106-44-5	3 & 4-Methylphenol	ND	41.9	210	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.9	210	U
67-72-1	Hexachloroethane	ND	41.9	210	U
98-95-3	Nitrobenzene	ND	41.9	210	U
78-59-1	Isophorone	ND	41.9	210	U
88-75-5	2-Nitrophenol	ND	41.9	210	U
105-67-9	2,4-Dimethylphenol	ND	41.9	210	U
65-85-0	Benzoic acid	ND	105	419	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.9	210	U
120-83-2	2,4-Dichlorophenol	ND	41.9	210	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.9	210	U
91-20-3	Naphthalene	ND	41.9	210	U
106-47-8	4-Chloroaniline	ND UJ	41.9	210	U
87-68-3	Hexachlorobutadiene	ND	41.9	210	U
59-50-7	4-Chloro-3-methylphenol	ND	41.9	210	U

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ANALYSIS DATA SHEET
EPA 8270

Client:	**BRINKERHOFF ENVIRONMENTAL**
Client Sample ID:	**EP-34**
Lab Sample ID:	**1602245-01**
Project:	**255 East 138th Street**
Work Order:	**1602245**

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	41.9	210	U
77-47-4	Hexachlorocyclopentadiene	ND	41.9	210	U
88-06-2	2,4,6-Trichlorophenol	ND	41.9	210	U
95-95-4	2,4,5-Trichlorophenol	ND	41.9	210	U
91-58-7	2-Chloronaphthalene	ND	41.9	210	U
88-74-4	2-Nitroaniline	ND	41.9	210	U
131-11-3	Dimethylphthalate	ND	41.9	210	U
208-96-8	Acenaphthylene	ND	41.9	210	U
99-09-2	3-Nitroaniline	ND UJ	41.9	210	U
83-32-9	Acenaphthene	48.4	41.9	210	J
51-28-5	2,4-Dinitrophenol	ND	41.9	419	U
100-02-7	4-Nitrophenol	ND	41.9	210	U
132-64-9	Dibenzofuran	ND	41.9	210	U
606-20-2	2,6-Dinitrotoluene	ND	41.9	210	U
121-14-2	2,4-Dinitrotoluene	ND	41.9	210	U
84-66-2	Diethyl phthalate	ND	41.9	210	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.9	210	U
86-73-7	Fluorene	61.0	41.9	210	J
100-01-6	4-Nitroaniline	ND	41.9	210	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.9	210	U
86-30-6	N-Nitrosodiphenylamine	ND	41.9	210	U
101-55-3	4-Bromophenyl-phenylether	ND	41.9	210	U
118-74-1	Hexachlorobenzene	ND	41.9	210	U
87-86-5	Pentachlorophenol	ND	41.9	210	U
85-01-8	Phenanthrene	666	41.9	210	

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ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	133	41.9	210	J
84-74-2	Di-n-butyl phthalate	ND	41.9	210	U
206-44-0	Fluoranthene	924	41.9	210	
129-00-0	Pyrene	820	41.9	210	
85-68-7	Butylbenzylphthalate	ND	41.9	210	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	210	U
56-55-3	Benzo[a]anthracene	390	41.9	210	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.9	210	U
218-01-9	Chrysene	403	41.9	210	
117-84-0	Di-n-octyl phthalate	~~ND~~ R	41.9	210	U
205-99-2	Benzo[b]fluoranthene	643 J	41.9	210	
207-08-9	Benzo[k]fluoranthene	198 J	41.9	210	J
50-32-8	Benzo[a]pyrene	386 J	41.9	210	
193-39-5	Indeno(1,2,3-cd)pyrene	83.5 J	41.9	210	J
53-70-3	Dibenzo(a,h)anthracene	~~ND~~ R	41.9	210	U
191-24-2	Benzo[ghi]perylene	75.9 J	41.9	210	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	54%	30-130
Phenol-d5	64%	30-130
Nitrobenzene-d5	73%	30-130
2-Fluorobiphenyl	71%	30-130
2,4,6-Tribromophenol	74%	30-130
Terphenyl-d14	89%	30-130

MKP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	43.4	218	U
108-95-2	Phenol	ND	43.4	218	U
111-44-4	bis(2-chloroethyl)ether	ND	43.4	218	U
95-57-8	2-Chlorophenol	ND	43.4	218	U
541-73-1	1,3-Dichlorobenzene	ND	43.4	218	U
106-46-7	1,4-Dichlorobenzene	ND	43.4	218	U
100-51-6	Benzyl alcohol	ND	43.4	218	U
95-50-1	1,2-Dichlorobenzene	ND	43.4	218	U
95-48-7	2-Methylphenol	ND	43.4	218	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	43.4	218	U
106-44-5	3 & 4-Methylphenol	ND	43.4	218	U
621-64-7	N-Nitroso-di-n-propylamine	ND	43.4	218	U
67-72-1	Hexachloroethane	ND	43.4	218	U
98-95-3	Nitrobenzene	ND	43.4	218	U
78-59-1	Isophorone	ND	43.4	218	U
88-75-5	2-Nitrophenol	ND	43.4	218	U
105-67-9	2,4-Dimethylphenol	ND	43.4	218	U
65-85-0	Benzoic acid	ND	108	434	U
111-91-1	bis(2-chloroethoxy)methane	ND	43.4	218	U
120-83-2	2,4-Dichlorophenol	ND	43.4	218	U
120-82-1	1,2,4-Trichlorobenzene	ND	43.4	218	U
91-20-3	Naphthalene	47.2	43.4	218	J
106-47-8	4-Chloroaniline	ND UJ	43.4	218	U
87-68-3	Hexachlorobutadiene	ND	43.4	218	U
59-50-7	4-Chloro-3-methylphenol	ND	43.4	218	U

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	43.4	218	U
77-47-4	Hexachlorocyclopentadiene	ND	43.4	218	U
88-06-2	2,4,6-Trichlorophenol	ND	43.4	218	U
95-95-4	2,4,5-Trichlorophenol	ND	43.4	218	U
91-58-7	2-Chloronaphthalene	ND	43.4	218	U
88-74-4	2-Nitroaniline	ND	43.4	218	U
131-11-3	Dimethylphthalate	ND	43.4	218	U
208-96-8	Acenaphthylene	ND	43.4	218	U
99-09-2	3-Nitroaniline	ND UJ	43.4	218	U
83-32-9	Acenaphthene	ND	43.4	218	U
51-28-5	2,4-Dinitrophenol	ND	43.4	434	U
100-02-7	4-Nitrophenol	ND	43.4	218	U
132-64-9	Dibenzofuran	ND	43.4	218	U
606-20-2	2,6-Dinitrotoluene	ND	43.4	218	U
121-14-2	2,4-Dinitrotoluene	ND	43.4	218	U
84-66-2	Diethyl phthalate	ND	43.4	218	U
7005-72-3	4-Chlorophenyl-phenylether	ND	43.4	218	U
86-73-7	Fluorene	51.5	43.4	218	J
100-01-6	4-Nitroaniline	ND	43.4	218	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	43.4	218	U
86-30-6	N-Nitrosodiphenylamine	ND	43.4	218	U
101-55-3	4-Bromophenyl-phenylether	ND	43.4	218	U
118-74-1	Hexachlorobenzene	ND	43.4	218	U
87-86-5	Pentachlorophenol	ND	43.4	218	U
85-01-8	Phenanthrene	512	43.4	218	

 MW 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	107	43.4	218	J
84-74-2	Di-n-butyl phthalate	ND	43.4	218	U
206-44-0	Fluoranthene	572	43.4	218	
129-00-0	Pyrene	452	43.4	218	
85-68-7	Butylbenzylphthalate	ND	43.4	218	U
91-94-1	3,3'-Dichlorobenzidine	ND	108	218	U
56-55-3	Benzo[a]anthracene	221	43.4	218	
117-81-7	bis(2-ethylhexyl)phthalate	ND	43.4	218	U
218-01-9	Chrysene	237	43.4	218	
117-84-0	Di-n-octyl phthalate	ND	43.4	218	U
205-99-2	Benzo[b]fluoranthene	263	43.4	218	
207-08-9	Benzo[k]fluoranthene	84.4	43.4	218	J
50-32-8	Benzo[a]pyrene	210	43.4	218	J
193-39-5	Indeno(1,2,3-cd)pyrene	88.4	43.4	218	J
53-70-3	Dibenzo(a,h)anthracene	ND	43.4	218	U
191-24-2	Benzo[ghi]perylene	99.9	43.4	218	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	43%	30-130
Phenol-d5	47%	30-130
Nitrobenzene-d5	52%	30-130
2-Fluorobiphenyl	52%	30-130
2,4,6-Tribromophenol	67%	30-130
Terphenyl-d14	64%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.9	210	U
108-95-2	Phenol	ND	41.9	210	U
111-44-4	bis(2-chloroethyl)ether	ND	41.9	210	U
95-57-8	2-Chlorophenol	ND	41.9	210	U
541-73-1	1,3-Dichlorobenzene	ND	41.9	210	U
106-46-7	1,4-Dichlorobenzene	ND	41.9	210	U
100-51-6	Benzyl alcohol	ND	41.9	210	U
95-50-1	1,2-Dichlorobenzene	ND	41.9	210	U
95-48-7	2-Methylphenol	ND	41.9	210	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.9	210	U
106-44-5	3 & 4-Methylphenol	ND	41.9	210	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.9	210	U
67-72-1	Hexachloroethane	ND	41.9	210	U
98-95-3	Nitrobenzene	ND	41.9	210	U
78-59-1	Isophorone	ND	41.9	210	U
88-75-5	2-Nitrophenol	ND	41.9	210	U
105-67-9	2,4-Dimethylphenol	ND	41.9	210	U
65-85-0	Benzoic acid	ND	105	419	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.9	210	U
120-83-2	2,4-Dichlorophenol	ND	41.9	210	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.9	210	U
91-20-3	Naphthalene	ND	41.9	210	U
106-47-8	4-Chloroaniline	ND UJ	41.9	210	U
87-68-3	Hexachlorobutadiene	ND	41.9	210	U
59-50-7	4-Chloro-3-methylphenol	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	41.9	210	U
77-47-4	Hexachlorocyclopentadiene	ND	41.9	210	U
88-06-2	2,4,6-Trichlorophenol	ND	41.9	210	U
95-95-4	2,4,5-Trichlorophenol	ND	41.9	210	U
91-58-7	2-Chloronaphthalene	ND	41.9	210	U
88-74-4	2-Nitroaniline	ND	41.9	210	U
131-11-3	Dimethylphthalate	ND	41.9	210	U
208-96-8	Acenaphthylene	ND	41.9	210	U
99-09-2	3-Nitroaniline	ND UJ	41.9	210	U
83-32-9	Acenaphthene	85.2	41.9	210	J
51-28-5	2,4-Dinitrophenol	ND	41.9	419	U
100-02-7	4-Nitrophenol	ND	41.9	210	U
132-64-9	Dibenzofuran	55.5	41.9	210	J
606-20-2	2,6-Dinitrotoluene	ND	41.9	210	U
121-14-2	2,4-Dinitrotoluene	ND	41.9	210	U
84-66-2	Diethyl phthalate	ND	41.9	210	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.9	210	U
86-73-7	Fluorene	89.1	41.9	210	J
100-01-6	4-Nitroaniline	ND	41.9	210	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.9	210	U
86-30-6	N-Nitrosodiphenylamine	ND	41.9	210	U
101-55-3	4-Bromophenyl-phenylether	ND	41.9	210	U
118-74-1	Hexachlorobenzene	ND	41.9	210	U
87-86-5	Pentachlorophenol	ND	41.9	210	U
85-01-8	Phenanthrene	965	41.9	210	

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ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	192	41.9	210	J
84-74-2	Di-n-butyl phthalate	ND	41.9	210	U
206-44-0	Fluoranthene	1030	41.9	210	
129-00-0	Pyrene	811	41.9	210	
85-68-7	Butylbenzylphthalate	ND	41.9	210	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	210	U
56-55-3	Benzo[a]anthracene	406	41.9	210	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.9	210	U
218-01-9	Chrysene	415	41.9	210	
117-84-0	Di-n-octyl phthalate	ND	41.9	210	U
205-99-2	Benzo[b]fluoranthene	453	41.9	210	
207-08-9	Benzo[k]fluoranthene	146	41.9	210	J
50-32-8	Benzo[a]pyrene	348	41.9	210	
193-39-5	Indeno(1,2,3-cd)pyrene	116	41.9	210	J
53-70-3	Dibenzo(a,h)anthracene	ND	41.9	210	U
191-24-2	Benzo[ghi]perylene	118	41.9	210	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	44%	30-130
Phenol-d5	49%	30-130
Nitrobenzene-d5	52%	30-130
2-Fluorobiphenyl	51%	30-130
2,4,6-Tribromophenol	68%	30-130
Terphenyl-d14	61%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.6	209	U
108-95-2	Phenol	ND	41.6	209	U
111-44-4	bis(2-chloroethyl)ether	ND	41.6	209	U
95-57-8	2-Chlorophenol	ND	41.6	209	U
541-73-1	1,3-Dichlorobenzene	ND	41.6	209	U
106-46-7	1,4-Dichlorobenzene	ND	41.6	209	U
100-51-6	Benzyl alcohol	ND	41.6	209	U
95-50-1	1,2-Dichlorobenzene	ND	41.6	209	U
95-48-7	2-Methylphenol	ND	41.6	209	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.6	209	U
106-44-5	3 & 4-Methylphenol	ND	41.6	209	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.6	209	U
67-72-1	Hexachloroethane	ND	41.6	209	U
98-95-3	Nitrobenzene	ND	41.6	209	U
78-59-1	Isophorone	ND	41.6	209	U
88-75-5	2-Nitrophenol	ND	41.6	209	U
105-67-9	2,4-Dimethylphenol	ND	41.6	209	U
65-85-0	Benzoic acid	ND	104	416	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.6	209	U
120-83-2	2,4-Dichlorophenol	ND	41.6	209	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.6	209	U
91-20-3	Naphthalene	ND	41.6	209	U
106-47-8	4-Chloroaniline	ND UJ	41.6	209	U
87-68-3	Hexachlorobutadiene	ND	41.6	209	U
59-50-7	4-Chloro-3-methylphenol	ND	41.6	209	U

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	41.6	209	U
77-47-4	Hexachlorocyclopentadiene	ND	41.6	209	U
88-06-2	2,4,6-Trichlorophenol	ND	41.6	209	U
95-95-4	2,4,5-Trichlorophenol	ND	41.6	209	U
91-58-7	2-Chloronaphthalene	ND	41.6	209	U
88-74-4	2-Nitroaniline	ND	41.6	209	U
131-11-3	Dimethylphthalate	ND	41.6	209	U
208-96-8	Acenaphthylene	ND	41.6	209	U
99-09-2	3-Nitroaniline	ND UJ	41.6	209	U
83-32-9	Acenaphthene	ND	41.6	209	U
51-28-5	2,4-Dinitrophenol	ND	41.6	416	U
100-02-7	4-Nitrophenol	ND	41.6	209	U
132-64-9	Dibenzofuran	ND	41.6	209	U
606-20-2	2,6-Dinitrotoluene	ND	41.6	209	U
121-14-2	2,4-Dinitrotoluene	ND	41.6	209	U
84-66-2	Diethyl phthalate	ND	41.6	209	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.6	209	U
86-73-7	Fluorene	46.8	41.6	209	J
100-01-6	4-Nitroaniline	ND	41.6	209	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.6	209	U
86-30-6	N-Nitrosodiphenylamine	ND	41.6	209	U
101-55-3	4-Bromophenyl-phenylether	ND	41.6	209	U
118-74-1	Hexachlorobenzene	ND	41.6	209	U
87-86-5	Pentachlorophenol	ND	41.6	209	U
85-01-8	Phenanthrene	438	41.6	209	

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	92.2	41.6	209	J
84-74-2	Di-n-butyl phthalate	ND	41.6	209	U
206-44-0	Fluoranthene	530	41.6	209	
129-00-0	Pyrene	407	41.6	209	
85-68-7	Butylbenzylphthalate	ND	41.6	209	U
91-94-1	3,3'-Dichlorobenzidine	ND	104	209	U
56-55-3	Benzo[a]anthracene	209	41.6	209	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.6	209	U
218-01-9	Chrysene	218	41.6	209	
117-84-0	Di-n-octyl phthalate	ND	41.6	209	U
205-99-2	Benzo[b]fluoranthene	256	41.6	209	
207-08-9	Benzo[k]fluoranthene	85.6	41.6	209	J
50-32-8	Benzo[a]pyrene	202	41.6	209	J
193-39-5	Indeno(1,2,3-cd)pyrene	72.1	41.6	209	J
53-70-3	Dibenzo(a,h)anthracene	ND	41.6	209	U
191-24-2	Benzo[ghi]perylene	70.6	41.6	209	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	51%	30-130
Phenol-d5	57%	30-130
Nitrobenzene-d5	60%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	61%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	40.0	201	U
108-95-2	Phenol	ND	40.0	201	U
111-44-4	bis(2-chloroethyl)ether	ND	40.0	201	U
95-57-8	2-Chlorophenol	ND	40.0	201	U
541-73-1	1,3-Dichlorobenzene	ND	40.0	201	U
106-46-7	1,4-Dichlorobenzene	ND	40.0	201	U
100-51-6	Benzyl alcohol	ND	40.0	201	U
95-50-1	1,2-Dichlorobenzene	ND	40.0	201	U
95-48-7	2-Methylphenol	ND	40.0	201	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.0	201	U
106-44-5	3 & 4-Methylphenol	ND	40.0	201	U
621-64-7	N-Nitroso-di-n-propylamine	ND	40.0	201	U
67-72-1	Hexachloroethane	ND	40.0	201	U
98-95-3	Nitrobenzene	ND	40.0	201	U
78-59-1	Isophorone	ND	40.0	201	U
88-75-5	2-Nitrophenol	ND	40.0	201	U
105-67-9	2,4-Dimethylphenol	ND	40.0	201	U
65-85-0	Benzoic acid	ND	99.8	400	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.0	201	U
120-83-2	2,4-Dichlorophenol	ND	40.0	201	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.0	201	U
91-20-3	Naphthalene	ND	40.0	201	U
106-47-8	4-Chloroaniline	ND UJ	40.0	201	U
87-68-3	Hexachlorobutadiene	ND	40.0	201	U
59-50-7	4-Chloro-3-methylphenol	ND	40.0	201	U

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ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	40.0	201	U
77-47-4	Hexachlorocyclopentadiene	ND	40.0	201	U
88-06-2	2,4,6-Trichlorophenol	ND	40.0	201	U
95-95-4	2,4,5-Trichlorophenol	ND	40.0	201	U
91-58-7	2-Chloronaphthalene	ND	40.0	201	U
88-74-4	2-Nitroaniline	ND	40.0	201	U
131-11-3	Dimethylphthalate	ND	40.0	201	U
208-96-8	Acenaphthylene	ND	40.0	201	U
99-09-2	3-Nitroaniline	ND UJ	40.0	201	U
83-32-9	Acenaphthene	ND	40.0	201	U
51-28-5	2,4-Dinitrophenol	ND	40.0	400	U
100-02-7	4-Nitrophenol	ND	40.0	201	U
132-64-9	Dibenzofuran	ND	40.0	201	U
606-20-2	2,6-Dinitrotoluene	ND	40.0	201	U
121-14-2	2,4-Dinitrotoluene	ND	40.0	201	U
84-66-2	Diethyl phthalate	ND	40.0	201	U
7005-72-3	4-Chlorophenyl-phenylether	ND	40.0	201	U
86-73-7	Fluorene	ND	40.0	201	U
100-01-6	4-Nitroaniline	ND	40.0	201	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.0	201	U
86-30-6	N-Nitrosodiphenylamine	ND	40.0	201	U
101-55-3	4-Bromophenyl-phenylether	ND	40.0	201	U
118-74-1	Hexachlorobenzene	ND	40.0	201	U
87-86-5	Pentachlorophenol	ND	40.0	201	U
85-01-8	Phenanthrene	ND	40.0	201	U

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ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	40.0	201	U
84-74-2	Di-n-butyl phthalate	ND	40.0	201	U
206-44-0	Fluoranthene	ND	40.0	201	U
129-00-0	Pyrene	ND	40.0	201	U
85-68-7	Butylbenzylphthalate	ND	40.0	201	U
91-94-1	3,3'-Dichlorobenzidine	ND	99.8	201	U
56-55-3	Benzo[a]anthracene	ND	40.0	201	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	40.0	201	U
218-01-9	Chrysene	ND	40.0	201	U
117-84-0	Di-n-octyl phthalate	ND	40.0	201	U
205-99-2	Benzo[b]fluoranthene	ND	40.0	201	U
207-08-9	Benzo[k]fluoranthene	ND	40.0	201	U
50-32-8	Benzo[a]pyrene	ND	40.0	201	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	40.0	201	U
53-70-3	Dibenzo(a,h)anthracene	ND	40.0	201	U
191-24-2	Benzo[ghi]perylene	ND	40.0	201	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	55%	30-130
Phenol-d5	60%	30-130
Nitrobenzene-d5	64%	30-130
2-Fluorobiphenyl	61%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	70%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	40.7	204	U
108-95-2	Phenol	ND	40.7	204	U
111-44-4	bis(2-chloroethyl)ether	ND	40.7	204	U
95-57-8	2-Chlorophenol	ND	40.7	204	U
541-73-1	1,3-Dichlorobenzene	ND	40.7	204	U
106-46-7	1,4-Dichlorobenzene	ND	40.7	204	U
100-51-6	Benzyl alcohol	ND	40.7	204	U
95-50-1	1,2-Dichlorobenzene	ND	40.7	204	U
95-48-7	2-Methylphenol	90.1	40.7	204	J
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.7	204	U
106-44-5	3 & 4-Methylphenol	222	40.7	204	
621-64-7	N-Nitroso-di-n-propylamine	ND	40.7	204	U
67-72-1	Hexachloroethane	ND	40.7	204	U
98-95-3	Nitrobenzene	ND	40.7	204	U
78-59-1	Isophorone	ND	40.7	204	U
88-75-5	2-Nitrophenol	ND	40.7	204	U
105-67-9	2,4-Dimethylphenol	114	40.7	204	J
65-85-0	Benzoic acid	ND	101	407	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.7	204	U
120-83-2	2,4-Dichlorophenol	ND	40.7	204	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.7	204	U
91-20-3	Naphthalene	11100	40.7	204	E
106-47-8	4-Chloroaniline	ND UJ	40.7	204	U
87-68-3	Hexachlorobutadiene	ND	40.7	204	U
59-50-7	4-Chloro-3-methylphenol	ND	40.7	204	U

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ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	4470	40.7	204	
77-47-4	Hexachlorocyclopentadiene	ND	40.7	204	U
88-06-2	2,4,6-Trichlorophenol	ND	40.7	204	U
95-95-4	2,4,5-Trichlorophenol	ND	40.7	204	U
91-58-7	2-Chloronaphthalene	ND	40.7	204	U
88-74-4	2-Nitroaniline	ND	40.7	204	U
131-11-3	Dimethylphthalate	ND	40.7	204	U
208-96-8	Acenaphthylene	235	40.7	204	
99-09-2	3-Nitroaniline	ND UJ	40.7	204	U
83-32-9	Acenaphthene	5530	40.7	204	E
51-28-5	2,4-Dinitrophenol	ND	40.7	407	U
100-02-7	4-Nitrophenol	ND	40.7	204	U
132-64-9	Dibenzofuran	6210	40.7	204	E
606-20-2	2,6-Dinitrotoluene	ND	40.7	204	U
121-14-2	2,4-Dinitrotoluene	ND	40.7	204	U
84-66-2	Diethyl phthalate	ND	40.7	204	U
7005-72-3	4-Chlorophenyl-phenylether	ND	40.7	204	U
86-73-7	Fluorene	6940	40.7	204	E
100-01-6	4-Nitroaniline	ND	40.7	204	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.7	204	U
86-30-6	N-Nitrosodiphenylamine	ND	40.7	204	U
101-55-3	4-Bromophenyl-phenylether	ND	40.7	204	U
118-74-1	Hexachlorobenzene	ND	40.7	204	U
87-86-5	Pentachlorophenol	ND	40.7	204	U
85-01-8	Phenanthrene	40200	40.7	204	E

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ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	9420	40.7	204	E
84-74-2	Di-n-butyl phthalate	ND	40.7	204	U
206-44-0	Fluoranthene	36600	40.7	204	E
129-00-0	Pyrene	47300	40.7	204	E
85-68-7	Butylbenzylphthalate	ND	40.7	204	U
91-94-1	3,3'-Dichlorobenzidine	~~ND~~ R	101	204	U
56-55-3	Benzo[a]anthracene	21900 J	40.7	204	E
117-81-7	bis(2-ethylhexyl)phthalate	~~ND~~ R	40.7	204	U
218-01-9	Chrysene	14400 J	40.7	204	E
117-84-0	Di-n-octyl phthalate	~~ND~~ R	40.7	204	U
205-99-2	Benzo[b]fluoranthene	30900 J	40.7	204	E
207-08-9	Benzo[k]fluoranthene	7450 J	40.7	204	E
50-32-8	Benzo[a]pyrene	15600 J	40.7	204	E
193-39-5	Indeno(1,2,3-cd)pyrene	3760 J	40.7	204	
53-70-3	Dibenzo(a,h)anthracene	1360 J	40.7	204	
191-24-2	Benzo[ghi]perylene	3780 J	40.7	204	

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	66%		30-130
Phenol-d5	74%		30-130
Nitrobenzene-d5	88%		30-130
2-Fluorobiphenyl	79%		30-130
2,4,6-Tribromophenol	96%		30-130
Terphenyl-d14	206%	*	30-130

MHP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06RE1
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	813	4080	U
108-95-2	Phenol	ND	813	4080	U
111-44-4	bis(2-chloroethyl)ether	ND	813	4080	U
95-57-8	2-Chlorophenol	ND	813	4080	U
541-73-1	1,3-Dichlorobenzene	ND	813	4080	U
106-46-7	1,4-Dichlorobenzene	ND	813	4080	U
100-51-6	Benzyl alcohol	ND	813	4080	U
95-50-1	1,2-Dichlorobenzene	ND	813	4080	U
95-48-7	2-Methylphenol	ND	813	4080	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	813	4080	U
106-44-5	3 & 4-Methylphenol	ND	813	4080	U
621-64-7	N-Nitroso-di-n-propylamine	ND	813	4080	U
67-72-1	Hexachloroethane	ND	813	4080	U
98-95-3	Nitrobenzene	ND	813	4080	U
78-59-1	Isophorone	ND	813	4080	U
88-75-5	2-Nitrophenol	ND	813	4080	U
105-67-9	2,4-Dimethylphenol	ND	813	4080	U
65-85-0	Benzoic acid	ND	2030	8130	U
111-91-1	bis(2-chloroethoxy)methane	ND	813	4080	U
120-83-2	2,4-Dichlorophenol	ND	813	4080	U
120-82-1	1,2,4-Trichlorobenzene	ND	813	4080	U
91-20-3	Naphthalene	16600	813	4080	D
106-47-8	4-Chloroaniline	ND UJ	813	4080	U
87-68-3	Hexachlorobutadiene	ND	813	4080	U
59-50-7	4-Chloro-3-methylphenol	ND	813	4080	U

 MKP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06RE1
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	4970	813	4080	D
77-47-4	Hexachlorocyclopentadiene	ND	813	4080	U
88-06-2	2,4,6-Trichlorophenol	ND	813	4080	U
95-95-4	2,4,5-Trichlorophenol	ND	813	4080	U
91-58-7	2-Chloronaphthalene	ND	813	4080	U
88-74-4	2-Nitroaniline	ND	813	4080	U
131-11-3	Dimethylphthalate	ND	813	4080	U
208-96-8	Acenaphthylene	ND	813	4080	U
99-09-2	3-Nitroaniline	ND UJ	813	4080	U
83-32-9	Acenaphthene	7080	813	4080	D
51-28-5	2,4-Dinitrophenol	ND	813	8130	U
100-02-7	4-Nitrophenol	ND	813	4080	U
132-64-9	Dibenzofuran	7820	813	4080	D
606-20-2	2,6-Dinitrotoluene	ND	813	4080	U
121-14-2	2,4-Dinitrotoluene	ND	813	4080	U
84-66-2	Diethyl phthalate	ND	813	4080	U
7005-72-3	4-Chlorophenyl-phenylether	ND	813	4080	U
86-73-7	Fluorene	8970	813	4080	D
100-01-6	4-Nitroaniline	ND	813	4080	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	813	4080	U
86-30-6	N-Nitrosodiphenylamine	ND	813	4080	U
101-55-3	4-Bromophenyl-phenylether	ND	813	4080	U
118-74-1	Hexachlorobenzene	ND	813	4080	U
87-86-5	Pentachlorophenol	ND	813	4080	U
85-01-8	Phenanthrene	59100	813	4080	D

 MKP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06RE1
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	11600	813	4080	D
84-74-2	Di-n-butyl phthalate	ND	813	4080	U
206-44-0	Fluoranthene	41900	813	4080	D
129-00-0	Pyrene	88800	813	4080	D
85-68-7	Butylbenzylphthalate	ND	813	4080	U
91-94-1	3,3'-Dichlorobenzidine	~~ND~~ R	2030	4080	U
56-55-3	Benzo[a]anthracene	19800 J	813	4080	D
117-81-7	bis(2-ethylhexyl)phthalate	~~ND~~ R	813	4080	U
218-01-9	Chrysene	18900 J	813	4080	D
117-84-0	Di-n-octyl phthalate	~~ND~~ R	813	4080	U
205-99-2	Benzo[b]fluoranthene	27500 J	813	4080	D
207-08-9	Benzo[k]fluoranthene	8260 J	813	4080	D
50-32-8	Benzo[a]pyrene	15700 J	813	4080	D
193-39-5	Indeno(1,2,3-cd)pyrene	4770 J	813	4080	D
53-70-3	Dibenzo(a,h)anthracene	~~ND~~ R	813	4080	U
191-24-2	Benzo[ghi]perylene	4660 J	813	4080	D

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	73%	30-130
Phenol-d5	82%	30-130
Nitrobenzene-d5	83%	30-130
2-Fluorobiphenyl	86%	30-130
2,4,6-Tribromophenol	78%	30-130
Terphenyl-d14	219% *	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.2	192	U
108-95-2	Phenol	ND	38.2	192	U
111-44-4	bis(2-chloroethyl)ether	ND	38.2	192	U
95-57-8	2-Chlorophenol	ND	38.2	192	U
541-73-1	1,3-Dichlorobenzene	ND	38.2	192	U
106-46-7	1,4-Dichlorobenzene	ND	38.2	192	U
100-51-6	Benzyl alcohol	ND	38.2	192	U
95-50-1	1,2-Dichlorobenzene	ND	38.2	192	U
95-48-7	2-Methylphenol	ND	38.2	192	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.2	192	U
106-44-5	3 & 4-Methylphenol	ND	38.2	192	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.2	192	U
67-72-1	Hexachloroethane	ND	38.2	192	U
98-95-3	Nitrobenzene	ND	38.2	192	U
78-59-1	Isophorone	ND	38.2	192	U
88-75-5	2-Nitrophenol	ND	38.2	192	U
105-67-9	2,4-Dimethylphenol	ND	38.2	192	U
65-85-0	Benzoic acid	ND	95.3	382	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.2	192	U
120-83-2	2,4-Dichlorophenol	ND	38.2	192	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.2	192	U
91-20-3	Naphthalene	ND	38.2	192	U
106-47-8	4-Chloroaniline	ND UJ	38.2	192	U
87-68-3	Hexachlorobutadiene	ND	38.2	192	U
59-50-7	4-Chloro-3-methylphenol	ND	38.2	192	U

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	38.2	192	U
77-47-4	Hexachlorocyclopentadiene	ND	38.2	192	U
88-06-2	2,4,6-Trichlorophenol	ND	38.2	192	U
95-95-4	2,4,5-Trichlorophenol	ND	38.2	192	U
91-58-7	2-Chloronaphthalene	ND	38.2	192	U
88-74-4	2-Nitroaniline	ND	38.2	192	U
131-11-3	Dimethylphthalate	ND	38.2	192	U
208-96-8	Acenaphthylene	ND	38.2	192	U
99-09-2	3-Nitroaniline	ND UJ	38.2	192	U
83-32-9	Acenaphthene	ND	38.2	192	U
51-28-5	2,4-Dinitrophenol	ND	38.2	382	U
100-02-7	4-Nitrophenol	ND	38.2	192	U
132-64-9	Dibenzofuran	ND	38.2	192	U
606-20-2	2,6-Dinitrotoluene	ND	38.2	192	U
121-14-2	2,4-Dinitrotoluene	ND	38.2	192	U
84-66-2	Diethyl phthalate	ND	38.2	192	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.2	192	U
86-73-7	Fluorene	ND	38.2	192	U
100-01-6	4-Nitroaniline	ND	38.2	192	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.2	192	U
86-30-6	N-Nitrosodiphenylamine	ND	38.2	192	U
101-55-3	4-Bromophenyl-phenylether	ND	38.2	192	U
118-74-1	Hexachlorobenzene	ND	38.2	192	U
87-86-5	Pentachlorophenol	ND	38.2	192	U
85-01-8	Phenanthrene	ND	38.2	192	U

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ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	38.2	192	U
84-74-2	Di-n-butyl phthalate	ND	38.2	192	U
206-44-0	Fluoranthene	56.8	38.2	192	J
129-00-0	Pyrene	47.1	38.2	192	J
85-68-7	Butylbenzylphthalate	ND	38.2	192	U
91-94-1	3,3'-Dichlorobenzidine	ND	95.3	192	U
56-55-3	Benzo[a]anthracene	ND	38.2	192	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.2	192	U
218-01-9	Chrysene	ND	38.2	192	U
117-84-0	Di-n-octyl phthalate	ND	38.2	192	U
205-99-2	Benzo[b]fluoranthene	ND	38.2	192	U
207-08-9	Benzo[k]fluoranthene	ND	38.2	192	U
50-32-8	Benzo[a]pyrene	ND	38.2	192	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.2	192	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.2	192	U
191-24-2	Benzo[ghi]perylene	ND	38.2	192	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	52%	30-130
Phenol-d5	56%	30-130
Nitrobenzene-d5	60%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	67%	30-130
Terphenyl-d14	64%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.7	194	U
108-95-2	Phenol	ND	38.7	194	U
111-44-4	bis(2-chloroethyl)ether	ND	38.7	194	U
95-57-8	2-Chlorophenol	ND	38.7	194	U
541-73-1	1,3-Dichlorobenzene	ND	38.7	194	U
106-46-7	1,4-Dichlorobenzene	ND	38.7	194	U
100-51-6	Benzyl alcohol	ND	38.7	194	U
95-50-1	1,2-Dichlorobenzene	ND	38.7	194	U
95-48-7	2-Methylphenol	ND	38.7	194	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.7	194	U
106-44-5	3 & 4-Methylphenol	ND	38.7	194	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.7	194	U
67-72-1	Hexachloroethane	ND	38.7	194	U
98-95-3	Nitrobenzene	ND	38.7	194	U
78-59-1	Isophorone	ND	38.7	194	U
88-75-5	2-Nitrophenol	ND	38.7	194	U
105-67-9	2,4-Dimethylphenol	ND	38.7	194	U
65-85-0	Benzoic acid	ND	96.4	387	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.7	194	U
120-83-2	2,4-Dichlorophenol	ND	38.7	194	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.7	194	U
91-20-3	Naphthalene	ND	38.7	194	U
106-47-8	4-Chloroaniline	ND UJ	38.7	194	U
87-68-3	Hexachlorobutadiene	ND	38.7	194	U
59-50-7	4-Chloro-3-methylphenol	ND	38.7	194	U

 MXP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	38.7	194	U
77-47-4	Hexachlorocyclopentadiene	ND	38.7	194	U
88-06-2	2,4,6-Trichlorophenol	ND	38.7	194	U
95-95-4	2,4,5-Trichlorophenol	ND	38.7	194	U
91-58-7	2-Chloronaphthalene	ND	38.7	194	U
88-74-4	2-Nitroaniline	ND	38.7	194	U
131-11-3	Dimethylphthalate	ND	38.7	194	U
208-96-8	Acenaphthylene	ND	38.7	194	U
99-09-2	3-Nitroaniline	ND UJ	38.7	194	U
83-32-9	Acenaphthene	ND	38.7	194	U
51-28-5	2,4-Dinitrophenol	ND	38.7	387	U
100-02-7	4-Nitrophenol	ND	38.7	194	U
132-64-9	Dibenzofuran	ND	38.7	194	U
606-20-2	2,6-Dinitrotoluene	ND	38.7	194	U
121-14-2	2,4-Dinitrotoluene	ND	38.7	194	U
84-66-2	Diethyl phthalate	ND	38.7	194	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.7	194	U
86-73-7	Fluorene	ND	38.7	194	U
100-01-6	4-Nitroaniline	ND	38.7	194	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.7	194	U
86-30-6	N-Nitrosodiphenylamine	ND	38.7	194	U
101-55-3	4-Bromophenyl-phenylether	ND	38.7	194	U
118-74-1	Hexachlorobenzene	ND	38.7	194	U
87-86-5	Pentachlorophenol	ND	38.7	194	U
85-01-8	Phenanthrene	96.4	38.7	194	J

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	ND	38.7	194	U
84-74-2	Di-n-butyl phthalate	ND	38.7	194	U
206-44-0	Fluoranthene	143	38.7	194	J
129-00-0	Pyrene	113	38.7	194	J
85-68-7	Butylbenzylphthalate	ND	38.7	194	U
91-94-1	3,3'-Dichlorobenzidine	ND	96.4	194	U
56-55-3	Benzo[a]anthracene	58.3	38.7	194	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.7	194	U
218-01-9	Chrysene	61.9	38.7	194	J
117-84-0	Di-n-octyl phthalate	ND	38.7	194	U
205-99-2	Benzo[b]fluoranthene	63.3	38.7	194	J
207-08-9	Benzo[k]fluoranthene	ND	38.7	194	U
50-32-8	Benzo[a]pyrene	53.5	38.7	194	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.7	194	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.7	194	U
191-24-2	Benzo[ghi]perylene	ND	38.7	194	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	51%	30-130
Phenol-d5	55%	30-130
Nitrobenzene-d5	59%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	64%	30-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23708.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:30
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.831	0.831	U
319-85-7	beta-BHC	ND	0.831	0.831	U
319-86-8	delta-BHC	ND	0.831	0.831	U
58-89-9	gamma-BHC [Lindane]	ND	0.831	0.831	U
76-44-8	Heptachlor	ND	0.831	0.831	U
309-00-2	Aldrin	ND	0.831	0.831	U
1024-57-3	Heptachlor Epoxide	ND	0.831	0.831	U
959-98-8	Endosulfan I	ND	0.831	0.831	U
60-57-1	Dieldrin	ND	1.68	1.68	U
72-55-9	4,4'-DDE	ND	1.68	1.68	U
72-20-8	Endrin	ND	1.68	1.68	U
33213-65-9	Endosulfan II	ND	1.68	1.68	U
72-54-8	4,4'-DDD	ND	1.68	1.68	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	U
50-29-3	4,4'-DDT	ND	1.68	1.68	U
72-43-5	Methoxychlor	ND	2.52	8.39	U
53494-70-5	Endrin ketone	ND	1.68	1.68	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	U
5103-71-9	alpha-Chlordane	ND	0.831	0.831	U
5566-34-7	gamma-Chlordane	ND	0.831	0.831	U
8001-35-2	Toxaphene	ND	41.9	41.9	U
12674-11-2	Aroclor-1016	ND	20.9	41.9	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23708.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:30
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.9	41.9	U
11141-16-5	Aroclor-1232	ND	20.9	41.9	U
53469-21-9	Aroclor-1242	ND	20.9	41.9	U
12672-29-6	Aroclor-1248	ND	20.9	41.9	U
11097-69-1	Aroclor-1254	ND	20.9	41.9	U
11096-82-5	Aroclor-1260	ND	20.9	41.9	U
37324-23-5	Aroclor-1262	ND	20.9	41.9	U
11100-14-4	Aroclor-1268	ND	20.9	41.9	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	67.3%	30-150
Tetrachloro-m-xylene [2C]	74.8%	30-150
Decachlorobiphenyl	70.1%	30-150
Decachlorobiphenyl [2C]	99.6%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B	File ID:	A23709.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:59
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.860	0.860	U
319-85-7	beta-BHC	ND	0.860	0.860	U
319-86-8	delta-BHC	ND	0.860	0.860	U
58-89-9	gamma-BHC [Lindane]	ND	0.860	0.860	U
76-44-8	Heptachlor	ND	0.860	0.860	U
309-00-2	Aldrin	ND	0.860	0.860	U
1024-57-3	Heptachlor Epoxide	ND	0.860	0.860	U
959-98-8	Endosulfan I	ND	0.860	0.860	U
60-57-1	Dieldrin	ND	1.73	1.73	U
72-55-9	4,4'-DDE	ND	1.73	1.73	U
72-20-8	Endrin	ND	1.73	1.73	U
33213-65-9	Endosulfan II	ND	1.73	1.73	U
72-54-8	4,4'-DDD	ND	1.73	1.73	U
1031-07-8	Endosulfan sulfate	ND	1.73	1.73	U
50-29-3	4,4'-DDT	ND	1.73	1.73	U
72-43-5	Methoxychlor	ND	2.61	8.68	U
53494-70-5	Endrin ketone	ND	1.73	1.73	U
7421-93-4	Endrin aldehyde	ND	1.73	1.73	U
5103-71-9	alpha-Chlordane	ND	0.860	0.860	U
5566-34-7	gamma-Chlordane	ND	0.860	0.860	U
8001-35-2	Toxaphene	ND	43.4	43.4	U
12674-11-2	Aroclor-1016	ND	21.6	43.4	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B	File ID:	A23709.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:59
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	21.6	43.4	U
11141-16-5	Aroclor-1232	ND	21.6	43.4	U
53469-21-9	Aroclor-1242	ND	21.6	43.4	U
12672-29-6	Aroclor-1248	ND	21.6	43.4	U
11097-69-1	Aroclor-1254	ND	21.6	43.4	U
11096-82-5	Aroclor-1260	ND	21.6	43.4	U
37324-23-5	Aroclor-1262	ND	21.6	43.4	U
11100-14-4	Aroclor-1268	ND	21.6	43.4	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	65.2%	30-150
Tetrachloro-m-xylene [2C]	69.3%	30-150
Decachlorobiphenyl	71.5%	30-150
Decachlorobiphenyl [2C]	90.7%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23710.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:28
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.831	0.831	U
319-85-7	beta-BHC	ND	0.831	0.831	U
319-86-8	delta-BHC	ND	0.831	0.831	U
58-89-9	gamma-BHC [Lindane]	ND	0.831	0.831	U
76-44-8	Heptachlor	ND	0.831	0.831	U
309-00-2	Aldrin	ND	0.831	0.831	U
1024-57-3	Heptachlor Epoxide	ND	0.831	0.831	U
959-98-8	Endosulfan I	ND	0.831	0.831	U
60-57-1	Dieldrin	ND	1.68	1.68	U
72-55-9	4,4'-DDE	ND	1.68	1.68	U
72-20-8	Endrin	ND	1.68	1.68	U
33213-65-9	Endosulfan II	ND	1.68	1.68	U
72-54-8	4,4'-DDD	ND	1.68	1.68	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	U
50-29-3	4,4'-DDT	ND	1.68	1.68	U
72-43-5	Methoxychlor	ND	2.52	8.39	U
53494-70-5	Endrin ketone	ND	1.68	1.68	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	U
5103-71-9	alpha-Chlordane	ND	0.831	0.831	U
5566-34-7	gamma-Chlordane	ND	0.831	0.831	U
8001-35-2	Toxaphene	ND	41.9	41.9	U
12674-11-2	Aroclor-1016	ND	20.9	41.9	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23710.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:28
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.9	41.9	U
11141-16-5	Aroclor-1232	ND	20.9	41.9	U
53469-21-9	Aroclor-1242	ND	20.9	41.9	U
12672-29-6	Aroclor-1248	ND	20.9	41.9	U
11097-69-1	Aroclor-1254	ND	20.9	41.9	U
11096-82-5	Aroclor-1260	ND	20.9	41.9	U
37324-23-5	Aroclor-1262	ND	20.9	41.9	U
11100-14-4	Aroclor-1268	ND	20.9	41.9	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	61.7%	30-150
Tetrachloro-m-xylene [2C]	69.5%	30-150
Decachlorobiphenyl	67.0%	30-150
Decachlorobiphenyl [2C]	92.0%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B	File ID:	A23711.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:58
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.825	0.825	U
319-85-7	beta-BHC	ND	0.825	0.825	U
319-86-8	delta-BHC	ND	0.825	0.825	U
58-89-9	gamma-BHC [Lindane]	ND	0.825	0.825	U
76-44-8	Heptachlor	ND	0.825	0.825	U
309-00-2	Aldrin	ND	0.825	0.825	U
1024-57-3	Heptachlor Epoxide	ND	0.825	0.825	U
959-98-8	Endosulfan I	ND	0.825	0.825	U
60-57-1	Dieldrin	ND	1.66	1.66	U
72-55-9	4,4'-DDE	ND	1.66	1.66	U
72-20-8	Endrin	ND	1.66	1.66	U
33213-65-9	Endosulfan II	ND	1.66	1.66	U
72-54-8	4,4'-DDD	ND	1.66	1.66	U
1031-07-8	Endosulfan sulfate	ND	1.66	1.66	U
50-29-3	4,4'-DDT	ND	1.66	1.66	U
72-43-5	Methoxychlor	ND	2.50	8.32	U
53494-70-5	Endrin ketone	ND	1.66	1.66	U
7421-93-4	Endrin aldehyde	ND	1.66	1.66	U
5103-71-9	alpha-Chlordane	ND	0.825	0.825	U
5566-34-7	gamma-Chlordane	ND	0.825	0.825	U
8001-35-2	Toxaphene	ND	41.6	41.6	U
12674-11-2	Aroclor-1016	ND	20.8	41.6	U

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ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B	File ID:	A23711.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:58
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.8	41.6	U
11141-16-5	Aroclor-1232	ND	20.8	41.6	U
53469-21-9	Aroclor-1242	ND	20.8	41.6	U
12672-29-6	Aroclor-1248	ND	20.8	41.6	U
11097-69-1	Aroclor-1254	ND	20.8	41.6	U
11096-82-5	Aroclor-1260	ND	20.8	41.6	U
37324-23-5	Aroclor-1262	ND	20.8	41.6	U
11100-14-4	Aroclor-1268	ND	20.8	41.6	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	63.5%	30-150
Tetrachloro-m-xylene [2C]	71.6%	30-150
Decachlorobiphenyl	69.5%	30-150
Decachlorobiphenyl [2C]	90.8%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B	File ID:	A23712.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:27
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.793	0.793	U
319-85-7	beta-BHC	ND	0.793	0.793	U
319-86-8	delta-BHC	ND	0.793	0.793	U
58-89-9	gamma-BHC [Lindane]	ND	0.793	0.793	U
76-44-8	Heptachlor	ND	0.793	0.793	U
309-00-2	Aldrin	ND	0.793	0.793	U
1024-57-3	Heptachlor Epoxide	ND	0.793	0.793	U
959-98-8	Endosulfan I	ND	0.793	0.793	U
60-57-1	Dieldrin	ND	1.60	1.60	U
72-55-9	4,4'-DDE	ND	1.60	1.60	U
72-20-8	Endrin	ND	1.60	1.60	U
33213-65-9	Endosulfan II	ND	1.60	1.60	U
72-54-8	4,4'-DDD	ND	1.60	1.60	U
1031-07-8	Endosulfan sulfate	ND	1.60	1.60	U
50-29-3	4,4'-DDT	ND	1.60	1.60	U
72-43-5	Methoxychlor	ND	2.40	8.00	U
53494-70-5	Endrin ketone	ND	1.60	1.60	U
7421-93-4	Endrin aldehyde	ND	1.60	1.60	U
5103-71-9	alpha-Chlordane	ND	0.793	0.793	U
5566-34-7	gamma-Chlordane	ND	0.793	0.793	U
8001-35-2	Toxaphene	ND	40.0	40.0	U
12674-11-2	Aroclor-1016	ND	20.0	40.0	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B	File ID:	A23712.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:27
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.0	40.0	U
11141-16-5	Aroclor-1232	ND	20.0	40.0	U
53469-21-9	Aroclor-1242	ND	20.0	40.0	U
12672-29-6	Aroclor-1248	ND	20.0	40.0	U
11097-69-1	Aroclor-1254	ND	20.0	40.0	U
11096-82-5	Aroclor-1260	ND	20.0	40.0	U
37324-23-5	Aroclor-1262	ND	20.0	40.0	U
11100-14-4	Aroclor-1268	ND	20.0	40.0	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	76.7%	30-150
Tetrachloro-m-xylene [2C]	91.1%	30-150
Decachlorobiphenyl	83.5%	30-150
Decachlorobiphenyl [2C]	84.7%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B	File ID:	A23713.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:56
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.806	0.806	U
319-85-7	beta-BHC	ND	0.806	0.806	U
319-86-8	delta-BHC	ND	0.806	0.806	U
58-89-9	gamma-BHC [Lindane]	ND	0.806	0.806	U
76-44-8	Heptachlor	ND	0.806	0.806	U
309-00-2	Aldrin	ND	0.806	0.806	U
1024-57-3	Heptachlor Epoxide	ND	0.806	0.806	U
959-98-8	Endosulfan I	ND	0.806	0.806	U
60-57-1	Dieldrin	ND	1.62	1.62	U
72-55-9	4,4'-DDE	ND	1.62	1.62	U
72-20-8	Endrin	ND	1.62	1.62	U
33213-65-9	Endosulfan II	ND	1.62	1.62	U
72-54-8	4,4'-DDD	ND	1.62	1.62	U
1031-07-8	Endosulfan sulfate	ND	1.62	1.62	U
50-29-3	4,4'-DDT	ND	1.62	1.62	U
72-43-5	Methoxychlor	ND	2.44	8.13	U
53494-70-5	Endrin ketone	ND	1.62	1.62	U
7421-93-4	Endrin aldehyde	ND	1.62	1.62	U
5103-71-9	alpha-Chlordane	ND	0.806	0.806	U
5566-34-7	gamma-Chlordane	ND	0.806	0.806	U
8001-35-2	Toxaphene	ND	40.7	40.7	U
12674-11-2	Aroclor-1016	ND	20.3	40.7	U

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ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B	File ID:	A23713.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:56
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.3	40.7	U
11141-16-5	Aroclor-1232	ND	20.3	40.7	U
53469-21-9	Aroclor-1242	ND	20.3	40.7	U
12672-29-6	Aroclor-1248	ND	20.3	40.7	U
11097-69-1	Aroclor-1254	ND	20.3	40.7	U
11096-82-5	Aroclor-1260	ND	20.3	40.7	U
37324-23-5	Aroclor-1262	ND	20.3	40.7	U
11100-14-4	Aroclor-1268	ND	20.3	40.7	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	63.9%	30-150
Tetrachloro-m-xylene [2C]	70.8%	30-150
Decachlorobiphenyl	67.2%	30-150
Decachlorobiphenyl [2C]	76.5%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B	File ID:	A23729.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 16:48
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.758	0.758	U
319-85-7	beta-BHC	ND	0.758	0.758	U
319-86-8	delta-BHC	ND	0.758	0.758	U
58-89-9	gamma-BHC [Lindane]	ND	0.758	0.758	U
76-44-8	Heptachlor	ND	0.758	0.758	U
309-00-2	Aldrin	ND	0.758	0.758	U
1024-57-3	Heptachlor Epoxide	ND	0.758	0.758	U
959-98-8	Endosulfan I	ND	0.758	0.758	U
60-57-1	Dieldrin	ND	1.53	1.53	U
72-55-9	4,4'-DDE	ND	1.53	1.53	U
72-20-8	Endrin	ND	1.53	1.53	U
33213-65-9	Endosulfan II	ND	1.53	1.53	U
72-54-8	4,4'-DDD	ND	1.53	1.53	U
1031-07-8	Endosulfan sulfate	ND	1.53	1.53	U
50-29-3	4,4'-DDT	ND	1.53	1.53	U
72-43-5	Methoxychlor	ND	2.30	7.65	U
53494-70-5	Endrin ketone	ND	1.53	1.53	U
7421-93-4	Endrin aldehyde	ND	1.53	1.53	U
5103-71-9	alpha-Chlordane	ND	0.758	0.758	U
5566-34-7	gamma-Chlordane	ND	0.758	0.758	U
8001-35-2	Toxaphene	ND	38.2	38.2	U
12674-11-2	Aroclor-1016	ND	19.1	38.2	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B	File ID:	A23729.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 16:48
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.1	38.2	U
11141-16-5	Aroclor-1232	ND	19.1	38.2	U
53469-21-9	Aroclor-1242	ND	19.1	38.2	U
12672-29-6	Aroclor-1248	ND	19.1	38.2	U
11097-69-1	Aroclor-1254	ND	19.1	38.2	U
11096-82-5	Aroclor-1260	ND	19.1	38.2	U
37324-23-5	Aroclor-1262	ND	19.1	38.2	U
11100-14-4	Aroclor-1268	ND	19.1	38.2	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	73.8%	30-150
Tetrachloro-m-xylene [2C]	89.3%	30-150
Decachlorobiphenyl	92.3%	30-150
Decachlorobiphenyl [2C]	127%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B	File ID:	A23730.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 17:17
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.767	0.767	U
319-85-7	beta-BHC	ND	0.767	0.767	U
319-86-8	delta-BHC	ND	0.767	0.767	U
58-89-9	gamma-BHC [Lindane]	ND	0.767	0.767	U
76-44-8	Heptachlor	ND	0.767	0.767	U
309-00-2	Aldrin	ND	0.767	0.767	U
1024-57-3	Heptachlor Epoxide	ND	0.767	0.767	U
959-98-8	Endosulfan I	ND	0.767	0.767	U
60-57-1	Dieldrin	ND	1.54	1.54	U
72-55-9	4,4'-DDE	ND	1.54	1.54	U
72-20-8	Endrin	ND	1.54	1.54	U
33213-65-9	Endosulfan II	ND	1.54	1.54	U
72-54-8	4,4'-DDD	ND	1.54	1.54	U
1031-07-8	Endosulfan sulfate	ND	1.54	1.54	U
50-29-3	4,4'-DDT	ND	1.54	1.54	U
72-43-5	Methoxychlor	ND	2.32	7.74	U
53494-70-5	Endrin ketone	ND	1.54	1.54	U
7421-93-4	Endrin aldehyde	ND	1.54	1.54	U
5103-71-9	alpha-Chlordane	ND	0.767	0.767	U
5566-34-7	gamma-Chlordane	ND	0.767	0.767	U
8001-35-2	Toxaphene	ND	38.7	38.7	U
12674-11-2	Aroclor-1016	ND	19.3	38.7	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B	File ID:	A23730.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 17:17
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.3	38.7	U
11141-16-5	Aroclor-1232	ND	19.3	38.7	U
53469-21-9	Aroclor-1242	ND	19.3	38.7	U
12672-29-6	Aroclor-1248	ND	19.3	38.7	U
11097-69-1	Aroclor-1254	ND	19.3	38.7	U
11096-82-5	Aroclor-1260	ND	19.3	38.7	U
37324-23-5	Aroclor-1262	ND	19.3	38.7	U
11100-14-4	Aroclor-1268	ND	19.3	38.7	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	76.6%	30-150
Tetrachloro-m-xylene [2C]	92.5%	30-150
Decachlorobiphenyl	94.1%	30-150
Decachlorobiphenyl [2C]	114%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Matrix:	Soil
Percent Solids:	79.40	File ID:	120616A-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10600 J	18.1	18.1	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-97-6	Mercury	0.215	0.0945	0.0945	1		12/06/16 07:56	EPA 7471A	12/07/16 11:38 PRT	EPA 7471
7440-36-0	Antimony	ND	3.62	3.62	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-38-2	Arsenic	2.28	0.906	0.906	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-39-3	Barium	76.9	18.1	18.1	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-41-7	Beryllium	0.492	0.453	0.453	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-43-9	Cadmium	1.35	0.453	0.453	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-70-2	Calcium	13200	22.7	22.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-47-3	Chromium	21.0	1.81	1.81	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-48-4	Cobalt	9.53	4.53	4.53	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-50-8	Copper	46.1	2.72	2.72	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-89-6	Iron	24100	566	566	25	D	12/05/16 08:56	EPA 3050B	12/06/16 13:51 LIT	EPA 6010
7439-92-1	Lead	169	0.906	0.906	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-95-4	Magnesium	7500	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-96-5	Manganese	400	1.81	1.81	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-02-0	Nickel	18.3	3.62	3.62	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-09-7	Potassium	1540	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7782-49-2	Selenium	ND	3.62	3.62	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-22-4	Silver	ND	0.453	0.453	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-23-5	Sodium	275 J	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-28-0	Thallium	ND	1.36	2.72	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-62-2	Vanadium	30.6	4.53	4.53	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-66-6	Zinc	150	5.44	5.44	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MKP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Matrix:	Soil
Percent Solids:	76.70	File ID:	120616A-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11100 J	25.5	25.5	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-97-6	Mercury	0.223	0.0978	0.0978	1		12/06/16 07:56	EPA 7471A	12/07/16 11:47 PRT	EPA 7471
7440-36-0	Antimony	ND	5.10	5.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-38-2	Arsenic	2.84	1.27	1.27	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-39-3	Barium	76.7	25.5	25.5	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.637	0.637	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-43-9	Cadmium	1.27	0.637	0.637	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-70-2	Calcium	6920	31.9	31.9	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-47-3	Chromium	20.8	2.55	2.55	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-48-4	Cobalt	9.86	6.37	6.37	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-50-8	Copper	46.0	3.82	3.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-89-6	Iron	27100	797	797	25	D	12/05/16 08:56	EPA 3050B	12/06/16 13:56 LIT	EPA 6010
7439-92-1	Lead	134	1.27	1.27	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-95-4	Magnesium	5830	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-96-5	Manganese	411	2.55	2.55	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-02-0	Nickel	18.7	5.10	5.10	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-09-7	Potassium	1490	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7782-49-2	Selenium	ND	2.55	5.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-22-4	Silver	ND	0.637	0.637	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-23-5	Sodium	283 J	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-28-0	Thallium	ND	1.91	3.82	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-62-2	Vanadium	30.7	6.37	6.37	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-66-6	Zinc	151	7.65	7.65	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
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J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MKP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Matrix:	Soil
Percent Solids:	79.40	File ID:	120616A-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	12000 J	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-97-6	Mercury	0.202	0.0945	0.0945	1		12/06/16 07:56	EPA 7471A	12/07/16 11:49 PRT	EPA 7471
7440-36-0	Antimony	ND	4.10	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-38-2	Arsenic	1.73	1.02	1.02	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-39-3	Barium	52.5	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.512	0.512	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-43-9	Cadmium	0.770	0.512	0.512	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-70-2	Calcium	3580	25.6	25.6	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-47-3	Chromium	21.1	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-48-4	Cobalt	8.71	5.12	5.12	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-50-8	Copper	24.8	3.07	3.07	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-89-6	Iron	20600	640	640	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:01 LIT	EPA 6010
7439-92-1	Lead	48.8	1.02	1.02	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-95-4	Magnesium	5090	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-96-5	Manganese	389	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-02-0	Nickel	15.7	4.10	4.10	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-09-7	Potassium	1230	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7782-49-2	Selenium	ND	2.05	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-22-4	Silver	ND	0.512	0.512	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-23-5	Sodium	227 J	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-28-0	Thallium	ND	1.54	3.07	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-62-2	Vanadium	28.3	5.12	5.12	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-66-6	Zinc	92.3	6.15	6.15	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

MKP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Matrix:	Soil
Percent Solids:	80.00	File ID:	120616A-024

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11200 J	22.6	22.6	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-97-6	Mercury	0.269	0.0938	0.0938	1		12/06/16 07:56	EPA 7471A	12/07/16 11:51 PRT	EPA 7471
7440-36-0	Antimony	ND	4.51	4.51	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-38-2	Arsenic	2.11	1.13	1.13	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-39-3	Barium	69.9	22.6	22.6	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.564	0.564	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-43-9	Cadmium	1.15	0.564	0.564	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-70-2	Calcium	7290	28.2	28.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-47-3	Chromium	21.5	2.26	2.26	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-48-4	Cobalt	9.88	5.64	5.64	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-50-8	Copper	48.3	3.38	3.38	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-89-6	Iron	24900	705	705	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:06 LIT	EPA 6010
7439-92-1	Lead	174	1.13	1.13	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-95-4	Magnesium	6270	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-96-5	Manganese	466	2.26	2.26	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-02-0	Nickel	17.6	4.51	4.51	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-09-7	Potassium	1530	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7782-49-2	Selenium	ND	2.26	4.51	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-22-4	Silver	ND	0.564	0.564	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-23-5	Sodium	279 J	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-28-0	Thallium	ND	1.69	3.38	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-62-2	Vanadium	29.7	5.64	5.64	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-66-6	Zinc	127	6.77	6.77	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010

* Values outside of QC limits
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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
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 MKP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Matrix:	Soil
Percent Solids:	83.20	File ID:	120616A-025

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11500 J-	18.2	18.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0901	0.0901	1	U	12/06/16 07:56	EPA 7471A	12/07/16 11:53 PRT	EPA 7471
7440-36-0	Antimony	ND	3.63	3.63	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-38-2	Arsenic	ND	0.908	0.908	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-39-3	Barium	52.5	18.2	18.2	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-41-7	Beryllium	0.526	0.454	0.454	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-43-9	Cadmium	0.695	0.454	0.454	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-70-2	Calcium	1150	22.7	22.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-47-3	Chromium	21.3	1.82	1.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-48-4	Cobalt	10.7	4.54	4.54	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-50-8	Copper	19.8	2.72	2.72	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-89-6	Iron	19800	567	567	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:11 LIT	EPA 6010
7439-92-1	Lead	17.3	0.908	0.908	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-95-4	Magnesium	4790	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-96-5	Manganese	360	1.82	1.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-02-0	Nickel	17.3	3.63	3.63	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-09-7	Potassium	1760	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7782-49-2	Selenium	ND	3.63	3.63	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-22-4	Silver	ND	0.454	0.454	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-23-5	Sodium	126 J	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-28-0	Thallium	ND	1.36	2.72	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-62-2	Vanadium	33.8	4.54	4.54	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-66-6	Zinc	61.3	5.45	5.45	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010

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E - Concentration exceeds highest calibration standard
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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Matrix:	Soil
Percent Solids:	81.90	File ID:	120616A-026

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10300 J	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-97-6	Mercury	0.237	0.0916	0.0916	1		12/06/16 07:56	EPA 7471A	12/07/16 11:55 PRT	EPA 7471
7440-36-0	Antimony	ND	4.65	4.65	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-38-2	Arsenic	2.30	1.16	1.16	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-39-3	Barium	72.2	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.581	0.581	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-43-9	Cadmium	1.06	0.581	0.581	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-70-2	Calcium	6750	29.0	29.0	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-47-3	Chromium	19.8	2.32	2.32	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-48-4	Cobalt	9.73	5.81	5.81	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-50-8	Copper	44.3	3.49	3.49	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-89-6	Iron	23200	726	726	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:17 LIT	EPA 6010
7439-92-1	Lead	162	1.16	1.16	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-95-4	Magnesium	6280	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-96-5	Manganese	401	2.32	2.32	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-02-0	Nickel	17.4	4.65	4.65	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-09-7	Potassium	1530	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7782-49-2	Selenium	ND	2.32	4.65	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-22-4	Silver	ND	0.581	0.581	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-23-5	Sodium	239 J	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-28-0	Thallium	ND	1.74	3.49	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-62-2	Vanadium	29.0	5.81	5.81	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-66-6	Zinc	131	6.97	6.97	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010

* Values outside of QC limits
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 mkf 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Matrix:	Soil
Percent Solids:	87.10	File ID:	120616A-027

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	9890 J	18.5	18.5	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0861	0.0861	1	U	12/06/16 07:56	EPA 7471A	12/07/16 11:57 PRT	EPA 7471
7440-36-0	Antimony	ND	3.71	3.71	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-38-2	Arsenic	1.56	0.927	0.927	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-39-3	Barium	55.1	18.5	18.5	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.463	0.463	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-43-9	Cadmium	0.913	0.463	0.463	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-70-2	Calcium	3270	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-47-3	Chromium	18.4	1.85	1.85	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-48-4	Cobalt	10.2	4.63	4.63	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-50-8	Copper	30.7	2.78	2.78	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-89-6	Iron	21400	579	579	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:22 LIT	EPA 6010
7439-92-1	Lead	63.6	0.927	0.927	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-95-4	Magnesium	5080	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-96-5	Manganese	412	1.85	1.85	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-02-0	Nickel	17.2	3.71	3.71	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-09-7	Potassium	1440	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7782-49-2	Selenium	ND	3.71	3.71	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-22-4	Silver	ND	0.463	0.463	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-23-5	Sodium	129 J	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-28-0	Thallium	ND	1.39	2.78	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-62-2	Vanadium	25.9	4.63	4.63	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-66-6	Zinc	100	5.56	5.56	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010

* Values outside of QC limits
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 MKP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Matrix:	Soil
Percent Solids:	86.10	File ID:	120616A-028

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10600 J	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-97-6	Mercury	0.0883	0.0871	0.0871	1		12/06/16 07:56	EPA 7471A	12/07/16 11:59 PRT	EPA 7471
7440-36-0	Antimony	ND	4.10	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-38-2	Arsenic	1.73	1.03	1.03	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-39-3	Barium	42.9	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.513	0.513	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-43-9	Cadmium	0.554	0.513	0.513	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-70-2	Calcium	1380	25.7	25.7	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-47-3	Chromium	17.5	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-48-4	Cobalt	11.1	5.13	5.13	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-50-8	Copper	18.3	3.08	3.08	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-89-6	Iron	18000	641	641	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:27 LIT	EPA 6010
7439-92-1	Lead	31.8	1.03	1.03	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-95-4	Magnesium	4270	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-96-5	Manganese	227	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-02-0	Nickel	16.4	4.10	4.10	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-09-7	Potassium	1110	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7782-49-2	Selenium	ND	2.05	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-22-4	Silver	ND	0.513	0.513	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-23-5	Sodium	138 J	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-28-0	Thallium	ND	1.54	3.08	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-62-2	Vanadium	22.7	5.13	5.13	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-66-6	Zinc	55.6	6.16	6.16	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010

* Values outside of QC limits
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 MXP 12/18/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Matrix:	Soil
Percent Solids:	79.40	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.0	1.44	1.44	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.52	2.52	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.26	1.26	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	79.4	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Matrix:	Soil
Percent Solids:	76.70	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	20.8	1.96	1.96	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.61	2.61	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.30	1.30	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	76.7	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Matrix:	Soil
Percent Solids:	79.40	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.1	1.63	1.63	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.52	2.52	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.26	1.26	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	79.4	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Matrix:	Soil
Percent Solids:	80.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.5	1.81	1.81	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.50	2.50	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.25	1.25	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	80.0	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Matrix:	Soil
Percent Solids:	83.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.3	1.51	1.51	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.40	2.40	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.20	1.20	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	83.2	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Matrix:	Soil
Percent Solids:	81.90	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	19.8	1.90	1.90	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.44	2.44	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.22	1.22	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	81.9	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Matrix:	Soil
Percent Solids:	87.10	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	18.4	1.61	1.61	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.30	2.30	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.15	1.15	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	87.1	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Matrix:	Soil
Percent Solids:	86.10	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	17.5	1.77	1.77	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.32	2.32	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.16	1.16	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	86.1	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602245
Project: 255 East 138th Street

Matrix:	Solid	Laboratory ID:	B6L0614-BLK1	File ID:	A10495.D
Batch:	B6L0614	Prepared:	12/06/16 10:36	Analyzed:	12/06/16 10:36
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S6L0607	Instrument:	GC/MS A

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND	1.00	2.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	3.28	1.00	2.00	
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-34

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1602245

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B6L0614	Prep Method:	EPA 5035A
Percent Solids:	79.40	Laboratory ID:	B6L0614-MS1
		Client Sample ID:	1602245-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Benzene	63.0	ND	62.3	99		70 - 130
Trichloroethene	63.0	ND	61.0	97		70 - 130
Methylcyclohexane	63.0	ND	55.8	89		70 - 130
1,2-Dichloropropane	63.0	ND	64.7	103		70 - 130
Bromodichloromethane	63.0	ND	65.8	105		70 - 130
Dibromomethane	63.0	ND	66.4	106		70 - 130
2-Chloroethyl vinyl ether	63.0	ND	105	166	*	40 - 160
cis-1,3-Dichloropropene	63.0	ND	64.2	102		70 - 130
Toluene	63.0	ND	60.7	96		70 - 130
trans-1,3-Dichloropropene	63.0	ND	63.6	101		70 - 130
1,1,2-Trichloroethane	63.0	ND	63.8	101		70 - 130
4-Methyl-2-pentanone	63.0	ND	66.0	105		40 - 160
1,2-Dibromoethane	63.0	ND	62.6	99		70 - 130
2-Hexanone	63.0	ND	56.1	89		40 - 160
1,3-Dichloropropane	63.0	ND	63.9	101		70 - 130
Tetrachloroethene	63.0	ND	61.1	97		70 - 130
Dibromochloromethane	63.0	ND	67.3	107		70 - 130
Ethylbenzene	63.0	ND	60.8	97		70 - 130
Chlorobenzene	63.0	ND	61.3	97		70 - 130
1,1,1,2-Tetrachloroethane	63.0	ND	63.7	101		70 - 130
m,p-Xylenes	126	ND	122	97		70 - 130
o-Xylene	126	ND	127	101		70 - 130
Styrene	126	ND	125	99		70 - 130
Bromoform	63.0	ND	60.2	96		70 - 130
Isopropylbenzene	63.0	ND	61.0	97		70 - 130
1,1,2,2-Tetrachloroethane	63.0	ND	64.8	103		70 - 130
1,2,3-Trichloropropane	63.0	ND	68.9	109		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-34

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1602245

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B6L0614	Prep Method:	EPA 5035A
Percent Solids:	79.40	Laboratory ID:	B6L0614-MSD1
		Client Sample ID:	1602245-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
n-Propyl Benzene	63.0	59.4	94		0.08	30	70 - 130
Bromobenzene	63.0	67.7	108		8	30	70 - 130
1,3,5-Trimethylbenzene	63.0	61.9	98		0.6	30	70 - 130
2-Chlorotoluene	63.0	61.7	98		3	30	70 - 130
4-Chlorotoluene	63.0	62.2	99		5	30	70 - 130
tert-Butylbenzene	63.0	60.3	96		1	30	70 - 130
1,2,4-Trimethylbenzene	63.0	60.7	96		1	30	70 - 130
sec-Butylbenzene	63.0	54.7	87		4	30	70 - 130
p-Isopropyltoluene	63.0	56.6	90		3	30	70 - 130
1,3-Dichlorobenzene	63.0	60.7	96		2	30	70 - 130
1,4-Dichlorobenzene	63.0	59.4	94		0.9	30	70 - 130
n-Butyl Benzene	63.0	54.3	86		5	30	70 - 130
1,2-Dichlorobenzene	63.0	60.6	96		1	30	70 - 130
1,2-Dibromo-3-chloropropane	63.0	70.4	112		10	30	40 - 160
1,2,4-Trichlorobenzene	63.0	51.9	82		3	30	70 - 130
Hexachlorobutadiene	63.0	41.8	66	*	12	30	70 - 130
Naphthalene	63.0	57.9	90		3	30	40 - 160
1,2,3-Trichlorobenzene	63.0	51.4	82		2	30	70 - 130
Methyl tert-Butyl Ether	126	152	121		20	30	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1602245

Matrix:	Solid	Prep Method:	EPA 5035A
Prep Batch:	B6L0515	Lab Sample ID:	B6L0515-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Trichloroethene	50.0	46.4	93	70 - 130
Methylcyclohexane	50.0	48.0	96	70 - 130
1,2-Dichloropropane	50.0	48.5	97	70 - 130
Bromodichloromethane	50.0	50.3	101	70 - 130
Dibromomethane	50.0	49.3	99	70 - 130
2-Chloroethyl vinyl ether	50.0	87.4	175 *	40 - 160
cis-1,3-Dichloropropene	50.0	49.9	100	70 - 130
Toluene	50.0	47.4	95	70 - 130
trans-1,3-Dichloropropene	50.0	51.2	102	70 - 130
1,1,2-Trichloroethane	50.0	49.0	98	70 - 130
4-Methyl-2-pentanone	50.0	50.8	102	40 - 160
1,2-Dibromoethane	50.0	50.0	100	70 - 130
2-Hexanone	50.0	40.1	80	40 - 160
1,3-Dichloropropane	50.0	48.2	96	70 - 130
Tetrachloroethene	50.0	45.8	92	70 - 130
Dibromochloromethane	50.0	49.8	100	70 - 130
Ethylbenzene	50.0	46.3	93	70 - 130
Chlorobenzene	50.0	46.7	93	70 - 130
1,1,1,2-Tetrachloroethane	50.0	47.3	95	70 - 130
m,p-Xylenes	100	92.8	93	70 - 130
o-Xylene	100	96.9	97	70 - 130
Styrene	100	98.1	98	70 - 130
Bromoform	50.0	48.5	97	70 - 130
Isopropylbenzene	50.0	47.0	94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.5	103	70 - 130
1,2,3-Trichloropropane	50.0	51.6	103	70 - 130
n-Propyl Benzene	50.0	46.2	92	70 - 130
Bromobenzene	50.0	48.2	96	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1602245

Matrix:	Solid	Prep Method:	EPA 5035A
Prep Batch:	B6L0614	Lab Sample ID:	B6L0614-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Trichloroethene	50.0	49.5	99	70 - 130
Methylcyclohexane	50.0	50.4	101	70 - 130
1,2-Dichloropropane	50.0	49.1	98	70 - 130
Bromodichloromethane	50.0	52.0	104	70 - 130
Dibromomethane	50.0	50.8	102	70 - 130
2-Chloroethyl vinyl ether	50.0	97.9	196 *	40 - 160
cis-1,3-Dichloropropene	50.0	48.9	98	70 - 130
Toluene	50.0	48.2	96	70 - 130
trans-1,3-Dichloropropene	50.0	49.2	98	70 - 130
1,1,2-Trichloroethane	50.0	49.1	98	70 - 130
4-Methyl-2-pentanone	50.0	47.7	95	40 - 160
1,2-Dibromoethane	50.0	48.7	97	70 - 130
2-Hexanone	50.0	38.8	78	40 - 160
1,3-Dichloropropane	50.0	48.2	96	70 - 130
Tetrachloroethene	50.0	49.2	98	70 - 130
Dibromochloromethane	50.0	49.4	99	70 - 130
Ethylbenzene	50.0	48.8	98	70 - 130
Chlorobenzene	50.0	48.8	98	70 - 130
1,1,1,2-Tetrachloroethane	50.0	50.2	100	70 - 130
m,p-Xylenes	100	98.3	98	70 - 130
o-Xylene	100	102	102	70 - 130
Styrene	100	102	102	70 - 130
Bromoform	50.0	47.7	95	70 - 130
Isopropylbenzene	50.0	47.8	96	70 - 130
1,1,2,2-Tetrachloroethane	50.0	46.7	93	70 - 130
1,2,3-Trichloropropane	50.0	47.8	96	70 - 130
n-Propyl Benzene	50.0	47.6	95	70 - 130
Bromobenzene	50.0	47.8	96	70 - 130

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602245
Project: 255 East 138th Street

Sequence: S6L0509

Instrument: GC/MS A
Calibration: 16K2902

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-35 (1602245-02)			*Lab File ID: A10481.D*			*Analyzed: 12/05/16 18:37*			
Pentafluorobenzene	686179	6.4	898975	6.4	76	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1164701	7.11	1555360	7.11	75	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	787231	11.21	1268861	11.21	62	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	273170	16.73	587683	16.74	46	50 - 200	-0.0100	+/-0.50	*
EP-36 (1602245-03)			*Lab File ID: A10482.D*			*Analyzed: 12/05/16 19:09*			
Pentafluorobenzene	649223	6.4	898975	6.4	72	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1103510	7.11	1555360	7.11	71	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	749932	11.2	1268861	11.21	59	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	268980	16.74	587683	16.74	46	50 - 200	0.0000	+/-0.50	*
EP-37 (1602245-04)			*Lab File ID: A10483.D*			*Analyzed: 12/05/16 19:40*			
Pentafluorobenzene	634357	6.4	898975	6.4	71	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1084759	7.1	1555360	7.11	70	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	703762	11.2	1268861	11.21	55	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	248019	16.72	587683	16.74	42	50 - 200	-0.0200	+/-0.50	*
EP-38 (1602245-05)			*Lab File ID: A10484.D*			*Analyzed: 12/05/16 20:11*			
Pentafluorobenzene	866807	6.4	898975	6.4	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1476526	7.11	1555360	7.11	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1148450	11.21	1268861	11.21	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	450184	16.72	587683	16.74	77	50 - 200	-0.0200	+/-0.50	
EP-40 (1602245-07)			*Lab File ID: A10486.D*			*Analyzed: 12/05/16 21:14*			
Pentafluorobenzene	756441	6.4	898975	6.4	84	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1311666	7.1	1555360	7.11	84	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1032548	11.2	1268861	11.21	81	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	397170	16.72	587683	16.74	68	50 - 200	-0.0200	+/-0.50	

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602245
Project: 255 East 138th Street

Sequence: S6L0607

Instrument: GC/MS A
Calibration: 16K2902

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-34 (1602245-01)			*Lab File ID: A10500.D*			*Analyzed: 12/06/16 13:28*			
Pentafluorobenzene	768417	6.4	868869	6.4	88	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1274746	7.11	1430366	7.09	89	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	997060	11.21	1200524	11.2	83	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	417774	16.73	572433	16.72	73	50 - 200	0.0100	+/-0.50	
EP-35 (1602245-02RE1)			*Lab File ID: A10505.D*			*Analyzed: 12/06/16 16:04*			
Pentafluorobenzene	556986	6.42	868869	6.4	64	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	949644	7.11	1430366	7.09	66	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	674269	11.21	1200524	11.2	56	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	243667	16.74	572433	16.72	43	50 - 200	0.0200	+/-0.50	*
EP-37 (1602245-04RE1)			*Lab File ID: A10506.D*			*Analyzed: 12/06/16 20:51*			
Pentafluorobenzene	393999	6.46	868869	6.4	45	50 - 200	0.0600	+/-0.50	*
1,4-Difluorobenzene	666478	7.15	1430366	7.09	47	50 - 200	0.0600	+/-0.50	*
Chlorobenzene-d5	353228	11.22	1200524	11.2	29	50 - 200	0.0200	+/-0.50	*
1,4-Dichlorobenzene-d4	117824	16.75	572433	16.72	21	50 - 200	0.0300	+/-0.50	*

* Values outside of QC limits

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602245
Project: 255 East 138th Street

Sequence: S6L0708

Instrument: GC/MS A
Calibration: 16K2902

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S6L0708-CCV1)			*Lab File ID: A10519.D*			*Analyzed: 12/07/16 11:33*			
Pentafluorobenzene	770467	6.4	892791	6.41	86	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene	1265724	7.11	1470675	7.11	86	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1077003	11.21	1196462	11.21	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	555038	16.74	526650	16.73	105	50 - 200	0.0100	+/-0.50	
Blank (B6L0715-BLK1)			*Lab File ID: A10521.D*			*Analyzed: 12/07/16 12:37*			
Pentafluorobenzene	794115	6.4	770467	6.4	103	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1285660	7.11	1265724	7.11	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1013052	11.21	1077003	11.21	94	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	462452	16.73	555038	16.74	83	50 - 200	-0.0100	+/-0.50	
EP-39 (1602245-06)			*Lab File ID: A10522.D*			*Analyzed: 12/07/16 13:17*			
Pentafluorobenzene	654866	6.4	770467	6.4	85	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1076776	7.11	1265724	7.11	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	770009	11.21	1077003	11.21	71	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	294546	16.72	555038	16.74	53	50 - 200	-0.0200	+/-0.50	
EP-36 (1602245-03RE1)			*Lab File ID: A10523.D*			*Analyzed: 12/07/16 13:49*			
Pentafluorobenzene	571595	6.41	770467	6.4	74	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	920863	7.11	1265724	7.11	73	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	658963	11.21	1077003	11.21	61	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	260039	16.73	555038	16.74	47	50 - 200	-0.0100	+/-0.50	*
LCS (B6L0715-BS1)			*Lab File ID: A10525.D*			*Analyzed: 12/07/16 14:59*			
Pentafluorobenzene	827456	6.4	770467	6.4	107	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1331299	7.11	1265724	7.11	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1065990	11.21	1077003	11.21	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	504927	16.73	555038	16.74	91	50 - 200	-0.0100	+/-0.50	

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INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602245
Project: 255 East 138th Street

Calibration:	16K2902	Instrument:	GC/MS A
		Calibration Date:	11/17/2016 2:24:35PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	4.390239E-02	2.299134		
Acrylonitrile	0.1147315	4.526438		
Acetone	0.2535901	38.1222		
Dichlorodifluoromethane	0.4112477	17.55926		
Chloromethane	0.7616596	9.875008	SPCC (0.1)	
Vinyl chloride	0.7260558	9.803064	CCC (20)	
Bromomethane	0.4938754	7.050149		
Chloroethane	0.2082682	8.880334		
Trichlorofluoromethane	0.5822394	12.59423		
Freon 113	0.5302295	8.81663		
1,1-Dichloroethene	0.66765	9.913446	CCC (20)	
Carbon disulfide	1.728157	3.823027		
Methyl Acetate	0.2379709	15.84588		
Methylene Chloride	1.154874	84.09013		
trans-1,2-Dichloroethene	0.729265	6.393617		
1,1-Dichloroethane	0.9230035	6.171674	SPCC (0.1)	
Vinyl acetate	0.8582262	6.083762		
2,2-Dichloropropane	0.7228876	5.674502		
2-Butanone	0.2586982	5.496888		
cis-1,2-Dichloroethene	0.7166405	3.805645		
Chloroform	0.8574199	5.180835	CCC (20)	
Bromochloromethane	0.3076896	7.871377		
Cyclohexane	1.023764	2.759858		
1,1,1-Trichloroethane	0.6739373	4.342543		
t-Butyl alcohol	2.531871E-02	6.236099		

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CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	**BRINKERHOFF ENVIRONMENTAL**		
Work Order:	**1602245**		
Project:	**255 East 138th Street**		
Instrument ID:	GC/MS A	Calibration:	16K2902
Lab File ID:	A10469.D	Calibration Date:	11/17/16 14:24
Sequence:	S6L0509	Injection Date:	12/05/16
Lab Sample ID:	S6L0509-CCV1	Injection Time:	11:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	272	4.390239E-02	4.773525E-02		8.7	
Acrylonitrile	A	250	273	0.1147315	0.1254698		9.4	
Acetone	L	50.0	49.3	0.2535901	0.2025562		-20.1	
Dichlorodifluoromethane	L	50.0	57.4	0.4112477	0.4509158		9.6	
Chloromethane	A	50.0	55.6	0.7616596	0.8461893	0.1	11.1	
Vinyl chloride	A	50.0	56.4	0.7260558	0.8197247		12.9	20
Bromomethane	A	50.0	59.4	0.4938754	0.5871176		18.9	
Chloroethane	A	50.0	53.3	0.2082682	0.2220618		6.6	
Trichlorofluoromethane	A	50.0	55.0	0.5822394	0.6408977		10.1	
Freon 113	A	50.0	51.1	0.5302295	0.5419194		2.2	
1,1-Dichloroethene	A	50.0	54.0	0.66765	0.7215807		8.1	20
Carbon disulfide	A	50.0	49.5	1.728157	1.711283		-1.0	
Methyl Acetate	A	50.0	46.7	0.2379709	0.2221575		-6.6	
Methylene Chloride	L	50.0	50.7	1.154874	0.7045046		-39.0	
trans-1,2-Dichloroethene	A	50.0	53.5	0.729265	0.7799994		7.0	
1,1-Dichloroethane	A	50.0	53.2	0.9230035	0.9820874	0.1	6.4	
Vinyl acetate	A	50.0	54.3	0.8582262	0.9317222		8.6	
2,2-Dichloropropane	A	50.0	52.5	0.7228876	0.7596674		5.1	
2-Butanone	A	50.0	46.1	0.2586982	0.2384015		-7.8	
cis-1,2-Dichloroethene	A	50.0	53.0	0.7166405	0.7595851		6.0	
Chloroform	A	50.0	52.6	0.8574199	0.9026981		5.3	20
Bromochloromethane	A	50.0	53.7	0.3076896	0.3303596		7.4	
Cyclohexane	A	50.0	51.0	1.023764	1.044532		2.0	

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CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1602245		
Project:	255 East 138th Street		
Instrument ID:	GC/MS A	Calibration:	16K2902
Lab File ID:	A10469.D	Calibration Date:	11/17/16 14:24
Sequence:	S6L0509	Injection Date:	12/05/16
Lab Sample ID:	S6L0509-CCV1	Injection Time:	11:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1-Trichloroethane	A	50.0	53.0	0.6739373	0.7148564		6.1	
t-Butyl alcohol	A	500	552	2.531871E-02	2.793748E-02		10.3	
1,1-Dichloropropene	A	50.0	51.7	0.1609198	0.1665286		3.5	
Carbon Tetrachloride	A	50.0	52.0	0.3095547	0.3222469		4.1	
1,2-Dichloroethane	A	50.0	51.2	0.2477842	0.2539354		2.5	
Benzene	A	50.0	50.6	1.262459	1.277001		1.2	
Trichloroethene	A	50.0	51.4	0.3212095	0.330301		2.8	
Methylcyclohexane	A	50.0	50.7	0.5829516	0.5915029		1.5	
1,2-Dichloropropane	A	50.0	53.3	0.3125476	0.333148		6.6	20
Bromodichloromethane	A	50.0	53.9	0.3315819	0.3575982		7.8	
Dibromomethane	A	50.0	52.6	0.1488103	0.1566911		5.3	
2-Chloroethyl vinyl ether	Q	50.0	82.1	0.0410119	5.023853E-02		22.5	
cis-1,3-Dichloropropene	A	50.0	55.1	0.44799	0.493325		10.1	
Toluene	A	50.0	51.4	1.275213	1.310002		2.7	20
trans-1,3-Dichloropropene	A	50.0	54.8	0.3402997	0.3731368		9.6	
1,1,2-Trichloroethane	A	50.0	52.8	0.2048281	0.2163731		5.6	
4-Methyl-2-pentanone	A	50.0	51.4	0.19455	0.1998766		2.7	
1,2-Dibromoethane	A	50.0	53.4	0.205043	0.2190155		6.8	
2-Hexanone	A	50.0	46.4	0.2526917	0.2344079		-7.2	
1,3-Dichloropropane	A	50.0	51.4	0.4703389	0.4837291		2.8	
Tetrachloroethene	A	50.0	49.1	0.4110747	0.4036076		-1.8	
Dibromochloromethane	A	50.0	55.3	0.276114	0.3051501		10.5	
Ethylbenzene	A	50.0	51.9	1.765083	1.831458		3.8	20

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CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1602245		
Project:	255 East 138th Street		
Instrument ID:	GC/MS A	Calibration:	16K2902
Lab File ID:	A10493.D	Calibration Date:	11/17/16 14:24
Sequence:	S6L0607	Injection Date:	12/06/16
Lab Sample ID:	S6L0607-CCV1	Injection Time:	09:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	251	4.390239E-02	4.399167E-02		0.2	
Acrylonitrile	A	250	256	0.1147315	0.1175188		2.4	
Acetone	L	50.0	42.3	0.2535901	0.1753682		-30.8	
Dichlorodifluoromethane	L	50.0	50.3	0.4112477	0.401141		-2.5	
Chloromethane	A	50.0	56.8	0.7616596	0.8649773	0.1	13.6	
Vinyl chloride	A	50.0	58.4	0.7260558	0.8478217		16.8	20
Bromomethane	A	50.0	58.8	0.4938754	0.58058		17.6	
Chloroethane	A	50.0	55.2	0.2082682	0.2297239		10.3	
Trichlorofluoromethane	A	50.0	57.5	0.5822394	0.670055		15.1	
Freon 113	A	50.0	51.5	0.5302295	0.5465841		3.1	
1,1-Dichloroethene	A	50.0	51.6	0.66765	0.6890694		3.2	20
Carbon disulfide	A	50.0	48.4	1.728157	1.671212		-3.3	
Methyl Acetate	A	50.0	47.1	0.2379709	0.2241109		-5.8	
Methylene Chloride	L	50.0	56.0	1.154874	0.767744		-33.5	
trans-1,2-Dichloroethene	A	50.0	53.3	0.729265	0.7778319		6.7	
1,1-Dichloroethane	A	50.0	52.2	0.9230035	0.9634893	0.1	4.4	
Vinyl acetate	A	50.0	52.3	0.8582262	0.8973781		4.6	
2,2-Dichloropropane	A	50.0	53.2	0.7228876	0.7689226		6.4	
2-Butanone	A	50.0	40.8	0.2586982	0.2112505		-18.3	
cis-1,2-Dichloroethene	A	50.0	53.0	0.7166405	0.759279		5.9	
Chloroform	A	50.0	52.4	0.8574199	0.8978143		4.7	20
Bromochloromethane	A	50.0	52.9	0.3076896	0.3254277		5.8	
Cyclohexane	A	50.0	49.5	1.023764	1.014193		-0.9	

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CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1602245		
Project:	255 East 138th Street		
Instrument ID:	GC/MS A	Calibration:	16K2902
Lab File ID:	A10493.D	Calibration Date:	11/17/16 14:24
Sequence:	S6L0607	Injection Date:	12/06/16
Lab Sample ID:	S6L0607-CCV1	Injection Time:	09:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1-Trichloroethane	A	50.0	52.9	0.6739373	0.7130361		5.8	
t-Butyl alcohol	A	500	519	2.531871E-02	2.629211E-02		3.8	
1,1-Dichloropropene	A	50.0	54.7	0.1609198	0.1761109		9.4	
Carbon Tetrachloride	A	50.0	53.9	0.3095547	0.3338125		7.8	
1,2-Dichloroethane	A	50.0	54.3	0.2477842	0.2693122		8.7	
Benzene	A	50.0	52.6	1.262459	1.328667		5.2	
Trichloroethene	A	50.0	53.1	0.3212095	0.3410547		6.2	
Methylcyclohexane	A	50.0	52.8	0.5829516	0.6155334		5.6	
1,2-Dichloropropane	A	50.0	54.6	0.3125476	0.3410288		9.1	20
Bromodichloromethane	A	50.0	55.3	0.3315819	0.3665118		10.5	
Dibromomethane	A	50.0	54.8	0.1488103	0.1631485		9.6	
2-Chloroethyl vinyl ether	Q	50.0	81.3	0.0410119	4.954396E-02		20.8	
cis-1,3-Dichloropropene	A	50.0	55.1	0.44799	0.4933472		10.1	
Toluene	A	50.0	52.9	1.275213	1.348623		5.8	20
trans-1,3-Dichloropropene	A	50.0	55.6	0.3402997	0.3782018		11.1	
1,1,2-Trichloroethane	A	50.0	54.6	0.2048281	0.2237057		9.2	
4-Methyl-2-pentanone	A	50.0	50.8	0.19455	0.1977347		1.6	
1,2-Dibromoethane	A	50.0	53.7	0.205043	0.2201059		7.3	
2-Hexanone	A	50.0	44.2	0.2526917	0.2231725		-11.7	
1,3-Dichloropropane	A	50.0	50.5	0.4703389	0.4750509		1.0	
Tetrachloroethene	A	50.0	51.2	0.4110747	0.4208146		2.4	
Dibromochloromethane	A	50.0	54.1	0.276114	0.2986271		8.2	
Ethylbenzene	A	50.0	51.5	1.765083	1.818813		3.0	20

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CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1602245		
Project:	255 East 138th Street		
Instrument ID:	GC/MS A	Calibration:	16K2902
Lab File ID:	A10519.D	Calibration Date:	11/17/16 14:24
Sequence:	S6L0708	Injection Date:	12/07/16
Lab Sample ID:	S6L0708-CCV1	Injection Time:	11:33

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	250	233	4.390239E-02	4.085522E-02		-6.9	
Acrylonitrile	A	250	242	0.1147315	0.1108445		-3.4	
Acetone	L	50.0	44.7	0.2535901	0.1848879		-27.1	
Dichlorodifluoromethane	L	50.0	54.9	0.4112477	0.4334761		5.4	
Chloromethane	A	50.0	54.3	0.7616596	0.8272178	0.1	8.6	
Vinyl chloride	A	50.0	55.3	0.7260558	0.802412		10.5	20
Bromomethane	A	50.0	54.8	0.4938754	0.541347		9.6	
Chloroethane	A	50.0	52.2	0.2082682	0.2173124		4.3	
Trichlorofluoromethane	A	50.0	58.7	0.5822394	0.6834764		17.4	
Freon 113	A	50.0	51.3	0.5302295	0.5439169		2.6	
1,1-Dichloroethene	A	50.0	51.9	0.66765	0.6933574		3.9	20
Carbon disulfide	A	50.0	44.8	1.728157	1.546569		-10.5	
Methyl Acetate	A	50.0	45.7	0.2379709	0.217411		-8.6	
Methylene Chloride	L	50.0	50.9	1.154874	0.706443		-38.8	
trans-1,2-Dichloroethene	A	50.0	52.5	0.729265	0.7652956		4.9	
1,1-Dichloroethane	A	50.0	51.5	0.9230035	0.9509934	0.1	3.0	
Vinyl acetate	A	50.0	49.3	0.8582262	0.8466683		-1.3	
2,2-Dichloropropane	A	50.0	52.5	0.7228876	0.7584945		4.9	
2-Butanone	A	50.0	40.4	0.2586982	0.2090278		-19.2	
cis-1,2-Dichloroethene	A	50.0	50.9	0.7166405	0.7296172		1.8	
Chloroform	A	50.0	51.8	0.8574199	0.8885014		3.6	20
Bromochloromethane	A	50.0	53.2	0.3076896	0.3272885		6.4	
Cyclohexane	A	50.0	45.9	1.023764	0.9405646		-8.1	

Accredited Analytical Resources, LLC.

SYSTEM MONITORING COMPOUND SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1602245

Matrix: Solid
Instrument: GC/MS B

Lab Sample ID:	2FP (30% - 130%)	FBP (30% - 130%)	NBZ (30% - 130%)	PHL (30% - 130%)	TBP (30% - 130%)	TPH (30% - 130%)
1602245-01	54	71	73	64	74	89
1602245-02	43	52	52	47	67	64
1602245-03	44	51	52	49	68	61
1602245-04	51	58	60	57	69	61
1602245-05	55	61	64	60	69	70
1602245-06	66	79	88	74	96	206*
1602245-06RE1	73	86	83	82	78	219*
1602245-07	52	58	60	56	67	64
1602245-08	51	58	59	55	69	64
B6L0503-BLK1	52	58	60	56	66	73
B6L0503-BS1	53	62	62	58	76	65
B6L0503-MS1	64	81	80	70	104	86
B6L0503-MSD1	59	79	76	66	102	90

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-37

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1602245

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6L0503	Prep Method:	EPA 3550B GCMS
Percent Solids:	80.00	Laboratory ID:	B6L0503-MS1
		Client Sample ID:	1602245-04

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Anthracene	2080	92.2	2340	108		70 - 130
Di-n-butyl phthalate	2080	ND	2240	108		70 - 130
Fluoranthene	2080	530	3420	139	*	70 - 130
Pyrene	2080	407	2810	115		70 - 130
Butylbenzylphthalate	2080	ND	2030	98		70 - 130
Benzo[a]anthracene	2080	209	2660	117		70 - 130
bis(2-ethylhexyl)phthalate	2080	ND	2100	101		70 - 130
Chrysene	2080	218	2640	116		70 - 130
Di-n-octyl phthalate	2080	ND	2660	128		70 - 130
Benzo[b]fluoranthene	2080	256	3590	160	*	70 - 130
Benzo[k]fluoranthene	2080	85.6	2390	111		70 - 130
Benzo[a]pyrene	2080	202	2760	123		70 - 130
Indeno(1,2,3-cd)pyrene	2080	72.1	1290	59	*	70 - 130
Dibenzo(a,h)anthracene	2080	ND	1330	64	*	70 - 130
Benzo[ghi]perylene	2080	70.6	1010	45	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-37

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1602245

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6L0503	Prep Method:	EPA 3550B GCMS
Percent Solids:	80.00	Laboratory ID:	B6L0503-MSD1
		Client Sample ID:	1602245-04

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Hexachlorocyclopentadiene	2080	1470	71		20	30	20 - 160
2,4,6-Trichlorophenol	2080	2060	99		0.5	30	70 - 130
2,4,5-Trichlorophenol	2080	2160	104		1	30	70 - 130
2-Chloronaphthalene	2080	2050	98		1	30	70 - 130
2-Nitroaniline	2080	1990	95		2	30	70 - 130
Dimethylphthalate	2080	2150	103		2	30	70 - 130
Acenaphthylene	2080	2060	99		0.8	30	70 - 130
3-Nitroaniline	2080	1430	68	*	3	30	70 - 130
Acenaphthene	2080	2090	100		2	30	70 - 130
2,4-Dinitrophenol	2080	1150	55		1	30	20 - 160
4-Nitrophenol	2080	2600	125		2	30	20 - 160
Dibenzofuran	2080	2230	107		3	30	70 - 130
2,6-Dinitrotoluene	2080	2050	99		0.8	30	70 - 130
2,4-Dinitrotoluene	2080	2290	110		1	30	70 - 130
2,3,4,6-Tetrachlorophenol	2080	2310	111		0.9	30	70 - 130
Diethyl phthalate	2080	2270	109		0.2	30	70 - 130
4-Chlorophenyl-phenylether	2080	2280	109		1	30	70 - 130
Fluorene	2080	2320	109		2	30	70 - 130
4-Nitroaniline	2080	2090	100		2	30	70 - 130
4,6-Dinitro-2-methylphenol	2080	1790	86		3	30	70 - 130
Carbazole	2080	2400	115		5	30	70 - 130
N-Nitrosodiphenylamine	2080	2100	101		2	30	20 - 160
Azobenzene	2080	2080	100		1	30	70 - 130
4-Bromophenyl-phenylether	2080	2270	109		3	30	70 - 130
Hexachlorobenzene	2080	2350	113		3	30	70 - 130
Pentachlorophenol	2080	2310	111		4	30	20 - 160
Phenanthrene	2080	3410	143	*	16	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EP-37

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1602245

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B6L0503	Prep Method:	EPA 3550B GCMS
Percent Solids:	80.00	Laboratory ID:	B6L0503-MSD1
		Client Sample ID:	1602245-04

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
Anthracene	2080	2500	115		6		30	70 - 130
Di-n-butyl phthalate	2080	2290	110		2		30	70 - 130
Fluoranthene	2080	3950	164	*	15		30	70 - 130
Pyrene	2080	3240	136	*	14		30	70 - 130
Butylbenzylphthalate	2080	2130	102		5		30	70 - 130
Benzo[a]anthracene	2080	2850	127		7		30	70 - 130
bis(2-ethylhexyl)phthalate	2080	2160	104		3		30	70 - 130
Chrysene	2080	2820	125		7		30	70 - 130
Di-n-octyl phthalate	2080	3170	152	*	17		30	70 - 130
Benzo[b]fluoranthene	2080	4130	186	*	14		30	70 - 130
Benzo[k]fluoranthene	2080	4300	202	*	57	*	30	70 - 130
Benzo[a]pyrene	2080	3000	134	*	8		30	70 - 130
Indeno(1,2,3-cd)pyrene	2080	1180	53	*	9		30	70 - 130
Dibenzo(a,h)anthracene	2080	1180	57	*	12		30	70 - 130
Benzo[ghi]perylene	2080	923	41	*	9		30	70 - 130

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LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1602245

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6L0503	Lab Sample ID:	B6L0503-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Pyridine	1670	911	55	20 - 160
N-Nitrosodimethylamine	1670	1070	64	20 - 160
Aniline	1670	1120	67	20 - 160
Phenol	1670	1180	71	20 - 160
bis(2-chloroethyl)ether	1670	1190	71	70 - 130
2-Chlorophenol	1670	1220	73	70 - 130
1,3-Dichlorobenzene	1670	1190	71	70 - 130
1,4-Dichlorobenzene	1670	1200	72	70 - 130
Benzyl alcohol	1670	1270	76	20 - 160
1,2-Dichlorobenzene	1670	1220	73	70 - 130
2-Methylphenol	1670	1210	73	20 - 160
bis(2-chloroisopropyl)ether	1670	1220	73	70 - 130
3 & 4-Methylphenol	1670	1270	76	20 - 160
N-Nitroso-di-n-propylamine	1670	1260	75	70 - 130
Hexachloroethane	1670	1200	72	20 - 160
Nitrobenzene	1670	1170	70	70 - 130
Isophorone	1670	1180	71	70 - 130
2-Nitrophenol	1670	1170	70	70 - 130
2,4-Dimethylphenol	1670	1230	74	70 - 130
bis(2-chloroethoxy)methane	1670	1160	70	70 - 130
2,4-Dichlorophenol	1670	1230	74	70 - 130
1,2,4-Trichlorobenzene	1670	1200	72	70 - 130
Naphthalene	1670	1200	72	70 - 130
4-Chloroaniline	1670	871	52 *	70 - 130
Hexachlorobutadiene	1670	1280	77	70 - 130
4-Chloro-3-methylphenol	1670	1300	78	70 - 130
2-Methylnaphthylene	1670	1290	77	70 - 130
Hexachlorocyclopentadiene	1670	1400	84	20 - 160

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1602245

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B6L0503	Lab Sample ID:	B6L0503-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
2,4,6-Trichlorophenol	1670	1260	76	70 - 130
2,4,5-Trichlorophenol	1670	1290	78	70 - 130
2-Chloronaphthalene	1670	1270	76	70 - 130
2-Nitroaniline	1670	1240	74	70 - 130
Dimethylphthalate	1670	1320	79	70 - 130
Acenaphthylene	1670	1250	75	70 - 130
3-Nitroaniline	1670	1110	66 *	70 - 130
Acenaphthene	1670	1210	72	70 - 130
2,4-Dinitrophenol	1670	1250	75	20 - 160
4-Nitrophenol	1670	1530	92	20 - 160
Dibenzofuran	1670	1290	77	70 - 130
2,6-Dinitrotoluene	1670	1270	76	70 - 130
2,4-Dinitrotoluene	1670	1360	81	70 - 130
2,3,4,6-Tetrachlorophenol	1670	1360	82	70 - 130
Diethyl phthalate	1670	1350	81	70 - 130
4-Chlorophenyl-phenylether	1670	1340	81	70 - 130
Fluorene	1670	1300	78	70 - 130
4-Nitroaniline	1670	1290	77	70 - 130
4,6-Dinitro-2-methylphenol	1670	1440	87	70 - 130
Carbazole	1670	1330	80	70 - 130
N-Nitrosodiphenylamine	1670	1270	76	20 - 160
Azobenzene	1670	1270	76	70 - 130
4-Bromophenyl-phenylether	1670	1370	82	70 - 130
Hexachlorobenzene	1670	1380	83	70 - 130
Pentachlorophenol	1670	1340	80	20 - 160
Phenanthrene	1670	1290	78	70 - 130
Anthracene	1670	1310	79	70 - 130
Di-n-butyl phthalate	1670	1360	81	70 - 130

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602245
Project: 255 East 138th Street

Sequence: S6L0506 | Instrument: GC/MS B
Calibration: 16J1301

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (B6L0503-MS1)			*Lab File ID: B4286.D*			*Analyzed: 12/05/16 18:07*			
1,4-Dichlorobenzene-d4	162874	10.03	146142	10.03	111	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	651275	13.22	594738	13.22	110	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	353823	17.72	325338	17.73	109	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	573292	21.52	499587	21.52	115	50 - 200	0.0000	+/-0.50	
Chrysene-d12	618694	28.35	562328	28.35	110	50 - 200	0.0000	+/-0.50	
Perylene-d12	456457	31.73	541630	31.74	84	50 - 200	-0.0100	+/-0.50	
Matrix Spike Dup (B6L0503-MSD1)			*Lab File ID: B4287.D*			*Analyzed: 12/05/16 18:52*			
1,4-Dichlorobenzene-d4	162815	10.03	146142	10.03	111	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	657052	13.22	594738	13.22	110	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	359309	17.72	325338	17.73	110	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	571799	21.52	499587	21.52	114	50 - 200	0.0000	+/-0.50	
Chrysene-d12	604088	28.36	562328	28.35	107	50 - 200	0.0100	+/-0.50	
Perylene-d12	379943	31.72	541630	31.74	70	50 - 200	-0.0200	+/-0.50	
EP-39 (1602245-06)			*Lab File ID: B4288.D*			*Analyzed: 12/05/16 19:36*			
1,4-Dichlorobenzene-d4	167614	10.02	146142	10.03	115	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	627291	13.23	594738	13.22	105	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	397714	17.71	325338	17.73	122	50 - 200	-0.0200	+/-0.50	
Phenanthrene-d10	440081	21.59	499587	21.52	88	50 - 200	0.0700	+/-0.50	
Chrysene-d12	233730	28.5	562328	28.35	42	50 - 200	0.1500	+/-0.50	*
Perylene-d12	57792	31.73	541630	31.74	11	50 - 200	-0.0100	+/-0.50	*

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602245
Project: 255 East 138th Street

Sequence: S6L0506 Instrument: GC/MS B
Calibration: 16J1301

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-34 (1602245-01)			*Lab File ID: B4289.D*			*Analyzed: 12/05/16 20:20*			
1,4-Dichlorobenzene-d4	157229	10.02	146142	10.03	108	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	647334	13.19	594738	13.22	109	50 - 200	-0.0300	+/-0.50	
Acenaphthene-d10	370296	17.69	325338	17.73	114	50 - 200	-0.0400	+/-0.50	
Phenanthrene-d10	596817	21.5	499587	21.52	119	50 - 200	-0.0200	+/-0.50	
Chrysene-d12	554407	28.31	562328	28.35	99	50 - 200	-0.0400	+/-0.50	
Perylene-d12	239924	31.68	541630	31.74	44	50 - 200	-0.0600	+/-0.50	*

* Values outside of QC limits

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602245
Project: 255 East 138th Street

Sequence: S6L0605 Instrument: GC/MS B
Calibration: 16J1301

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S6L0605-CCV1)			*Lab File ID: B4291.D*			*Analyzed: 12/06/16 10:50*			
1,4-Dichlorobenzene-d4	176941	10.01	207394	10.38	85	50 - 200	-0.3700	+/-0.50	
Naphthalene-d8	721519	13.2	819533	13.57	88	50 - 200	-0.3700	+/-0.50	
Acenaphthene-d10	396428	17.7	435362	18.09	91	50 - 200	-0.3900	+/-0.50	
Phenanthrene-d10	634563	21.5	665995	21.9	95	50 - 200	-0.4000	+/-0.50	
Chrysene-d12	663613	28.31	600558	28.73	110	50 - 200	-0.4200	+/-0.50	
Perylene-d12	653722	31.7	541096	32.12	121	50 - 200	-0.4200	+/-0.50	
EP-39 (1602245-06RE1)			*Lab File ID: B4305.D*			*Analyzed: 12/06/16 21:11*			
1,4-Dichlorobenzene-d4	190190	10.02	176941	10.01	107	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	796381	13.2	721519	13.2	110	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	467034	17.7	396428	17.7	118	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	751358	21.52	634563	21.5	118	50 - 200	0.0200	+/-0.50	
Chrysene-d12	221772	28.3	663613	28.31	33	50 - 200	-0.0100	+/-0.50	*
Perylene-d12	64535	31.66	653722	31.7	10	50 - 200	-0.0400	+/-0.50	*

* Values outside of QC limits

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602245
Project: 255 East 138th Street

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B6L0504	Preparation:	EPA 3050B
% Solids:	84.50	Laboratory ID:	B6L0504-MS1
		Client Sample ID:	1602239-02

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)		MS % REC.		QC LIMITS REC.
Aluminum	291 *	8550	12500	*	1340	*	75 - 125
Antimony	291	ND	289		99.1		75 - 125
Cadmium	291	0.644	285		97.4		75 - 125
Calcium	291 *	9510	11600	*	708	*	75 - 125
Chromium	291	16.3	305		99.1		75 - 125
Cobalt	291	8.05	286		95.5		75 - 125
Copper	291	23.4	305		96.5		75 - 125
Lead	291	37.4	314		94.9		75 - 125
Magnesium	291 *	4470	5670	*	414	*	75 - 125
Manganese	291	395	742		119		75 - 125
Nickel	291	16.3	292		94.8		75 - 125
Selenium	291	ND	283		97.2		75 - 125
Silver	29.1	ND	28.3		97.2		75 - 125
Sodium	291	434	910	*	163	*	75 - 125
Thallium	291	ND	254		87.2		75 - 125
Zinc	291	84.5	352		91.8		75 - 125

* Amt Added < 25% sample value

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602245
Project: 255 East 138th Street

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B6L0504	Preparation:	EPA 3050B
% Solids:	84.50	Laboratory ID:	B6L0504-MSD1
		Client Sample ID:	1602239-02

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Aluminum	290	12400	1340	*	0.206	20	75 - 125
Antimony	290	282	97.2		2.33	20	75 - 125
Cadmium	290	278	95.5		2.38	20	75 - 125
Calcium	290	12100	889	*	4.38	20	75 - 125
Chromium	290	299	97.5		1.95	20	75 - 125
Cobalt	290	279	93.4		2.57	20	75 - 125
Copper	290	296	94.0		2.72	20	75 - 125
Lead	290	305	92.3		2.76	20	75 - 125
Magnesium	290	5560	377	*	1.97	20	75 - 125
Manganese	290	748	122		0.778	20	75 - 125
Nickel	290	286	92.8		2.30	20	75 - 125
Selenium	290	276	95.1		2.64	20	75 - 125
Silver	29.0	27.7	95.4		2.24	20	75 - 125
Sodium	290	899	160	*	1.23	20	75 - 125
Thallium	290	248	85.4		2.48	20	75 - 125
Zinc	290	346	90.2		1.59	20	75 - 125

Accredited Analytical Resources, LLC.

SERIAL DILUTION

EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1602245
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Matrix:	Solid	Laboratory ID:	S6L0508-SRD1
Sequence:	S6L0508	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Manganese	395	379	4.07		10.00
Antimony	ND	ND	N/A		10.00
Cadmium	0.644	ND	N/A		10.00
Calcium	9510	8860	7.01		10.00
Chromium	16.3	15.2	6.99		10.00
Cobalt	8.05	ND	N/A		10.00
Copper	23.4	22.0	6.16		10.00
Aluminum	8550	7720	10.2	*	10.00
Magnesium	4470	4110	8.29		10.00
Nickel	16.3	ND	N/A		10.00
Selenium	ND	ND	N/A		10.00
Silver	ND	ND	N/A		10.00
Sodium	434	396	9.31		10.00
Thallium	ND	ND	N/A		10.00
Zinc	84.5	81.6	3.51		10.00
Lead	37.4	36.7	1.76		10.00

* Values outside of QC limits

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1601998

2 Water Samples
1 Trip Blank

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

December 2016

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REVIEWER'S NARRATIVE
SDG 1601998

The data associated with this Sample Delivery Group (SDG) 1601998, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. P. Date: 12/17/16

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx, NY
SAMPLING DATE:	October 18, 2016
SAMPLE TYPE:	2 water samples and 1 trip blank
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1601998

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for two water samples collected on October 18, 2016. These samples were analyzed for volatile organic compounds.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1601998. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Table 6-1. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1601998, two samples and a trip blank were analyzed and results were reported for 207 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	Acetone Methylene Chloride	J detects	ICV RPD > 20 %	Sample detects are estimated
All samples	Acetone Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are estimated for these analytes

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1601998

Client Sample ID:	Lab Sample ID:
SMW-1	1601998-01
TMW-2	1601998-02
Trip Blank	1601998-03

This data has been reviewed and accepted by:

Daniel Miguel 11/16/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

AAR Work Order: **1601998**

Accredited Analytical Resources, LLC received 3 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street, Bronx, NY) on 10/18/2016 15:45.

All analyses were performed within the required holding time.

B6J2014-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street, Bronx, NY
CONTACT:	Sean Harrison
OFFICE PHONE #:	732-223-2225
OFFICE FAX #:	732-223-3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	16J1998
P.O. #	10BR188

ANALYSIS

PRES. CODE → 1
CONT. CODE → 6

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TCL VOCs	AAR SAMPLE #
SMW-1	10/18/16 / 09:40	GW	-	2	G	X	-01
TMW-2	10/18/16 / 10:20	GW	-	2	G	X	-02
Trip Blank	10/18/16 / 1318	TB	-	2	TB	X	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME (CIRCLE ONE): (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____ (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL ____ EDD ✓ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverable. Hardcopy Report due by November 4, 2016. COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Sean Harrison SIGN:

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Sean Harrison	Print Name: K. Muniz	Print Name:	Print Name:
Signature:	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 10/18/16 Time: 1545		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SMW-1	1601998-01	Ground Water	10/18/2016 09:40	10/18/2016 15:45
TMW-2	1601998-02	Ground Water	10/18/2016 10:20	10/18/2016 15:45
Trip Blank	1601998-03	Aqueous	10/18/2016 13:18	10/18/2016 15:45

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: SMW-1
Lab Sample ID: 1601998-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1601998

Date Sampled:	10/18/16 09:40	Prep Date:	10/20/16 17:35	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21713.D
Prep Batch:	B6J2014	Sequence:	S6J2006	Analyzed:	10/20/16 17:35
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND UJ	1.00	1.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	U
74-87-3	Chloromethane	ND	1.00	1.00	U
75-01-4	Vinyl chloride	ND	1.00	1.00	U
74-83-9	Bromomethane	ND	1.00	1.00	U
75-00-3	Chloroethane	ND	1.00	1.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	U
75-15-0	Carbon disulfide	ND	0.400	1.00	U
75-09-2	Methylene Chloride	ND UJ	0.400	1.00	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	U
108-05-4	Vinyl acetate	ND	0.400	1.00	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	U
78-93-3	2-Butanone	ND	0.500	1.00	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	U
67-66-3	Chloroform	ND	0.500	1.00	U
74-97-5	Bromochloromethane	ND	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	U
71-43-2	Benzene	ND	0.500	1.00	U

 MMP 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: SMW-1
Lab Sample ID: 1601998-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1601998

Date Sampled:	10/18/16 09:40	Prep Date:	10/20/16 17:35	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21713.D
Prep Batch:	B6J2014	Sequence:	S6J2006	Analyzed:	10/20/16 17:35
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.500	1.00	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	U
75-27-4	Bromodichloromethane	ND	0.500	1.00	U
74-95-3	Dibromomethane	ND	0.500	1.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	U
108-88-3	Toluene	ND	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	U
591-78-6	2-Hexanone	ND	0.500	1.00	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	U
100-41-4	Ethylbenzene	0.500	0.500	1.00	J
108-90-7	Chlorobenzene	ND	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	U
108-38-3/106-42	m,p-Xylenes	1.03	1.00	2.00	J
95-47-6	o-Xylene	ND	1.00	2.00	U
100-42-5	Styrene	ND	1.00	2.00	U
75-25-2	Bromoform	ND	0.500	1.00	U
98-82-8	Isopropylbenzene	2.98	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: SMW-1
Lab Sample ID: 1601998-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1601998

Date Sampled:	10/18/16 09:40	Prep Date:	10/20/16 17:35	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21713.D
Prep Batch:	B6J2014	Sequence:	S6J2006	Analyzed:	10/20/16 17:35
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
103-65-1	n-Propyl Benzene	5.57	0.500	1.00	
108-86-1	Bromobenzene	ND	0.500	1.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	U
135-98-8	sec-Butylbenzene	0.680	0.500	1.00	J
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	U
104-51-8	n-Butyl Benzene	0.990	0.500	1.00	J
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	U
91-20-3	Naphthalene	ND	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	90%	70-130
Toluene-d8	97%	70-130
Bromofluorobenzene	109%	70-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-2
Lab Sample ID: 1601998-02
Project: 255 East 138th Street, Bronx, NY
Work Order: 1601998

Date Sampled:	10/18/16 10:20	Prep Date:	10/20/16 18:39	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21715.D
Prep Batch:	B6J2014	Sequence:	S6J2006	Analyzed:	10/20/16 18:39
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND UJ	1.00	1.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	U
74-87-3	Chloromethane	ND	1.00	1.00	U
75-01-4	Vinyl chloride	ND	1.00	1.00	U
74-83-9	Bromomethane	ND	1.00	1.00	U
75-00-3	Chloroethane	ND	1.00	1.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	U
75-15-0	Carbon disulfide	ND	0.400	1.00	U
75-09-2	Methylene Chloride	ND UJ	0.400	1.00	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	U
108-05-4	Vinyl acetate	ND	0.400	1.00	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	U
78-93-3	2-Butanone	0.650	0.500	1.00	J
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	U
67-66-3	Chloroform	ND	0.500	1.00	U
74-97-5	Bromochloromethane	ND	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	U
71-43-2	Benzene	0.690	0.500	1.00	J

 MMP 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-2
Lab Sample ID: 1601998-02
Project: 255 East 138th Street, Bronx, NY
Work Order: 1601998

Date Sampled:	10/18/16 10:20	Prep Date:	10/20/16 18:39	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21715.D
Prep Batch:	B6J2014	Sequence:	S6J2006	Analyzed:	10/20/16 18:39
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.500	1.00	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	U
75-27-4	Bromodichloromethane	ND	0.500	1.00	U
74-95-3	Dibromomethane	ND	0.500	1.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	U
108-88-3	Toluene	ND	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	U
591-78-6	2-Hexanone	ND	0.500	1.00	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	U
100-41-4	Ethylbenzene	ND	0.500	1.00	U
108-90-7	Chlorobenzene	ND	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	U
108-38-3/106-42	m,p-Xylenes	ND	1.00	2.00	U
95-47-6	o-Xylene	ND	1.00	2.00	U
100-42-5	Styrene	ND	1.00	2.00	U
75-25-2	Bromoform	ND	0.500	1.00	U
98-82-8	Isopropylbenzene	0.560	0.500	1.00	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-2
Lab Sample ID: 1601998-02
Project: 255 East 138th Street, Bronx, NY
Work Order: 1601998

Date Sampled:	10/18/16 10:20	Prep Date:	10/20/16 18:39	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21715.D
Prep Batch:	B6J2014	Sequence:	S6J2006	Analyzed:	10/20/16 18:39
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
103-65-1	n-Propyl Benzene	0.870	0.500	1.00	J
108-86-1	Bromobenzene	ND	0.500	1.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	U
135-98-8	sec-Butylbenzene	ND	0.500	1.00	U
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	U
91-20-3	Naphthalene	ND	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	90%	70-130
Toluene-d8	97%	70-130
Bromofluorobenzene	110%	70-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Trip Blank
Lab Sample ID: 1601998-03
Project: 255 East 138th Street, Bronx, NY
Work Order: 1601998

Date Sampled:	10/18/16 13:18	Prep Date:	10/20/16 14:43	Matrix:	Aqueous
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21708.D
Prep Batch:	B6J2014	Sequence:	S6J2006	Analyzed:	10/20/16 14:43
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND UJ	1.00	1.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	U
74-87-3	Chloromethane	ND	1.00	1.00	U
75-01-4	Vinyl chloride	ND	1.00	1.00	U
74-83-9	Bromomethane	ND	1.00	1.00	U
75-00-3	Chloroethane	ND	1.00	1.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	U
75-15-0	Carbon disulfide	ND	0.400	1.00	U
75-09-2	Methylene Chloride	ND UJ	0.400	1.00	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	U
108-05-4	Vinyl acetate	ND	0.400	1.00	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	U
78-93-3	2-Butanone	ND	0.500	1.00	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	U
67-66-3	Chloroform	ND	0.500	1.00	U
74-97-5	Bromochloromethane	ND	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	U
71-43-2	Benzene	ND	0.500	1.00	U

 KP 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Trip Blank
Lab Sample ID: 1601998-03
Project: 255 East 138th Street, Bronx, NY
Work Order: 1601998

Date Sampled:	10/18/16 13:18	Prep Date:	10/20/16 14:43	Matrix:	Aqueous
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21708.D
Prep Batch:	B6J2014	Sequence:	S6J2006	Analyzed:	10/20/16 14:43
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.500	1.00	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	U
75-27-4	Bromodichloromethane	ND	0.500	1.00	U
74-95-3	Dibromomethane	ND	0.500	1.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	U
108-88-3	Toluene	ND	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	U
591-78-6	2-Hexanone	ND	0.500	1.00	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	U
100-41-4	Ethylbenzene	ND	0.500	1.00	U
108-90-7	Chlorobenzene	ND	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	U
108-38-3/106-42	m,p-Xylenes	ND	1.00	2.00	U
95-47-6	o-Xylene	ND	1.00	2.00	U
100-42-5	Styrene	ND	1.00	2.00	U
75-25-2	Bromoform	ND	0.500	1.00	U
98-82-8	Isopropylbenzene	ND	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Trip Blank
Lab Sample ID: 1601998-03
Project: 255 East 138th Street, Bronx, NY
Work Order: 1601998

Date Sampled:	10/18/16 13:18	Prep Date:	10/20/16 14:43	Matrix:	Aqueous
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21708.D
Prep Batch:	B6J2014	Sequence:	S6J2006	Analyzed:	10/20/16 14:43
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	0.500	1.00	U
108-86-1	Bromobenzene	ND	0.500	1.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	U
135-98-8	sec-Butylbenzene	ND	0.500	1.00	U
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	U
91-20-3	Naphthalene	ND	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	93%	70-130
Toluene-d8	97%	70-130
Bromofluorobenzene	108%	70-130

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1601998		
Project:	255 East 138th Street, Bronx, NY		
Instrument ID:	GC/MS M	Calibration:	16H2902
Lab File ID:	M21701.D	Calibration Date:	08/29/16 18:50
Sequence:	S6J2006	Injection Date:	10/20/16
Lab Sample ID:	S6J2006-CCV1	Injection Time:	10:08

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	125	115	8.468518E-02	7.821755E-02		-7.6	
Acrylonitrile	A	125	132	0.194691	0.2062614		5.9	
Acetone	L	25.0	27.8	0.4741953	0.3045906		-35.8	
Dichlorodifluoromethane	A	25.0	23.0	0.5720878	0.5262168		-8.0	
Chloromethane	A	25.0	26.1	1.14564	1.194678	0.1	4.3	
Vinyl chloride	A	25.0	25.2	1.166721	1.176257		0.8	20
Bromomethane	A	25.0	20.6	0.7081722	0.5840369		-17.5	
Chloroethane	A	25.0	23.4	0.7900963	0.740859		-6.2	
Trichlorofluoromethane	A	25.0	25.9	1.095424	1.133879		3.5	
Freon 113	A	25.0	30.4	0.7604944	0.9236162		21.4	
1,1-Dichloroethene	A	25.0	21.8	1.506193	1.315327		-12.7	20
Carbon disulfide	A	25.0	25.9	3.220181	3.33427		3.5	
Methyl Acetate	A	25.0	25.4	0.9683464	0.9849931		1.7	
Methylene Chloride	L	25.0	21.2	2.460133	1.396718		-43.2	
trans-1,2-Dichloroethene	A	25.0	21.9	1.296263	1.134902		-12.4	
1,1-Dichloroethane	A	25.0	22.0	1.631812	1.435458	0.1	-12.0	
Vinyl acetate	A	25.0	26.5	2.075714	2.20354		6.2	
2,2-Dichloropropane	A	25.0	22.5	1.292487	1.164365		-9.9	
2-Butanone	A	25.0	24.3	0.3492593	0.3396562		-2.7	
cis-1,2-Dichloroethene	A	25.0	22.0	1.164151	1.024547		-12.0	
Chloroform	A	25.0	22.3	1.385779	1.234927		-10.9	20
Bromochloromethane	A	25.0	21.8	0.3151365	0.2743303		-12.9	
Cyclohexane	A	25.0	29.8	1.597664	1.905402		19.3	

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1601998
Project: 255 East 138th Street, Bronx, NY

Calibration:	16H2902	Instrument:	GC/MS M
		Calibration Date:	8/29/2016 6:50:44PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	8.468518E-02	4.877169		
Acrylonitrile	0.194691	3.397019		
Acetone	0.4741953	84.61052		
Dichlorodifluoromethane	0.5720878	15.0854		
Chloromethane	1.14564	8.465748	SPCC (0.1)	
Vinyl chloride	1.166721	5.66908	CCC (20)	
Bromomethane	0.7081722	14.65262		
Chloroethane	0.7900963	10.27114		
Trichlorofluoromethane	1.095424	4.547682		
Freon 113	0.7604944	4.650757		
1,1-Dichloroethene	1.506193	6.186481	CCC (20)	
Carbon disulfide	3.220181	6.18682		
Methyl Acetate	0.9683464	4.415078		
Methylene Chloride	2.460133	72.97314		
trans-1,2-Dichloroethene	1.296263	3.304176		
1,1-Dichloroethane	1.631812	4.943017	SPCC (0.1)	
Vinyl acetate	2.075714	4.247701		
2,2-Dichloropropane	1.292487	4.100514		
2-Butanone	0.3492593	12.50062		
cis-1,2-Dichloroethene	1.164151	3.045368		
Chloroform	1.385779	5.462834	CCC (20)	
Bromochloromethane	0.3151365	4.600406		
Cyclohexane	1.597664	4.865309		
1,1,1-Trichloroethane	1.097887	4.640728		
t-Butyl alcohol	3.796705E-02	3.399202		

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

Former G & C Services
255 East 138th Street
Bronx, NY
NYSDEC BCP # C203057

SDG: 1602078

1 Water Sample
1 Trip Blank

Prepared for:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, NJ 08736

December 2016

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5.0	DATA VALIDATION QUALIFIERS	3
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APPENDIX A Validated Analytical Results
APPENDIX B Laboratory QC Documentation
APPENDIX C Validator Qualifications

Tables

Table 4-1 Data Validation Guidance Documents
Table 4-2 Quality Control Criteria for Validating Laboratory Analytical Data

Summaries of Validated Results
Table 6-1 VOCs

REVIEWER'S NARRATIVE
SDG 1602078

The data associated with this Sample Delivery Group (SDG) 1602078, analyzed by Accredited Analytical Resources, LLC. Carteret, NJ have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. P. Date: 12/12/16

Michael K. Perry
Chemist

1.0 SUMMARY

SITE:	255 East 138th Street. Bronx, NY
SAMPLING DATE:	November 2, 2016
SAMPLE TYPE:	1 water sample and 1 trip blank
LABORATORY:	Accredited Analytical Resources, LLC. Carteret, NJ
SDG No.:	1602078

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for one water sample collected on November 2, 2016. This sample was analyzed for volatile organic compounds.

All laboratory analyses were performed by Accredited Analytical Resources, LLC., Carteret, NJ and analyzed as SDG 1602078. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2. USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING
LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition	Sample Condition
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Canister Certification
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Lab Control Sample
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Instrument Tuning
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Analyte ID	Spike Recoveries	Lab Duplicates	Initial Calibration & System Performance
Internal Standards	Internal Standards	Lab Qualifiers	Lab Duplicate		Daily Calibration
Initial Calibration	Initial Calibration	Field Duplicate	Lab Control Sample		Field Duplicate
Continuing Calibration	Continuing Calibration		ICP Serial Dilutions		
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Table 6-1. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 1602078, one sample and a trip blank were analyzed and results were reported for 138 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	Acetone Methylene Chloride	J detects	ICV RPD > 20 %	Samples are non-detect
All samples	Acetone Methylene Chloride	UJ non-detects J detects	CCV % D > 20 %	Samples are non-detect
All samples	Chloroethylvinylether	UJ non-detects	MS/MSD % rec < 10 %	Samples are non-detect

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1602078

Client Sample ID:	Lab Sample ID:
SMW-1	1602078-01
Trip Blank	1602078-02

This data has been reviewed and accepted by:

Daniel Miguel 11/21/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

AAR Work Order:**1602078**

Accredited Analytical Resources, LLC received 2 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street, Bronx, NY) on 11/02/2016 10:25.

All analyses were performed within the required holding time.

B6K0218-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street, Bronx, NY
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223 3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP:

AAR QUOTE #	
AAR WORK ORDER #	1602078
P.O. #	10BR188

ANALYSIS

PRES. CODE → 1
CONT. CODE → G

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TCL VOCs	AAR SAMPLE #
SMW-1	11/2/16 / 0843	GW	-	2	G	X	-01
Trip Blank	11/2/16 / 0800	TB	-	2	TB	X	-02

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. (24 HRS.) OTHER _____ (IF BLANK STANDARD WILL APPLY) → Evening of 11/3/16 preferable

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL ____ EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC category B Data Deliverable Hardcopy Report due by November 16, 2016. COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: R. Muniz	Print Name:	Print Name:
Signature: Monica Norton	Signature: R. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 11 / 2 / 16	Time: 1025	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SMW-1	1602078-01	Ground Water	11/02/2016 08:43	11/02/2016 10:25
Trip Blank	1602078-02	Aqueous	11/02/2016 08:00	11/02/2016 10:25

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: SMW-1
Lab Sample ID: 1602078-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Date Sampled:	11/02/16 08:43	Prep Date:	11/02/16 17:27	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21813.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 17:27
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND UJ	1.00	1.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	U
74-87-3	Chloromethane	ND	1.00	1.00	U
75-01-4	Vinyl chloride	ND	1.00	1.00	U
74-83-9	Bromomethane	ND	1.00	1.00	U
75-00-3	Chloroethane	ND	1.00	1.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	U
75-15-0	Carbon disulfide	ND	0.400	1.00	U
75-09-2	Methylene Chloride	ND UJ	0.400	1.00	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	U
108-05-4	Vinyl acetate	ND	0.400	1.00	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	U
78-93-3	2-Butanone	ND	0.500	1.00	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	U
67-66-3	Chloroform	ND	0.500	1.00	U
74-97-5	Bromochloromethane	ND	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	U
71-43-2	Benzene	ND	0.500	1.00	U

 MKV 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: SMW-1
Lab Sample ID: 1602078-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Date Sampled:	11/02/16 08:43	Prep Date:	11/02/16 17:27	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21813.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 17:27
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.500	1.00	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	U
75-27-4	Bromodichloromethane	ND	0.500	1.00	U
74-95-3	Dibromomethane	ND	0.500	1.00	U
110-75-8	2-Chloroethyl vinyl ether	ND UJ	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	U
108-88-3	Toluene	ND	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	U
591-78-6	2-Hexanone	ND	0.500	1.00	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	U
100-41-4	Ethylbenzene	ND	0.500	1.00	U
108-90-7	Chlorobenzene	ND	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	U
108-38-3/106-42	m,p-Xylenes	ND	1.00	2.00	U
95-47-6	o-Xylene	ND	1.00	2.00	U
100-42-5	Styrene	ND	1.00	2.00	U
75-25-2	Bromoform	ND	0.500	1.00	U
98-82-8	Isopropylbenzene	1.66	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	U

 MKP 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: SMW-1
Lab Sample ID: 1602078-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Date Sampled:	11/02/16 08:43	Prep Date:	11/02/16 17:27	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21813.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 17:27
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
103-65-1	n-Propyl Benzene	1.76	0.500	1.00	
108-86-1	Bromobenzene	ND	0.500	1.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	U
135-98-8	sec-Butylbenzene	0.600	0.500	1.00	J
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	U
91-20-3	Naphthalene	ND	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	101%	70-130
Toluene-d8	98%	70-130
Bromofluorobenzene	104%	70-130

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Trip Blank
Lab Sample ID: 1602078-02
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Date Sampled:	11/02/16 08:00	Prep Date:	11/02/16 16:54	Matrix:	Aqueous
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21812.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 16:54
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND UJ	1.00	1.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	U
74-87-3	Chloromethane	ND	1.00	1.00	U
75-01-4	Vinyl chloride	ND	1.00	1.00	U
74-83-9	Bromomethane	ND	1.00	1.00	U
75-00-3	Chloroethane	ND	1.00	1.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	U
75-15-0	Carbon disulfide	ND	0.400	1.00	U
75-09-2	Methylene Chloride	ND UJ	0.400	1.00	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	U
108-05-4	Vinyl acetate	ND	0.400	1.00	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	U
78-93-3	2-Butanone	ND	0.500	1.00	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	U
67-66-3	Chloroform	ND	0.500	1.00	U
74-97-5	Bromochloromethane	ND	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	U
71-43-2	Benzene	ND	0.500	1.00	U

 MKP 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Trip Blank
Lab Sample ID: 1602078-02
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Date Sampled:	11/02/16 08:00	Prep Date:	11/02/16 16:54	Matrix:	Aqueous
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21812.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 16:54
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
79-01-6	Trichloroethene	ND	0.500	1.00	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	U
75-27-4	Bromodichloromethane	ND	0.500	1.00	U
74-95-3	Dibromomethane	ND	0.500	1.00	U
110-75-8	2-Chloroethyl vinyl ether	ND UJ	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	U
108-88-3	Toluene	ND	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	U
591-78-6	2-Hexanone	ND	0.500	1.00	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	U
100-41-4	Ethylbenzene	ND	0.500	1.00	U
108-90-7	Chlorobenzene	ND	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	U
108-38-3/106-42	m,p-Xylenes	ND	1.00	2.00	U
95-47-6	o-Xylene	ND	1.00	2.00	U
100-42-5	Styrene	ND	1.00	2.00	U
75-25-2	Bromoform	ND	0.500	1.00	U
98-82-8	Isopropylbenzene	ND	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	U

 MWP 12/17/16

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET
EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Trip Blank
Lab Sample ID: 1602078-02
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Date Sampled:	11/02/16 08:00	Prep Date:	11/02/16 16:54	Matrix:	Aqueous
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21812.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 16:54
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	0.500	1.00	U
108-86-1	Bromobenzene	ND	0.500	1.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	U
135-98-8	sec-Butylbenzene	ND	0.500	1.00	U
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	U
91-20-3	Naphthalene	ND	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	104%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	103%	70-130

Appendix B

Laboratory QC Documentation

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SMW-1

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B6K0218	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B6K0218-MS1
		Client Sample ID:	1602078-01

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.		QC LIMITS REC.
Benzene	25.0	ND	22.6	90		70 - 130
Trichloroethene	25.0	ND	23.0	92		70 - 130
Methylcyclohexane	25.0	ND	30.3	121		70 - 130
1,2-Dichloropropane	25.0	ND	23.0	92		70 - 130
Bromodichloromethane	25.0	ND	23.2	93		70 - 130
Dibromomethane	25.0	ND	22.6	90		70 - 130
2-Chloroethyl vinyl ether	25.0	ND	0.700	3	*	70 - 130
cis-1,3-Dichloropropene	25.0	ND	23.1	92		70 - 130
Toluene	25.0	ND	23.7	95		70 - 130
trans-1,3-Dichloropropene	25.0	ND	23.4	93		70 - 130
1,1,2-Trichloroethane	25.0	ND	23.4	94		70 - 130
4-Methyl-2-pentanone	25.0	ND	27.4	110		40 - 160
1,2-Dibromoethane	25.0	ND	23.9	96		70 - 130
2-Hexanone	25.0	ND	26.8	107		40 - 160
1,3-Dichloropropane	25.0	ND	22.8	91		70 - 130
Tetrachloroethene	25.0	ND	21.0	84		70 - 130
Dibromochloromethane	25.0	ND	23.0	92		70 - 130
Ethylbenzene	25.0	ND	23.4	94		70 - 130
Chlorobenzene	25.0	ND	22.8	91		70 - 130
1,1,1,2-Tetrachloroethane	25.0	ND	22.6	91		70 - 130
m,p-Xylenes	50.0	ND	46.9	94		70 - 130
o-Xylene	50.0	ND	49.6	99		70 - 130
Styrene	50.0	ND	49.0	98		70 - 130
Bromoform	25.0	ND	22.8	91		70 - 130
Isopropylbenzene	25.0	1.66	24.0	90		70 - 130
1,1,2,2-Tetrachloroethane	25.0	ND	23.2	93		70 - 130
1,2,3-Trichloropropane	25.0	ND	23.1	92		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SMW-1

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B6K0218	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B6K0218-MSD1
		Client Sample ID:	1602078-01

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Acrolein	125	163	131	18	20	40 - 160
Acrylonitrile	125	159	127	11	20	70 - 130
Acetone	25.0	24.3	97	10	20	40 - 160
Dichlorodifluoromethane	25.0	20.0	80	5	20	40 - 160
Chloromethane	25.0	24.5	98	8	20	40 - 160
Vinyl chloride	25.0	29.2	117	3	20	70 - 130
Bromomethane	25.0	30.6	122	5	20	40 - 160
Chloroethane	25.0	22.3	89	15	20	40 - 160
Trichlorofluoromethane	25.0	33.2	133	0.9	20	40 - 160
Freon 113	25.0	31.0	124	5	20	70 - 130
1,1-Dichloroethene	25.0	22.5	90	6	20	70 - 130
Carbon disulfide	25.0	24.6	98	10	20	40 - 160
Methyl Acetate	25.0	31.2	125	10	20	70 - 130
Methylene Chloride	25.0	24.5	98	11	20	70 - 130
trans-1,2-Dichloroethene	25.0	23.8	95	8	20	70 - 130
1,1-Dichloroethane	25.0	24.4	98	9	20	70 - 130
2,2-Dichloropropane	25.0	24.7	99	10	20	70 - 130
2-Butanone	25.0	27.6	111	12	20	40 - 160
cis-1,2-Dichloroethene	25.0	25.5	102	8	20	70 - 130
Chloroform	25.0	24.6	98	10	20	70 - 130
Bromochloromethane	25.0	24.3	97	9	20	70 - 130
Cyclohexane	25.0	34.0	136 *	7	20	70 - 130
1,1,1-Trichloroethane	25.0	24.7	99	8	20	70 - 130
t-Butyl alcohol	250	537	144	12	20	40 - 160
1,1-Dichloropropene	25.0	22.0	88	7	20	70 - 130
Carbon Tetrachloride	25.0	22.7	91	8	20	70 - 130
1,2-Dichloroethane	25.0	25.2	101	8	20	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SMW-1

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B6K0218	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B6K0218-MSD1
		Client Sample ID:	1602078-01

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	25.0	24.7	99	9	20	70 - 130
Trichloroethene	25.0	24.5	98	6	20	70 - 130
Methylcyclohexane	25.0	33.0	132 *	8	20	70 - 130
1,2-Dichloropropane	25.0	25.2	101	9	20	70 - 130
Bromodichloromethane	25.0	25.0	100	8	20	70 - 130
Dibromomethane	25.0	25.4	102	12	20	70 - 130
2-Chloroethyl vinyl ether	25.0	0.680	3 *	3	20	70 - 130
cis-1,3-Dichloropropene	25.0	24.6	98	6	20	70 - 130
Toluene	25.0	25.4	102	7	20	70 - 130
trans-1,3-Dichloropropene	25.0	26.4	106	12	20	70 - 130
1,1,2-Trichloroethane	25.0	26.4	106	12	20	70 - 130
4-Methyl-2-pentanone	25.0	30.4	122	10	20	40 - 160
1,2-Dibromoethane	25.0	26.9	108	12	20	70 - 130
2-Hexanone	25.0	30.6	122	13	20	40 - 160
1,3-Dichloropropane	25.0	25.8	103	12	20	70 - 130
Tetrachloroethene	25.0	22.8	91	8	20	70 - 130
Dibromochloromethane	25.0	25.4	102	10	20	70 - 130
Ethylbenzene	25.0	26.0	104	10	20	70 - 130
Chlorobenzene	25.0	25.2	101	10	20	70 - 130
1,1,1,2-Tetrachloroethane	25.0	24.9	100	9	20	70 - 130
m,p-Xylenes	50.0	51.6	103	10	20	70 - 130
o-Xylene	50.0	54.6	109	9	20	70 - 130
Styrene	50.0	54.3	109	10	20	70 - 130
Bromoform	25.0	25.5	102	11	20	70 - 130
Isopropylbenzene	25.0	25.8	96	7	20	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.0	104	11	20	70 - 130
1,2,3-Trichloropropane	25.0	25.7	103	11	20	70 - 130

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1602078
Project: 255 East 138th Street, Bronx, NY

Calibration:	16H2902	Instrument:	GC/MS M
		Calibration Date:	8/29/2016 6:50:44PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	8.468518E-02	4.877169		
Acrylonitrile	0.194691	3.397019		
Acetone	0.4741953	84.61052		
Dichlorodifluoromethane	0.5720878	15.0854		
Chloromethane	1.14564	8.465748	SPCC (0.1)	
Vinyl chloride	1.166721	5.66908	CCC (20)	
Bromomethane	0.7081722	14.65262		
Chloroethane	0.7900963	10.27114		
Trichlorofluoromethane	1.095424	4.547682		
Freon 113	0.7604944	4.650757		
1,1-Dichloroethene	1.506193	6.186481	CCC (20)	
Carbon disulfide	3.220181	6.18682		
Methyl Acetate	0.9683464	4.415078		
Methylene Chloride	2.460133	72.97314		
trans-1,2-Dichloroethene	1.296263	3.304176		
1,1-Dichloroethane	1.631812	4.943017	SPCC (0.1)	
Vinyl acetate	2.075714	4.247701		
2,2-Dichloropropane	1.292487	4.100514		
2-Butanone	0.3492593	12.50062		
cis-1,2-Dichloroethene	1.164151	3.045368		
Chloroform	1.385779	5.462834	CCC (20)	
Bromochloromethane	0.3151365	4.600406		
Cyclohexane	1.597664	4.865309		
1,1,1-Trichloroethane	1.097887	4.640728		
t-Butyl alcohol	3.796705E-02	3.399202		

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	BRINKERHOFF ENVIRONMENTAL		
Work Order:	1602078		
Project:	255 East 138th Street, Bronx, NY		
Instrument ID:	GC/MS M	Calibration:	16H2902
Lab File ID:	M21809.D	Calibration Date:	08/29/16 18:50
Sequence:	S6K0209	Injection Date:	11/02/16
Lab Sample ID:	S6K0209-CCV1	Injection Time:	15:03

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	125	132	8.468518E-02	8.932844E-02		5.5	
Acrylonitrile	A	125	134	0.194691	0.2087755		7.2	
Acetone	L	25.0	28.6	0.4741953	0.3117582		-34.3	
Dichlorodifluoromethane	A	25.0	22.3	0.5720878	0.5111462		-10.7	
Chloromethane	A	25.0	23.7	1.14564	1.087396	0.1	-5.1	
Vinyl chloride	A	25.0	28.8	1.166721	1.343284		15.1	20
Bromomethane	A	25.0	28.5	0.7081722	0.8073218		14.0	
Chloroethane	A	25.0	20.2	0.7900963	0.6380119		-19.2	
Trichlorofluoromethane	A	25.0	30.8	1.095424	1.351528		23.4	
Freon 113	A	25.0	29.6	0.7604944	0.8989575		18.2	
1,1-Dichloroethene	A	25.0	22.3	1.506193	1.345367		-10.7	20
Carbon disulfide	A	25.0	24.6	3.220181	3.171115		-1.5	
Methyl Acetate	A	25.0	26.1	0.9683464	1.010885		4.4	
Methylene Chloride	L	25.0	23.6	2.460133	1.52767		-37.9	
trans-1,2-Dichloroethene	A	25.0	22.1	1.296263	1.14489		-11.7	
1,1-Dichloroethane	A	25.0	22.3	1.631812	1.456635	0.1	-10.7	
Vinyl acetate	A	25.0	26.3	2.075714	2.181324		5.1	
2,2-Dichloropropane	A	25.0	22.7	1.292487	1.175233		-9.1	
2-Butanone	A	25.0	26.5	0.3492593	0.3703005		6.0	
cis-1,2-Dichloroethene	A	25.0	23.0	1.164151	1.071473		-8.0	
Chloroform	A	25.0	22.5	1.385779	1.24484		-10.2	20
Bromochloromethane	A	25.0	21.8	0.3151365	0.2754709		-12.6	
Cyclohexane	A	25.0	28.6	1.597664	1.825778		14.3	

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

ATTACHMENT XX

Eastern Concrete Materials, INC.
Hamburg Quarry
3620 Route 23 Hamburg, NJ 07419
Phone (888) 913-7625 Fax (973) 827-0652

Technical Service Report Material Analysis

Client: _____ Date: 5-Dec

Project: _____ Plant: Hamburg Quarry

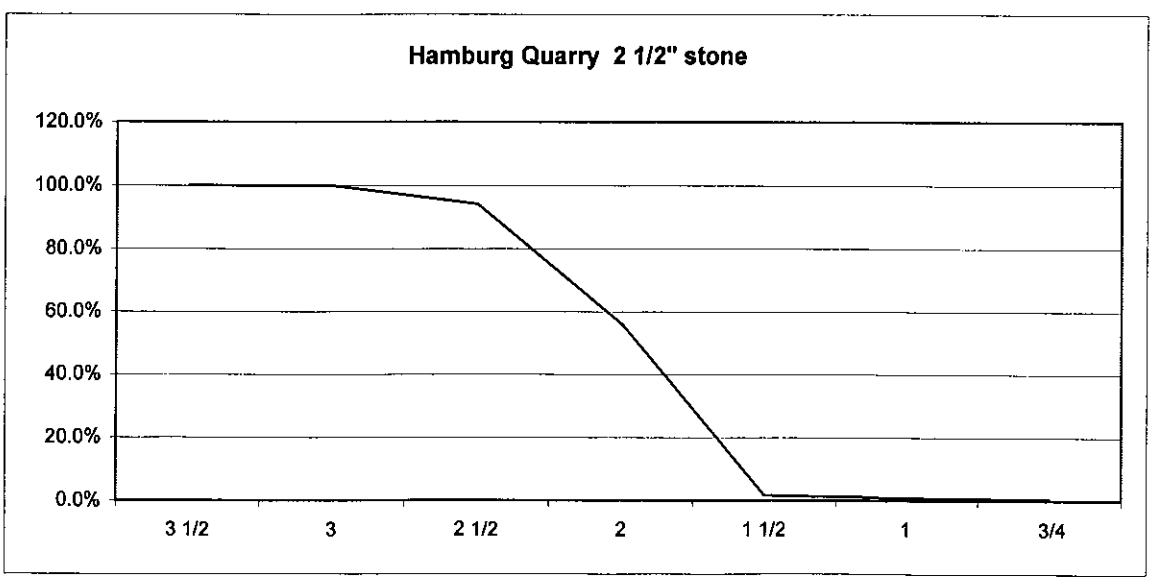
Material: #2 Tested By: Leslie

Sieve Size	Wgt. Ret Accum	%Retained Accum	%Passing	Specification %Passing
3 1/2	0	0.0%	100.0%	100
3	0	0.0%	100.0%	100
2 1/2	3.3	5.8%	94.2%	90->100
2	25.1	43.8%	56.2%	35->70
1 1/2	56.3	98.3%	1.7%	0->15
1	56.8	99.1%	0.9%	
3/4	57	99.5%	0.5%	0->5
		0.0%	100.0%	
		0.0%	100.0%	
		0.0%	100.0%	
		0.0%	100.0%	
		0.0%	100.0%	
		0.0%	100.0%	
Pan	57.3	100.0%	0.0%	

F.M. _____

Wash #200 Before 57.3 After _____ Diff _____

Remarks _____



Tilcon NY, Kearny

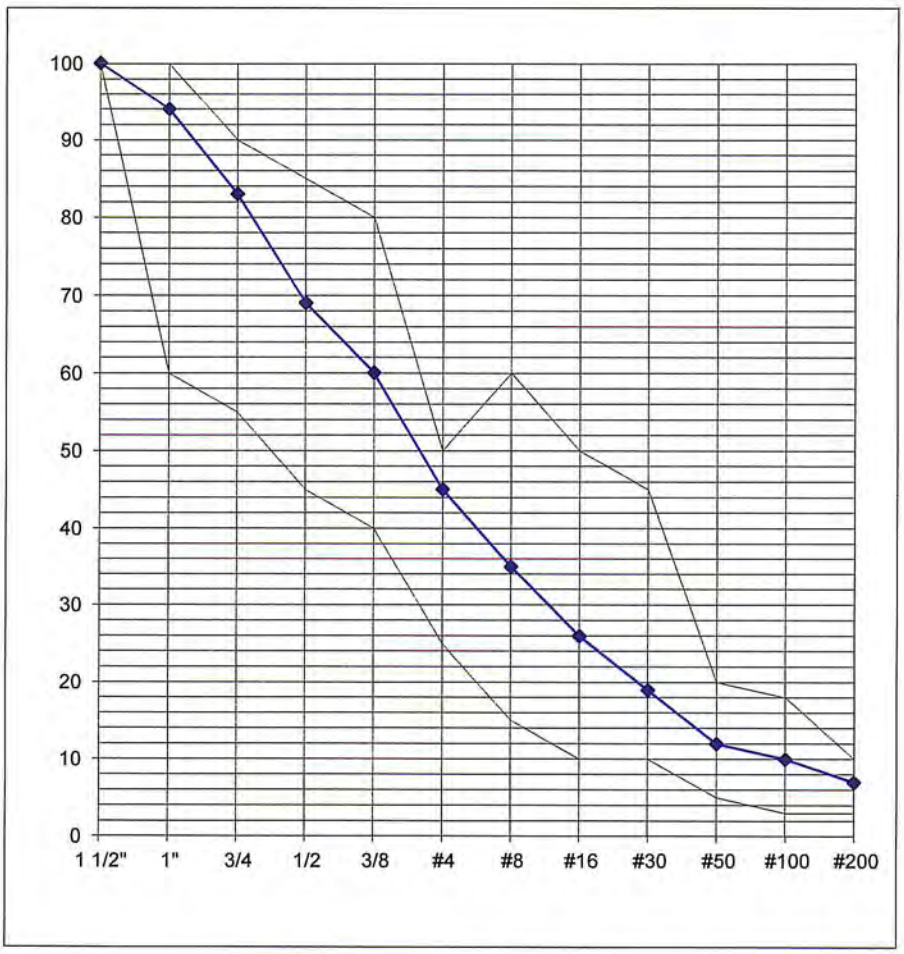
Typical Gradation RCA

Project

Contractor

Sp. Gr	
Loose	
Rodded	

	Typical	Prod. Target	
	% Pass	Low	High
1 1/2"	100	100	100
1"	94	60	100
3/4	83	55	90
1/2	69	45	85
3/8	60	40	80
#4	45	25	50
#8	35	15	60
#16	26	10	50
#30	19	10	45
#50	12	5	20
#100	10	3	18
#200	7	3	10



Tilcon NY confirms that the RCA available at Kearney conforms to the quality requirements of section 901 of ***The New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction.*** The material is concrete aggregate recycled at Tilcon New York's Kearny facility, 411 Bergen Street Kearny, Essex county NJ. The material is identified on the job with Kearny delivery tickets.

The unit weights and voids and typical gradation are for process control and should be verified by the contractor before use.

Monica Norton

From: Mecomber, Dana P (DEC) <Dana.Mecomber@dec.ny.gov>
Sent: Tuesday, October 13, 2015 10:32 AM
To: Sean Harrison
Cc: 'Doug Harm'; mnorton@brinkenv.com; Pierce, Ira
Subject: RE: 255 East 138th Street, Bronx, NY - Base Material

Well the stone doesn't come directly from the recycling facility – I'm just asking the original source to confirm that it is in fact stone and not RCA. However even if it is RCA, this material is acceptable since it is from a DEC registered facility and meets the sieve test requirements. (As a reminder, if any recycled concrete or brick is to be imported from these facilities it must also meet the NYSDOT Section 304 specs.)

The virgin stone from Hamburg quarry is also approved.

One more reminder for **any** material imported to the site: it should be free of asphalt. This isn't specified in DER-10, but per the solid waste regulations, it would constitute importing solid waste to the site. Sometimes it is present in blends from recycling facilities so just a heads-up. Monica or whomever is on site should be inspecting the material as it is imported to look out for this (and also make sure there are not fines incorporated), and of course the Remedial Engineer is ultimately responsible.

Dana Mecomber, P.E., MPA
Environmental Engineer I, Division of Environmental Remediation

New York State Department of Environmental Conservation
47-40 21st Street, Long Island City, NY 11101-5401
P: (718) 482-7541 | F: (718) 482-6358 | dana.mecomber@dec.ny.gov

www.dec.ny.gov | | |

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From: Sean Harrison [mailto:sharrison@brinkenv.com]
Sent: Tuesday, October 13, 2015 10:09 AM
To: Mecomber, Dana P (DEC)
Cc: 'Doug Harm'; mnorton@brinkenv.com
Subject: RE: 255 East 138th Street, Bronx, NY - Base Material

Hi Dana,

It is coming from New York Recycling, LLC, located at 475 Exterior Street, Bronx, New York, which is a DEC-registered construction and demolition debris processing facility.

Also, they have proposed to use 2-1/2" virgin stone from a permitted quarry located at Hamburg Quarry, 3620 Route 23, Hamburg, NJ. Attached is the sieve analysis for reference. Are both of these acceptable to import?

Thanks,

Sean

Sean Harrison
sharrison@brinkenv.com
BRINKERHOFF
ENVIRONMENTAL SERVICES, INC.
1805 Atlantic Avenue
Manasquan, NJ 08736
Phone: 732-223-2225, xt 26
Fax: 732-223-3666
Web: www.BrinkEnv.com

From: Mecomber, Dana P (DEC) [mailto:Dana.Mecomber@dec.ny.gov]
Sent: Tuesday, October 13, 2015 9:55 AM
To: Sean Harrison
Cc: 'Doug Harm'; 'Monica Norton'
Subject: RE: 255 East 138th Street, Bronx, NY - Base Material

Can you just confirm where the material is from – is it virgin stone from a permitted mine/quarry?

Dana Mecomber, P.E., MPA
Environmental Engineer I, Division of Environmental Remediation

New York State Department of Environmental Conservation
47-40 21st Street, Long Island City, NY 11101-5401
P: (718) 482-7541 | F: (718) 482-6358 | dana.mecomber@dec.ny.gov

www.dec.ny.gov | | |

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From: Sean Harrison [mailto:sharrison@brinkenv.com]
Sent: Thursday, October 08, 2015 4:36 PM
To: Mecomber, Dana P (DEC)
Cc: 'Doug Harm'; 'Monica Norton'
Subject: 255 East 138th Street, Bronx, NY - Base Material

Hi Dana,

The contractor is anticipating on importing 2-3-inch crushed stone from New York Recycling, LLC to use as base material for underneath the slab. Attached is the sieve analysis. Is this acceptable? Let me know when you have a chance.

Thanks,

Sean

Sean Harrison
sharrison@brinkenv.com
BRINKERHOFF
ENVIRONMENTAL SERVICES, INC.
1805 Atlantic Avenue
Manasquan, NJ 08736
Phone: 732-223-2225, xt 26
Fax: 732-223-3666
Web: www.BrinkEnv.com

Monica Norton

From: Mecomber, Dana P (DEC) <Dana.Mecomber@dec.ny.gov>
Sent: Thursday, October 22, 2015 9:53 AM
To: Sean Harrison
Cc: mnorton@brinkenv.com; Doug Harm; Pierce, Ira
Subject: RE: Tilcon New York Inc. - RCA - 255 E. 138th Street, Bronx, NY

The material is approved provided that it meets the other requirements in DER-10 - must conform to requirements of Section 304 of the NYSDOT standard specifications. As I mentioned for the other requests, you are also responsible for ensuring the material is free of fines and asphalt (or other material that is not allowed).

Where are you putting the RCA? Have you collected bottom endpoint samples yet?

Dana Mecomber, P.E., MPA
Environmental Engineer I, Division of Environmental Remediation

New York State Department of Environmental Conservation
47-40 21st Street, Long Island City, NY 11101-5401
P: (718) 482-7541 | F: (718) 482-6358 | dana.mecomber@dec.ny.gov

www.dec.ny.gov | |

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-----Original Message-----
From: Sean Harrison [mailto:sharrison@brinkenv.com]
Sent: Tuesday, October 20, 2015 6:34 PM
To: Mecomber, Dana P (DEC)
Cc: mnorton@brinkenv.com; Doug Harm
Subject: Tilcon New York Inc. - RCA - 255 E. 138th Street, Bronx, NY

Hi Dana,

The contractor is looking to import RCA from Tilcon New York Inc. and I just want to confirm that it is acceptable to import to the site. Tilcon New York Inc. is a NYSDEC registered C & D processing facility. Attached is the gradation report. Please let me know if this is approved.

Thanks,

Sean

Sean Harrison
Geologist
Brinkerhoff Environmental Services, Inc.
Cell: (207)-650-1560
Sent from my iPhone

ATTACHMENT XXI

Accredited Analytical Resources, LLC.

03 November 2015 AAR Work Order: 1501878

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 10/20/2015 15:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-1	1501878-01	Soil	10/19/2015 11:30	10/20/2015 15:15
EP-2	1501878-02	Soil	10/19/2015 11:35	10/20/2015 15:15
EP-3	1501878-03	Soil	10/19/2015 11:40	10/20/2015 15:15
EP-4	1501878-04	Soil	10/19/2015 11:45	10/20/2015 15:15
EP-5	1501878-05	Soil	10/19/2015 11:50	10/20/2015 15:15

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
E	Concentration exceeds calibration range
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

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Daniel Miguel, Technical Director

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

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Daniel Miguel, Technical Director

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1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	37.8	63.0	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	12.6	63.0	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
67-64-1	**Acetone**	**637**	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
74-87-3	Chloromethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
74-83-9	Bromomethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-00-3	Chloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**75.1**	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
78-93-3	2-Butanone	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
67-66-3	Chloroform	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
71-43-2	Benzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U

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Daniel Miguel, Technical Director

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1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-88-3	Toluene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	12.6	25.2	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
95-47-6	o-Xylene	ND	12.6	25.2	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
100-42-5	Styrene	ND	6.30	25.2	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
75-25-2	Bromoform	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U

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1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-1

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Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	6.30	12.6	ug/kg dry	1	10/26/15 15:22	10/26/15 15:22/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*114 %*	*70-130*		*10/26/15 15:22*	*10/26/15 15:22/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*101 %*	*70-130*		*10/26/15 15:22*	*10/26/15 15:22/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*76 %*	*70-130*		*10/26/15 15:22*	*10/26/15 15:22/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
108-95-2	Phenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U

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1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

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Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
78-59-1	Isophorone	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	186	747	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	74.7	747	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
86-73-7	Fluorene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
120-12-7	Anthracene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
129-00-0	Pyrene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	186	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
218-01-9	Chrysene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	74.7	374	ug/kg dry	1	10/26/15 06:03	10/27/15 16:46/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*35 %*	*30-130*		*10/26/15 06:03*	*10/27/15 16:46/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*40 %*	*30-130*		*10/26/15 06:03*	*10/27/15 16:46/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*33 %*	*30-130*		*10/26/15 06:03*	*10/27/15 16:46/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Surrogate: 2-Fluorobiphenyl		*37 %*		*30-130*			*10/26/15 06:03*	*10/27/15 16:46/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol		*49 %*		*30-130*			*10/26/15 06:03*	*10/27/15 16:46/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14		*90 %*		*30-130*			*10/26/15 06:03*	*10/27/15 16:46/JMM*	*EPA 8270*	

EPA Method SW846 8081/8082

Sample Prepared by Method:EPA 3550B

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
319-84-6	alpha-BHC	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	14.9	14.9	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.98	2.98	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.48	1.48	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	74.7	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	37.2	74.7	ug/kg dry	1	10/23/15 06:21	10/23/15 15:36/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*75.5 %*	*30-150*		*10/23/15 06:21*	*10/23/15 15:36/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*78.2 %*	*30-150*		*10/23/15 06:21*	*10/23/15 15:36/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*72.1 %*	*30-150*		*10/23/15 06:21*	*10/23/15 15:36/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*75.3 %*	*30-150*		*10/23/15 06:21*	*10/23/15 15:36/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**7420**	44.8	44.8	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-36-0	Antimony	ND	8.97	8.97	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.58**	2.24	2.24	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-39-3	**Barium**	**57.1**	44.8	44.8	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-41-7	Beryllium	ND	1.12	1.12	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	1.12	1.12	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-70-2	**Calcium**	**11300**	56.1	56.1	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-47-3	**Chromium**	**15.6**	4.48	4.48	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-48-4	Cobalt	ND	11.2	11.2	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-50-8	**Copper**	**16.2**	6.73	6.73	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7439-89-6	**Iron**	**13300**	56.1	56.1	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7439-92-1	**Lead**	**12.3**	2.24	2.24	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7439-95-4	**Magnesium**	**6000**	112	112	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7439-96-5	**Manganese**	**373**	4.48	4.48	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-1

Lab ID: 1501878-01 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**12.9**	8.97	8.97	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-09-7	**Potassium**	**1410**	112	112	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7782-49-2	Selenium	ND	8.97	8.97	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-22-4	Silver	ND	1.12	1.12	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-23-5	**Sodium**	**594**	112	112	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-28-0	Thallium	ND	3.36	6.73	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**25.1**	11.2	11.2	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
7440-66-6	**Zinc**	**44.8**	13.5	13.5	mg/kg dry	1	10/26/15 09:32	10/26/15 14:04/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.168	0.168	mg/kg dry	1	10/26/15 08:59	10/26/15 14:04/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	2.24	2.24	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**44.6**	0.100	0.100	%	1	10/22/15 09:30	10/23/15 09:45/CLD	SM 2540 G	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	22.0	36.7	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	7.33	36.7	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
67-64-1	**Acetone**	**17.3**	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
74-87-3	Chloromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
74-83-9	Bromomethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-00-3	Chloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**24.9**	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
78-93-3	2-Butanone	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
67-66-3	Chloroform	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
71-43-2	Benzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-88-3	Toluene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	7.33	14.7	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
95-47-6	o-Xylene	ND	7.33	14.7	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
100-42-5	Styrene	ND	3.67	14.7	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
75-25-2	Bromoform	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	3.67	7.33	ug/kg dry	1	10/26/15 15:52	10/26/15 15:52/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*115 %*	*70-130*		*10/26/15 15:52*	*10/26/15 15:52/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*101 %*	*70-130*		*10/26/15 15:52*	*10/26/15 15:52/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*81 %*	*70-130*		*10/26/15 15:52*	*10/26/15 15:52/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
108-95-2	Phenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
78-59-1	Isophorone	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	134	537	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	53.7	537	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
86-73-7	Fluorene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
120-12-7	Anthracene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
129-00-0	Pyrene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	134	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
117-81-7	**bis(2-ethylhexyl)phthalate**	**65.1**	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	J
218-01-9	Chrysene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	53.7	269	ug/kg dry	1	10/26/15 06:03	10/28/15 15:28/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*68 %*	*30-130*		*10/26/15 06:03*	*10/28/15 15:28/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*74 %*	*30-130*		*10/26/15 06:03*	*10/28/15 15:28/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*62 %*	*30-130*		*10/26/15 06:03*	*10/28/15 15:28/JMM*	*EPA 8270*	

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: 2-Fluorobiphenyl		*67 %*		*30-130*			*10/26/15 06:03*	*10/28/15 15:28/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol		*101 %*		*30-130*			*10/26/15 06:03*	*10/28/15 15:28/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14		*113 %*		*30-130*			*10/26/15 06:03*	*10/28/15 15:28/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	10.7	10.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.15	2.15	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.06	1.06	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	53.7	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	26.8	53.7	ug/kg dry	1	10/23/15 06:21	10/23/15 16:07/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*84.3 %*	*30-150*		*10/23/15 06:21*	*10/23/15 16:07/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*92.6 %*	*30-150*		*10/23/15 06:21*	*10/23/15 16:07/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*85.9 %*	*30-150*		*10/23/15 06:21*	*10/23/15 16:07/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*92.5 %*	*30-150*		*10/23/15 06:21*	*10/23/15 16:07/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**12200**	32.3	32.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-36-0	Antimony	ND	6.45	6.45	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**3.14**	1.61	1.61	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-39-3	**Barium**	**61.6**	32.3	32.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.806	0.806	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	U
7440-43-9	**Cadmium**	**0.958**	0.806	0.806	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-70-2	**Calcium**	**24400**	40.3	40.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-47-3	**Chromium**	**20.9**	3.23	3.23	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-48-4	**Cobalt**	**11.1**	8.06	8.06	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-50-8	**Copper**	**19.5**	4.84	4.84	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7439-89-6	**Iron**	**21500**	40.3	40.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7439-92-1	**Lead**	**17.1**	1.61	1.61	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7439-95-4	**Magnesium**	**15700**	80.6	80.6	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7439-96-5	**Manganese**	**835**	3.23	3.23	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-2

Lab ID: 1501878-02 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**17.6**	6.45	6.45	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-09-7	**Potassium**	**2220**	80.6	80.6	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7782-49-2	Selenium	ND	6.45	6.45	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.806	0.806	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	U
7440-23-5	**Sodium**	**343**	80.6	80.6	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.42	4.84	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**32.8**	8.06	8.06	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
7440-66-6	**Zinc**	**65.7**	9.68	9.68	mg/kg dry	1	10/26/15 09:32	10/26/15 14:09/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.121	0.121	mg/kg dry	1	10/26/15 08:59	10/26/15 14:06/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.61	1.61	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**62.0**	0.100	0.100	%	1	10/22/15 09:30	10/23/15 09:45/CLD	SM 2540 G	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	17.3	28.8	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	5.77	28.8	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
67-64-1	**Acetone**	**14.4**	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**24.2**	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
78-93-3	2-Butanone	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
71-43-2	Benzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-88-3	Toluene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-90-7	**Chlorobenzene**	**47.4**	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	5.77	11.5	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
95-47-6	o-Xylene	ND	5.77	11.5	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
100-42-5	Styrene	ND	2.88	11.5	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
98-06-6	tert-Butylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.88	5.77	ug/kg dry	1	10/26/15 16:22	10/26/15 16:22/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*123 %*	*70-130*		*10/26/15 16:22*	*10/26/15 16:22/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*99 %*	*70-130*		*10/26/15 16:22*	*10/26/15 16:22/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*74 %*	*70-130*		*10/26/15 16:22*	*10/26/15 16:22/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
108-95-2	Phenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
621-64-7	N-Nitroso-di-n-propylamine	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
67-72-1	Hexachloroethane	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
78-59-1	Isophorone	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	105	420	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	42.0	420	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
84-66-2	Diethyl phthalate	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
86-73-7	Fluorene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**42.1**	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	J
120-12-7	Anthracene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
129-00-0	**Pyrene**	**60.6**	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
117-81-7	**bis(2-ethylhexyl)phthalate**	**53.9**	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	J
218-01-9	Chrysene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	42.0	211	ug/kg dry	1	10/26/15 06:03	10/27/15 15:14/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*70 %*	*30-130*		*10/26/15 06:03*	*10/27/15 15:14/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*76 %*	*30-130*		*10/26/15 06:03*	*10/27/15 15:14/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Nitrobenzene-d5				*64 %*	*30-130*		*10/26/15 06:03*	*10/27/15 15:14/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*65 %*	*30-130*		*10/26/15 06:03*	*10/27/15 15:14/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*84 %*	*30-130*		*10/26/15 06:03*	*10/27/15 15:14/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*96 %*	*30-130*		*10/26/15 06:03*	*10/27/15 15:14/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	8.41	8.41	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.833	0.833	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	42.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
EPA Method SW846 8081/8082										
11104-28-2	Aroclor-1221	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	21.0	42.0	ug/kg dry	1	10/23/15 06:21	10/23/15 16:37/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*72.9 %*	*30-150*		*10/23/15 06:21*	*10/23/15 16:37/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*80.9 %*	*30-150*		*10/23/15 06:21*	*10/23/15 16:37/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*77.1 %*	*30-150*		*10/23/15 06:21*	*10/23/15 16:37/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*82.7 %*	*30-150*		*10/23/15 06:21*	*10/23/15 16:37/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8550**	25.3	25.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.05	5.05	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-38-2	Arsenic	ND	1.26	1.26	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-39-3	**Barium**	**40.7**	25.3	25.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.631	0.631	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.631	0.631	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-70-2	**Calcium**	**1660**	31.6	31.6	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-47-3	**Chromium**	**12.4**	2.53	2.53	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-48-4	**Cobalt**	**7.57**	6.31	6.31	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-50-8	**Copper**	**16.8**	3.79	3.79	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7439-89-6	**Iron**	**11500**	31.6	31.6	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7439-92-1	**Lead**	**8.40**	1.26	1.26	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7439-95-4	**Magnesium**	**4080**	63.1	63.1	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-3

Lab ID: 1501878-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7439-96-5	**Manganese**	**96.3**	2.53	2.53	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-02-0	**Nickel**	**14.6**	5.05	5.05	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-09-7	**Potassium**	**1120**	63.1	63.1	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.05	5.05	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.631	0.631	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-23-5	**Sodium**	**173**	63.1	63.1	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.89	3.79	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**12.8**	6.31	6.31	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
7440-66-6	**Zinc**	**46.2**	7.58	7.58	mg/kg dry	1	10/26/15 09:32	10/26/15 14:14/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.0947	0.0947	mg/kg dry	1	10/26/15 08:59	10/26/15 14:08/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.26	1.26	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**79.2**	0.100	0.100	%	1	10/22/15 09:30	10/23/15 09:45/CLD	SM 2540 G	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	17.9	29.8	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	5.96	29.8	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
67-64-1	**Acetone**	**10.2**	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**25.6**	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
78-93-3	2-Butanone	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
71-43-2	Benzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-88-3	Toluene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	5.96	11.9	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
95-47-6	o-Xylene	ND	5.96	11.9	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
100-42-5	Styrene	ND	2.98	11.9	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.98	5.96	ug/kg dry	1	10/26/15 16:51	10/26/15 16:51/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*119 %*	*70-130*		*10/26/15 16:51*	*10/26/15 16:51/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*99 %*	*70-130*		*10/26/15 16:51*	*10/26/15 16:51/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*76 %*	*70-130*		*10/26/15 16:51*	*10/26/15 16:51/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
108-95-2	Phenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
78-59-1	Isophorone	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	112	449	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	44.9	449	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
86-73-7	Fluorene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
120-12-7	Anthracene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
129-00-0	Pyrene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	112	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
218-01-9	Chrysene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	44.9	225	ug/kg dry	1	10/26/15 06:03	10/28/15 16:14/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*80 %*	*30-130*		*10/26/15 06:03*	*10/28/15 16:14/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*86 %*	*30-130*		*10/26/15 06:03*	*10/28/15 16:14/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*72 %*	*30-130*		*10/26/15 06:03*	*10/28/15 16:14/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: 2-Fluorobiphenyl				*74 %*	*30-130*		*10/26/15 06:03*	*10/28/15 16:14/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*99 %*	*30-130*		*10/26/15 06:03*	*10/28/15 16:14/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*123 %*	*30-130*		*10/26/15 06:03*	*10/28/15 16:14/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	8.98	8.98	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.79	1.79	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.889	0.889	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	44.9	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	22.4	44.9	ug/kg dry	1	10/23/15 06:21	10/23/15 17:08/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*74.9 %*	*30-150*		*10/23/15 06:21*	*10/23/15 17:08/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*84.8 %*	*30-150*		*10/23/15 06:21*	*10/23/15 17:08/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*82.7 %*	*30-150*		*10/23/15 06:21*	*10/23/15 17:08/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*84.2 %*	*30-150*		*10/23/15 06:21*	*10/23/15 17:08/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**7630**	27.0	27.0	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.39	5.39	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.25**	1.35	1.35	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-39-3	Barium	ND	27.0	27.0	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-41-7	Beryllium	ND	0.674	0.674	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.674	0.674	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-70-2	**Calcium**	**2000**	33.7	33.7	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-47-3	**Chromium**	**11.8**	2.70	2.70	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-48-4	**Cobalt**	**7.33**	6.74	6.74	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-50-8	**Copper**	**19.8**	4.04	4.04	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7439-89-6	**Iron**	**11500**	33.7	33.7	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7439-92-1	**Lead**	**8.19**	1.35	1.35	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7439-95-4	**Magnesium**	**3910**	67.4	67.4	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7439-96-5	**Manganese**	**101**	2.70	2.70	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-4

Lab ID: 1501878-04 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**15.6**	5.39	5.39	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-09-7	**Potassium**	**975**	67.4	67.4	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.39	5.39	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.674	0.674	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-23-5	**Sodium**	**203**	67.4	67.4	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.02	4.04	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**12.8**	6.74	6.74	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
7440-66-6	**Zinc**	**53.4**	8.09	8.09	mg/kg dry	1	10/26/15 09:32	10/26/15 14:29/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.101	0.101	mg/kg dry	1	10/26/15 08:59	10/26/15 14:11/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.35	1.35	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**74.2**	0.100	0.100	%	1	10/22/15 09:30	10/23/15 09:45/CLD	SM 2540 G	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	115	192	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	38.5	192	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
67-64-1	**Acetone**	**3460**	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
74-87-3	Chloromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
74-83-9	Bromomethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-00-3	Chloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**127**	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
78-93-3	2-Butanone	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
67-66-3	Chloroform	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
71-43-2	Benzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-88-3	Toluene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	38.5	76.9	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
95-47-6	o-Xylene	ND	38.5	76.9	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
100-42-5	Styrene	ND	19.2	76.9	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
75-25-2	Bromoform	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	19.2	38.5	ug/kg dry	1	10/26/15 17:22	10/26/15 17:22/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*119 %*	*70-130*		*10/26/15 17:22*	*10/26/15 17:22/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*90 %*	*70-130*		*10/26/15 17:22*	*10/26/15 17:22/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*74 %*	*70-130*		*10/26/15 17:22*	*10/26/15 17:22/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
108-95-2	Phenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
78-59-1	Isophorone	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	364	1460	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	146	1460	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U

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1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
86-73-7	Fluorene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
120-12-7	Anthracene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
129-00-0	Pyrene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	364	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
218-01-9	Chrysene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	146	732	ug/kg dry	1	10/26/15 06:03	10/27/15 16:00/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*63 %*	*30-130*		*10/26/15 06:03*	*10/27/15 16:00/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*71 %*	*30-130*		*10/26/15 06:03*	*10/27/15 16:00/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*58 %*	*30-130*		*10/26/15 06:03*	*10/27/15 16:00/JMM*	*EPA 8270*	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: 2-Fluorobiphenyl		*61 %*		*30-130*			*10/26/15 06:03*	*10/27/15 16:00/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol		*81 %*		*30-130*			*10/26/15 06:03*	*10/27/15 16:00/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14		*102 %*		*30-130*			*10/26/15 06:03*	*10/27/15 16:00/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	29.2	29.2	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	5.83	5.83	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	2.89	2.89	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	146	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	72.8	146	ug/kg dry	1	10/23/15 06:21	10/23/15 17:39/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*72.6 %*	*30-150*		*10/23/15 06:21*	*10/23/15 17:39/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*78.2 %*	*30-150*		*10/23/15 06:21*	*10/23/15 17:39/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*83.1 %*	*30-150*		*10/23/15 06:21*	*10/23/15 17:39/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*84.4 %*	*30-150*		*10/23/15 06:21*	*10/23/15 17:39/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**4070**	87.7	87.7	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7440-36-0	Antimony	ND	17.5	17.5	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-38-2	Arsenic	ND	4.39	4.39	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-39-3	**Barium**	**94.3**	87.7	87.7	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7440-41-7	Beryllium	ND	2.19	2.19	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	2.19	2.19	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-70-2	**Calcium**	**28800**	110	110	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7440-47-3	**Chromium**	**11.9**	8.77	8.77	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7440-48-4	Cobalt	ND	21.9	21.9	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-50-8	**Copper**	**31.5**	13.2	13.2	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7439-89-6	**Iron**	**7500**	110	110	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7439-92-1	**Lead**	**19.7**	4.39	4.39	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7439-95-4	**Magnesium**	**10300**	219	219	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7439-96-5	**Manganese**	**421**	8.77	8.77	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/03/2015 15:48

Client ID: EP-5

Lab ID: 1501878-05 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Total Metals by EPA Method SW846 6010										
7440-02-0	Nickel	ND	17.5	17.5	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-09-7	**Potassium**	**966**	219	219	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7782-49-2	Selenium	ND	17.5	17.5	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-22-4	Silver	ND	2.19	2.19	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-23-5	**Sodium**	**720**	219	219	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	
7440-28-0	Thallium	ND	6.58	13.2	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-62-2	Vanadium	ND	21.9	21.9	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
7440-66-6	Zinc	ND	26.3	26.3	mg/kg dry	1	10/26/15 09:32	10/26/15 14:34/LIT	EPA 6010	U
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.329	0.329	mg/kg dry	1	10/26/15 08:59	10/26/15 14:13/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	4.39	4.39	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**22.8**	0.100	0.100	%	1	10/22/15 09:30	10/23/15 09:45/CLD	SM 2540 G	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th St, Bronx, NY, 10821188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	d.harm@brink.env

CLIENT NAME:	BrinKerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1501878
P.O. #	

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH (FT)	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-1	10/19/15 10:15 + 11:30	S	14.5-15	4	G	✓	✓	-01
EP-2	10/19/15 10:20 + 11:35	S	14.5-15	4	G	✓	✓	-02
EP-3	10/19/15 10:27 + 11:40	S	14.5-15	4	G	✓	✓	-03
EP-4	10/19/15 10:35 + 11:45	S	14.5-15	4	G	✓	✓	-04
EP-5	10/19/15 10:40 - 11:50	S	14.5-15	4	G	✓	✓	-05

PRES. CODE →
CONT. CODE →

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to BrinKerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: John Tarawo	Print Name: John Tarawo	Print Name: K. Muniz
Signature: Monica Norton	Signature: [signature]	Signature: [signature]	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10/20/15 Time: 10:10		Date Received: 10/20/15 Time: 15:15	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Bernie O'Gara

From: "Monica Norton" <mnorton@brinkenv.com>
To: "'Bernie O'Gara'" <bernie@accreditedanalytical.com>
Cc: "'Sean Harrison'" <sharrison@brinkenv.com>
Sent: Wednesday, October 21, 2015 3:55 PM
Subject: Chain of Custody Revision - 255 E. 138th Street - 10BR188

Bernie,

For the COC that was submitted yesterday, October 20th, 2015 for the project located at 255 East 138th Street, Bronx, NY (Name: 10BR188), please change the sample time for each EP sample to be the second time (i.e. EP-1 sampled at 11:30, EP-2 sampled at 11:35, EP-3 sampled at 11:40, etc…).

Please let me know if you have any other questions.

Thanks!

Monica

Monica Norton
mnorton@brinkenv.com
BRINKERHOFF
ENVIRONMENTAL SERVICES, INC.
1805 Atlantic Avenue
Manasquan, NJ 08736
Phone: 732-223-2225
Fax: 732-223-3666
Web: www.BrinkEnv.com

Accredited Analytical Resources, LLC.

05 November 2015 AAR Work Order: 1501909

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 10/23/2015 14:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-6	1501909-01	Soil	10/22/2015 13:57	10/23/2015 14:30
EP-7	1501909-02	Soil	10/22/2015 14:08	10/23/2015 14:30
EP-8	1501909-03	Soil	10/23/2015 08:15	10/23/2015 14:30

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
E	Concentration exceeds calibration range
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	16.7	27.9	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	5.57	27.9	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
67-64-1	**Acetone**	**108**	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**26.0**	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
78-93-3	**2-Butanone**	**22.5**	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
71-43-2	Benzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-88-3	Toluene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	5.57	11.1	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
95-47-6	o-Xylene	ND	5.57	11.1	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
100-42-5	Styrene	ND	2.79	11.1	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.79	5.57	ug/kg dry	1	10/26/15 17:52	10/26/15 17:52/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*118 %*	*70-130*		*10/26/15 17:52*	*10/26/15 17:52/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*93 %*	*70-130*		*10/26/15 17:52*	*10/26/15 17:52/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*56 %*	*70-130*	*	*10/26/15 17:52*	*10/26/15 17:52/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
108-95-2	Phenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
78-59-1	Isophorone	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	173	694	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**159**	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	69.4	694	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U

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1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
84-66-2	Diethyl phthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
86-73-7	Fluorene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**89.6**	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	J
120-12-7	Anthracene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
129-00-0	Pyrene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	173	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
218-01-9	Chrysene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	69.4	348	ug/kg dry	1	10/26/15 06:03	10/27/15 19:08/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*61 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:08/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*77 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:08/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Surrogate: Nitrobenzene-d5		*70 %*		*30-130*			*10/26/15 06:03*	*10/27/15 19:08/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl		*67 %*		*30-130*			*10/26/15 06:03*	*10/27/15 19:08/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol		*75 %*		*30-130*			*10/26/15 06:03*	*10/27/15 19:08/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14		*85 %*		*30-130*			*10/26/15 06:03*	*10/27/15 19:08/JMM*	*EPA 8270*	

EPA Method SW846 8081/8082

Sample Prepared by Method:EPA 3550B

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
319-84-6	alpha-BHC	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	13.9	13.9	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.77	2.77	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.38	1.38	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	69.4	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

Accredited Analytical Resources LLC

EPA Method SW846 8081/8082

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
11104-28-2	Aroclor-1221	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	34.6	69.4	ug/kg dry	1	10/27/15 09:15	10/27/15 16:24/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*68.5 %*	*30-150*		*10/27/15 09:15*	*10/27/15 16:24/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*70.5 %*	*30-150*		*10/27/15 09:15*	*10/27/15 16:24/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*74.2 %*	*30-150*		*10/27/15 09:15*	*10/27/15 16:24/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*78.6 %*	*30-150*		*10/27/15 09:15*	*10/27/15 16:24/JAM*	*EPA 8081/8082*	

Total Metals by EPA Method SW846 6010

Sample Prepared by Method:EPA 3050B

7429-90-5	**Aluminum**	**8930**	41.7	41.7	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-36-0	Antimony	ND	8.33	8.33	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.34**	2.08	2.08	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-39-3	**Barium**	**96.6**	41.7	41.7	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-41-7	Beryllium	ND	1.04	1.04	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	1.04	1.04	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-70-2	**Calcium**	**8470**	52.1	52.1	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-47-3	**Chromium**	**17.0**	4.17	4.17	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-48-4	Cobalt	ND	10.4	10.4	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-50-8	**Copper**	**48.8**	6.25	6.25	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7439-89-6	**Iron**	**11200**	52.1	52.1	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7439-92-1	**Lead**	**12.5**	2.08	2.08	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7439-95-4	**Magnesium**	**6300**	104	104	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7439-96-5	**Manganese**	**169**	4.17	4.17	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-02-0	**Nickel**	**15.9**	8.33	8.33	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-09-7	**Potassium**	**1140**	104	104	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7782-49-2	Selenium	ND	8.33	8.33	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-22-4	Silver	ND	1.04	1.04	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-23-5	**Sodium**	**1030**	104	104	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-28-0	Thallium	ND	3.12	6.25	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**21.5**	10.4	10.4	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
7440-66-6	**Zinc**	**59.6**	12.5	12.5	mg/kg dry	1	10/26/15 09:32	10/26/15 15:05/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.156	0.156	mg/kg dry	1	10/26/15 08:59	10/26/15 14:25/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	2.08	2.08	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**48.0**	0.100	0.100	%	1	10/26/15 09:10	10/26/15 15:17/HTW	SM 2540 G	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01RE1 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	17.7	29.4	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	5.89	29.4	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
67-64-1	**Acetone**	**109**	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**22.4**	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	
156-60-5	trans-1,2-Dichloroethene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
78-93-3	**2-Butanone**	**21.6**	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
71-43-2	Benzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01RE1 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-88-3	Toluene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	5.89	11.8	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
95-47-6	o-Xylene	ND	5.89	11.8	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
100-42-5	Styrene	ND	2.94	11.8	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-6

Lab ID: 1501909-01RE1 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.94	5.89	ug/kg dry	1	10/27/15 20:53	10/27/15 20:53/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*110 %*	*70-130*		*10/27/15 20:53*	*10/27/15 20:53/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*96 %*	*70-130*		*10/27/15 20:53*	*10/27/15 20:53/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*51 %*	*70-130*	*	*10/27/15 20:53*	*10/27/15 20:53/SG*	*EPA 8260*	

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	7.79	13.0	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.60	13.0	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
67-64-1	**Acetone**	**97.8**	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-15-0	**Carbon disulfide**	**1.99**	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	J
75-09-2	**Methylene Chloride**	**6.88**	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
78-93-3	**2-Butanone**	**16.1**	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
71-43-2	Benzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-88-3	Toluene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.60	5.19	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.60	5.19	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
100-42-5	Styrene	ND	1.30	5.19	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.30	2.60	ug/kg dry	1	10/26/15 18:22	10/26/15 18:22/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*111 %*	*70-130*		*10/26/15 18:22*	*10/26/15 18:22/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*102 %*	*70-130*		*10/26/15 18:22*	*10/26/15 18:22/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*87 %*	*70-130*		*10/26/15 18:22*	*10/26/15 18:22/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
108-95-2	Phenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
78-59-1	Isophorone	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	119	476	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**72.9**	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	47.6	476	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
84-66-2	Diethyl phthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
86-73-7	Fluorene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**153**	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
120-12-7	Anthracene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**153**	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
129-00-0	**Pyrene**	**145**	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	119	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**61.0**	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
218-01-9	**Chrysene**	**72.9**	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
50-32-8	**Benzo[a]pyrene**	**59.0**	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	47.6	239	ug/kg dry	1	10/26/15 06:03	10/27/15 20:35/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*59 %*	*30-130*		*10/26/15 06:03*	*10/27/15 20:35/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*76 %*	*30-130*		*10/26/15 06:03*	*10/27/15 20:35/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Nitrobenzene-d5				*70 %*	*30-130*		*10/26/15 06:03*	*10/27/15 20:35/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*66 %*	*30-130*		*10/26/15 06:03*	*10/27/15 20:35/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*64 %*	*30-130*		*10/26/15 06:03*	*10/27/15 20:35/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*87 %*	*30-130*		*10/26/15 06:03*	*10/27/15 20:35/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	9.51	9.51	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.90	1.90	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.943	0.943	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	47.6	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
EPA Method SW846 8081/8082										
11104-28-2	Aroclor-1221	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	23.7	47.6	ug/kg dry	1	10/27/15 09:15	10/27/15 16:55/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*87.2 %*	*30-150*		*10/27/15 09:15*	*10/27/15 16:55/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*90.1 %*	*30-150*		*10/27/15 09:15*	*10/27/15 16:55/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*89.0 %*	*30-150*		*10/27/15 09:15*	*10/27/15 16:55/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*86.1 %*	*30-150*		*10/27/15 09:15*	*10/27/15 16:55/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**6100**	28.6	28.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.71	5.71	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.01**	1.43	1.43	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-39-3	**Barium**	**40.0**	28.6	28.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.714	0.714	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.714	0.714	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-70-2	**Calcium**	**8140**	35.7	35.7	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-47-3	**Chromium**	**10.1**	2.86	2.86	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-48-4	Cobalt	ND	7.14	7.14	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-50-8	**Copper**	**13.6**	4.29	4.29	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7439-89-6	**Iron**	**9210**	35.7	35.7	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7439-92-1	**Lead**	**11.8**	1.43	1.43	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7439-95-4	**Magnesium**	**4200**	71.4	71.4	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-7

Lab ID: 1501909-02 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Total Metals by EPA Method SW846 6010										
7439-96-5	**Manganese**	**111**	2.86	2.86	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-02-0	**Nickel**	**12.9**	5.71	5.71	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-09-7	**Potassium**	**856**	71.4	71.4	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.71	5.71	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.714	0.714	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-23-5	**Sodium**	**401**	71.4	71.4	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.14	4.29	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**12.3**	7.14	7.14	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
7440-66-6	**Zinc**	**45.7**	8.57	8.57	mg/kg dry	1	10/26/15 09:32	10/26/15 15:10/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.107	0.107	mg/kg dry	1	10/26/15 08:59	10/26/15 14:28/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.43	1.43	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**70.0**	0.100	0.100	%	1	10/26/15 09:10	10/26/15 15:17/HTW	SM 2540 G	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	25.5	42.6	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	8.51	42.6	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
67-64-1	**Acetone**	**102**	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
74-87-3	Chloromethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
74-83-9	Bromomethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-00-3	Chloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**20.6**	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	
156-60-5	trans-1,2-Dichloroethene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
78-93-3	2-Butanone	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
67-66-3	Chloroform	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
71-43-2	Benzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-88-3	Toluene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
100-41-4	**Ethylbenzene**	**7.57**	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	J
108-90-7	Chlorobenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	8.51	17.0	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
95-47-6	o-Xylene	ND	8.51	17.0	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
100-42-5	Styrene	ND	4.26	17.0	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
75-25-2	Bromoform	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
98-06-6	tert-Butylbenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
95-63-6	1,2,4-Trimethylbenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.26	8.51	ug/kg dry	1	10/27/15 21:23	10/27/15 21:23/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*122 %*	*70-130*		*10/27/15 21:23*	*10/27/15 21:23/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*99 %*	*70-130*		*10/27/15 21:23*	*10/27/15 21:23/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*78 %*	*70-130*		*10/27/15 21:23*	*10/27/15 21:23/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
108-95-2	Phenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
621-64-7	N-Nitroso-di-n-propylamine	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
67-72-1	Hexachloroethane	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
78-59-1	Isophorone	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	177	709	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**76.6**	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	70.9	709	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
121-14-2	2,4-Dinitrotoluene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
86-73-7	Fluorene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**187**	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
120-12-7	Anthracene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**190**	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
129-00-0	**Pyrene**	**199**	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	177	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**75.9**	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
218-01-9	**Chrysene**	**92.9**	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	70.9	355	ug/kg dry	1	10/26/15 06:03	10/27/15 19:52/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*61 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:52/JMM*	*EPA 8270*	

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1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Phenol-d5				*77 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:52/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*70 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:52/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*67 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:52/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*82 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:52/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*92 %*	*30-130*		*10/26/15 06:03*	*10/27/15 19:52/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	14.2	14.2	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.83	2.83	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.40	1.40	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	70.9	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
12674-11-2	Aroclor-1016	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	35.3	70.9	ug/kg dry	1	10/27/15 09:15	10/27/15 17:26/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*76.5 %*	*30-150*		*10/27/15 09:15*	*10/27/15 17:26/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*85.3 %*	*30-150*		*10/27/15 09:15*	*10/27/15 17:26/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*87.6 %*	*30-150*		*10/27/15 09:15*	*10/27/15 17:26/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*85.9 %*	*30-150*		*10/27/15 09:15*	*10/27/15 17:26/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**11800**	42.6	42.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-36-0	Antimony	ND	8.51	8.51	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**3.29**	2.13	2.13	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-39-3	**Barium**	**68.6**	42.6	42.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-41-7	Beryllium	ND	1.06	1.06	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	1.06	1.06	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-70-2	**Calcium**	**9090**	53.2	53.2	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-47-3	**Chromium**	**19.4**	4.26	4.26	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-48-4	**Cobalt**	**10.6**	10.6	10.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-50-8	**Copper**	**25.5**	6.38	6.38	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7439-89-6	**Iron**	**17700**	53.2	53.2	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7439-92-1	**Lead**	**25.5**	2.13	2.13	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/05/2015 14:18

Client ID: EP-8

Lab ID: 1501909-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7439-95-4	**Magnesium**	**8200**	106	106	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7439-96-5	**Manganese**	**247**	4.26	4.26	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-02-0	**Nickel**	**20.7**	8.51	8.51	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-09-7	**Potassium**	**1630**	106	106	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7782-49-2	Selenium	ND	8.51	8.51	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-22-4	Silver	ND	1.06	1.06	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-23-5	**Sodium**	**717**	106	106	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-28-0	Thallium	ND	3.19	6.38	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**23.9**	10.6	10.6	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
7440-66-6	**Zinc**	**89.0**	12.8	12.8	mg/kg dry	1	10/26/15 09:32	10/26/15 15:15/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.160	0.160	mg/kg dry	1	10/26/15 08:59	10/26/15 14:30/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	2.13	2.13	mg/kg dry	1	10/28/15 08:43	10/28/15 13:49/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**47.0**	0.100	0.100	%	1	10/26/15 09:10	10/26/15 15:17/HTW	SM 2540 G	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th St., Bronx, NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1501909
P.O. #	

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-6	10/22/15 13:57	S		4	G	✓	✓	-01
EP-7	10/22/15 14:08	S		4	G	✓	✓	-02
EP-8	10/23/15 08:15	S		4	G	✓	✓	-03

PRES. CODE →
CONT. CODE →

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE

PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: J. McCue	Print Name: J. McCue	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10/23/15	Time: 10:45	Date Received: 10/23/15	Time: 1430

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

09 November 2015 AAR Work Order: 1501914

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 10/26/2015 12:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/09/2015 08:52

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-9	1501914-01	Soil	10/23/2015 11:00	10/26/2015 12:20

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
D	Data reported from a dilution
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/09/2015 08:52

Client ID: EP-9

Lab ID: 1501914-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	9.76	16.3	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	3.25	16.3	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
67-64-1	**Acetone**	**5.58**	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**13.4**	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
71-43-2	Benzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/09/2015 08:52

Client ID: EP-9

Lab ID: 1501914-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
108-88-3	Toluene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	3.25	6.51	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
95-47-6	o-Xylene	ND	3.25	6.51	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
100-42-5	Styrene	ND	1.63	6.51	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/09/2015 08:52

Client ID: EP-9

Lab ID: 1501914-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.63	3.25	ug/kg dry	1	10/26/15 19:22	10/26/15 19:22/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*123 %*	*70-130*		*10/26/15 19:22*	*10/26/15 19:22/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*98 %*	*70-130*		*10/26/15 19:22*	*10/26/15 19:22/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*77 %*	*70-130*		*10/26/15 19:22*	*10/26/15 19:22/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
108-95-2	Phenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/09/2015 08:52

Client ID: EP-9

Lab ID: 1501914-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
78-59-1	Isophorone	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	121	485	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	48.5	485	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/09/2015 08:52

Client ID: EP-9

Lab ID: 1501914-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
86-73-7	Fluorene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**72.4**	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	J
120-12-7	Anthracene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**86.0**	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	J
129-00-0	**Pyrene**	**85.5**	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	121	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
218-01-9	Chrysene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	48.5	243	ug/kg dry	1	10/27/15 10:13	10/27/15 18:25/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*60 %*	*30-130*		*10/27/15 10:13*	*10/27/15 18:25/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*74 %*	*30-130*		*10/27/15 10:13*	*10/27/15 18:25/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*70 %*	*30-130*		*10/27/15 10:13*	*10/27/15 18:25/JMM*	*EPA 8270*	

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/09/2015 08:52

Client ID: EP-9

Lab ID: 1501914-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: 2-Fluorobiphenyl				*68 %*	*30-130*		*10/27/15 10:13*	*10/27/15 18:25/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*74 %*	*30-130*		*10/27/15 10:13*	*10/27/15 18:25/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*84 %*	*30-130*		*10/27/15 10:13*	*10/27/15 18:25/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	9.71	9.71	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.94	1.94	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.962	0.962	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	48.5	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/09/2015 08:52

Client ID: EP-9

Lab ID: 1501914-01 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	24.2	48.5	ug/kg dry	1	10/27/15 09:15	10/27/15 23:05/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*77.7 %*	*30-150*		*10/27/15 09:15*	*10/27/15 23:05/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*84.9 %*	*30-150*		*10/27/15 09:15*	*10/27/15 23:05/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*89.5 %*	*30-150*		*10/27/15 09:15*	*10/27/15 23:05/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*105 %*	*30-150*		*10/27/15 09:15*	*10/27/15 23:05/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**9500**	29.2	29.2	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.83	5.83	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.35**	1.46	1.46	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-39-3	**Barium**	**57.9**	29.2	29.2	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.729	0.729	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.729	0.729	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	U
7440-70-2	**Calcium**	**8950**	36.4	36.4	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-47-3	**Chromium**	**16.2**	2.92	2.92	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-48-4	**Cobalt**	**7.86**	7.29	7.29	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-50-8	**Copper**	**17.3**	4.37	4.37	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7439-89-6	**Iron**	**15100**	36.4	36.4	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7439-92-1	**Lead**	**23.1**	1.46	1.46	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7439-95-4	**Magnesium**	**7920**	72.9	72.9	mg/kg dry	1	10/27/15 11:02	10/28/15 12:38/LIT	EPA 6010	
7439-96-5	**Manganese**	**278**	2.92	2.92	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/09/2015 08:52

Client ID: EP-9

Lab ID: 1501914-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**14.7**	5.83	5.83	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-09-7	**Potassium**	**1210**	72.9	72.9	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.83	5.83	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.729	0.729	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	U
7440-23-5	**Sodium**	**237**	72.9	72.9	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.19	4.37	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**21.2**	7.29	7.29	mg/kg dry	1	10/27/15 11:02	10/27/15 15:29/LIT	EPA 6010	
7440-66-6	**Zinc**	**52.4**	8.75	8.75	mg/kg dry	1	10/27/15 11:02	10/28/15 12:38/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	**Mercury**	**0.170**	0.109	0.109	mg/kg dry	1	10/27/15 09:49	10/27/15 12:39/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.46	1.46	mg/kg dry	1	11/03/15 10:10	11/03/15 15:07/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**68.6**	0.100	0.100	%	1	10/27/15 14:00	10/28/15 09:00/CLD	SM 2540 G	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	138th St., Bronx, NY; 10BR188
CONTACT:	Doug Ham
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Ham
EMAIL FOR INVOICE:	dham@brinx.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1501914
P.O. #	

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
PRES. CODE →								
CONT. CODE →								
EP-9	10/23/15 11:00 AM	S		4	G	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC ~~E = ENCORE~~ PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED X FULL ____ EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: J. Mecca	Print Name: J. Mecca	Print Name: K. Nuniz
Signature: Monica Norton	Signature:	Signature:	Signature: K. Nuniz
Agent of:	Agent of: AAR	Agent of:	Agent of: AAR
Date Received: 10/26/15	Time: 9:50	Date Received: 10/26/15	Time: 12:20

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

10 November 2015 AAR Work Order: 1501923

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 10/27/2015 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/10/2015 08:23

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-10	1501923-01	Soil	10/26/2015 12:05	10/27/2015 14:15

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
D	Data reported from a dilution
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/10/2015 08:23

Client ID: EP-10

Lab ID: 1501923-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	9.17	15.3	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	3.06	15.3	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
67-64-1	**Acetone**	**18.3**	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**2.92**	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	J
156-60-5	trans-1,2-Dichloroethene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
71-43-2	Benzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/10/2015 08:23

Client ID: EP-10

Lab ID: 1501923-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-88-3	Toluene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	3.06	6.11	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
95-47-6	o-Xylene	ND	3.06	6.11	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
100-42-5	Styrene	ND	1.53	6.11	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/10/2015 08:23

Client ID: EP-10

Lab ID: 1501923-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.53	3.06	ug/kg dry	1	11/03/15 15:36	11/03/15 15:36/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*106 %*	*70-130*		*11/03/15 15:36*	*11/03/15 15:36/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*94 %*	*70-130*		*11/03/15 15:36*	*11/03/15 15:36/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*86 %*	*70-130*		*11/03/15 15:36*	*11/03/15 15:36/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
108-95-2	Phenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/10/2015 08:23

Client ID: EP-10

Lab ID: 1501923-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
78-59-1	Isophorone	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	123	495	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	49.5	495	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/10/2015 08:23

Client ID: EP-10

Lab ID: 1501923-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
86-73-7	Fluorene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**133**	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	J
120-12-7	Anthracene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**99.1**	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	J
129-00-0	**Pyrene**	**139**	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	123	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
218-01-9	**Chrysene**	**50.0**	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	49.5	248	ug/kg dry	1	10/30/15 06:08	10/30/15 19:53/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*47 %*	*30-130*		*10/30/15 06:08*	*10/30/15 19:53/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*52 %*	*30-130*		*10/30/15 06:08*	*10/30/15 19:53/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*41 %*	*30-130*		*10/30/15 06:08*	*10/30/15 19:53/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/10/2015 08:23

Client ID: EP-10

Lab ID: 1501923-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: 2-Fluorobiphenyl				*45 %*	*30-130*		*10/30/15 06:08*	*10/30/15 19:53/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*54 %*	*30-130*		*10/30/15 06:08*	*10/30/15 19:53/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*60 %*	*30-130*		*10/30/15 06:08*	*10/30/15 19:53/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	9.90	9.90	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.98	1.98	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.981	0.981	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	49.5	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/10/2015 08:23

Client ID: EP-10

Lab ID: 1501923-01 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	24.7	49.5	ug/kg dry	1	11/02/15 05:57	11/02/15 20:02/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*74.7 %*	*30-150*		*11/02/15 05:57*	*11/02/15 20:02/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*82.1 %*	*30-150*		*11/02/15 05:57*	*11/02/15 20:02/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*87.2 %*	*30-150*		*11/02/15 05:57*	*11/02/15 20:02/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*94.8 %*	*30-150*		*11/02/15 05:57*	*11/02/15 20:02/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8980**	29.7	29.7	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.94	5.94	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.67**	1.49	1.49	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-39-3	**Barium**	**51.8**	29.7	29.7	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.743	0.743	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.743	0.743	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-70-2	**Calcium**	**7450**	37.1	37.1	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-47-3	**Chromium**	**14.7**	2.97	2.97	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-48-4	**Cobalt**	**7.93**	7.43	7.43	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-50-8	**Copper**	**21.9**	4.46	4.46	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7439-89-6	**Iron**	**13900**	37.1	37.1	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7439-92-1	**Lead**	**22.0**	1.49	1.49	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7439-95-4	**Magnesium**	**7100**	74.3	74.3	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7439-96-5	**Manganese**	**350**	2.97	2.97	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/10/2015 08:23

Client ID: EP-10

Lab ID: 1501923-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**15.5**	5.94	5.94	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-09-7	**Potassium**	**1150**	74.3	74.3	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.94	5.94	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.743	0.743	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-23-5	**Sodium**	**289**	74.3	74.3	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.23	4.46	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**19.2**	7.43	7.43	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
7440-66-6	**Zinc**	**51.0**	8.92	8.92	mg/kg dry	1	10/30/15 08:41	10/30/15 14:02/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.111	0.111	mg/kg dry	1	10/30/15 08:00	10/30/15 14:10/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.49	1.49	mg/kg dry	1	11/03/15 10:10	11/03/15 15:07/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**67.3**	0.100	0.100	%	1	10/30/15 15:15	11/02/15 10:42/CLD	SM 2540 G	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1501923
P.O. #	

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-10	10/26/15/12:05	S		4	G	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: John Ivacco	Print Name: John Ivacco	Print Name: K. Muniz
Signature: Monica Norton	Signature: [signature]	Signature: [signature]	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10/27/15	Time: 1360	Date Received: 10/27/15	Time: 1415

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

12 November 2015 AAR Work Order: 1501955

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 10/29/2015 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-11	1501955-01	Soil	10/28/2015 11:20	10/29/2015 15:40

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
D	Data reported from a dilution
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	12.0	20.0	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	4.00	20.0	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
67-64-1	**Acetone**	**15.5**	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**36.5**	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
78-93-3	2-Butanone	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
71-43-2	Benzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-88-3	Toluene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	4.00	8.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
95-47-6	o-Xylene	ND	4.00	8.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
100-42-5	Styrene	ND	2.00	8.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.00	4.00	ug/kg dry	1	11/05/15 15:04	11/05/15 15:04/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*113 %*	*70-130*		*11/05/15 15:04*	*11/05/15 15:04/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*92 %*	*70-130*		*11/05/15 15:04*	*11/05/15 15:04/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*75 %*	*70-130*		*11/05/15 15:04*	*11/05/15 15:04/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
108-95-2	Phenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
78-59-1	Isophorone	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	166	666	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**199**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
91-57-6	**2-Methylnaphthylene**	**72.7**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
77-47-4	Hexachlorocyclopentadiene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
83-32-9	**Acenaphthene**	**141**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	66.6	666	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
132-64-9	**Dibenzofuran**	**86.7**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
606-20-2	2,6-Dinitrotoluene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
84-66-2	Diethyl phthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
86-73-7	**Fluorene**	**109**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
100-01-6	4-Nitroaniline	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**297**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
120-12-7	**Anthracene**	**72.0**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**167**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
129-00-0	**Pyrene**	**177**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	166	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**85.3**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
218-01-9	**Chrysene**	**103**	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	66.6	334	ug/kg dry	1	10/30/15 06:08	10/30/15 20:39/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*41 %*	*30-130*		*10/30/15 06:08*	*10/30/15 20:39/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*42 %*	*30-130*		*10/30/15 06:08*	*10/30/15 20:39/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Nitrobenzene-d5				*36 %*	*30-130*		*10/30/15 06:08*	*10/30/15 20:39/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*38 %*	*30-130*		*10/30/15 06:08*	*10/30/15 20:39/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*46 %*	*30-130*		*10/30/15 06:08*	*10/30/15 20:39/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*42 %*	*30-130*		*10/30/15 06:08*	*10/30/15 20:39/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	13.3	13.3	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.66	2.66	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.32	1.32	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	66.6	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
11104-28-2	Aroclor-1221	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	33.2	66.6	ug/kg dry	1	11/04/15 09:45	11/04/15 18:51/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*83.6 %*	*30-150*		*11/04/15 09:45*	*11/04/15 18:51/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*80.3 %*	*30-150*		*11/04/15 09:45*	*11/04/15 18:51/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*86.1 %*	*30-150*		*11/04/15 09:45*	*11/04/15 18:51/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*88.6 %*	*30-150*		*11/04/15 09:45*	*11/04/15 18:51/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8180**	40.0	40.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-36-0	Antimony	ND	8.00	8.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-38-2	Arsenic	ND	2.00	2.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-39-3	**Barium**	**57.1**	40.0	40.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-41-7	Beryllium	ND	1.00	1.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	1.00	1.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-70-2	**Calcium**	**8690**	50.0	50.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-47-3	**Chromium**	**13.4**	4.00	4.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-48-4	Cobalt	ND	10.0	10.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-50-8	**Copper**	**21.0**	6.00	6.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7439-89-6	**Iron**	**13000**	50.0	50.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7439-92-1	**Lead**	**90.0**	2.00	2.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7439-95-4	**Magnesium**	**6420**	100	100	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/12/2015 09:12

Client ID: EP-11

Lab ID: 1501955-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7439-96-5	**Manganese**	**158**	4.00	4.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-02-0	**Nickel**	**14.2**	8.00	8.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-09-7	**Potassium**	**1100**	100	100	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7782-49-2	Selenium	ND	8.00	8.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-22-4	Silver	ND	1.00	1.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-23-5	**Sodium**	**557**	100	100	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-28-0	Thallium	ND	3.00	6.00	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**18.7**	10.0	10.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
7440-66-6	**Zinc**	**48.5**	12.0	12.0	mg/kg dry	1	10/30/15 08:41	10/30/15 14:07/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.150	0.150	mg/kg dry	1	10/30/15 08:00	10/30/15 14:13/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	2.00	2.00	mg/kg dry	1	11/03/15 10:10	11/03/15 15:07/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**50.0**	0.100	0.100	%	1	10/30/15 15:15	11/02/15 10:42/CLD	SM 2540 G	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1501955
P.O. #	

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-11	10/28/15 11:20	S		4	G	✓	✓	-01

PRES. CODE →
CONT. CODE →

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ~~ENCORE~~ PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable
COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: John Jones	Print Name: John Jones	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10 / 29 / 15	Time: 12:45	Date Received: 10 / 29 / 15	Time: 1540

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

16 November 2015 AAR Work Order: 1501974

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 11/02/2015 15:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-12	1501974-01	Soil	10/30/2015 11:00	11/02/2015 15:50

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

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Daniel Miguel, Technical Director

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	9.46	15.8	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	3.15	15.8	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
67-64-1	**Acetone**	**30.0**	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**25.8**	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
71-43-2	Benzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-88-3	**Toluene**	**2.79**	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
100-41-4	**Ethylbenzene**	**4.67**	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	
108-90-7	Chlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-38-3/106-4	**m,p-Xylenes**	**4.56**	3.15	6.31	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	J
95-47-6	**o-Xylene**	**3.88**	3.15	6.31	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	J
100-42-5	Styrene	ND	1.58	6.31	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
108-67-8	**1,3,5-Trimethylbenzene**	**2.15**	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	J
95-49-8	2-Chlorotoluene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
98-06-6	tert-Butylbenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
95-63-6	**1,2,4-Trimethylbenzene**	**3.44**	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	
135-98-8	sec-Butylbenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.58	3.15	ug/kg dry	1	11/05/15 15:34	11/05/15 15:34/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*108 %*	*70-130*		*11/05/15 15:34*	*11/05/15 15:34/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*97 %*	*70-130*		*11/05/15 15:34*	*11/05/15 15:34/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*75 %*	*70-130*		*11/05/15 15:34*	*11/05/15 15:34/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
108-95-2	Phenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
621-64-7	N-Nitroso-di-n-propylamine	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
67-72-1	Hexachloroethane	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
78-59-1	Isophorone	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	131	525	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**335**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	
106-47-8	4-Chloroaniline	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
91-57-6	**2-Methylnaphthylene**	**75.4**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
77-47-4	Hexachlorocyclopentadiene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
83-32-9	**Acenaphthene**	**242**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	52.5	525	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
132-64-9	**Dibenzofuran**	**148**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
606-20-2	2,6-Dinitrotoluene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
121-14-2	2,4-Dinitrotoluene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
86-73-7	**Fluorene**	**181**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
100-01-6	4-Nitroaniline	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**489**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	
120-12-7	**Anthracene**	**93.2**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**326**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	
129-00-0	**Pyrene**	**216**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
85-68-7	Butylbenzylphthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	131	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**77.1**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
218-01-9	**Chrysene**	**81.3**	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	52.5	263	ug/kg dry	1	11/04/15 12:21	11/05/15 21:01/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*56 %*	*30-130*		*11/04/15 12:21*	*11/05/15 21:01/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Phenol-d5				*69 %*	*30-130*		*11/04/15 12:21*	*11/05/15 21:01/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*53 %*	*30-130*		*11/04/15 12:21*	*11/05/15 21:01/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*53 %*	*30-130*		*11/04/15 12:21*	*11/05/15 21:01/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*84 %*	*30-130*		*11/04/15 12:21*	*11/05/15 21:01/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*61 %*	*30-130*		*11/04/15 12:21*	*11/05/15 21:01/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	10.5	10.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.10	2.10	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.04	1.04	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	52.5	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
12674-11-2	Aroclor-1016	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	26.2	52.5	ug/kg dry	1	11/06/15 05:59	11/06/15 20:18/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*94.3 %*	*30-150*		*11/06/15 05:59*	*11/06/15 20:18/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*98.2 %*	*30-150*		*11/06/15 05:59*	*11/06/15 20:18/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*86.8 %*	*30-150*		*11/06/15 05:59*	*11/06/15 20:18/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*110 %*	*30-150*		*11/06/15 05:59*	*11/06/15 20:18/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8820**	31.5	31.5	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-36-0	Antimony	ND	6.31	6.31	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.65**	1.58	1.58	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-39-3	**Barium**	**50.9**	31.5	31.5	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.789	0.789	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.789	0.789	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-70-2	**Calcium**	**4870**	39.4	39.4	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-47-3	**Chromium**	**14.0**	3.15	3.15	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-48-4	Cobalt	ND	7.89	7.89	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-50-8	**Copper**	**23.2**	4.73	4.73	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7439-89-6	**Iron**	**13700**	39.4	39.4	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7439-92-1	**Lead**	**22.4**	1.58	1.58	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/16/2015 13:27

Client ID: EP-12

Lab ID: 1501974-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7439-95-4	**Magnesium**	**5430**	78.9	78.9	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7439-96-5	**Manganese**	**161**	3.15	3.15	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-02-0	**Nickel**	**15.8**	6.31	6.31	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-09-7	**Potassium**	**1010**	78.9	78.9	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7782-49-2	Selenium	ND	6.31	6.31	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.789	0.789	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-23-5	**Sodium**	**395**	78.9	78.9	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.37	4.73	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**15.9**	7.89	7.89	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
7440-66-6	**Zinc**	**60.7**	9.46	9.46	mg/kg dry	1	11/05/15 06:45	11/05/15 13:34/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.118	0.118	mg/kg dry	1	11/04/15 07:58	11/04/15 14:57/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.58	1.58	mg/kg dry	1	11/03/15 10:10	11/03/15 15:07/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**63.4**	0.100	0.100	%	1	11/03/15 08:57	11/04/15 10:35/CLD	SM 2540 G	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1501974
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-12	10/30/15/11:00AM	S		4	G	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC ~~E = ENCORE~~ PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable.
COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: [illegible]	Print Name: [illegible]	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of:	Agent of: AAR
Date Received: 11/2/15 Time: 13:40		Date Received: 11/2/15 Time: 15:50	
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

18 November 2015 AAR Work Order: 1502015

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: E. 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 11/05/2015 16:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-13	1502015-01	Soil	11/04/2015 08:50	11/05/2015 16:25
EP-9b	1502015-02	Soil	11/04/2015 13:15	11/05/2015 16:25

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-13

Lab ID: 1502015-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	48.1	80.1	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	16.0	80.1	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
67-64-1	**Acetone**	**71.9**	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
74-87-3	Chloromethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
74-83-9	Bromomethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
75-00-3	Chloroethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
78-93-3	2-Butanone	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
67-66-3	Chloroform	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
71-43-2	Benzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-13

Lab ID: 1502015-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
108-88-3	Toluene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	16.0	32.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
95-47-6	o-Xylene	ND	16.0	32.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
100-42-5	Styrene	ND	8.01	32.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
75-25-2	Bromoform	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-13

Lab ID: 1502015-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	8.01	16.0	ug/kg dry	1	11/09/15 18:31	11/09/15 18:31/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*103 %*	*70-130*		*11/09/15 18:31*	*11/09/15 18:31/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*99 %*	*70-130*		*11/09/15 18:31*	*11/09/15 18:31/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*89 %*	*70-130*		*11/09/15 18:31*	*11/09/15 18:31/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
108-95-2	Phenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-13

Lab ID: 1502015-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
78-59-1	Isophorone	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	403	1620	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
83-32-9	**Acenaphthene**	**163**	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	162	1620	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-13

Lab ID: 1502015-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
84-66-2	Diethyl phthalate	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
86-73-7	Fluorene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**1240**	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	
120-12-7	**Anthracene**	**273**	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**1120**	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	
129-00-0	**Pyrene**	**1540**	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	403	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**536**	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
218-01-9	**Chrysene**	**638**	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
205-99-2	**Benzo[b]fluoranthene**	**361**	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
207-08-9	**Benzo[k]fluoranthene**	**371**	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
50-32-8	**Benzo[a]pyrene**	**421**	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
193-39-5	**Indeno(1,2,3-cd)pyrene**	**243**	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
53-70-3	Dibenzo(a,h)anthracene	ND	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	U
191-24-2	**Benzo[ghi]perylene**	**272**	162	811	ug/kg dry	1	11/10/15 11:59	11/11/15 18:39/JMM	EPA 8270	J
Surrogate: 2-Fluorophenol				*81 %*	*30-130*		*11/10/15 11:59*	*11/11/15 18:39/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-13

Lab ID: 1502015-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Phenol-d5				*92 %*	*30-130*		*11/10/15 11:59*	*11/11/15 18:39/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*86 %*	*30-130*		*11/10/15 11:59*	*11/11/15 18:39/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*87 %*	*30-130*		*11/10/15 11:59*	*11/11/15 18:39/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*101 %*	*30-130*		*11/10/15 11:59*	*11/11/15 18:39/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*124 %*	*30-130*		*11/10/15 11:59*	*11/11/15 18:39/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	32.3	32.3	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	6.46	6.46	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	3.20	3.20	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	162	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U

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1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-13

Lab ID: 1502015-01 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
EPA Method SW846 8081/8082										
12674-11-2	Aroclor-1016	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	80.6	162	ug/kg dry	1	11/10/15 05:32	11/12/15 17:03/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*102 %*	*30-150*		*11/10/15 05:32*	*11/12/15 17:03/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*85.8 %*	*30-150*		*11/10/15 05:32*	*11/12/15 17:03/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*90.3 %*	*30-150*		*11/10/15 05:32*	*11/12/15 17:03/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*83.5 %*	*30-150*		*11/10/15 05:32*	*11/12/15 17:03/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**3570**	97.1	97.1	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
7440-36-0	Antimony	ND	19.4	19.4	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-38-2	Arsenic	ND	4.85	4.85	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-39-3	Barium	ND	97.1	97.1	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-41-7	Beryllium	ND	2.43	2.43	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	2.43	2.43	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-70-2	**Calcium**	**22800**	121	121	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
7440-47-3	Chromium	ND	9.71	9.71	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-48-4	Cobalt	ND	24.3	24.3	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-50-8	**Copper**	**27.3**	14.6	14.6	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
7439-89-6	**Iron**	**9180**	121	121	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
7439-92-1	**Lead**	**10.2**	4.85	4.85	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-13

Lab ID: 1502015-01 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Total Metals by EPA Method SW846 6010										
7439-95-4	**Magnesium**	**10700**	243	243	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
7439-96-5	**Manganese**	**211**	9.71	9.71	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
7440-02-0	Nickel	ND	19.4	19.4	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-09-7	**Potassium**	**762**	243	243	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
7782-49-2	Selenium	ND	19.4	19.4	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-22-4	Silver	ND	2.43	2.43	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-23-5	**Sodium**	**3730**	243	243	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
7440-28-0	Thallium	ND	7.28	14.6	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-62-2	Vanadium	ND	24.3	24.3	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	U
7440-66-6	**Zinc**	**166**	29.1	29.1	mg/kg dry	1	11/09/15 08:47	11/09/15 19:03/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.364	0.364	mg/kg dry	1	11/09/15 07:46	11/09/15 15:32/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	4.85	4.85	mg/kg dry	1	11/10/15 10:00	11/11/15 16:14/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**20.6**	0.100	0.100	%	1	11/09/15 12:00	11/10/15 10:30/CLD	SM 2540 G	

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-9b

Lab ID: 1502015-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	13.8	22.9	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	4.59	22.9	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
67-64-1	Acetone	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-71-8	Dichlorodifluoromethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
78-93-3	2-Butanone	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
71-43-2	Benzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-9b

Lab ID: 1502015-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
108-88-3	Toluene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	4.59	9.17	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
95-47-6	o-Xylene	ND	4.59	9.17	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
100-42-5	Styrene	ND	2.29	9.17	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
98-82-8	**Isopropylbenzene**	**2.59**	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
103-65-1	**n-Propyl Benzene**	**4.54**	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	J
108-86-1	Bromobenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-9b

Lab ID: 1502015-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
98-06-6	tert-Butylbenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
95-63-6	**1,2,4-Trimethylbenzene**	**4.17**	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	J
135-98-8	sec-Butylbenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.29	4.59	ug/kg dry	1	11/09/15 20:06	11/09/15 20:06/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*107 %*	*70-130*		*11/09/15 20:06*	*11/09/15 20:06/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*97 %*	*70-130*		*11/09/15 20:06*	*11/09/15 20:06/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*83 %*	*70-130*		*11/09/15 20:06*	*11/09/15 20:06/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
108-95-2	Phenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-9b

Lab ID: 1502015-02 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
621-64-7	N-Nitroso-di-n-propylamine	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
67-72-1	Hexachloroethane	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
78-59-1	Isophorone	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	143	574	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**70.7**	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
83-32-9	**Acenaphthene**	**107**	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	57.4	574	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-9b

Lab ID: 1502015-02 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
121-14-2	2,4-Dinitrotoluene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
86-73-7	**Fluorene**	**103**	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	J
100-01-6	4-Nitroaniline	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**1240**	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
120-12-7	**Anthracene**	**250**	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**1020**	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
129-00-0	**Pyrene**	**1440**	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	143	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**498**	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
117-81-7	bis(2-ethylhexyl)phthalate	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
218-01-9	**Chrysene**	**664**	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
117-84-0	Di-n-octyl phthalate	ND	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	U
205-99-2	**Benzo[b]fluoranthene**	**342**	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
207-08-9	**Benzo[k]fluoranthene**	**320**	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
50-32-8	**Benzo[a]pyrene**	**393**	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**209**	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	J
53-70-3	**Dibenzo(a,h)anthracene**	**97.7**	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	J
191-24-2	**Benzo[ghi]perylene**	**244**	57.4	288	ug/kg dry	1	11/10/15 11:59	11/11/15 19:25/JMM	EPA 8270	J

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-9b

Lab ID: 1502015-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: 2-Fluorophenol		*85 %*		*30-130*			*11/10/15 11:59*	*11/11/15 19:25/JMM*	*EPA 8270*	
Surrogate: Phenol-d5		*94 %*		*30-130*			*11/10/15 11:59*	*11/11/15 19:25/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5		*90 %*		*30-130*			*11/10/15 11:59*	*11/11/15 19:25/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl		*91 %*		*30-130*			*11/10/15 11:59*	*11/11/15 19:25/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol		*99 %*		*30-130*			*11/10/15 11:59*	*11/11/15 19:25/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14		*127 %*		*30-130*			*11/10/15 11:59*	*11/11/15 19:25/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	11.5	11.5	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.29	2.29	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.14	1.14	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-9b

Lab ID: 1502015-02 (Soil)

Accredited Analytical Resources LLC

EPA Method SW846 8081/8082

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
8001-35-2	Toxaphene	ND	57.4	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	28.6	57.4	ug/kg dry	1	11/10/15 05:32	11/12/15 17:34/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*99.5 %*	*30-150*		*11/10/15 05:32*	*11/12/15 17:34/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*84.4 %*	*30-150*		*11/10/15 05:32*	*11/12/15 17:34/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*90.2 %*	*30-150*		*11/10/15 05:32*	*11/12/15 17:34/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*81.1 %*	*30-150*		*11/10/15 05:32*	*11/12/15 17:34/JAM*	*EPA 8081/8082*	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-9b

Lab ID: 1502015-02 (Soil)

Accredited Analytical Resources LLC

Total Metals by EPA Method SW846 6010

Sample Prepared by Method:EPA 3050B

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7429-90-5	**Aluminum**	**9520**	34.5	34.5	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-36-0	Antimony	ND	6.90	6.90	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.41**	1.72	1.72	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-39-3	**Barium**	**63.8**	34.5	34.5	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.862	0.862	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.862	0.862	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	U
7440-70-2	**Calcium**	**10200**	43.1	43.1	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-47-3	**Chromium**	**16.6**	3.45	3.45	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-48-4	Cobalt	ND	8.62	8.62	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	U
7440-50-8	**Copper**	**23.2**	5.17	5.17	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7439-89-6	**Iron**	**15400**	43.1	43.1	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7439-92-1	**Lead**	**31.5**	1.72	1.72	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7439-95-4	**Magnesium**	**7330**	86.2	86.2	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7439-96-5	**Manganese**	**274**	3.45	3.45	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-02-0	**Nickel**	**14.7**	6.90	6.90	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-09-7	**Potassium**	**1490**	86.2	86.2	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7782-49-2	Selenium	ND	6.90	6.90	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.862	0.862	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	U
7440-23-5	**Sodium**	**447**	86.2	86.2	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.59	5.17	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**25.3**	8.62	8.62	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	
7440-66-6	**Zinc**	**62.4**	10.3	10.3	mg/kg dry	1	11/09/15 08:47	11/09/15 19:08/LIT	EPA 6010	

Total Mercury by SW846 7471

Sample Prepared by Method:EPA 7471A

7439-97-6	Mercury	ND	0.129	0.129	mg/kg dry	1	11/09/15 07:46	11/09/15 15:34/PRT	EPA 7471	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/18/2015 15:39

Client ID: EP-9b

Lab ID: 1502015-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.72	1.72	mg/kg dry	1	11/10/15 10:00	11/11/15 16:14/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**58.0**	0.100	0.100	%	1	11/09/15 12:00	11/10/15 10:30/CLD	SM 2540 G	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	E. 138th Street, Bronx NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3066
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brnk.env

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502015
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-13	11/4/15/08:50	S		4	G	✓	✓	-01
EP-9b	11/4/15/13:15	S		4	G	✓	✓	-02

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC ~~E = ENCORE~~ PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable
COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: J. Mitaus	Print Name:	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 11 / 05 / 15	Time: 11:40	Date Received: 11 / 5 / 15	Time: 1625

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

17 November 2015 AAR Work Order: 1502031

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 11/10/2015 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-14	1502031-01	Soil	11/09/2015 10:40	11/10/2015 14:15
EP-15	1502031-02	Soil	11/09/2015 10:50	11/10/2015 14:15
EP-16	1502031-03	Soil	11/09/2015 11:10	11/10/2015 14:15

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
E	Concentration exceeds calibration range
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

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Daniel Miguel, Technical Director

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-14

Lab ID: 1502031-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	13.6	22.7	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	4.54	22.7	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
67-64-1	**Acetone**	**13.4**	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**3.22**	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	B, J
156-60-5	trans-1,2-Dichloroethene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
78-93-3	2-Butanone	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
71-43-2	Benzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-14

Lab ID: 1502031-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
108-88-3	Toluene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	4.54	9.07	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
95-47-6	o-Xylene	ND	4.54	9.07	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
100-42-5	Styrene	ND	2.27	9.07	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-14

Lab ID: 1502031-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.27	4.54	ug/kg dry	1	11/17/15 14:17	11/17/15 14:17/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*107 %*	*70-130*		*11/17/15 14:17*	*11/17/15 14:17/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*105 %*	*70-130*		*11/17/15 14:17*	*11/17/15 14:17/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*92 %*	*70-130*		*11/17/15 14:17*	*11/17/15 14:17/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
108-95-2	Phenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-14

Lab ID: 1502031-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
78-59-1	Isophorone	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	132	529	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**252**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
91-57-6	**2-Methylnaphthylene**	**87.4**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
77-47-4	Hexachlorocyclopentadiene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
83-32-9	**Acenaphthene**	**139**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	52.9	529	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
132-64-9	**Dibenzofuran**	**130**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
606-20-2	2,6-Dinitrotoluene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-14

Lab ID: 1502031-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
84-66-2	Diethyl phthalate	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
86-73-7	**Fluorene**	**204**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
100-01-6	4-Nitroaniline	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**1370**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
120-12-7	**Anthracene**	**335**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
84-74-2	Di-n-butyl phthalate	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**1440**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
129-00-0	**Pyrene**	**1100**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	132	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**539**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
117-81-7	**bis(2-ethylhexyl)phthalate**	**193**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
218-01-9	**Chrysene**	**526**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
117-84-0	Di-n-octyl phthalate	ND	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	U
205-99-2	**Benzo[b]fluoranthene**	**492**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
207-08-9	**Benzo[k]fluoranthene**	**399**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
50-32-8	**Benzo[a]pyrene**	**504**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**202**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
53-70-3	**Dibenzo(a,h)anthracene**	**111**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
191-24-2	**Benzo[ghi]perylene**	**201**	52.9	265	ug/kg dry	1	11/13/15 05:53	11/14/15 01:44/JMM	EPA 8270	J
Surrogate: 2-Fluorophenol				*68 %*	*30-130*		*11/13/15 05:53*	*11/14/15 01:44/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-14

Lab ID: 1502031-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Phenol-d5				*87 %*	*30-130*		*11/13/15 05:53*	*11/14/15 01:44/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*66 %*	*30-130*		*11/13/15 05:53*	*11/14/15 01:44/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*63 %*	*30-130*		*11/13/15 05:53*	*11/14/15 01:44/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*95 %*	*30-130*		*11/13/15 05:53*	*11/14/15 01:44/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*67 %*	*30-130*		*11/13/15 05:53*	*11/14/15 01:44/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	10.6	10.6	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.11	2.11	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.05	1.05	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	52.9	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-14

Lab ID: 1502031-01 (Soil)

Accredited Analytical Resources LLC

EPA Method SW846 8081/8082

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
12674-11-2	Aroclor-1016	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	26.3	52.9	ug/kg dry	1	11/11/15 05:48	11/13/15 17:17/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*81.9 %*	*30-150*		*11/11/15 05:48*	*11/13/15 17:17/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*78.2 %*	*30-150*		*11/11/15 05:48*	*11/13/15 17:17/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*87.5 %*	*30-150*		*11/11/15 05:48*	*11/13/15 17:17/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*83.0 %*	*30-150*		*11/11/15 05:48*	*11/13/15 17:17/JAM*	*EPA 8081/8082*	

Total Metals by EPA Method SW846 6010

Sample Prepared by Method:EPA 3050B

7429-90-5	**Aluminum**	**8800**	31.7	31.7	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-36-0	Antimony	ND	6.35	6.35	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.88**	1.59	1.59	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-39-3	**Barium**	**65.7**	31.7	31.7	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.794	0.794	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.794	0.794	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	U
7440-70-2	**Calcium**	**9570**	39.7	39.7	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-47-3	**Chromium**	**15.8**	3.17	3.17	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-48-4	Cobalt	ND	7.94	7.94	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	U
7440-50-8	**Copper**	**30.7**	4.76	4.76	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7439-89-6	**Iron**	**15300**	39.7	39.7	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7439-92-1	**Lead**	**58.0**	1.59	1.59	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-14

Lab ID: 1502031-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7439-95-4	**Magnesium**	**7320**	79.4	79.4	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7439-96-5	**Manganese**	**239**	3.17	3.17	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-02-0	**Nickel**	**15.3**	6.35	6.35	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-09-7	**Potassium**	**1510**	79.4	79.4	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7782-49-2	Selenium	ND	6.35	6.35	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.794	0.794	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	U
7440-23-5	**Sodium**	**412**	79.4	79.4	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.38	4.76	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**21.2**	7.94	7.94	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
7440-66-6	**Zinc**	**107**	9.52	9.52	mg/kg dry	1	11/11/15 13:36	11/12/15 14:07/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.119	0.119	mg/kg dry	1	11/11/15 11:28	11/11/15 15:13/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.59	1.59	mg/kg dry	1	11/16/15 08:52	11/16/15 17:00/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**63.0**	0.100	0.100	%	1	11/12/15 09:19	11/13/15 10:00/CLD	SM 2540 G	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-15

Lab ID: 1502031-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	10.3	17.2	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	3.45	17.2	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
67-64-1	**Acetone**	**344**	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
75-15-0	**Carbon disulfide**	**2.59**	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	J
75-09-2	Methylene Chloride	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
78-93-3	**2-Butanone**	**84.8**	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
71-43-2	Benzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-15

Lab ID: 1502031-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
108-88-3	Toluene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	3.45	6.90	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
95-47-6	o-Xylene	ND	3.45	6.90	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
100-42-5	Styrene	ND	1.72	6.90	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-15

Lab ID: 1502031-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.72	3.45	ug/kg dry	1	11/16/15 17:23	11/16/15 17:23/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*110 %*	*70-130*		*11/16/15 17:23*	*11/16/15 17:23/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*99 %*	*70-130*		*11/16/15 17:23*	*11/16/15 17:23/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*50 %*	*70-130*	*	*11/16/15 17:23*	*11/16/15 17:23/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
108-95-2	Phenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-15

Lab ID: 1502031-02 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
78-59-1	Isophorone	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	143	574	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	57.4	574	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-15

Lab ID: 1502031-02 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
86-73-7	Fluorene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**338**	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	
120-12-7	**Anthracene**	**84.2**	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**532**	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	
129-00-0	**Pyrene**	**453**	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	143	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**226**	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
218-01-9	**Chrysene**	**236**	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
205-99-2	**Benzo[b]fluoranthene**	**249**	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	J
207-08-9	**Benzo[k]fluoranthene**	**200**	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	J
50-32-8	**Benzo[a]pyrene**	**245**	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	J
193-39-5	**Indeno(1,2,3-cd)pyrene**	**87.9**	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	J
53-70-3	Dibenzo(a,h)anthracene	ND	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	U
191-24-2	**Benzo[ghi]perylene**	**86.1**	57.4	288	ug/kg dry	1	11/13/15 05:53	11/14/15 02:29/JMM	EPA 8270	J
Surrogate: 2-Fluorophenol				*68 %*	*30-130*		*11/13/15 05:53*	*11/14/15 02:29/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*86 %*	*30-130*		*11/13/15 05:53*	*11/14/15 02:29/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-15

Lab ID: 1502031-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Nitrobenzene-d5				*66 %*	*30-130*		*11/13/15 05:53*	*11/14/15 02:29/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*64 %*	*30-130*		*11/13/15 05:53*	*11/14/15 02:29/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*97 %*	*30-130*		*11/13/15 05:53*	*11/14/15 02:29/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*69 %*	*30-130*		*11/13/15 05:53*	*11/14/15 02:29/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	11.5	11.5	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.29	2.29	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.14	1.14	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	57.4	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-15

Lab ID: 1502031-02 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
EPA Method SW846 8081/8082										
11104-28-2	Aroclor-1221	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	28.6	57.4	ug/kg dry	1	11/11/15 05:48	11/13/15 17:48/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*77.4 %*	*30-150*		*11/11/15 05:48*	*11/13/15 17:48/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*72.7 %*	*30-150*		*11/11/15 05:48*	*11/13/15 17:48/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*88.1 %*	*30-150*		*11/11/15 05:48*	*11/13/15 17:48/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*89.6 %*	*30-150*		*11/11/15 05:48*	*11/13/15 17:48/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**12500**	34.5	34.5	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-36-0	Antimony	ND	6.90	6.90	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**4.25**	1.72	1.72	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-39-3	**Barium**	**72.1**	34.5	34.5	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.862	0.862	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.862	0.862	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	U
7440-70-2	**Calcium**	**9880**	43.1	43.1	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-47-3	**Chromium**	**21.2**	3.45	3.45	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-48-4	Cobalt	ND	8.62	8.62	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	U
7440-50-8	**Copper**	**35.1**	5.17	5.17	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7439-89-6	**Iron**	**21600**	43.1	43.1	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7439-92-1	**Lead**	**74.3**	1.72	1.72	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7439-95-4	**Magnesium**	**7480**	86.2	86.2	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-15

Lab ID: 1502031-02 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Total Metals by EPA Method SW846 6010										
7439-96-5	**Manganese**	**298**	3.45	3.45	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-02-0	**Nickel**	**16.5**	6.90	6.90	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-09-7	**Potassium**	**1690**	86.2	86.2	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7782-49-2	Selenium	ND	6.90	6.90	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.862	0.862	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	U
7440-23-5	**Sodium**	**1130**	86.2	86.2	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.59	5.17	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**29.7**	8.62	8.62	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
7440-66-6	**Zinc**	**130**	10.3	10.3	mg/kg dry	1	11/11/15 13:36	11/12/15 14:12/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.129	0.129	mg/kg dry	1	11/11/15 11:28	11/11/15 15:15/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.72	1.72	mg/kg dry	1	11/16/15 08:52	11/16/15 17:00/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**58.0**	0.100	0.100	%	1	11/12/15 09:19	11/13/15 10:00/CLD	SM 2540 G	

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-15

Lab ID: 1502031-02RE1 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	17.4	29.0	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	5.81	29.0	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
67-64-1	**Acetone**	**36.0**	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
74-87-3	Chloromethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
74-83-9	Bromomethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
75-00-3	Chloroethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
75-15-0	**Carbon disulfide**	**9.14**	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	
75-09-2	Methylene Chloride	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
78-93-3	2-Butanone	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
67-66-3	Chloroform	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
71-43-2	Benzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-15

Lab ID: 1502031-02RE1 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
108-88-3	Toluene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	5.81	11.6	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
95-47-6	o-Xylene	ND	5.81	11.6	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
100-42-5	Styrene	ND	2.90	11.6	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
75-25-2	Bromoform	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-15

Lab ID: 1502031-02RE1 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.90	5.81	ug/kg dry	1	11/17/15 14:46	11/17/15 14:46/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*116 %*	*70-130*		*11/17/15 14:46*	*11/17/15 14:46/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*102 %*	*70-130*		*11/17/15 14:46*	*11/17/15 14:46/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*68 %*	*70-130*	*	*11/17/15 14:46*	*11/17/15 14:46/SG*	*EPA 8260*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-16

Lab ID: 1502031-03 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	7.13	11.9	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.38	11.9	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
67-64-1	**Acetone**	**50.2**	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
71-43-2	Benzene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-16

Lab ID: 1502031-03 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
108-88-3	Toluene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
100-41-4	**Ethylbenzene**	**3.69**	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
108-90-7	Chlorobenzene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
108-38-3/106-4	**m,p-Xylenes**	**6.90**	2.38	4.75	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
95-47-6	**o-Xylene**	**13.1**	2.38	4.75	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
100-42-5	Styrene	ND	1.19	4.75	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
98-82-8	**Isopropylbenzene**	**9.39**	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
103-65-1	**n-Propyl Benzene**	**18.3**	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
108-86-1	Bromobenzene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
108-67-8	**1,3,5-Trimethylbenzene**	**29.7**	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
95-49-8	2-Chlorotoluene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-16

Lab ID: 1502031-03 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
98-06-6	**tert-Butylbenzene**	**1.35**	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	J
95-63-6	**1,2,4-Trimethylbenzene**	**19.0**	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
135-98-8	**sec-Butylbenzene**	**5.83**	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
99-87-6	**p-Isopropyltoluene**	**6.88**	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
541-73-1	1,3-Dichlorobenzene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
104-51-8	**n-Butyl Benzene**	**12.6**	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	
95-50-1	1,2-Dichlorobenzene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.19	2.38	ug/kg dry	1	11/16/15 17:52	11/16/15 17:52/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*116 %*	*70-130*		*11/16/15 17:52*	*11/16/15 17:52/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*98 %*	*70-130*		*11/16/15 17:52*	*11/16/15 17:52/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*106 %*	*70-130*		*11/16/15 17:52*	*11/16/15 17:52/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
108-95-2	Phenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-16

Lab ID: 1502031-03 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
106-44-5	3 & 4-Methylphenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
67-72-1	Hexachloroethane	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
78-59-1	Isophorone	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	98.6	395	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**521**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
106-47-8	4-Chloroaniline	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
91-57-6	**2-Methylnaphthylene**	**706**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
77-47-4	Hexachlorocyclopentadiene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
208-96-8	**Acenaphthylene**	**47.8**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	J
99-09-2	3-Nitroaniline	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
83-32-9	**Acenaphthene**	**310**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
51-28-5	2,4-Dinitrophenol	ND	39.5	395	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
132-64-9	**Dibenzofuran**	**162**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	J

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-16

Lab ID: 1502031-03 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
606-20-2	2,6-Dinitrotoluene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
86-73-7	**Fluorene**	**336**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
100-01-6	4-Nitroaniline	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**2310**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
120-12-7	**Anthracene**	**514**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
84-74-2	**Di-n-butyl phthalate**	**124**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	J
206-44-0	**Fluoranthene**	**2500**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
129-00-0	**Pyrene**	**2170**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	98.6	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**1030**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
117-81-7	**bis(2-ethylhexyl)phthalate**	**61.7**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	J
218-01-9	**Chrysene**	**1090**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
117-84-0	Di-n-octyl phthalate	ND	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	U
205-99-2	**Benzo[b]fluoranthene**	**956**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
207-08-9	**Benzo[k]fluoranthene**	**988**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
50-32-8	**Benzo[a]pyrene**	**1030**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**303**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
53-70-3	**Dibenzo(a,h)anthracene**	**128**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	J

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-16

Lab ID: 1502031-03 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Semivolatile Organic Compounds EPA Method SW846 8270										
191-24-2	**Benzo[ghi]perylene**	**277**	39.5	198	ug/kg dry	1	11/13/15 05:53	11/14/15 03:14/JMM	EPA 8270	
Surrogate: 2-Fluorophenol				*69 %*	*30-130*		*11/13/15 05:53*	*11/14/15 03:14/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*85 %*	*30-130*		*11/13/15 05:53*	*11/14/15 03:14/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*56 %*	*30-130*		*11/13/15 05:53*	*11/14/15 03:14/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*60 %*	*30-130*		*11/13/15 05:53*	*11/14/15 03:14/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*87 %*	*30-130*		*11/13/15 05:53*	*11/14/15 03:14/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*63 %*	*30-130*		*11/13/15 05:53*	*11/14/15 03:14/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	7.91	7.91	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.58	1.58	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-16

Lab ID: 1502031-03 (Soil)

Accredited Analytical Resources LLC

EPA Method SW846 8081/8082

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
5566-34-7	gamma-Chlordane	ND	0.784	0.784	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	39.5	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	19.7	39.5	ug/kg dry	1	11/11/15 05:48	11/13/15 18:19/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*77.1 %*	*30-150*		*11/11/15 05:48*	*11/13/15 18:19/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*76.1 %*	*30-150*		*11/11/15 05:48*	*11/13/15 18:19/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*84.5 %*	*30-150*		*11/11/15 05:48*	*11/13/15 18:19/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*99.3 %*	*30-150*		*11/11/15 05:48*	*11/13/15 18:19/JAM*	*EPA 8081/8082*	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-16

Lab ID: 1502031-03 (Soil)

Accredited Analytical Resources LLC

Total Metals by EPA Method SW846 6010

Sample Prepared by Method:EPA 3050B

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7429-90-5	**Aluminum**	**11300**	23.8	23.8	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-36-0	Antimony	ND	4.75	4.75	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**3.66**	1.19	1.19	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-39-3	**Barium**	**79.6**	23.8	23.8	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.594	0.594	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.594	0.594	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	U
7440-70-2	**Calcium**	**13400**	29.7	29.7	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-47-3	**Chromium**	**21.4**	2.38	2.38	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-48-4	**Cobalt**	**8.44**	5.94	5.94	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-50-8	**Copper**	**61.0**	3.56	3.56	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7439-89-6	**Iron**	**22200**	29.7	29.7	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7439-92-1	**Lead**	**149**	1.19	1.19	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7439-95-4	**Magnesium**	**6940**	59.4	59.4	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7439-96-5	**Manganese**	**412**	2.38	2.38	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-02-0	**Nickel**	**14.7**	4.75	4.75	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-09-7	**Potassium**	**1580**	59.4	59.4	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7782-49-2	Selenium	ND	4.75	4.75	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.594	0.594	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	U
7440-23-5	**Sodium**	**173**	59.4	59.4	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.78	3.56	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**32.0**	5.94	5.94	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	
7440-66-6	**Zinc**	**158**	7.13	7.13	mg/kg dry	1	11/11/15 13:36	11/12/15 14:27/LIT	EPA 6010	

Total Mercury by SW846 7471

Sample Prepared by Method:EPA 7471A

7439-97-6	**Mercury**	**0.158**	0.0891	0.0891	mg/kg dry	1	11/11/15 11:28	11/11/15 15:17/PRT	EPA 7471	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/17/2015 15:37

Client ID: EP-16

Lab ID: 1502031-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.19	1.19	mg/kg dry	1	11/16/15 08:52	11/16/15 17:00/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**84.2**	0.100	0.100	%	1	11/12/15 09:19	11/13/15 10:00/CLD	SM 2540 G	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm and Sharrison@brinkenv
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502031
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-14	11/9/15/10:40	S		4	G	✓	✓	-01
EP-15	11/9/15/10:50	S		4	G	✓	✓	-02
EP-16	11/9/15/11:10	S		4	G	✓	✓	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 1 week
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable. COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: John Ingram	Print Name: John Ingram	Print Name: K. Muniz
Signature: Monica Norton	Signature: [signature]	Signature: [signature]	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 11/10/15	Time: 10:15	Date Received: 11/10/15	Time: 1:45
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	

Accredited Analytical Resources, LLC.

25 November 2015 AAR Work Order: 1502101

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: E. 138th Street, Bronx, NY; 10BR188

Enclosed are the results of analyses for samples received by the laboratory on 11/18/2015 16:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/25/2015 14:41

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-17	1502101-01	Soil	11/17/2015 11:50	11/18/2015 16:10

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
E	Concentration exceeds calibration range
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/25/2015 14:41

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/25/2015 14:41

Client ID: EP-17

Lab ID: 1502101-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	25.0	41.7	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	8.35	41.7	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
67-64-1	**Acetone**	**73.0**	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
74-87-3	Chloromethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
74-83-9	Bromomethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
75-00-3	Chloroethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**6.26**	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	J
156-60-5	trans-1,2-Dichloroethene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
78-93-3	2-Butanone	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
67-66-3	Chloroform	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
71-43-2	Benzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/25/2015 14:41

Client ID: EP-17

Lab ID: 1502101-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
108-88-3	Toluene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	8.35	16.7	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
95-47-6	o-Xylene	ND	8.35	16.7	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
100-42-5	Styrene	ND	4.17	16.7	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
75-25-2	Bromoform	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/25/2015 14:41

Client ID: EP-17

Lab ID: 1502101-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	**1,2,4-Trimethylbenzene**	**6.72**	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	J
135-98-8	sec-Butylbenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.17	8.35	ug/kg dry	1	11/25/15 13:31	11/25/15 13:31/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*119 %*	*70-130*		*11/25/15 13:31*	*11/25/15 13:31/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*109 %*	*70-130*		*11/25/15 13:31*	*11/25/15 13:31/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*98 %*	*70-130*		*11/25/15 13:31*	*11/25/15 13:31/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
108-95-2	Phenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U

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1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/25/2015 14:41

Client ID: EP-17

Lab ID: 1502101-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
78-59-1	Isophorone	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
65-85-0	**Benzoic acid**	**314**	157	628	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
111-91-1	bis(2-chloroethoxy)methane	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**132**	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
83-32-9	**Acenaphthene**	**112**	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	62.8	628	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U

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1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/25/2015 14:41

Client ID: EP-17

Lab ID: 1502101-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
84-66-2	Diethyl phthalate	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
86-73-7	**Fluorene**	**91.4**	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
100-01-6	4-Nitroaniline	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**438**	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	
120-12-7	**Anthracene**	**106**	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**580**	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	
129-00-0	**Pyrene**	**431**	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	157	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**231**	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
218-01-9	**Chrysene**	**239**	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	U
205-99-2	**Benzo[b]fluoranthene**	**224**	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
207-08-9	**Benzo[k]fluoranthene**	**201**	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
50-32-8	**Benzo[a]pyrene**	**247**	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
193-39-5	**Indeno(1,2,3-cd)pyrene**	**132**	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
53-70-3	**Dibenzo(a,h)anthracene**	**70.0**	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
191-24-2	**Benzo[ghi]perylene**	**130**	62.8	315	ug/kg dry	1	11/23/15 07:36	11/23/15 20:36/JMM	EPA 8270	J
Surrogate: 2-Fluorophenol				*70 %*	*30-130*		*11/23/15 07:36*	*11/23/15 20:36/JMM*	*EPA 8270*	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/25/2015 14:41

Client ID: EP-17

Lab ID: 1502101-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Phenol-d5				*85 %*	*30-130*		*11/23/15 07:36*	*11/23/15 20:36/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*66 %*	*30-130*		*11/23/15 07:36*	*11/23/15 20:36/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*62 %*	*30-130*		*11/23/15 07:36*	*11/23/15 20:36/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*100 %*	*30-130*		*11/23/15 07:36*	*11/23/15 20:36/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*63 %*	*30-130*		*11/23/15 07:36*	*11/23/15 20:36/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	12.6	12.6	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	2.51	2.51	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	1.25	1.25	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	62.8	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/25/2015 14:41

Client ID: EP-17

Lab ID: 1502101-01 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
EPA Method SW846 8081/8082										
12674-11-2	Aroclor-1016	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	31.3	62.8	ug/kg dry	1	11/19/15 12:05	11/20/15 23:45/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*78.8 %*	*30-150*		*11/19/15 12:05*	*11/20/15 23:45/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*85.4 %*	*30-150*		*11/19/15 12:05*	*11/20/15 23:45/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*74.3 %*	*30-150*		*11/19/15 12:05*	*11/20/15 23:45/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*82.6 %*	*30-150*		*11/19/15 12:05*	*11/20/15 23:45/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8580**	37.7	37.7	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-36-0	Antimony	ND	7.55	7.55	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**3.28**	1.89	1.89	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-39-3	**Barium**	**60.1**	37.7	37.7	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.943	0.943	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.943	0.943	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	U
7440-70-2	**Calcium**	**10200**	47.2	47.2	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-47-3	**Chromium**	**15.0**	3.77	3.77	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-48-4	Cobalt	ND	9.43	9.43	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	U
7440-50-8	**Copper**	**21.7**	5.66	5.66	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7439-89-6	**Iron**	**19200**	47.2	47.2	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7439-92-1	**Lead**	**39.2**	1.89	1.89	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: E. 138th Street, Bronx, NY; 10BR188	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	11/25/2015 14:41

Client ID: EP-17

Lab ID: 1502101-01 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Total Metals by EPA Method SW846 6010										
7439-95-4	**Magnesium**	**7530**	94.3	94.3	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7439-96-5	**Manganese**	**234**	3.77	3.77	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-02-0	**Nickel**	**13.2**	7.55	7.55	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-09-7	**Potassium**	**1190**	94.3	94.3	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7782-49-2	Selenium	ND	7.55	7.55	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.943	0.943	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	U
7440-23-5	**Sodium**	**1140**	94.3	94.3	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.83	5.66	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**20.7**	9.43	9.43	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
7440-66-6	**Zinc**	**55.7**	11.3	11.3	mg/kg dry	1	11/19/15 10:20	11/19/15 19:57/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.142	0.142	mg/kg dry	1	11/23/15 09:25	11/23/15 15:52/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.89	1.89	mg/kg dry	1	11/23/15 08:59	11/23/15 15:30/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**53.0**	0.100	0.100	%	1	11/23/15 10:00	11/24/15 09:30/CLD	SM 2540 G	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	E 138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm + Sean Harrison
EMAIL FOR INVOICE:	dharm@brink.env + sharrison@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1502101
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-17	11/17/15/11:50	S		4	G			-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. (OTHER) 1 week
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ (FULL) X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B data deliverable. Please complete hardcopy report by November 25th, 2015.
COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: J. Muñoz	Print Name: J. Muñoz	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature:
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 11 / 18 / 15	Time: 12:20	Date Received: 11 / 18 / 15	Time: 1610

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1502312

Client Sample ID:	Lab Sample ID:
Cr-1	1502312-01
Cr-2	1502312-02
Cr-3	1502312-03

This data has been reviewed and accepted by:

Daniel Miguel 01/08/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 3 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street, Bronx, NY) on 12/22/2015 1:50:00 PM.

All analyses were performed within the required holding time.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Wet Chemistry:
Percent Solids by SM 2540 G
Hexavalent Chromium by 3060A/7196A

Accredited Analytical Resources, LLC.

Internal Chain of Custody

1502312-01 (A)	*Out*	*In*
Wets	12/23/15 8:47 by CLD	12/23/15 12:02 by CLD
Wets	12/28/15 8:56 by HTW	12/28/15 10:00 by HTW
1502312-02 (A)	*Out*	*In*
Wets	12/23/15 8:47 by CLD	12/23/15 12:02 by CLD
Wets	12/28/15 8:56 by HTW	12/28/15 10:00 by HTW
1502312-03 (A)	*Out*	*In*
Wets	12/23/15 8:47 by CLD	12/23/15 12:02 by CLD
Wets	12/28/15 8:56 by HTW	12/28/15 10:00 by HTW

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502312**

Received: 12/22/15 13:50

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street, Bronx, NY
CONTACT:	Doug Harm / Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	DH/SH
EMAIL FOR INVOICE:	dharm@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502312
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	Hex Chrom	Tri Chrom	AAR SAMPLE #
Cr-1	12/22/15 11:38	S		1	G	X	X	-01
Cr-2	12/22/15 11:42	S		1	G	X	X	-02
Cr-3	12/22/15 11:46	S		1	G	X	X	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE

PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Please provide NYSDEC Category B data deliverable. Hard copy report due 1/11/2016.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Sean Harrison SIGN:

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Sean Harrison	Print Name: K. Muniz	Print Name:	Print Name:
Signature:	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/22/15 Time: 1350		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Cr-1	1502312-01	Soil	12/22/2015 11:38	12/22/2015 13:50
Cr-2	1502312-02	Soil	12/22/2015 11:42	12/22/2015 13:50
Cr-3	1502312-03	Soil	12/22/2015 11:46	12/22/2015 13:50

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

METALS

Accredited Analytical Resources, LLC.

METALS SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Cr-1
Lab Sample ID: 1502312-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502312

Date Sampled:	12/22/15 11:38	Matrix:	Soil
Percent Solids:	81.20	File ID:	122815A-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7440-47-3	Chromium	9.75	2.46	2.46	1		12/24/15 08:18	EPA 3050B	12/28/15 11:42 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Cr-2
Lab Sample ID: 1502312-02
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502312

Date Sampled:	12/22/15 11:42	Matrix:	Soil
Percent Solids:	81.20	File ID:	122815A-024

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7440-47-3	Chromium	13.1	2.46	2.46	1		12/24/15 08:18	EPA 3050B	12/28/15 11:47 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Cr-3
Lab Sample ID: 1502312-03
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502312

Date Sampled:	12/22/15 11:46	Matrix:	Soil
Percent Solids:	80.00	File ID:	122815A-025

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7440-47-3	Chromium	9.55	2.50	2.50	1		12/24/15 08:18	EPA 3050B	12/28/15 11:52 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS QC SUMMARY

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502312
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5L2404	Preparation:	EPA 3050B
% Solids:	93.00	Laboratory ID:	B5L2404-MS1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Chromium	269	5.58	281	102	75 - 125

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Chromium	269	280	102	0.268	20	75 - 125

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 6010

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502312**

Matrix:	Solid	Prep Method:	EPA 3050B
Prep Batch:	B5L2404	Lab Sample ID:	B5L2404-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Chromium	250	256	102	85 - 115

* Values outside of QC limits

POST DIGEST SPIKE SAMPLE RECOVERY

1502322-02

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502312
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Matrix:	Solid	Laboratory ID:	B5L2404-PS1
Batch:	B5L2404	Analysis:	EPA 6010
Preparation:	EPA 3050B	Initial/Final:	0.2 g / 10 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Chromium	4970	104	5000	97.3	80 - 120

SAMPLE EXTRACTION DATA

Prep Method: EPA 3050B-EPA 6010

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [g]	Final [mL]	Dilution	% Solids	Notes	Date
1502312-01 [Cr-1]	B5L2404	1.00/50.00	1.00	50.0	1.00	81.20		12/24/2015
1502312-02 [Cr-2]	B5L2404	1.00/50.00	1.00	50.0	1.00	81.20		12/24/2015
1502312-03 [Cr-3]	B5L2404	1.00/50.00	1.00	50.0	1.00	80.00		12/24/2015

Accredited Analytical Resources, LLC.

METALS CALIBRATION DATA

METHOD DETECTION AND REPORTING LIMITS

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502312

Matrix:	Solid	Instrument:	Thermo iTEVA

Analyte	MDL	MRL	Units	Method
Chromium	2.00	2.00	mg/kg	EPA 6010

Accredited Analytical Resources, LLC.

ANALYSIS SEQUENCE SUMMARY

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY

Sequence:	S5L2802	Instrument:	Thermo iTEVA
Calibration:	UNASSIGNED		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	S5L2802-ICV1	122815A-005	12/28/15 10:11
Initial Cal Blank	S5L2802-ICB1	122815A-006	12/28/15 10:16
Instrument RL Check	S5L2802-CRL1	122815A-007	12/28/15 10:22
Interference Check A	S5L2802-IFA1	122815A-008	12/28/15 10:27
Interference Check B	S5L2802-IFB1	122815A-009	12/28/15 10:32
Blank	B5L2404-BLK1	122815A-010	12/28/15 10:37
LCS	B5L2404-BS1	122815A-011	12/28/15 10:42
Serial Dilution	S5L2802-SRD1	122815A-013	12/28/15 10:52
Matrix Spike	B5L2404-MS1	122815A-014	12/28/15 10:57
Matrix Spike Dup	B5L2404-MSD1	122815A-015	12/28/15 11:02
Post Spike	B5L2404-PS1	122815A-016	12/28/15 11:07
Calibration Check	S5L2802-CCV1	122815A-020	12/28/15 11:27
Calibration Blank	S5L2802-CCB1	122815A-021	12/28/15 11:32
Cr-1	1502312-01	122815A-023	12/28/15 11:42
Cr-2	1502312-02	122815A-024	12/28/15 11:47
Cr-3	1502312-03	122815A-025	12/28/15 11:52
Calibration Check	S5L2802-CCV2	122815A-027	12/28/15 12:02
Calibration Blank	S5L2802-CCB2	122815A-028	12/28/15 12:07
Instrument RL Check	S5L2802-CRL2	122815A-029	12/28/15 12:12
Interference Check A	S5L2802-IFA2	122815A-030	12/28/15 12:18
Interference Check B	S5L2802-IFB2	122815A-031	12/28/15 12:23

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502312**

Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S5L2802-ICV1	Chromium	7500	7350	98.0	ug/L	+/- 10.00%
S5L2802-CCV1	Chromium	5000	4880	97.7	ug/L	+/- 10.00%
S5L2802-CCV2	Chromium	5000	4980	99.5	ug/L	+/- 10.00%

BLANKS

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502312
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
S5L2802-ICB1	Chromium	-0.268	ug/L	40.0	U
B5L2404-BLK1	Chromium	ND	mg/kg wet	2.00	U
S5L2802-CCB1	Chromium	-0.275	ug/L	40.0	U
S5L2802-CCB2	Chromium	-0.221	ug/L	40.0	U

CRDL STANDARD

EPA 6010

Client:	**BRINKERHOFF ENVIRONMENTAL**	**Calibration:**	UNASSIGNED
Project:	**255 East 138th Street, Bronx, NY**	**Sequence:**	S5L2802
Work Order:	**1502312**	**Instrument**	Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S5L2802-CRL1	Chromium	40.0	39.5	98.8	ug/L	70 - 130
S5L2802-CRL2	Chromium	40.0	38.8	97.1	ug/L	70 - 130

SERIAL DILUTION

EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502312
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Matrix:	Solid	Laboratory ID:	S5L2802-SRD1
Sequence:	S5L2802	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Chromium	5.58	ND	N/A		10.00

* Values outside of QC limits

INTERFERENCE CHECK SAMPLE

EPA 6010

Client:	BRINKERHOFF ENVIRONMENTAL	**Calibration:**	UNASSIGNED
Project:	255 East 138th Street, Bronx, NY	**Sequence:**	S5L2802
Work Order:	1502312	**Instrument**	Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S5L2802-IFA1	Chromium	2.00		-0.33		ug/L
S5L2802-IFB1	Chromium	2.00	250	247.20	98.9	ug/L
S5L2802-IFA2	Chromium	2.00		-0.74		ug/L
S5L2802-IFB2	Chromium	2.00	250	250.60	100	ug/L

WET CHEMISTRY

Accredited Analytical Resources, LLC.

WET CHEMISTRY SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Cr-1
Lab Sample ID: 1502312-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502312

Date Sampled:	12/22/15 11:38	Matrix:	Soil
Percent Solids:	81.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	9.75	2.00	2.00	1		12/28/15 08:56	[CALC]	12/29/15 16:01 HTW	[CALC]
1854-02-99	Chromium, Hexava	ND	2.46	2.46	1	U	12/28/15 08:56	SW 846 3060A	12/29/15 16:01 HTW	EPA 7196A

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	81.2	0.100	0.100	1		12/23/15 08:48	Percent Solids	12/23/15 14:44 RMK	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Cr-2
Lab Sample ID: 1502312-02
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502312

Date Sampled:	12/22/15 11:42	Matrix:	Soil
Percent Solids:	81.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	13.1	2.00	2.00	1		12/28/15 08:56	[CALC]	12/29/15 16:01 HTW	[CALC]
1854-02-99	Chromium, Hexava	ND	2.46	2.46	1	U	12/28/15 08:56	SW 846 3060A	12/29/15 16:01 HTW	EPA 7196A

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	81.2	0.100	0.100	1		12/23/15 08:48	Percent Solids	12/23/15 14:44 RMK	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Cr-3
Lab Sample ID: 1502312-03
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502312

Date Sampled:	12/22/15 11:46	Matrix:	Soil
Percent Solids:	80.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	9.55	2.00	2.00	1		12/28/15 08:56	[CALC]	12/29/15 16:01 HTW	[CALC]
1854-02-99	Chromium, Hexava	ND	2.50	2.50	1	U	12/28/15 08:56	SW 846 3060A	12/29/15 16:01 HTW	EPA 7196A

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	80.0	0.100	0.100	1		12/23/15 08:48	Percent Solids	12/23/15 14:44 RMK	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

WET CHEMISTRY QC DATA

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 7196A

Client:	**BRINKERHOFF ENVIRONMENTAL**		
Project:	**255 East 138th Street, Bronx, NY**	**Sequence:**	S5L2916
Work Order:	**1502312**	**Instrument**	Hach

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S5L2916-CCV1	Chromium, Hexavalent	1.00	0.966	96.6	mg/L	+/- 10.00%
S5L2916-ICV1	Chromium, Hexavalent	1.00	0.963	96.3	mg/L	+/- 10.00%

BLANKS

EPA 7196A

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502312
Sequence: S5L2916
Instrument Hach

Lab Sample ID	Analyte	Found	Units	RL	Q
B5L2804-BLK1	Chromium, Hexavalent	ND	mg/kg wet	2.00	U
S5L2916-CCB1	Chromium, Hexavalent	0.0101	mg/L	0.0500	U
S5L2916-ICB1	Chromium, Hexavalent	0.0101	mg/L	0.0500	U

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Cr-1

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502312
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 7196A
Batch:	B5L2804	Preparation:	SW 846 3060A
% Solids:	81.20	Laboratory ID:	B5L2804-MS1
		Client Sample ID:	1502312-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)		MS % REC.		QC LIMITS REC.
Chromium, Hexavalent	49.3	ND	13.7	*	27.8	*	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Cr-1

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502312
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 7196A
Batch:	B5L2804	Preparation:	SW 846 3060A
% Solids:	81.20	Laboratory ID:	B5L2804-MS2
		Client Sample ID:	1502312-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Chromium, Hexavalent	983	ND	898	91.3	75 - 125

* Values outside of QC limits

DUPLICATES

Duplicate

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502312**

Matrix:	Solid	Laboratory ID:	B5L2306-DUP1
Prep Batch:	B5L2306	Initial/Final:	10 g / 10 g
Prep Method:	Percent Solids	Analysis:	SM 2540 G
% Solids:	93.10		

ANALYTE	SAMPLE CONCENTRATION (%)	DUPLICATE CONCENTRATION (%)	RPD %	Q	CONTROL LIMIT
Percent Solids	93.1	93.1	0.00		20

* Values outside of QC limits

DUPLICATES

Cr-1

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502312**

Matrix:	Solid	Laboratory ID:	B5L2804-DUP1
Prep Batch:	B5L2804	Initial/Final:	2.5 g / 100 mL
Prep Method:	SW 846 3060A	Analysis:	EPA 7196A
% Solids:	81.20		

ANALYTE	SAMPLE CONCENTRATION (mg/kg dry)	DUPLICATE CONCENTRATION (mg/kg dry)	RPD %	Q	CONTROL LIMIT
Chromium, Hexavalent	ND	2.46 U			20

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 7196A

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502312**

Matrix:	Solid	Prep Method:	SW 846 3060A
Prep Batch:	B5L2804	Lab Sample ID:	B5L2804-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Chromium, Hexavalent	40.0	36.1	90.3	80 - 120

* Values outside of QC limits

POST DIGEST SPIKE SAMPLE RECOVERY

1502312-01

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502312
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Matrix:	Solid	Laboratory ID:	B5L2804-PS1
Batch:	B5L2804	Analysis:	EPA 7196A
Preparation:	SW 846 3060A	Initial/Final:	2.5 g / 100 mL

Analyte	Spike Sample Result (SSR) (mg/L)	Sample Result (SR) (mg/L)	Spike Added (SA) (mg/L)	%R	Control Limit %R
Chromium, Hexavalent	0.243	ND	1.00	23.2	85 - 115

Accredited Analytical Resources, LLC.

WET CHEMISTRY

RAW DATA

PROJECT Cr6-soil

Notebook No. 953

Continued from Page

1ppm = 1ml of 100ppm → 100ml in DI H_2O
10ppm = 10ml of 100ppm → 100ml in DI H_2O

	ml of 10ppm	ml of 1ppm	conc (ppm)
B	—	0	0.00
1	—	1	0.02
2	1	—	0.20
3	2.5	—	0.50
4	5	—	1.00
5	10	—	2.00

Wavelength = 540

INITIAL TEMP = 91°C
Mid TEMP = 90°C
FINAL TEMP = 90°C

pH digestion soln = 13.04
Start digestion = 1030 12/28
End digestion = 1130 12/28
Start pH HNO_3 = 1130 12/29
End pH HNO_3 = 1300 12/29
Start pH H_2SO_4 = 1500 12/29
End pH H_2SO_4 = 1550 12/29
Time of Analysis = 1601 12/29

Color reagent AAR B11P68G
1000 ppm Cr6 Std AAR B11P29A
1000 ppm Cr6 ICV AAR B11P29B
100 ppm Cr6 Std = 10ml of 1000ppm + 100ml
pbCr4 sigma 23184606
Digestion soln AAR B11P71A
Magnesium Chloride Baker 113694
phosphate Buffer AAR B10P68B

SAMPLE	wt gs
MB	2.5
LCS	
1502312-01	
1502312-01 dup	
1502312-01 MS	
1502312-01 INS	
1502312-01 P	
1502312-02	
1502312-03	
1502323-01	

Continued on Page

Read and Understood By

[signature] 12/29/15 R Kopler 12/29/15

Signed Date Signed Date

PROJECT Cr6-soil

Notebook No. 953 7

Continued from Page

SAMPLE	pH HNO_3	pH H_2CO_4	BG H_2SO_4	ABS	BG ABS	CORR ABS	DIL	
0.00 ppm		<2		0.001			1	
0.02 ppm				0.044				
0.20 ppm				0.381				
0.50 ppm				1.018				Curve
1.00 ppm				1.905				55L2914
2.00 ppm				4.081				15L2903
ICV				1.935				
ICB				0.001				
MB	7.79	2.02	1.95	0.004	0.003	0.001		
LCS	7.70	2.03	1.99	1.824	0.011	1.813		
1502312-01	7.88	1.98	2.02	0.011	0.008	0.003		B5L2804
1502312-01 dup	7.55	1.96	1.90	0.023	0.021	0.002		55L2916
1502312-01 ms	7.26	1.98	1.97	0.560	0.015	0.545		
1502312-01 MS	7.91	1.97	1.97	1.832	0.003	1.829	2	
1502312-01 P	7.99	1.98	1.92	0.487	0.013	0.474	1	
1502312-02	7.64	1.91	1.97	0.026	0.023	0.003		
1502312-03	7.85	1.98	2.01	0.012	0.010	0.002		
1502323-01	7.31	1.95	1.96	0.173	0.164	0.009		
CCV		<2		1.940				
CCB				0.001				

Continued on Page

Read and Understood By

Signed 12/29/15 Date

R Koplin Signed 12/29/15 Date

Accredited Analytical Resources, LLC.

29 December 2015 AAR Work Order: 1502312

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

Enclosed are the results of analyses for samples received by the laboratory on 12/22/2015 13:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/29/2015 16:17

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Cr-1	1502312-01	Soil	12/22/2015 11:38	12/22/2015 13:50
Cr-2	1502312-02	Soil	12/22/2015 11:42	12/22/2015 13:50
Cr-3	1502312-03	Soil	12/22/2015 11:46	12/22/2015 13:50

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Methodology Summary

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/29/2015 16:17

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/29/2015 16:17

Client ID: Cr-1

Lab ID: 1502312-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7440-47-3	**Chromium**	**9.75**	2.46	2.46	mg/kg dry	1	12/24/15 08:18	12/28/15 11:42/LIT	EPA 6010	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**9.75**	2.00	2.00	mg/kg dry	1	12/28/15 08:56	12/29/15 16:01/HTW	[CALC]	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**81.2**	0.100	0.100	%	1	12/23/15 08:48	12/23/15 14:44/RMK	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.46	2.46	mg/kg dry	1	12/28/15 08:56	12/29/15 16:01/HTW	EPA 7196A	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/29/2015 16:17

Client ID: Cr-2

Lab ID: 1502312-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7440-47-3	**Chromium**	**13.1**	2.46	2.46	mg/kg dry	1	12/24/15 08:18	12/28/15 11:47/LIT	EPA 6010	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**13.1**	2.00	2.00	mg/kg dry	1	12/28/15 08:56	12/29/15 16:01/HTW	[CALC]	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**81.2**	0.100	0.100	%	1	12/23/15 08:48	12/23/15 14:44/RMK	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.46	2.46	mg/kg dry	1	12/28/15 08:56	12/29/15 16:01/HTW	EPA 7196A	

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/29/2015 16:17

Client ID: Cr-3

Lab ID: 1502312-03 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7440-47-3	**Chromium**	**9.55**	2.50	2.50	mg/kg dry	1	12/24/15 08:18	12/28/15 11:52/LIT	EPA 6010	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**9.55**	2.00	2.00	mg/kg dry	1	12/28/15 08:56	12/29/15 16:01/HTW	[CALC]	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**80.0**	0.100	0.100	%	1	12/23/15 08:48	12/23/15 14:44/RMK	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.50	2.50	mg/kg dry	1	12/28/15 08:56	12/29/15 16:01/HTW	EPA 7196A	

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street, Bronx, NY
CONTACT:	Doug Hurm / Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	DH/SH
EMAIL FOR INVOICE:	dhurm@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502312
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	Hex Chrom	Tri Chrom	AAR SAMPLE #
Cr-1	12/22/15 11:38	S		1	G	X	X	-01
Cr-2	12/22/15 11:42	S		1	G	X	X	-02
Cr-3	12/22/15 11:46	S		1	G	X	X	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE

PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Please provide NYSDEC Category B data deliverable. Hard copy report due 1/11/2016.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Sean Harrison SIGN:

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Sean Harrison	Print Name: K. Muniz	Print Name:	Print Name:
Signature:	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/22/15 Time: 1350		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1502323

Client Sample ID:	Lab Sample ID:
EP-18	1502323-01

This data has been reviewed and accepted by:

Daniel Miguel 01/13/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street, Bronx, NY) on 12/23/2015 12:00:00 PM.

All analyses were performed within the required holding time.

In the BNA analyses, the laboratory control sample (LCS) for Batch B5L2403 recovered outside control limits for multiple analytes. These analytes were within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5L2403 had compounds recovered outside acceptance criteria due to matrix interference. The LCS was within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, the laboratory control sample (LCS) for Batch B5L2402 recovered outside control limits for certain analytes. These analytes were within house limits; therefore, the data has been reported.

In the Pesticide analyses, the MS/MSD for Batch B5L2402 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was within acceptance limits for affected compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Percent Solids by SM 2540 G
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014

Accredited Analytical Resources, LLC.

Internal Chain of Custody

	Out	In
1502323-01 (A)		
Extractions	12/24/15 9:36 by MJS	12/24/15 9:50 by MJS
VOA Storage	12/28/15 10:38 by SG	by SG
1502323-01 (B)		
Metals	12/24/15 7:52 by PRT	12/24/15 7:52 by PRT
Walk-In Storage	12/24/15 7:52 by PRT	12/24/15 7:53 by PRT
Metals	12/24/15 7:53 by PRT	12/28/15 8:19 by PRT
Wets	12/28/15 8:19 by RMK	12/28/15 16:12 by RMK
Wets	12/28/15 16:12 by CLD	12/28/15 16:13 by CLD
1502323-01 (C)		
VOA Storage	12/23/15 14:48 by SG	12/23/15 17:30 by SG
1502323-01 (D)		
VOA Storage	12/23/15 14:48 by SG	12/23/15 17:30 by SG
1502323-01RE1 (C)		
VOA Storage	12/28/15 10:45 by SG	12/28/15 11:49 by SG
VOA Storage	12/28/15 11:49 by DSM	12/28/15 13:36 by DSM
VOA Storage	12/28/15 13:36 by DSM	by DSM

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Received: 12/23/15 12:00

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street, Bronx, NY
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm + Sean Harrison
EMAIL FOR INVOICE:	dharm@brinx.env + sharrison@brinx.env

CLIENT NAME:	Brinkerhoff Enviromental Services, Inc.
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan.
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502323
P.O. #	10BR188

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL Full	TCL Full	Hex Chrom	Tri Chrom									AAR SAMPLE #
PRES. CODE →																		
CONT. CODE →																		
EP-18	12/23/15 / 10:10	S		4	G	X	X	X	X									-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 1 Week (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Category B data deliverable. Hard copy by January 13th 2015 NYSDEC COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Monica Norton	Signature: K. Muniz	Signature:	Signature:
Agent of:	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/23/15 Time: 1200		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-18	1502323-01	Soil	12/23/2015 10:10	12/23/2015 12:00

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

PEST/PCB SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/24/15 07:49	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 3550B	File ID:	G14797.D
Prep Batch:	B5L2402	Sequence:	S5L2801	Analyzed:	12/28/15 14:44
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.926	0.926	U
319-85-7	beta-BHC	ND	0.926	0.926	U
319-86-8	delta-BHC	ND	0.926	0.926	U
58-89-9	gamma-BHC [Lindane]	ND	0.926	0.926	U
76-44-8	Heptachlor	ND	0.926	0.926	U
309-00-2	Aldrin	ND	0.926	0.926	U
1024-57-3	Heptachlor Epoxide	ND	0.926	0.926	U
959-98-8	Endosulfan I	ND	0.926	0.926	U
60-57-1	Dieldrin	ND	1.87	1.87	U
72-55-9	4,4'-DDE	ND	1.87	1.87	U
72-20-8	Endrin	ND	1.87	1.87	U
33213-65-9	Endosulfan II	ND	1.87	1.87	U
72-54-8	4,4'-DDD	ND	1.87	1.87	U
1031-07-8	Endosulfan sulfate	ND	1.87	1.87	U
50-29-3	4,4'-DDT	ND	1.87	1.87	U
72-43-5	Methoxychlor	ND	2.81	9.34	U
53494-70-5	Endrin ketone	ND	1.87	1.87	U
7421-93-4	Endrin aldehyde	ND	1.87	1.87	U
5103-71-9	alpha-Chlordane	ND	0.926	0.926	U
5566-34-7	gamma-Chlordane	ND	0.926	0.926	U
8001-35-2	Toxaphene	ND	46.7	46.7	U
12674-11-2	Aroclor-1016	ND	23.3	46.7	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/24/15 07:49	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 3550B	File ID:	G14797.D
Prep Batch:	B5L2402	Sequence:	S5L2801	Analyzed:	12/28/15 14:44
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	23.3	46.7	U
11141-16-5	Aroclor-1232	ND	23.3	46.7	U
53469-21-9	Aroclor-1242	ND	23.3	46.7	U
12672-29-6	Aroclor-1248	ND	23.3	46.7	U
11097-69-1	Aroclor-1254	ND	23.3	46.7	U
11096-82-5	Aroclor-1260	ND	23.3	46.7	U
37324-23-5	Aroclor-1262	ND	23.3	46.7	U
11100-14-4	Aroclor-1268	ND	23.3	46.7	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	63.5%	30-150
Tetrachloro-m-xylene [2C]	56.6%	30-150
Decachlorobiphenyl	54.9%	30-150
Decachlorobiphenyl [2C]	65.1%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14797.D\ECD1A.CH Vial: 12
Signal #2 : D:\G\DATA\DEC15\G1228\G14797.D\ECD2B.CH
Acq On : 28 Dec 2015 14:44 Operator: JAM
Sample : 1502323-01 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 15:17 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) AS Tetrachloro-m-xy	4.62	4.91	1119182	1176126	0.635	0.566
Spiked Amount 1.000 Range 30 - 150 Recovery =					63.50%	56.60%
22) AS Decachlorobiphen	16.31	17.62f	1443274	1661974	0.549	0.651
Spiked Amount 1.000 Range 30 - 150 Recovery =					54.90%	65.10%
Target Compounds						

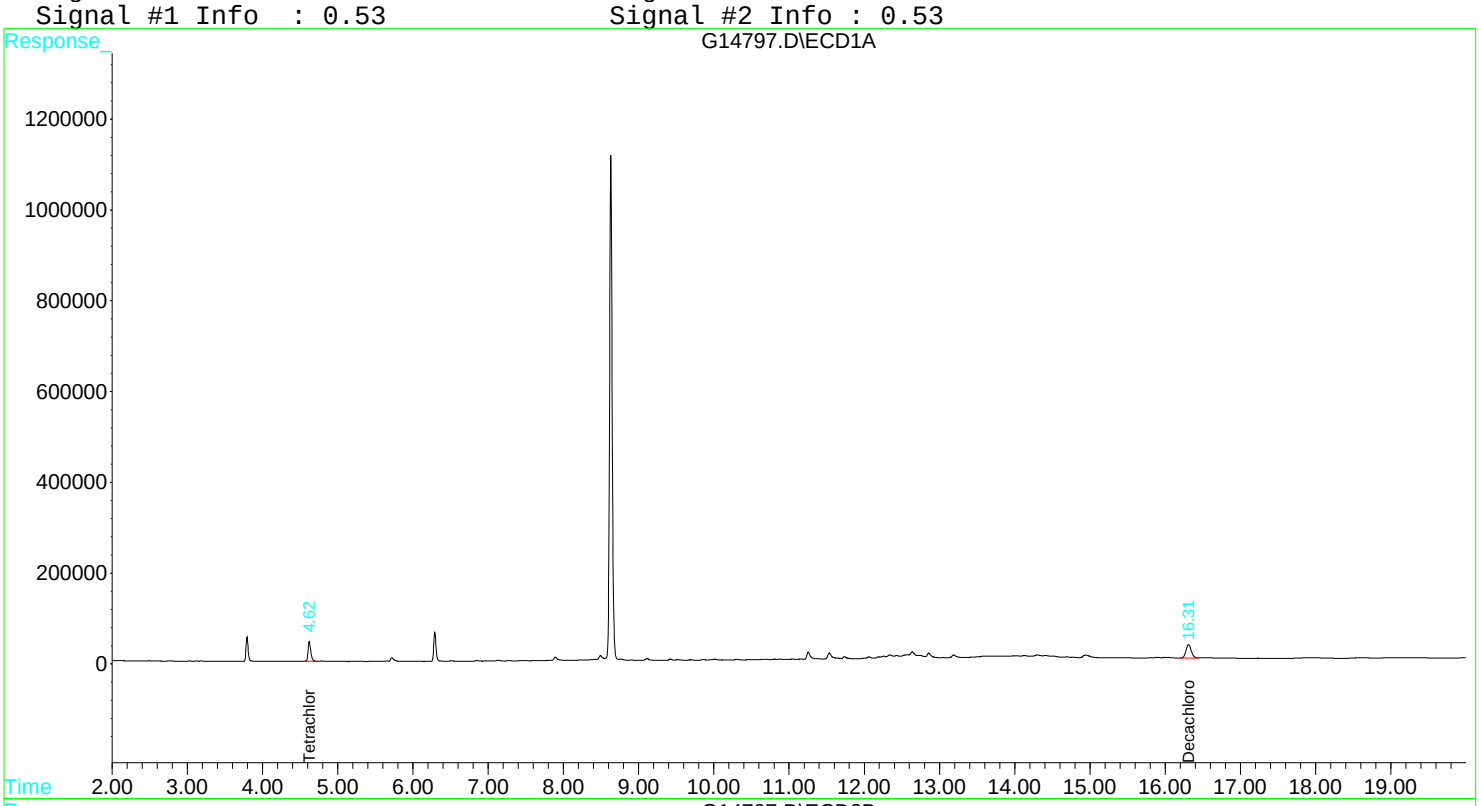
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

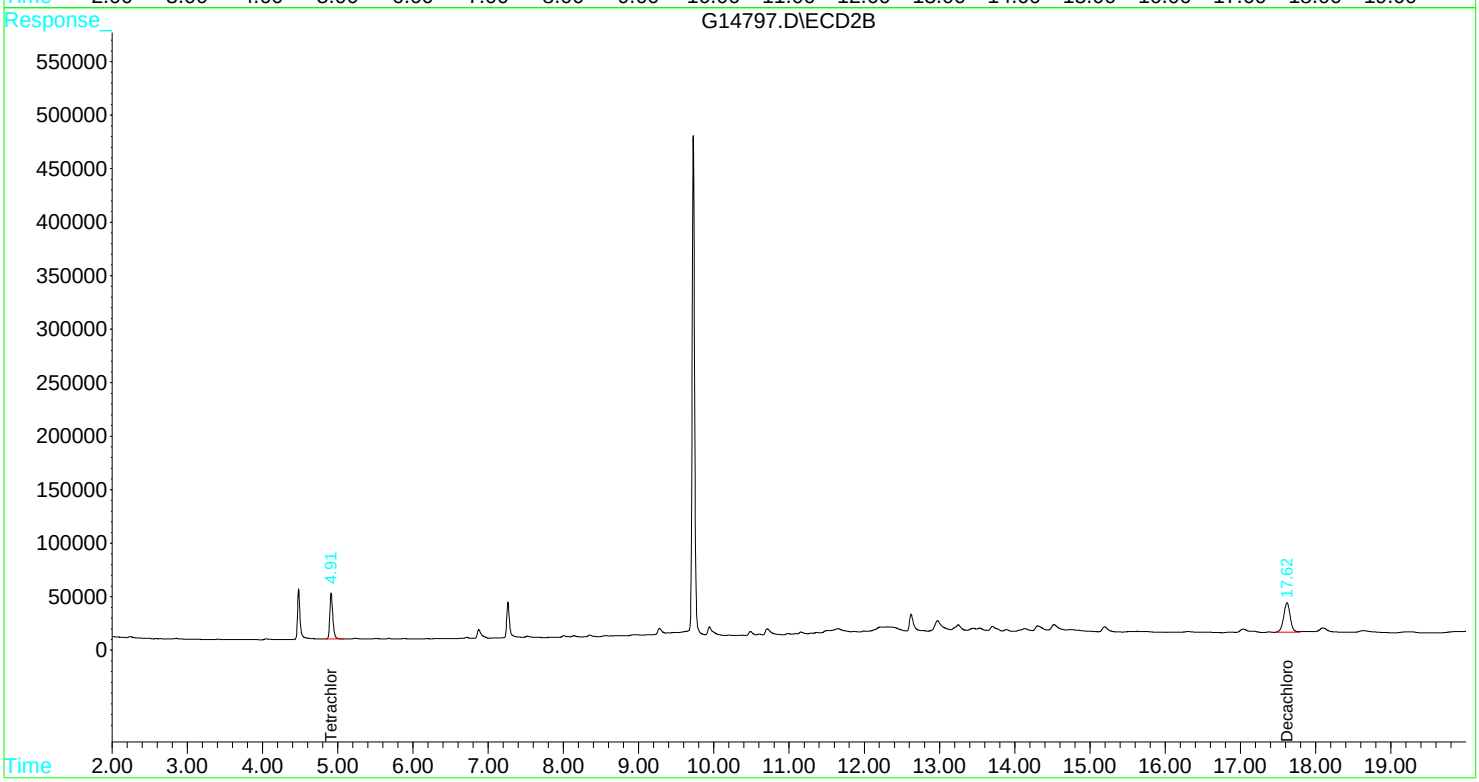
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14797.D\ECD1A.CH Vial: 12
Signal #2 : D:\G\DATA\DEC15\G1228\G14797.D\ECD2B.CH
Acq On : 28 Dec 2015 14:44 Operator: JAM
Sample : 1502323-01 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 15:17 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





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PEST/PCB QC DATA

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ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2402-BLK1	File ID:	G14793.D
Batch:	B5L2402	Prepared:	12/24/15 07:49	Analyzed:	12/28/15 12:48
Column:	1	Preparation:	EPA 3550B	Dilution:	
		Sequence:	S5L2801	Instrument:	GCECD_GHF

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.660	0.660	U
319-85-7	beta-BHC	ND	0.660	0.660	U
319-86-8	delta-BHC	ND	0.660	0.660	U
58-89-9	gamma-BHC [Lindane]	ND	0.660	0.660	U
76-44-8	Heptachlor	ND	0.660	0.660	U
309-00-2	Aldrin	ND	0.660	0.660	U
1024-57-3	Heptachlor Epoxide	ND	0.660	0.660	U
959-98-8	Endosulfan I	ND	0.660	0.660	U
60-57-1	Dieldrin	ND	1.33	1.33	U
72-55-9	4,4'-DDE	ND	1.33	1.33	U
72-20-8	Endrin	ND	1.33	1.33	U
33213-65-9	Endosulfan II	ND	1.33	1.33	U
72-54-8	4,4'-DDD	ND	1.33	1.33	U
1031-07-8	Endosulfan sulfate	ND	1.33	1.33	U
50-29-3	4,4'-DDT	ND	1.33	1.33	U
72-43-5	Methoxychlor	ND	2.00	6.66	U
53494-70-5	Endrin ketone	ND	1.33	1.33	U
7421-93-4	Endrin aldehyde	ND	1.33	1.33	U
5103-71-9	alpha-Chlordane	ND	0.660	0.660	U
5566-34-7	gamma-Chlordane	ND	0.660	0.660	U
8001-35-2	Toxaphene	ND	33.3	33.3	U
12674-11-2	Aroclor-1016	ND	16.6	33.3	U
11104-28-2	Aroclor-1221	ND	16.6	33.3	U
11141-16-5	Aroclor-1232	ND	16.6	33.3	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2402-BLK1	File ID:	G14793.D
Batch:	B5L2402	Prepared:	12/24/15 07:49	Analyzed:	12/28/15 12:48
Column:	1	Preparation:	EPA 3550B	Dilution:	
		Sequence:	S5L2801	Instrument:	GCECD_GHF

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
53469-21-9	Aroclor-1242	ND	16.6	33.3	U
12672-29-6	Aroclor-1248	ND	16.6	33.3	U
11097-69-1	Aroclor-1254	ND	16.6	33.3	U
11096-82-5	Aroclor-1260	ND	16.6	33.3	U
37324-23-5	Aroclor-1262	ND	16.6	33.3	U
11100-14-4	Aroclor-1268	ND	16.6	33.3	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	87.5%	30-150
Decachlorobiphenyl	87.2%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

```
Signal #1 : D:\G\DATA\DEC15\G1228\G14793.D\ECD1A.CH      Vial: 8
Signal #2 : D:\G\DATA\DEC15\G1228\G14793.D\ECD2B.CH
Acq On    : 28 Dec 2015  12:48                        Operator: JAM
Sample    : B5L2402-BLK1                              Inst    : GCECD_GH
Misc      : SOIL 12/24/15                             Multiplr: 1.00
IntFile Signal #1: RTEINT.P     IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 13:27 2015  Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title        : 8081 Pesticides
Last Update  : Mon Dec 14 09:38:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj.     : 1 ul
Signal #1 Phase : Rtx-5             Signal #2 Phase: CLP PSTII
Signal #1 Info  : 0.53              Signal #2 Info : 0.53

 Compound          RT#1   RT#2    Resp#1   Resp#2   ug/L      ug/L
-----------------------------------------------------------------------

System Monitoring Compounds
 1) AS  Tetrachloro-m-xy  4.62   4.91   1543580  1770384    0.875     0.852
  Spiked Amount      1.000 Range  30 - 150  Recovery   =   87.50%    85.20%
22) AS  Decachlorobiphen 16.31  17.62f  2294814  2272636    0.872     0.891
  Spiked Amount      1.000 Range  30 - 150  Recovery   =   87.20%    89.10%

Target Compounds
```

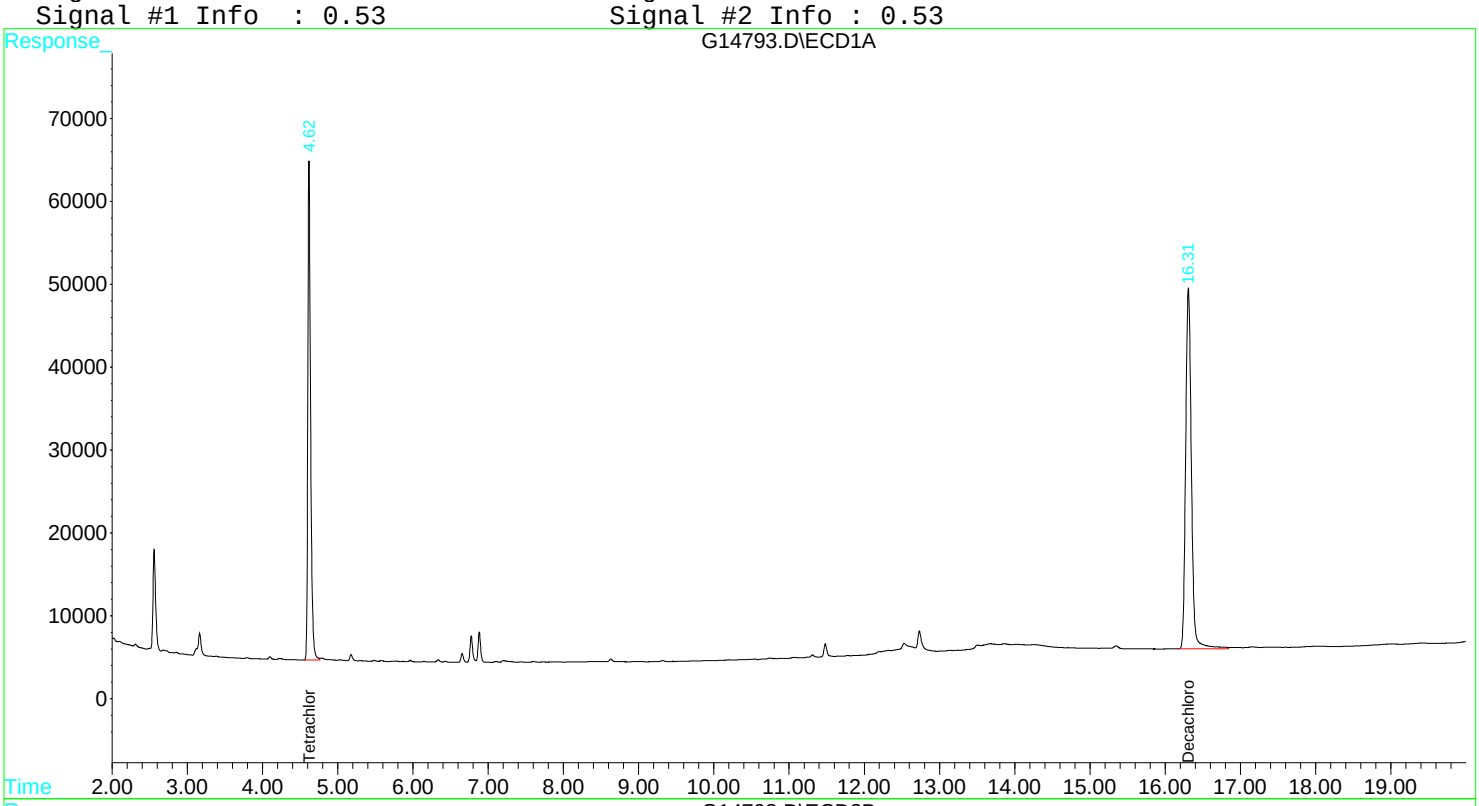
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

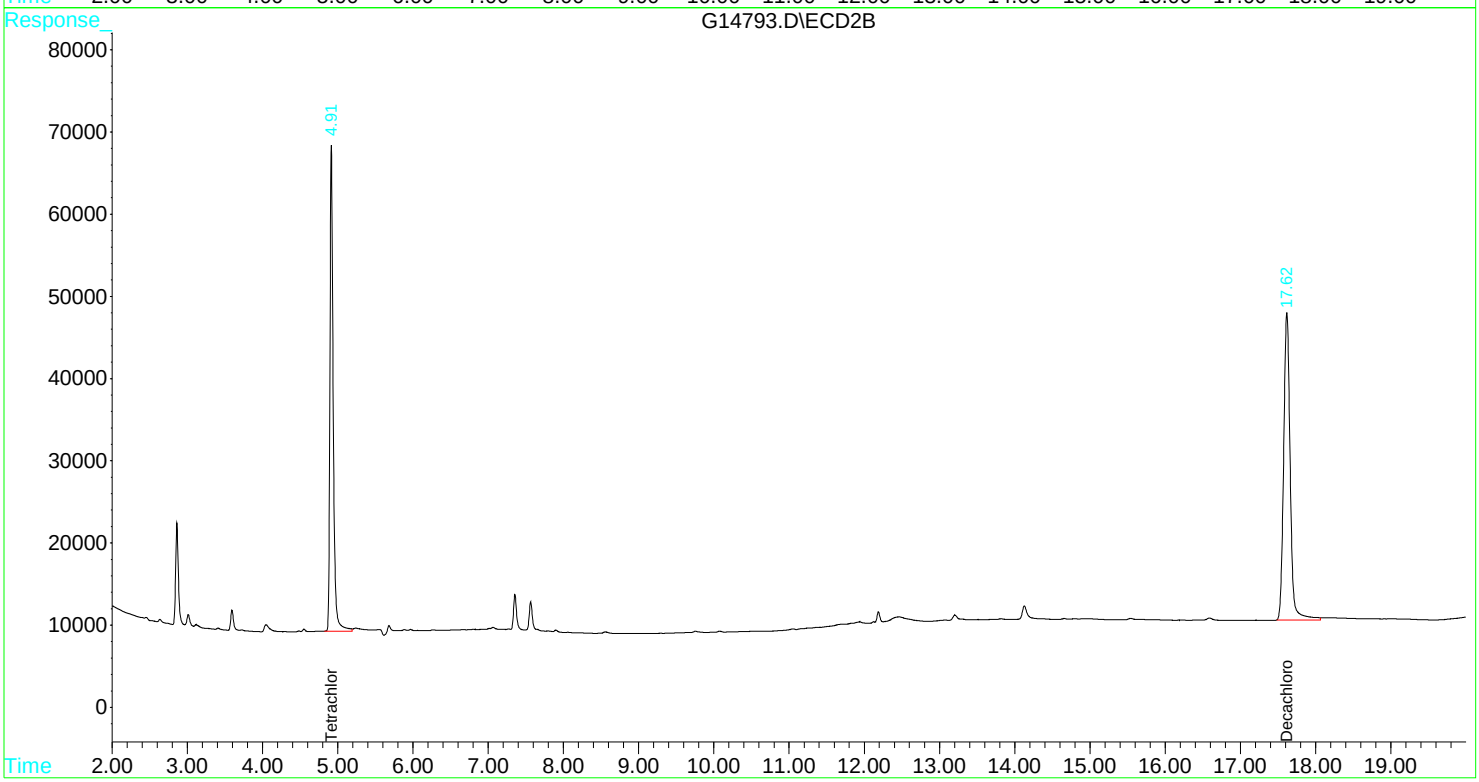
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14793.D\ECD1A.CH Vial: 8
Signal #2 : D:\G\DATA\DEC15\G1228\G14793.D\ECD2B.CH
Acq On : 28 Dec 2015 12:48 Operator: JAM
Sample : B5L2402-BLK1 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 13:27 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





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ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2402-BLK1	File ID:	G14793.D
Batch:	B5L2402	Prepared:	12/24/15 07:49	Analyzed:	12/28/15 12:48
Column:	2	Preparation:	EPA 3550B	Dilution:	
		Sequence:	S5L2801	Instrument:	GCECD_GHF

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
319-84-6	alpha-BHC [2C]	ND	0.660	0.660	U
319-85-7	beta-BHC [2C]	ND	0.660	0.660	U
319-86-8	delta-BHC [2C]	ND	0.660	0.660	U
58-89-9	gamma-BHC [Lindane] [2C]	ND	0.660	0.660	U
76-44-8	Heptachlor [2C]	ND	0.660	0.660	U
309-00-2	Aldrin [2C]	ND	0.660	0.660	U
1024-57-3	Heptachlor Epoxide [2C]	ND	0.660	0.660	U
959-98-8	Endosulfan I [2C]	ND	0.660	0.660	U
60-57-1	Dieldrin [2C]	ND	1.33	1.33	U
72-55-9	4,4'-DDE [2C]	ND	1.33	1.33	U
72-20-8	Endrin [2C]	ND	1.33	1.33	U
33213-65-9	Endosulfan II [2C]	ND	1.33	1.33	U
72-54-8	4,4'-DDD [2C]	ND	1.33	1.33	U
1031-07-8	Endosulfan sulfate [2C]	ND	1.33	1.33	U
50-29-3	4,4'-DDT [2C]	ND	1.33	1.33	U
72-43-5	Methoxychlor [2C]	ND	2.00	6.66	U
53494-70-5	Endrin ketone [2C]	ND	1.33	1.33	U
7421-93-4	Endrin aldehyde [2C]	ND	1.33	1.33	U
5103-71-9	alpha-Chlordane [2C]	ND	0.660	0.660	U
5566-34-7	gamma-Chlordane [2C]	ND	0.660	0.660	U
8001-35-2	Toxaphene [2C]	ND	33.3	33.3	U
12674-11-2	Aroclor-1016 [2C]	ND	16.6	33.3	U
11104-28-2	Aroclor-1221 [2C]	ND	16.6	33.3	U
11141-16-5	Aroclor-1232 [2C]	ND	16.6	33.3	U

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ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2402-BLK1	File ID:	G14793.D
Batch:	B5L2402	Prepared:	12/24/15 07:49	Analyzed:	12/28/15 12:48
Column:	2	Preparation:	EPA 3550B	Dilution:	
		Sequence:	S5L2801	Instrument:	GCECD_GHF

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
53469-21-9	Aroclor-1242 [2C]	ND	16.6	33.3	U
12672-29-6	Aroclor-1248 [2C]	ND	16.6	33.3	U
11097-69-1	Aroclor-1254 [2C]	ND	16.6	33.3	U
11096-82-5	Aroclor-1260 [2C]	ND	16.6	33.3	U
37324-23-5	Aroclor-1262 [2C]	ND	16.6	33.3	U
11100-14-4	Aroclor-1268 [2C]	ND	16.6	33.3	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene [2C]	85.2%	30-150
Decachlorobiphenyl [2C]	89.1%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14793.D\ECD1A.CH Vial: 8
Signal #2 : D:\G\DATA\DEC15\G1228\G14793.D\ECD2B.CH
Acq On : 28 Dec 2015 12:48 Operator: JAM
Sample : B5L2402-BLK1 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 13:27 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) AS Tetrachloro-m-xy	4.62	4.91	1543580	1770384	0.875	0.852
Spiked Amount 1.000 Range 30 - 150 Recovery =					87.50%	85.20%
22) AS Decachlorobiphen	16.31	17.62f	2294814	2272636	0.872	0.891
Spiked Amount 1.000 Range 30 - 150 Recovery =					87.20%	89.10%
Target Compounds						

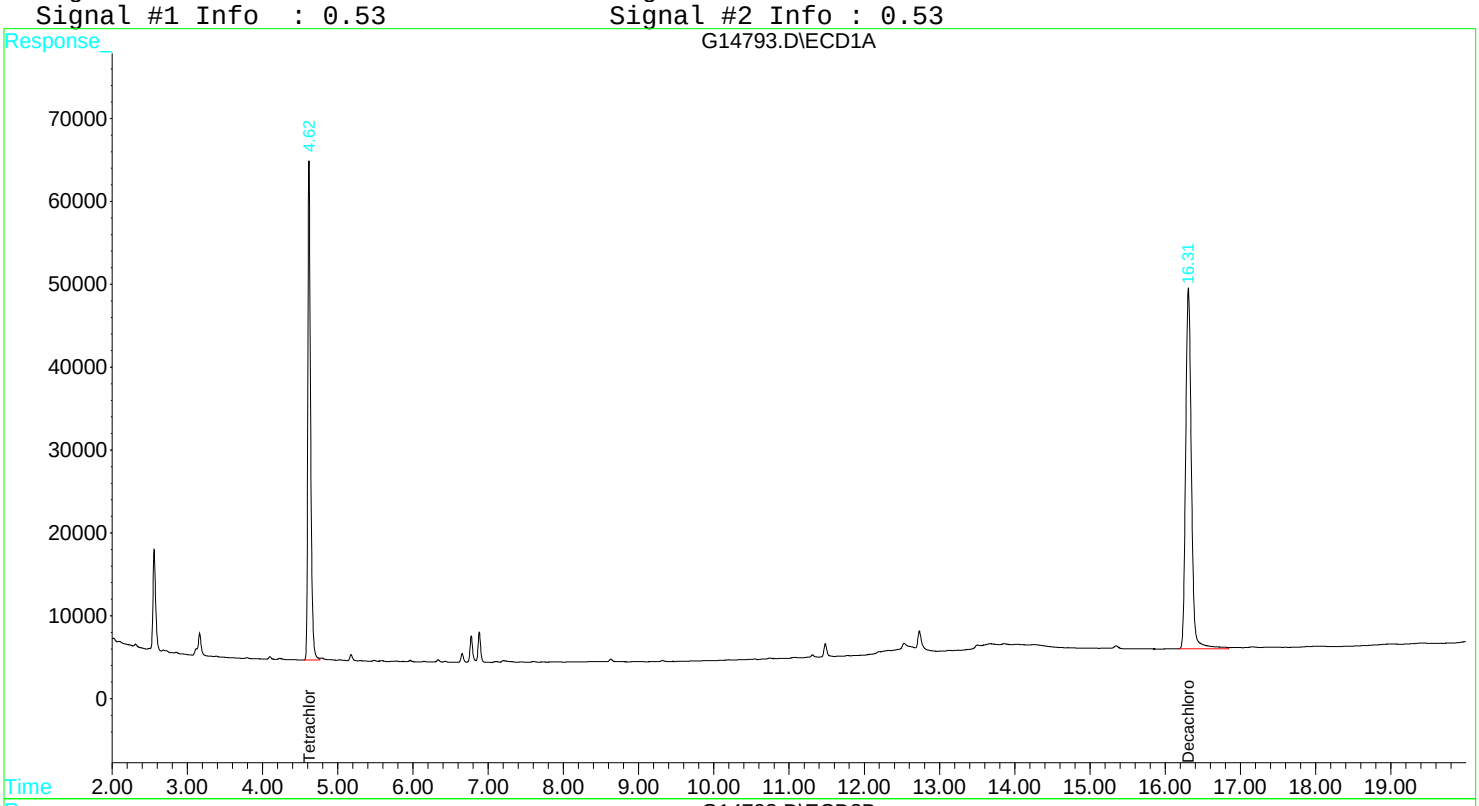
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

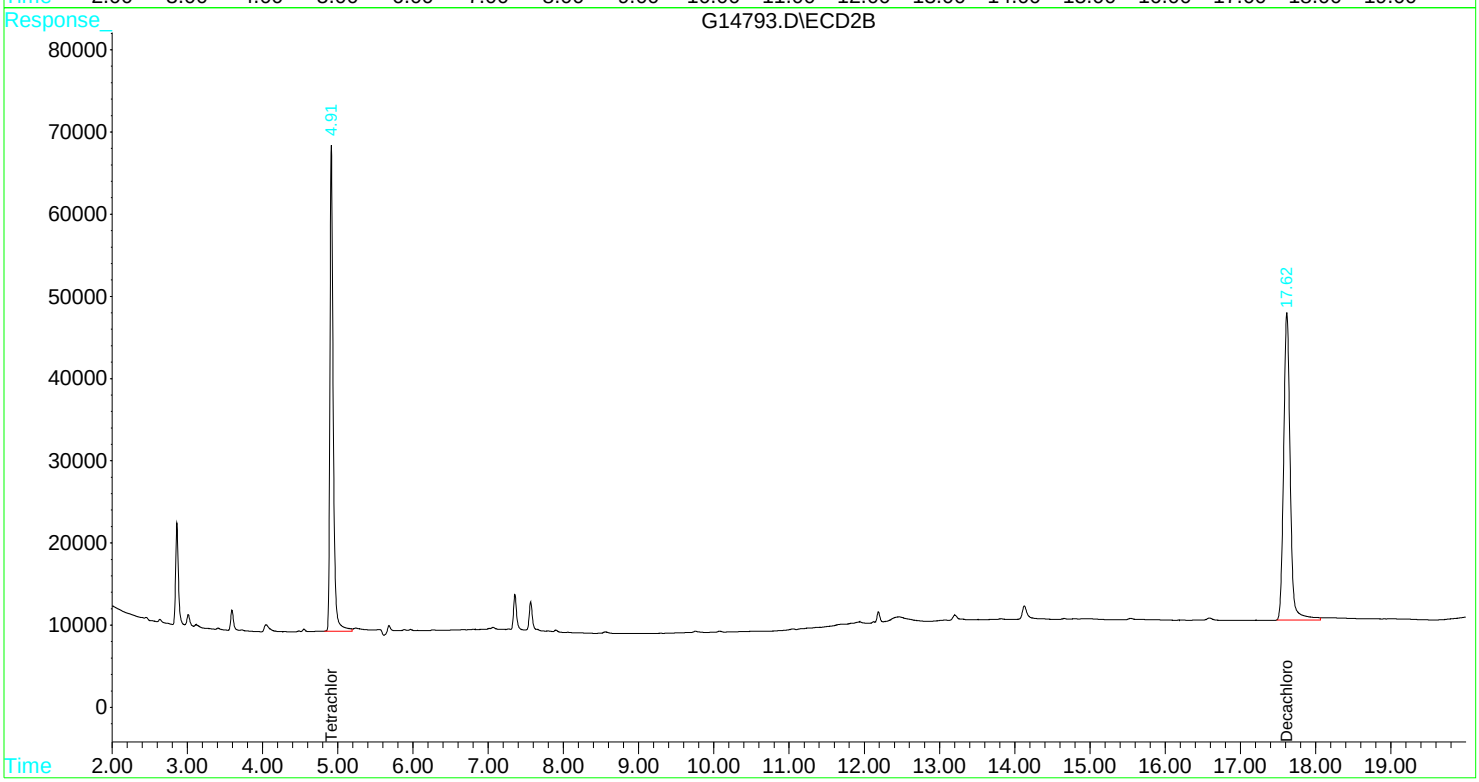
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14793.D\ECD1A.CH Vial: 8
Signal #2 : D:\G\DATA\DEC15\G1228\G14793.D\ECD2B.CH
Acq On : 28 Dec 2015 12:48 Operator: JAM
Sample : B5L2402-BLK1 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 13:27 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





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PEST/PCB QC SUMMARY

SYSTEM MONITORING COMPOUND SUMMARY

EPA 8081/8082

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix: Solid
Instrument: GCECD_GHF

Lab Sample ID:	DCB (30% - 150%)	DCB[2C] (30% - 150%)	TCMX (30% - 150%)	TCMX[2C] (30% - 150%)
1502323-01	54.9	65.1	63.5	56.6
B5L2402-BLK1	87.2	89.1	87.5	85.2
B5L2402-BS1	94.9	95.9	77.3	75.1
B5L2402-BS2	85.8	90.9	85.5	76.6
B5L2402-MS1	61.6	68.5	71.4	67.7
B5L2402-MS2	53.4	82.1	53.8	47.5
B5L2402-MSD1	62.2	69.1	72.1	68.4
B5L2402-MSD2	50.3	78.9	50.8	42.2

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5L2402	Prep Method:	EPA 3550B
Percent Solids:	92.10	Laboratory ID:	B5L2402-MS1
Column:	1	Client Sample ID:	1502315-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
alpha-BHC	10.9	ND	9.08	83.7		30 - 150
beta-BHC	10.9	ND	9.77	90.0		30 - 150
delta-BHC	10.9	ND	10.1	92.7		30 - 150
gamma-BHC [Lindane]	10.9	ND	9.05	83.3		30 - 150
Heptachlor	10.9	ND	11.8	109		30 - 150
Aldrin	10.9	ND	15.0	138		30 - 150
Heptachlor Epoxide	10.9	ND	2320	21400	*	30 - 150
Endosulfan I	10.9	ND	7.02	64.7		30 - 150
Dieldrin	10.9	ND	8.72	80.3		30 - 150
4,4'-DDE	10.9	ND	9.70	89.3		30 - 150
Endrin	10.9	ND	19.9	183	*	30 - 150
Endosulfan II	10.9	ND	10.4	96.0		30 - 150
4,4'-DDD	10.9	ND	9.08	83.7		30 - 150
Endosulfan sulfate	10.9	ND	10.9	100		30 - 150
4,4'-DDT	10.9	ND	10.1	93.3		30 - 150
Methoxychlor	10.9	ND	11.3	104		30 - 150
Endrin ketone	10.9	ND	9.74	89.7		30 - 150
Endrin aldehyde	10.9	ND	10.2	94.3		30 - 150
alpha-Chlordane	10.9	1.92	12.2	95.0		30 - 150
gamma-Chlordane	10.9	2.39	10.4	73.3		30 - 150

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14801.D\ECD1A.CH Vial: 16
Signal #2 : D:\G\DATA\DEC15\G1228\G14801.D\ECD2B.CH
Acq On : 28 Dec 2015 16:41 Operator: JAM
Sample : B5L2402-MS1 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:04 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) AS	Tetrachloro-m-xy	4.62	4.91	1258838	1406722	0.714	0.677
Spiked Amount	1.000	Range	30 - 150	Recovery	=	71.40%	67.70%
22) AS	Decachlorobiphen	16.32	17.63	1620284	1746776	0.616	0.685
Spiked Amount	1.000	Range	30 - 150	Recovery	=	61.60%	68.50%
	Target Compounds						
2) A	alpha-BHC	5.34	6.18	529290	570670	0.251	0.242
3) AM	gamma-BHC (Linda	5.93	6.90	516082	649182	0.250	0.279
4) AM	Heptachlor	7.24	7.75	707276	416806	0.327	0.249
5) BM	Aldrin	7.89	8.37	796054	718576	0.414m	0.363
6) B	beta-BHC	5.82	7.10	299328	361104	0.270	0.303
7) B	delta-BHC	6.35f	7.67	510080	548010	0.278m	0.300
8) B	Heptachlor Epoxi	8.67	9.46	125.5E6	747878	64.209	0.410 #
9) A	Endosulfan I	9.31	10.17	362972	535496	0.194	0.307 #
10) B	gamma-Chlordane	9.07	9.81	553230	574882	0.286	0.292m
11) B	alpha-Chlordane	9.35	10.07	654404	545544	0.338m	0.288
12) B	4,4'-DDE	9.70	10.40	476348	687166	0.268	0.389 #
13) AM	Dieldrin	9.79	10.67	448484	618214	0.241	0.361 #
14) AM	Endrin	10.19	11.21	828490	365822	0.550	0.298 #
15) B	Endosulfan II	10.37	11.60	470706	499958	0.288	0.332
16) A	4,4'-DDD	10.47	11.44	342566	318456	0.251	0.261
17) AM	4,4'-DDT	11.15	11.99	457680	405566	0.280m	0.272
18) B	Endrin Aldehyde	10.71	12.21	406918	359326	0.283	0.239m
19) B	Endosulfan Sulfa	11.15	12.71	473642	350482	0.301m	0.254
20) A	Methoxychlor	12.17	13.28	274626	220970	0.311	0.379
21) B	Endrin Ketone	12.01	13.78f	507390	419168	0.269	0.239

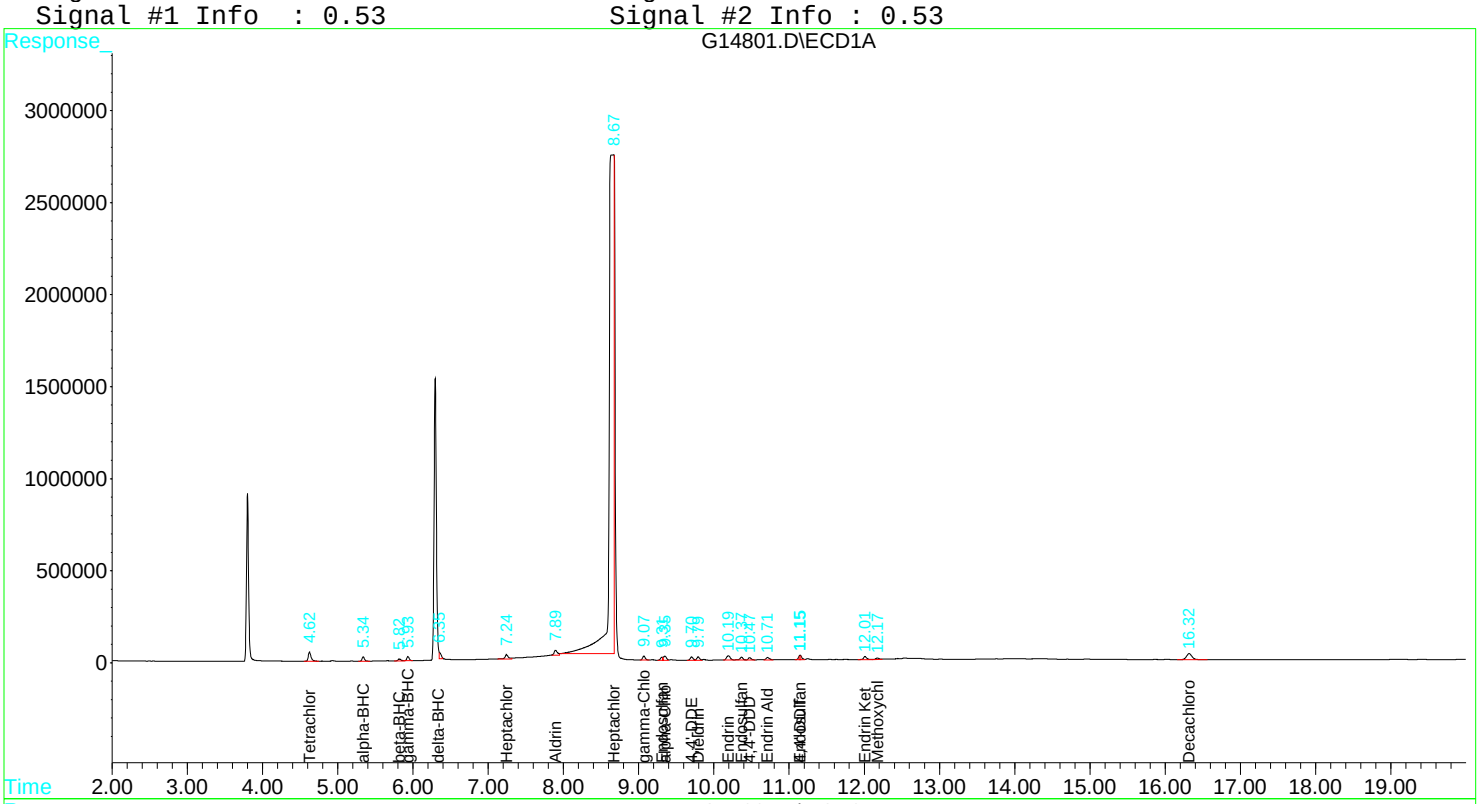
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

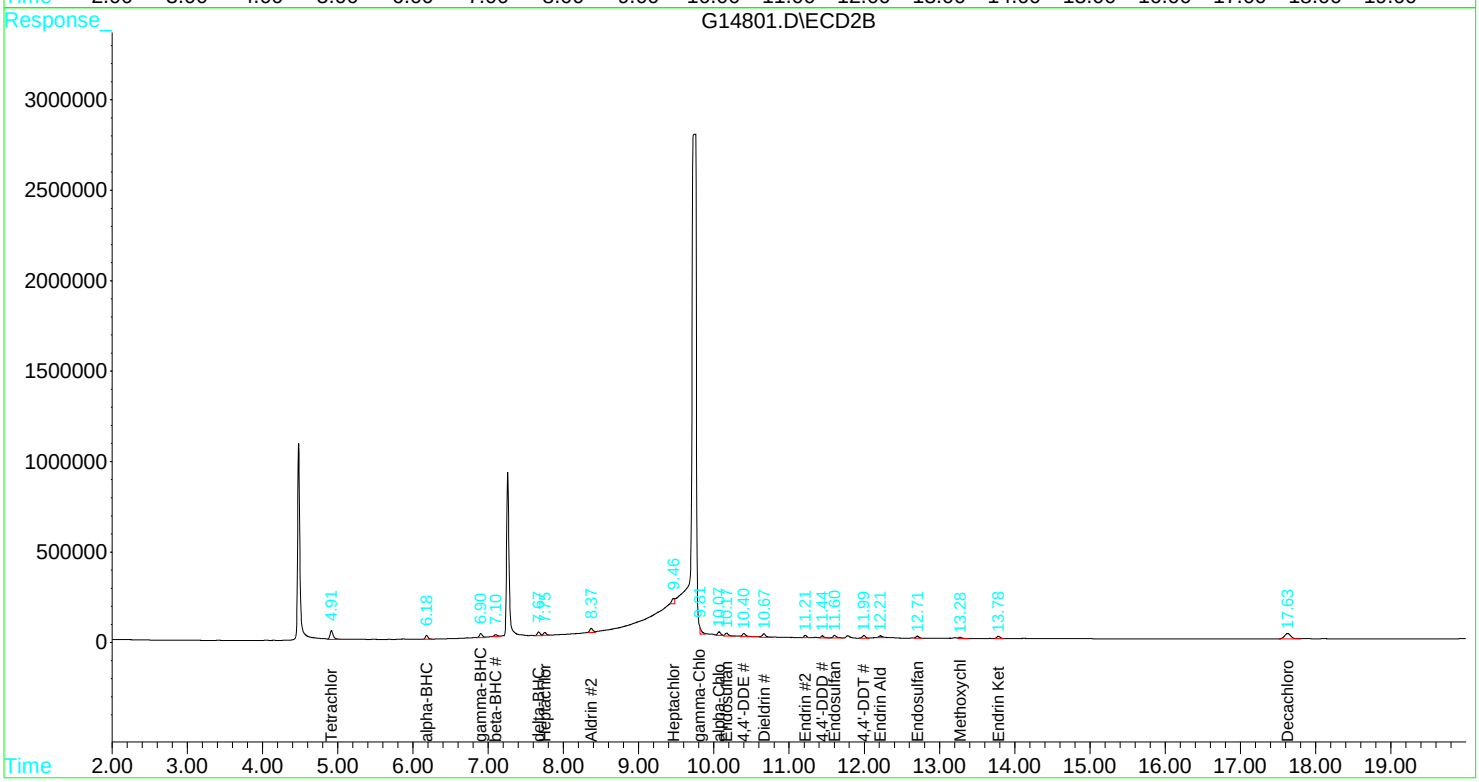
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14801.D\ECD1A.CH Vial: 16
Signal #2 : D:\G\DATA\DEC15\G1228\G14801.D\ECD2B.CH
Acq On : 28 Dec 2015 16:41 Operator: JAM
Sample : B5L2402-MS1 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:04 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5L2402	Prep Method:	EPA 3550B
Percent Solids:	92.10	Laboratory ID:	B5L2402-MSD1
Column:	1	Client Sample ID:	1502315-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	10.9	9.16	84.3		0.794	30	30 - 150
beta-BHC	10.9	9.77	90.0		0.00	30	30 - 150
delta-BHC	10.9	10.9	100		7.94	30	30 - 150
gamma-BHC [Lindane]	10.9	9.12	84.0		0.797	30	30 - 150
Heptachlor	10.9	10.1	92.7		16.2	30	30 - 150
Aldrin	10.9	14.0	129		6.74	30	30 - 150
Heptachlor Epoxide	10.9	2350	21600	*	1.13	30	30 - 150
Endosulfan I	10.9	7.31	67.3		4.04	30	30 - 150
Dieldrin	10.9	8.90	82.0		2.05	30	30 - 150
4,4'-DDE	10.9	9.92	91.3		2.21	30	30 - 150
Endrin	10.9	20.5	189	*	2.87	30	30 - 150
Endosulfan II	10.9	10.7	98.3		2.40	30	30 - 150
4,4'-DDD	10.9	9.12	84.0		0.398	30	30 - 150
Endosulfan sulfate	10.9	10.5	97.0		3.38	30	30 - 150
4,4'-DDT	10.9	9.55	88.0		5.88	30	30 - 150
Methoxychlor	10.9	9.55	88.0		16.3	30	30 - 150
Endrin ketone	10.9	9.74	89.7		0.00	30	30 - 150
Endrin aldehyde	10.9	10.2	94.0		0.354	30	30 - 150
alpha-Chlordane	10.9	11.6	89.0		5.47	30	30 - 150
gamma-Chlordane	10.9	10.6	75.3		2.08	30	30 - 150

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14802.D\ECD1A.CH Vial: 17
Signal #2 : D:\G\DATA\DEC15\G1228\G14802.D\ECD2B.CH
Acq On : 28 Dec 2015 17:11 Operator: JAM
Sample : B5L2402-MSD1 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:03 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
1) AS	Tetrachloro-m-xy	4.62	4.91	1271782	1420516	0.721	0.684	
Spiked Amount	1.000	Range	30 - 150	Recovery	=	72.10%	68.40%	
22) AS	Decachlorobiphen	16.32	17.63	1635334	1763976	0.622	0.691	
Spiked Amount	1.000	Range	30 - 150	Recovery	=	62.20%	69.10%	
	Target Compounds							
2) A	alpha-BHC	5.34	6.18	534286	574654	0.253	0.243	
3) AM	gamma-BHC (Linda	5.93	6.90	520454	643262	0.252	0.276	
4) AM	Heptachlor	7.24	7.75	602564	398924	0.278m	0.238	
5) BM	Aldrin	7.89	8.37	744316	740916	0.387m	0.374	
6) B	beta-BHC	5.82	7.10	299462	361406	0.270	0.303	
7) B	delta-BHC	6.35f	7.67	551828	553728	0.301m	0.303	
8) B	Heptachlor Epoxi	8.66	9.46	127.0E6	757512	64.936	0.416	#
9) A	Endosulfan I	9.31	10.17	378242	547222	0.202	0.314	#
10) B	gamma-Chlordane	9.07	9.81	564720	622074	0.292	0.316m	
11) B	alpha-Chlordane	9.35	10.07	620866	559146	0.320m	0.296	
12) B	4,4'-DDE	9.70	10.40	487800	702406	0.274	0.398	#
13) AM	Dieldrin	9.79	10.67	457890	640132	0.246	0.374	#
14) AM	Endrin	10.19	11.21	852364	377678	0.566	0.307	#
15) B	Endosulfan II	10.37	11.60	482070	456928	0.295	0.303	
16) A	4,4'-DDD	10.47	11.44	343432	349836	0.252	0.287	
17) AM	4,4'-DDT	11.15	11.99	430868	450388	0.264m	0.302	
18) B	Endrin Aldehyde	10.71	12.21	405734	333144	0.282	0.221	
19) B	Endosulfan Sulfa	11.15	12.70	458992	356190	0.291m	0.259	
20) A	Methoxychlor	12.17	13.27	233444	218500	0.264	0.375	#
21) B	Endrin Ketone	12.01	13.78f	507216	433904	0.269	0.248	

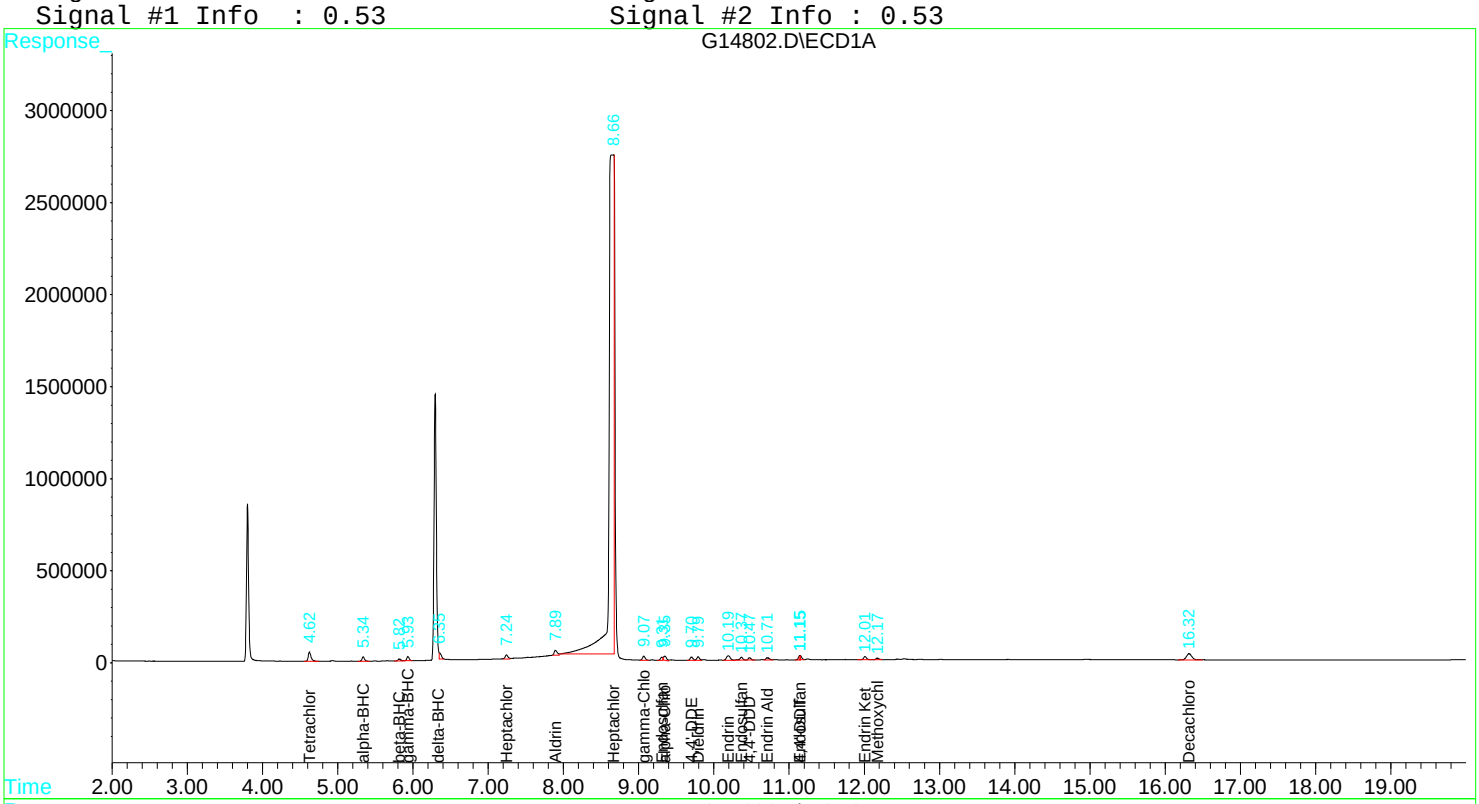
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

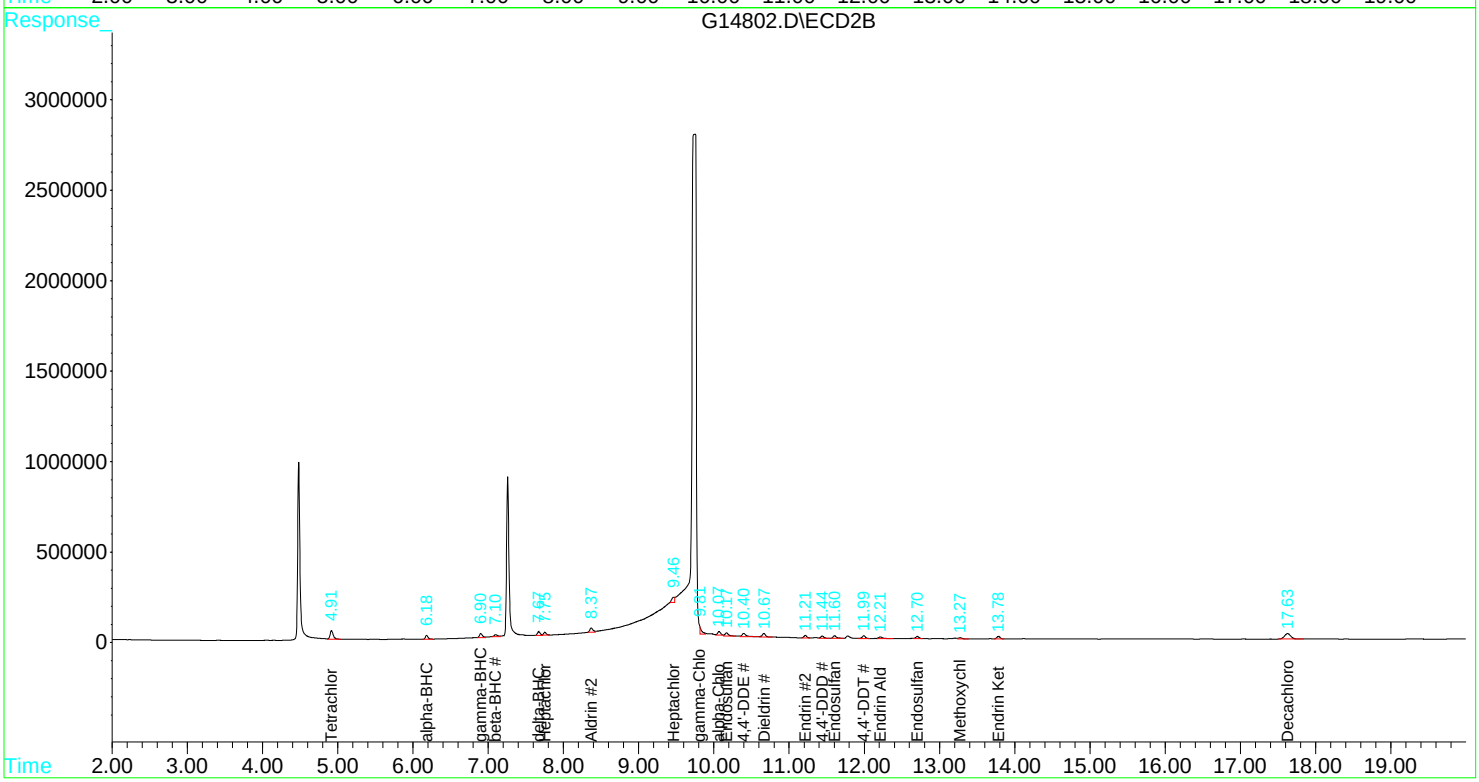
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14802.D\ECD1A.CH Vial: 17
Signal #2 : D:\G\DATA\DEC15\G1228\G14802.D\ECD2B.CH
Acq On : 28 Dec 2015 17:11 Operator: JAM
Sample : B5L2402-MSD1 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:03 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5L2402	Prep Method:	EPA 3550B
Percent Solids:	90.10	Laboratory ID:	B5L2402-MS2
Column:	1	Client Sample ID:	1502315-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016	370	ND	314	84.9	40 - 140
Aroclor-1016 (1)	370	0.00	370	99.9	40 - 140
Aroclor-1016 (2)	370	0.00	293	79.1	40 - 140
Aroclor-1016 (3)	370	0.00	280	75.7	40 - 140
Aroclor-1260	370	ND	444	120	40 - 140
Aroclor-1260 (1)	370	0.00	508	137	40 - 140
Aroclor-1260 (2)	370	0.00	516	139	40 - 140
Aroclor-1260 (3)	370	0.00	310	83.7	40 - 140

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14803.D\ECD1A.CH Vial: 18
Signal #2 : D:\G\DATA\DEC15\G1228\G14803.D\ECD2B.CH
Acq On : 28 Dec 2015 17:40 Operator: JAM
Sample : B5L2402-MS2 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:42 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 10:09:57 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) AS TCMX	4.62	4.91f	102119	107666	0.538	0.475
Spiked Amount 1.000			Recovery	=	53.80%	47.50%
29) AS DCB	16.32f	17.62f	158765	234404	0.534m	0.821m#
Spiked Amount 1.000			Recovery	=	53.40%	82.10%
Target Compounds						
2) L1 Aroclor-1016	6.43f	6.71	48422	55647	9.991	7.513
3) L1 Aroclor-1016 {2}	6.93f	7.58f	110848	78339	7.907	5.771 #
4) L1 Aroclor-1016 {3}	7.12f	7.83f	47719	38275	7.574m	5.995
20) L7 Aroclor-1260	10.31f	11.35f	134047	157537	13.730	13.349
21) L7 Aroclor-1260 {2}	11.24f	12.67f	198766	87054	13.935m	10.647m
22) L7 Aroclor-1260 {3}	12.44f	13.94f	172703	129177	8.373	9.077m

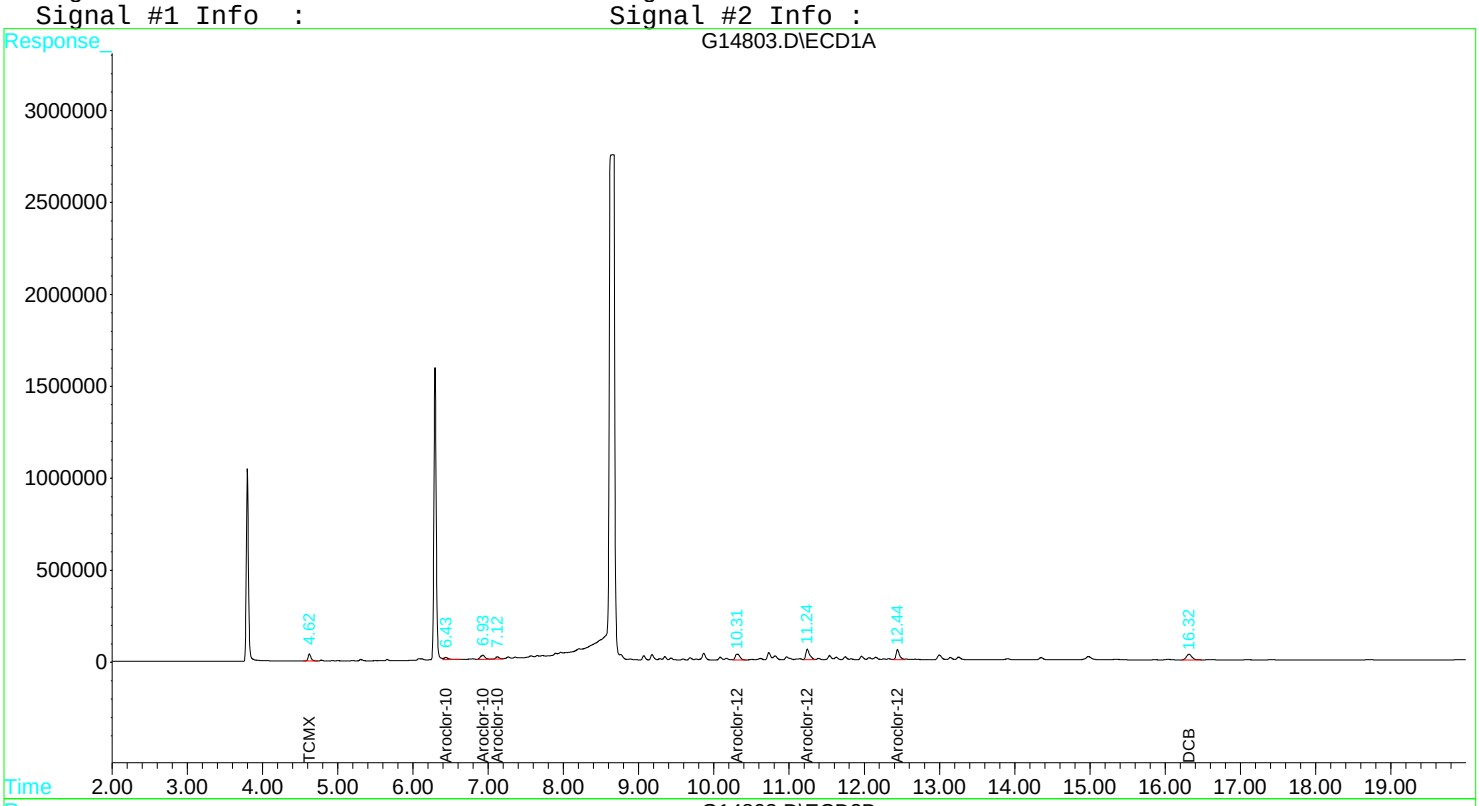
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

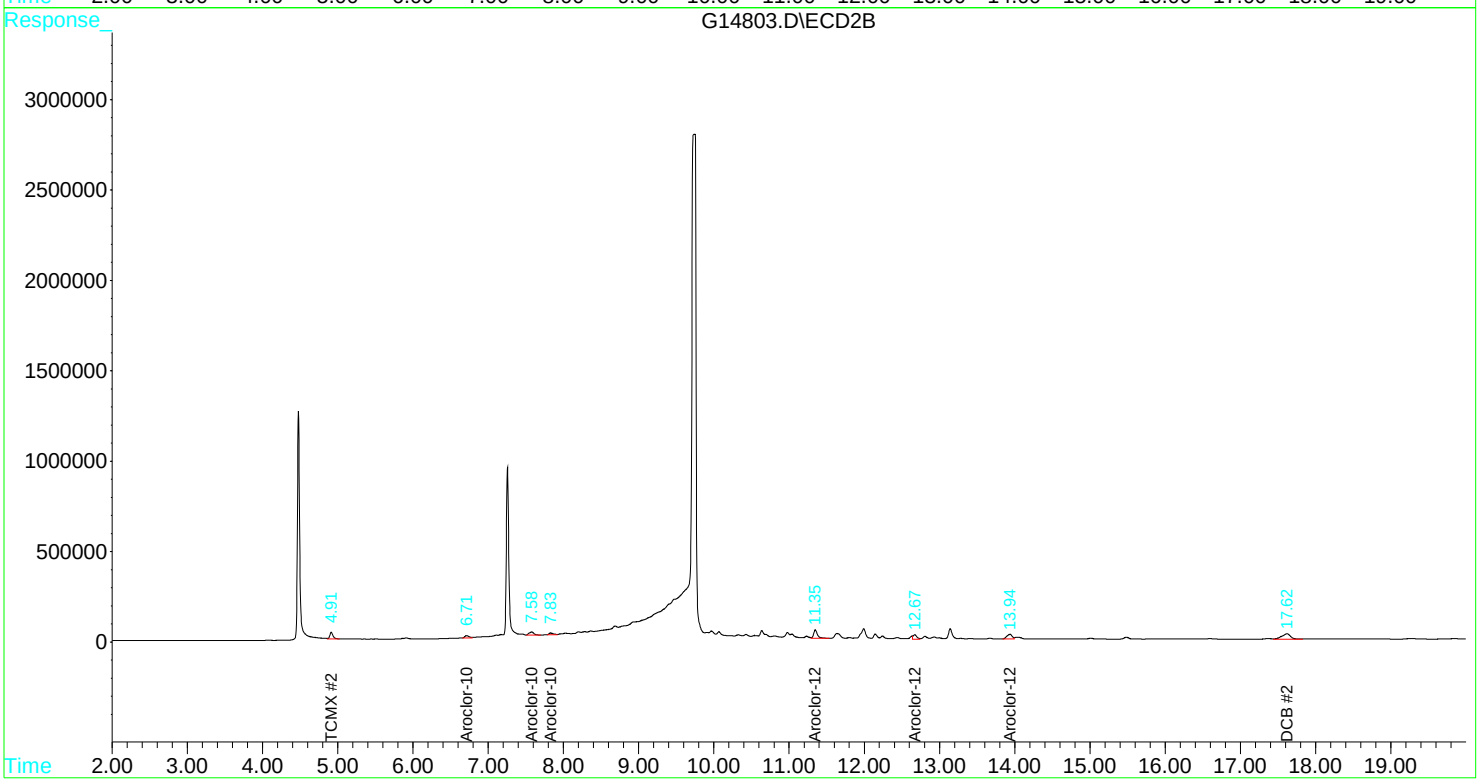
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14803.D\ECD1A.CH Vial: 18
Signal #2 : D:\G\DATA\DEC15\G1228\G14803.D\ECD2B.CH
Acq On : 28 Dec 2015 17:40 Operator: JAM
Sample : B5L2402-MS2 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:42 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 10:09:57 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :





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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5L2402	Prep Method:	EPA 3550B
Percent Solids:	90.10	Laboratory ID:	B5L2402-MSD2
Column:	1	Client Sample ID:	1502315-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	370	299	80.9	4.82	30	40 - 140
Aroclor-1016 (1)	370	362	97.8	2.15	30	40 - 140
Aroclor-1016 (2)	370	262	70.9	10.9	30	40 - 140
Aroclor-1016 (3)	370	274	74.1	2.22	30	40 - 140
Aroclor-1260	370	438	118	1.50	30	40 - 140
Aroclor-1260 (1)	370	506	137	0.445	30	40 - 140
Aroclor-1260 (2)	370	481	130	6.89	30	40 - 140
Aroclor-1260 (3)	370	326	88.3	5.26	30	40 - 140

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14804.D\ECD1A.CH Vial: 19
Signal #2 : D:\G\DATA\DEC15\G1228\G14804.D\ECD2B.CH
Acq On : 28 Dec 2015 18:09 Operator: JAM
Sample : B5L2402-MSD2 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:43 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 10:09:57 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) AS TCMX	4.62	4.91f	96355	95753	0.508	0.422
Spiked Amount 1.000			Recovery	=	50.80%	42.20%
29) AS DCB	16.31f	17.62f	149412	225256	0.503m	0.789m#
Spiked Amount 1.000			Recovery	=	50.30%	78.90%
Target Compounds						
2) L1 Aroclor-1016	6.43f	6.71	47392	50697	9.778m	6.845 #
3) L1 Aroclor-1016 {2}	6.93f	7.58f	99352	72459	7.087m	5.338
4) L1 Aroclor-1016 {3}	7.12f	7.83f	46672	35303	7.408m	5.529 #
20) L7 Aroclor-1260	10.31f	11.35f	133447	139939	13.669m	11.858
21) L7 Aroclor-1260 {2}	11.24f	12.67f	185531	87348	13.007m	10.683
22) L7 Aroclor-1260 {3}	12.44f	13.94f	182027	123560	8.825	8.682m

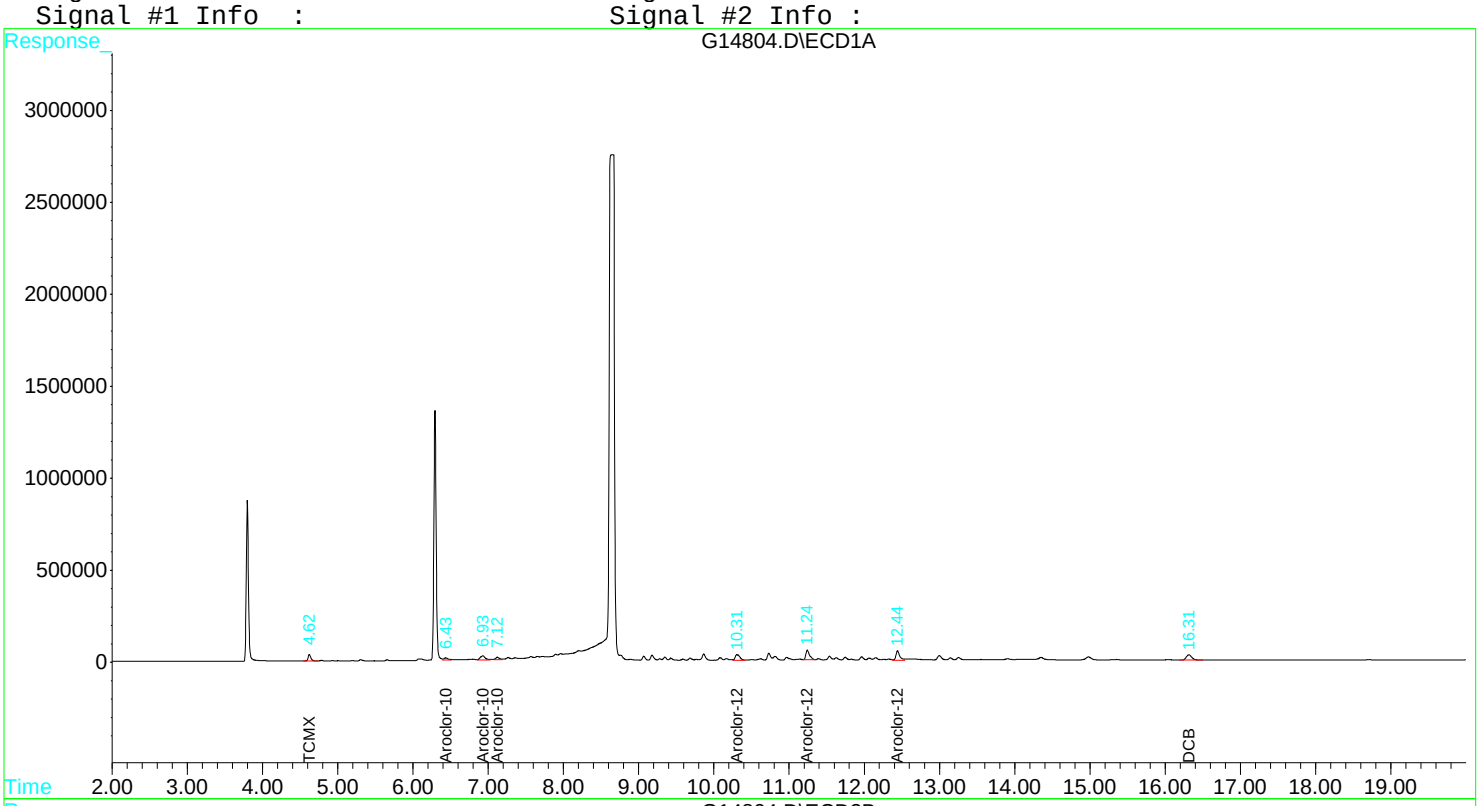
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

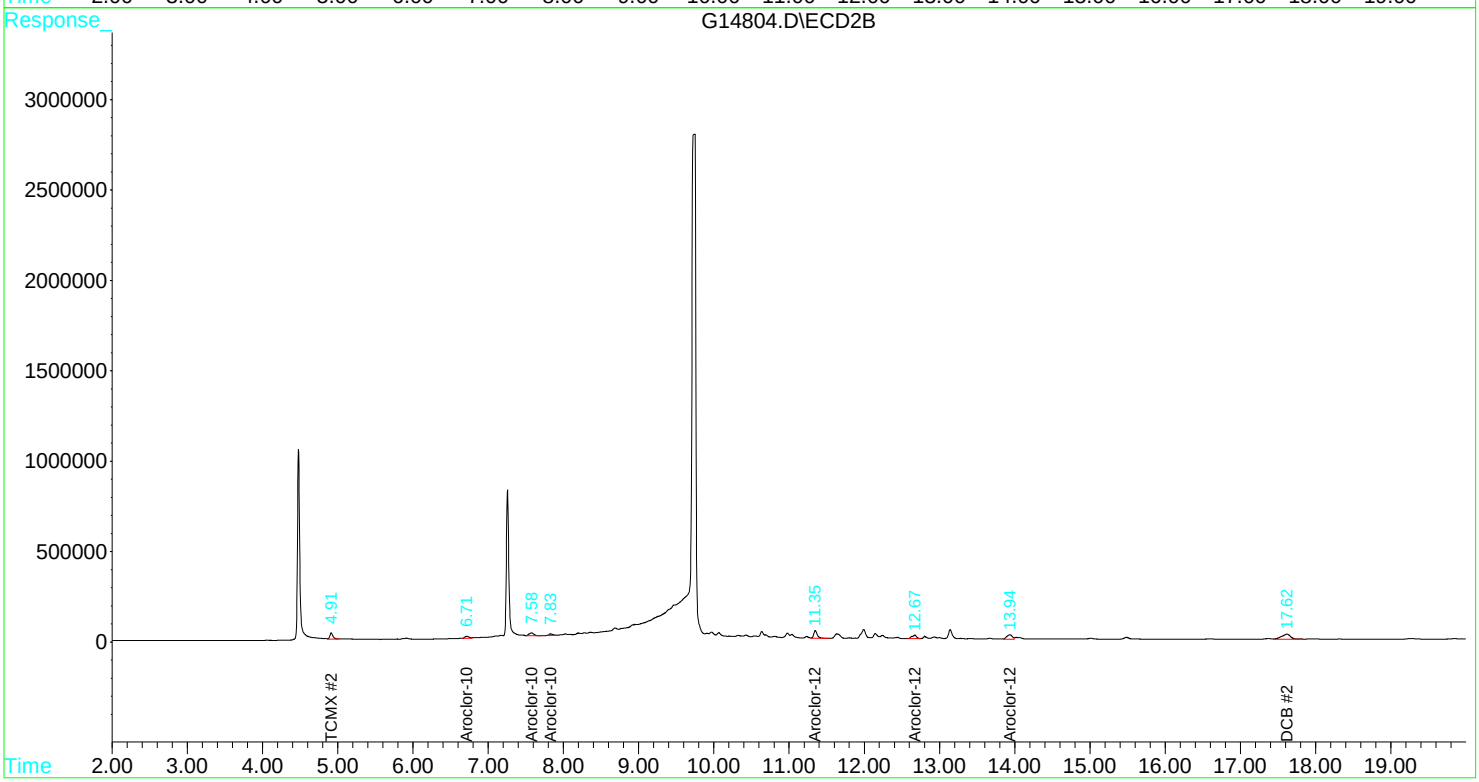
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14804.D\ECD1A.CH Vial: 19
Signal #2 : D:\G\DATA\DEC15\G1228\G14804.D\ECD2B.CH
Acq On : 28 Dec 2015 18:09 Operator: JAM
Sample : B5L2402-MSD2 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:43 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 10:09:57 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :





Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5L2402	Prep Method:	EPA 3550B
Percent Solids:	92.10	Laboratory ID:	B5L2402-MS1
Column:	2	Client Sample ID:	1502315-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
alpha-BHC [2C]	10.9	ND	8.76	80.7	30 - 150
beta-BHC [2C]	10.9	ND	11.0	101	30 - 150
delta-BHC [2C]	10.9	ND	10.9	100	30 - 150
gamma-BHC [Lindane] [2C]	10.9	ND	10.1	93.0	30 - 150
Heptachlor [2C]	10.9	ND	9.01	83.0	30 - 150
Aldrin [2C]	10.9	ND	13.1	121	30 - 150
Heptachlor Epoxide [2C]	10.9	ND	14.8	137	30 - 150
Endosulfan I [2C]	10.9	ND	11.1	102	30 - 150
Dieldrin [2C]	10.9	ND	13.1	120	30 - 150
4,4'-DDE [2C]	10.9	ND	14.1	130	30 - 150
Endrin [2C]	10.9	ND	10.8	99.3	30 - 150
Endosulfan II [2C]	10.9	ND	12.0	111	30 - 150
4,4'-DDD [2C]	10.9	ND	9.45	87.0	30 - 150
Endosulfan sulfate [2C]	10.9	ND	9.19	84.7	30 - 150
4,4'-DDT [2C]	10.9	ND	9.84	90.7	30 - 150
Methoxychlor [2C]	10.9	ND	13.7	126	30 - 150
Endrin ketone [2C]	10.9	ND	8.65	79.7	30 - 150
Endrin aldehyde [2C]	10.9	ND	8.65	79.7	30 - 150
alpha-Chlordane [2C]	10.9	2.39	10.4	74.0	30 - 150
gamma-Chlordane [2C]	10.9	2.79	10.6	71.7	30 - 150

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14801.D\ECD1A.CH Vial: 16
Signal #2 : D:\G\DATA\DEC15\G1228\G14801.D\ECD2B.CH
Acq On : 28 Dec 2015 16:41 Operator: JAM
Sample : B5L2402-MS1 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:04 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) AS	Tetrachloro-m-xy	4.62	4.91	1258838	1406722	0.714	0.677
Spiked Amount	1.000	Range	30 - 150	Recovery	=	71.40%	67.70%
22) AS	Decachlorobiphen	16.32	17.63	1620284	1746776	0.616	0.685
Spiked Amount	1.000	Range	30 - 150	Recovery	=	61.60%	68.50%
	Target Compounds						
2) A	alpha-BHC	5.34	6.18	529290	570670	0.251	0.242
3) AM	gamma-BHC (Linda	5.93	6.90	516082	649182	0.250	0.279
4) AM	Heptachlor	7.24	7.75	707276	416806	0.327	0.249
5) BM	Aldrin	7.89	8.37	796054	718576	0.414m	0.363
6) B	beta-BHC	5.82	7.10	299328	361104	0.270	0.303
7) B	delta-BHC	6.35f	7.67	510080	548010	0.278m	0.300
8) B	Heptachlor Epoxi	8.67	9.46	125.5E6	747878	64.209	0.410 #
9) A	Endosulfan I	9.31	10.17	362972	535496	0.194	0.307 #
10) B	gamma-Chlordane	9.07	9.81	553230	574882	0.286	0.292m
11) B	alpha-Chlordane	9.35	10.07	654404	545544	0.338m	0.288
12) B	4,4'-DDE	9.70	10.40	476348	687166	0.268	0.389 #
13) AM	Dieldrin	9.79	10.67	448484	618214	0.241	0.361 #
14) AM	Endrin	10.19	11.21	828490	365822	0.550	0.298 #
15) B	Endosulfan II	10.37	11.60	470706	499958	0.288	0.332
16) A	4,4'-DDD	10.47	11.44	342566	318456	0.251	0.261
17) AM	4,4'-DDT	11.15	11.99	457680	405566	0.280m	0.272
18) B	Endrin Aldehyde	10.71	12.21	406918	359326	0.283	0.239m
19) B	Endosulfan Sulfa	11.15	12.71	473642	350482	0.301m	0.254
20) A	Methoxychlor	12.17	13.28	274626	220970	0.311	0.379
21) B	Endrin Ketone	12.01	13.78f	507390	419168	0.269	0.239

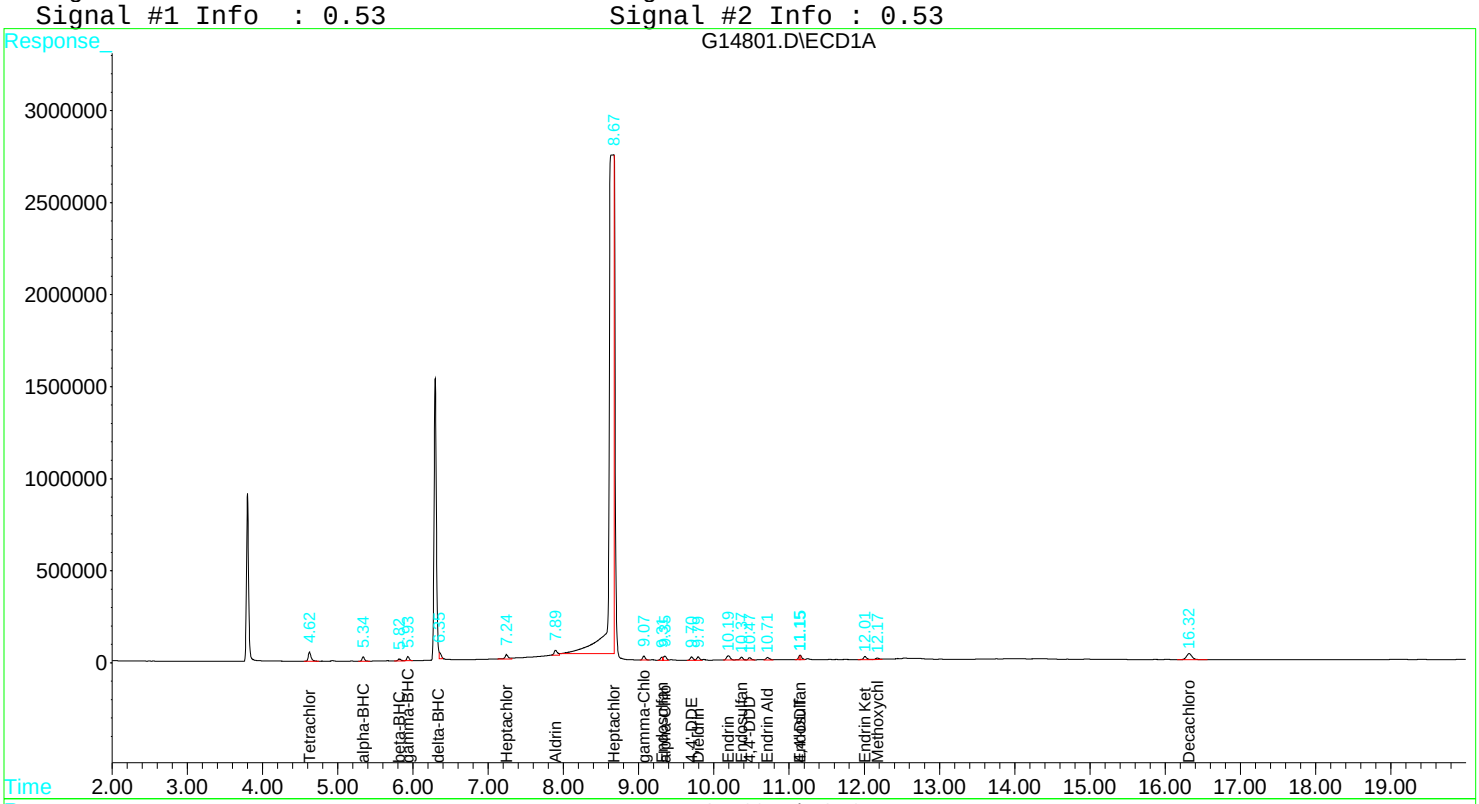
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

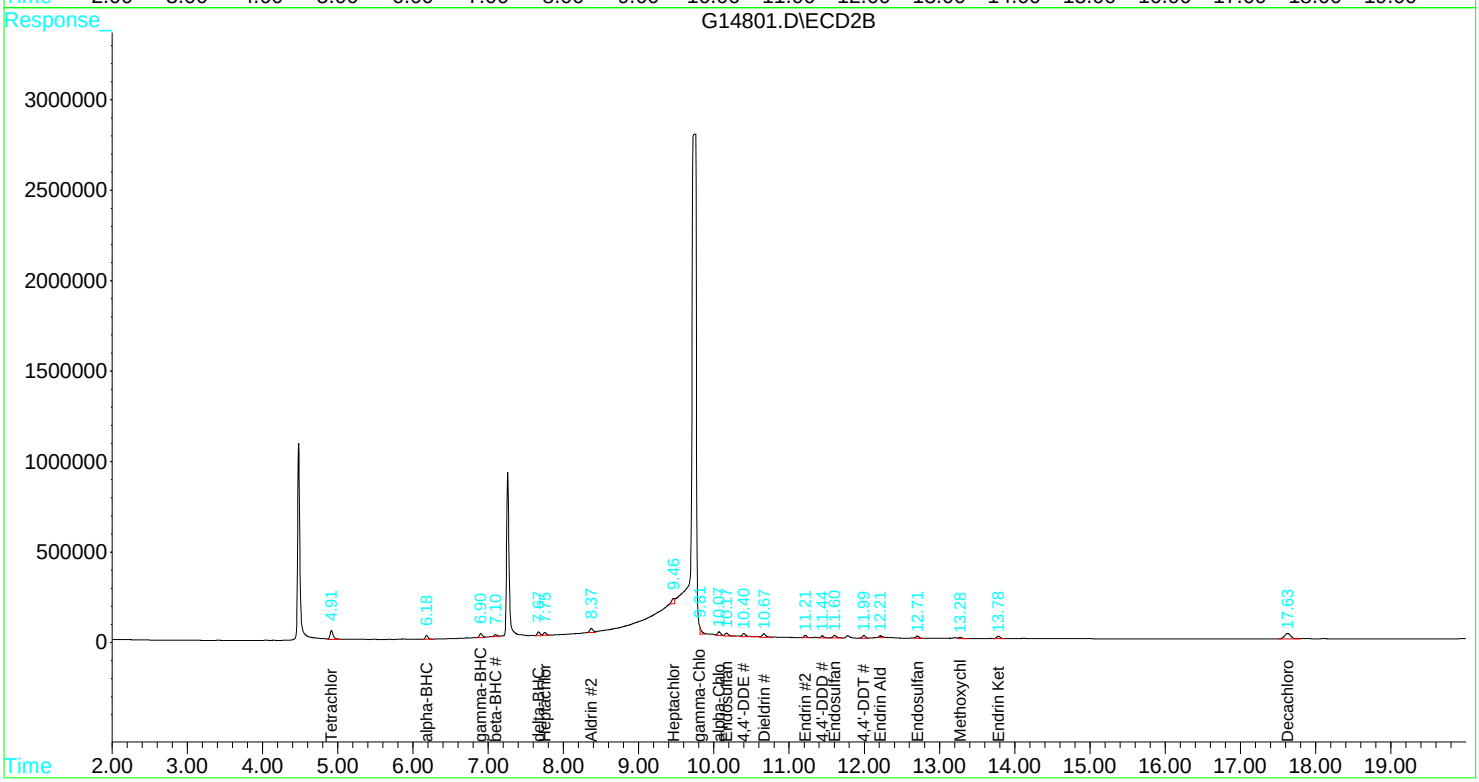
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14801.D\ECD1A.CH Vial: 16
Signal #2 : D:\G\DATA\DEC15\G1228\G14801.D\ECD2B.CH
Acq On : 28 Dec 2015 16:41 Operator: JAM
Sample : B5L2402-MS1 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:04 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5L2402	Prep Method:	EPA 3550B
Percent Solids:	92.10	Laboratory ID:	B5L2402-MSD1
Column:	2	Client Sample ID:	1502315-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC [2C]	10.9	8.79	81.0	0.412	30	30 - 150
beta-BHC [2C]	10.9	11.0	101	0.00	30	30 - 150
delta-BHC [2C]	10.9	11.0	101	0.995	30	30 - 150
gamma-BHC [Lindane] [2C]	10.9	9.99	92.0	1.08	30	30 - 150
Heptachlor [2C]	10.9	8.61	79.3	4.52	30	30 - 150
Aldrin [2C]	10.9	13.5	125	2.99	30	30 - 150
Heptachlor Epoxide [2C]	10.9	15.1	139	1.45	30	30 - 150
Endosulfan I [2C]	10.9	11.4	105	2.25	30	30 - 150
Dieldrin [2C]	10.9	13.5	125	3.54	30	30 - 150
4,4'-DDE [2C]	10.9	14.4	133	2.29	30	30 - 150
Endrin [2C]	10.9	11.1	102	2.98	30	30 - 150
Endosulfan II [2C]	10.9	11.0	101	9.13	30	30 - 150
4,4'-DDD [2C]	10.9	10.4	95.7	9.49	30	30 - 150
Endosulfan sulfate [2C]	10.9	9.37	86.3	1.95	30	30 - 150
4,4'-DDT [2C]	10.9	10.9	101	10.5	30	30 - 150
Methoxychlor [2C]	10.9	13.6	125	1.06	30	30 - 150
Endrin ketone [2C]	10.9	8.98	82.7	3.70	30	30 - 150
Endrin aldehyde [2C]	10.9	8.00	73.7	7.83	30	30 - 150
alpha-Chlordane [2C]	10.9	10.7	76.7	2.74	30	30 - 150
gamma-Chlordane [2C]	10.9	11.4	79.7	7.89	30	30 - 150

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14802.D\ECD1A.CH Vial: 17
Signal #2 : D:\G\DATA\DEC15\G1228\G14802.D\ECD2B.CH
Acq On : 28 Dec 2015 17:11 Operator: JAM
Sample : B5L2402-MSD1 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:03 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
1) AS	Tetrachloro-m-xy	4.62	4.91	1271782	1420516	0.721	0.684	
Spiked Amount	1.000 Range	30 - 150	Recovery	=		72.10%	68.40%	
22) AS	Decachlorobiphen	16.32	17.63	1635334	1763976	0.622	0.691	
Spiked Amount	1.000 Range	30 - 150	Recovery	=		62.20%	69.10%	
	Target Compounds							
2) A	alpha-BHC	5.34	6.18	534286	574654	0.253	0.243	
3) AM	gamma-BHC (Linda	5.93	6.90	520454	643262	0.252	0.276	
4) AM	Heptachlor	7.24	7.75	602564	398924	0.278m	0.238	
5) BM	Aldrin	7.89	8.37	744316	740916	0.387m	0.374	
6) B	beta-BHC	5.82	7.10	299462	361406	0.270	0.303	
7) B	delta-BHC	6.35f	7.67	551828	553728	0.301m	0.303	
8) B	Heptachlor Epoxi	8.66	9.46	127.0E6	757512	64.936	0.416	#
9) A	Endosulfan I	9.31	10.17	378242	547222	0.202	0.314	#
10) B	gamma-Chlordane	9.07	9.81	564720	622074	0.292	0.316m	
11) B	alpha-Chlordane	9.35	10.07	620866	559146	0.320m	0.296	
12) B	4,4'-DDE	9.70	10.40	487800	702406	0.274	0.398	#
13) AM	Dieldrin	9.79	10.67	457890	640132	0.246	0.374	#
14) AM	Endrin	10.19	11.21	852364	377678	0.566	0.307	#
15) B	Endosulfan II	10.37	11.60	482070	456928	0.295	0.303	
16) A	4,4'-DDD	10.47	11.44	343432	349836	0.252	0.287	
17) AM	4,4'-DDT	11.15	11.99	430868	450388	0.264m	0.302	
18) B	Endrin Aldehyde	10.71	12.21	405734	333144	0.282	0.221	
19) B	Endosulfan Sulfa	11.15	12.70	458992	356190	0.291m	0.259	
20) A	Methoxychlor	12.17	13.27	233444	218500	0.264	0.375	#
21) B	Endrin Ketone	12.01	13.78f	507216	433904	0.269	0.248	

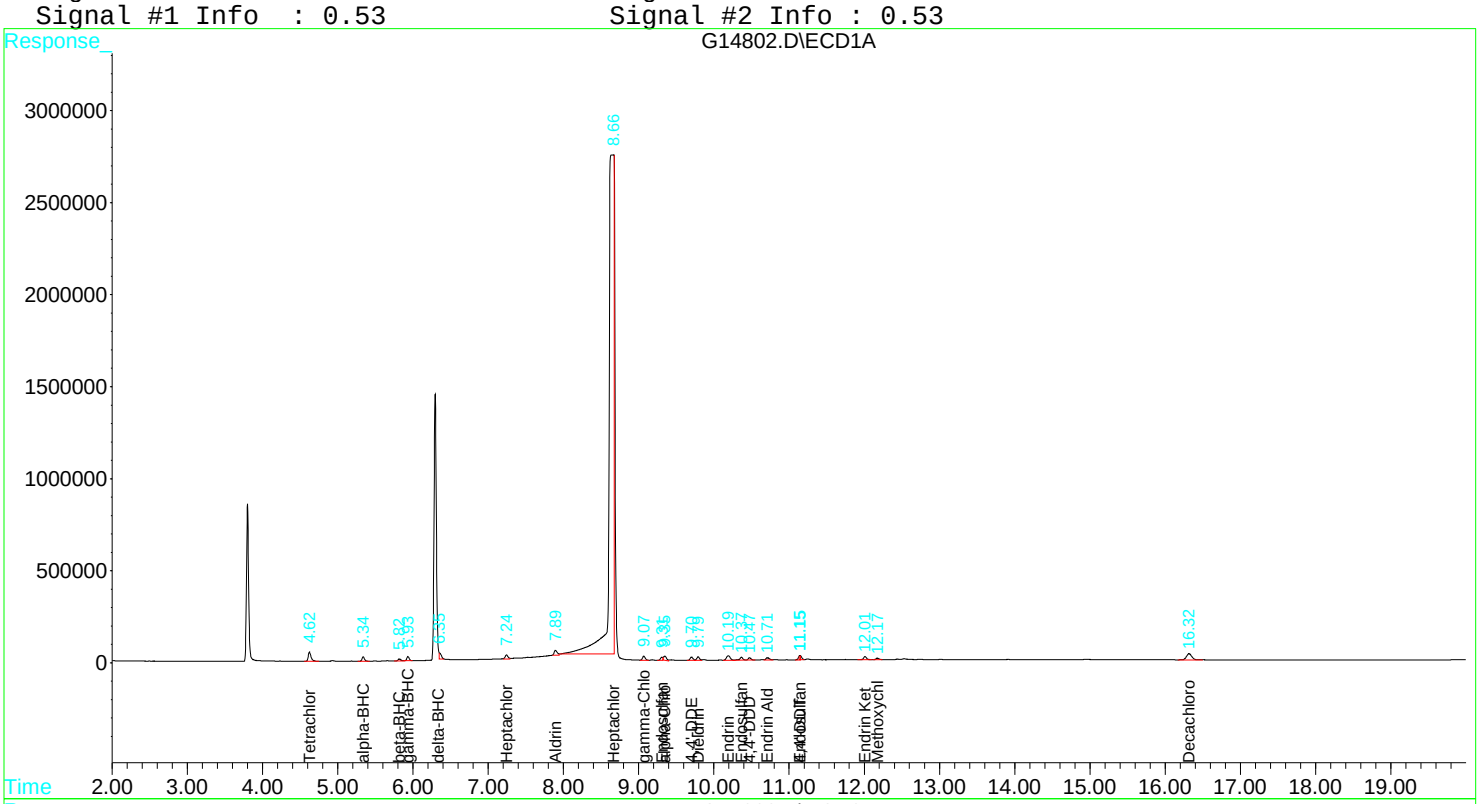
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

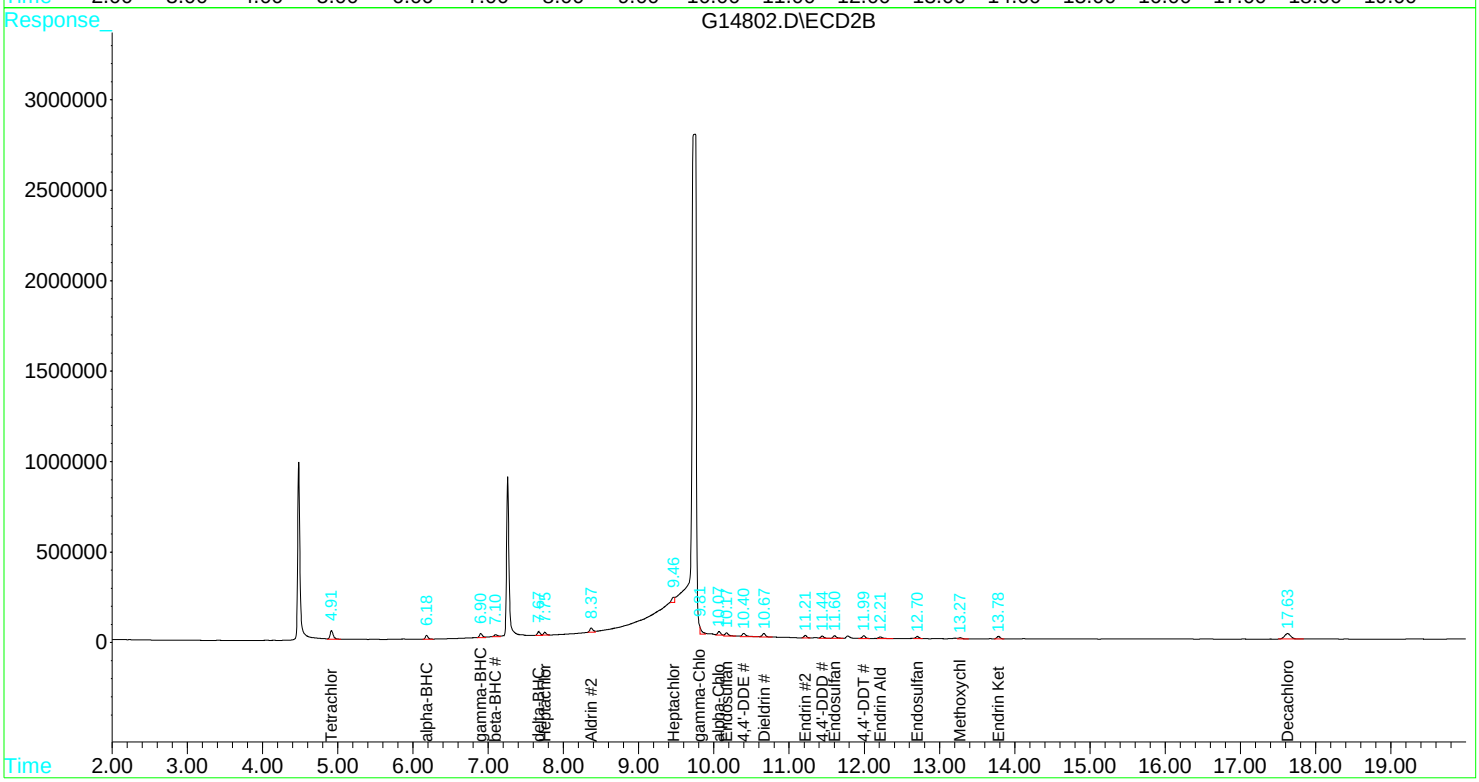
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14802.D\ECD1A.CH Vial: 17
Signal #2 : D:\G\DATA\DEC15\G1228\G14802.D\ECD2B.CH
Acq On : 28 Dec 2015 17:11 Operator: JAM
Sample : B5L2402-MSD1 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:03 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5L2402	Prep Method:	EPA 3550B
Percent Solids:	90.10	Laboratory ID:	B5L2402-MS2
Column:	2	Client Sample ID:	1502315-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	370	ND	238	64.3	40 - 140
Aroclor-1016 (1) [2C]	370	0.00	278	75.1	40 - 140
Aroclor-1016 (2) [2C]	370	0.00	214	57.7	40 - 140
Aroclor-1016 (3) [2C]	370	0.00	222	60.0	40 - 140
Aroclor-1260 [2C]	370	ND	408	110	40 - 140
Aroclor-1260 (1) [2C]	370	0.00	494	133	40 - 140
Aroclor-1260 (2) [2C]	370	0.00	394	106	40 - 140
Aroclor-1260 (3) [2C]	370	0.00	336	90.8	40 - 140

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14803.D\ECD1A.CH Vial: 18
Signal #2 : D:\G\DATA\DEC15\G1228\G14803.D\ECD2B.CH
Acq On : 28 Dec 2015 17:40 Operator: JAM
Sample : B5L2402-MS2 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:42 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 10:09:57 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) AS TCMX	4.62	4.91f	102119	107666	0.538	0.475
Spiked Amount 1.000			Recovery	=	53.80%	47.50%
29) AS DCB	16.32f	17.62f	158765	234404	0.534m	0.821m#
Spiked Amount 1.000			Recovery	=	53.40%	82.10%
Target Compounds						
2) L1 Aroclor-1016	6.43f	6.71	48422	55647	9.991	7.513
3) L1 Aroclor-1016 {2}	6.93f	7.58f	110848	78339	7.907	5.771 #
4) L1 Aroclor-1016 {3}	7.12f	7.83f	47719	38275	7.574m	5.995
20) L7 Aroclor-1260	10.31f	11.35f	134047	157537	13.730	13.349
21) L7 Aroclor-1260 {2}	11.24f	12.67f	198766	87054	13.935m	10.647m
22) L7 Aroclor-1260 {3}	12.44f	13.94f	172703	129177	8.373	9.077m

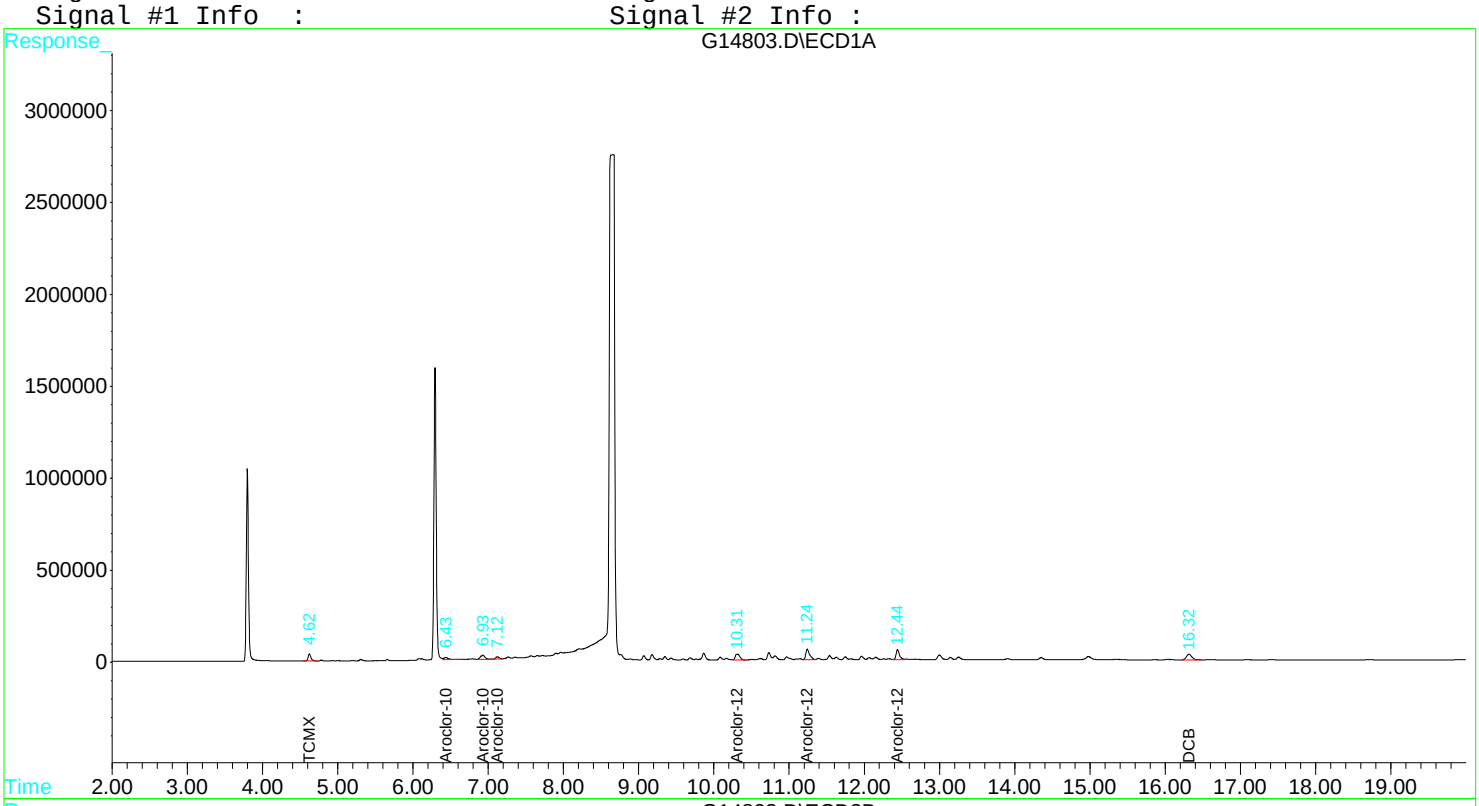
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

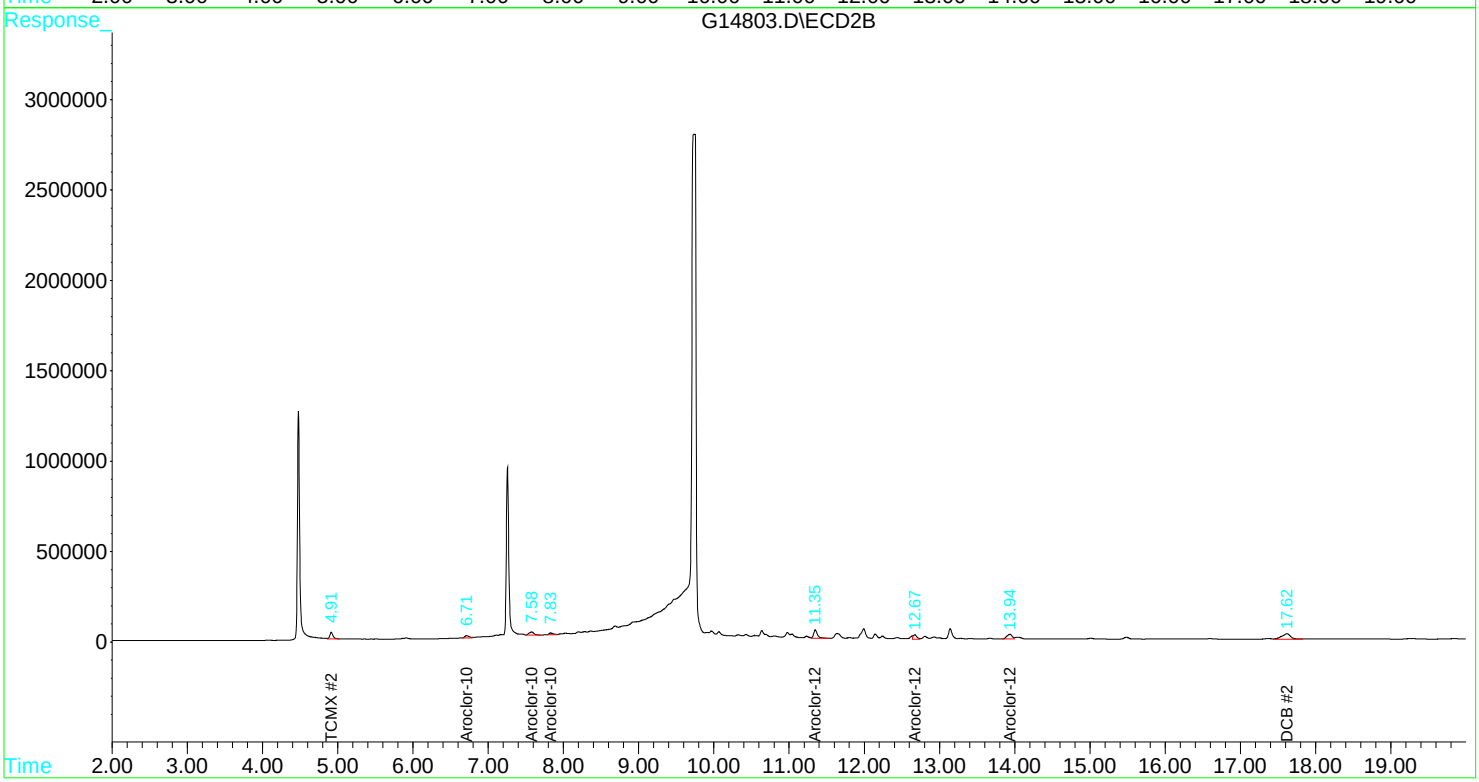
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14803.D\ECD1A.CH Vial: 18
Signal #2 : D:\G\DATA\DEC15\G1228\G14803.D\ECD2B.CH
Acq On : 28 Dec 2015 17:40 Operator: JAM
Sample : B5L2402-MS2 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:42 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 10:09:57 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :





MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8081/8082
Prep Batch:	B5L2402	Prep Method:	EPA 3550B
Percent Solids:	90.10	Laboratory ID:	B5L2402-MSD2
Column:	2	Client Sample ID:	1502315-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016 [2C]	370	218	59.0	8.47	30	40 - 140
Aroclor-1016 (1) [2C]	370	253	68.4	9.30	30	40 - 140
Aroclor-1016 (2) [2C]	370	197	53.4	7.80	30	40 - 140
Aroclor-1016 (3) [2C]	370	205	55.3	8.09	30	40 - 140
Aroclor-1260 [2C]	370	385	104	5.75	30	40 - 140
Aroclor-1260 (1) [2C]	370	439	119	11.8	30	40 - 140
Aroclor-1260 (2) [2C]	370	395	107	0.338	30	40 - 140
Aroclor-1260 (3) [2C]	370	321	86.8	4.45	30	40 - 140

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14804.D\ECD1A.CH Vial: 19
Signal #2 : D:\G\DATA\DEC15\G1228\G14804.D\ECD2B.CH
Acq On : 28 Dec 2015 18:09 Operator: JAM
Sample : B5L2402-MSD2 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:43 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 10:09:57 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) AS TCMX	4.62	4.91f	96355	95753	0.508	0.422
Spiked Amount 1.000			Recovery	=	50.80%	42.20%
29) AS DCB	16.31f	17.62f	149412	225256	0.503m	0.789m#
Spiked Amount 1.000			Recovery	=	50.30%	78.90%
Target Compounds						
2) L1 Aroclor-1016	6.43f	6.71	47392	50697	9.778m	6.845 #
3) L1 Aroclor-1016 {2}	6.93f	7.58f	99352	72459	7.087m	5.338
4) L1 Aroclor-1016 {3}	7.12f	7.83f	46672	35303	7.408m	5.529 #
20) L7 Aroclor-1260	10.31f	11.35f	133447	139939	13.669m	11.858
21) L7 Aroclor-1260 {2}	11.24f	12.67f	185531	87348	13.007m	10.683
22) L7 Aroclor-1260 {3}	12.44f	13.94f	182027	123560	8.825	8.682m

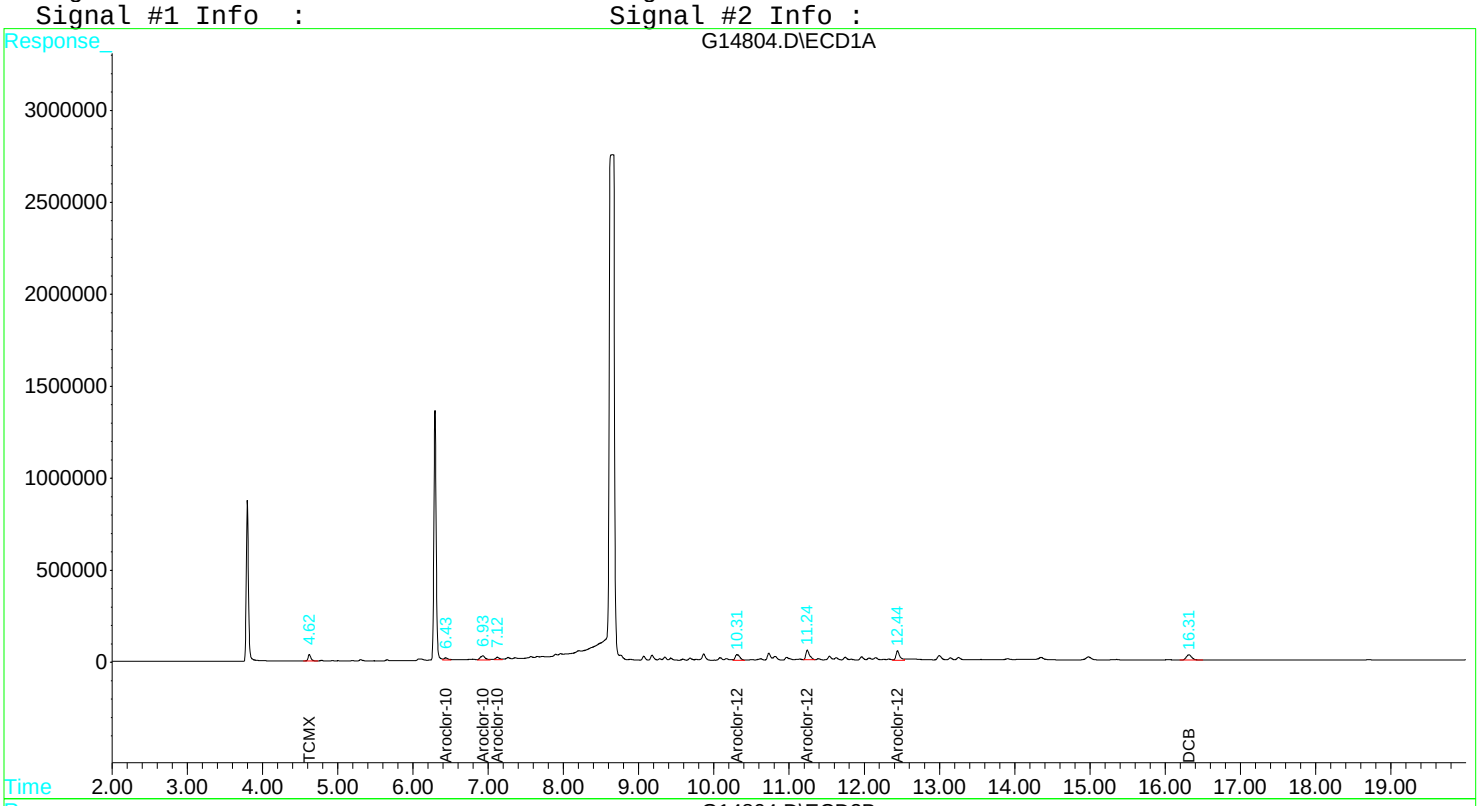
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

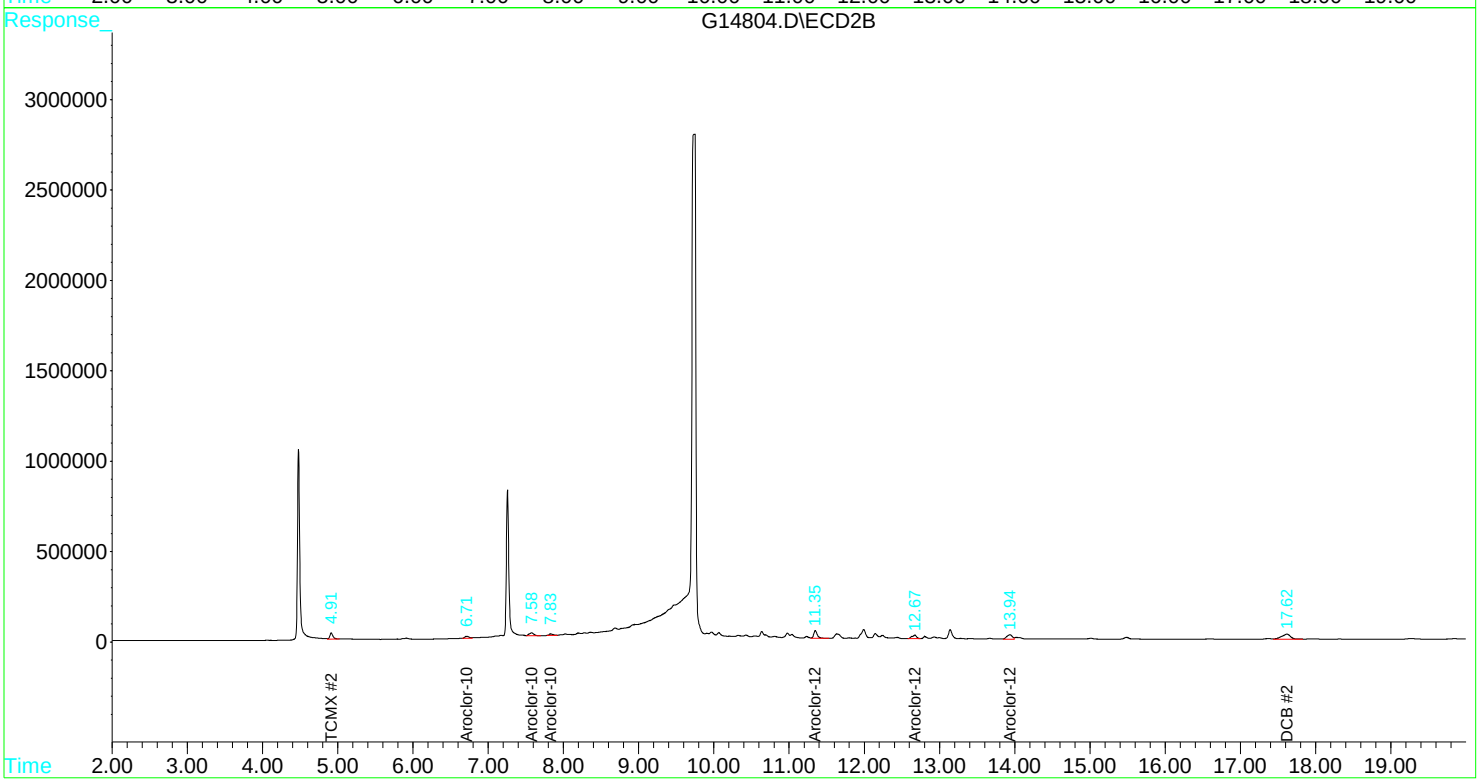
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14804.D\ECD1A.CH Vial: 19
Signal #2 : D:\G\DATA\DEC15\G1228\G14804.D\ECD2B.CH
Acq On : 28 Dec 2015 18:09 Operator: JAM
Sample : B5L2402-MSD2 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:43 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 10:09:57 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :





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LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Prep Method:	EPA 3550B
Prep Batch:	B5L2402	Lab Sample ID:	B5L2402-BS1
Column:	1		

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
alpha-BHC	10.0	9.63	96.3	40 - 140
beta-BHC	10.0	10.1	101	40 - 140
delta-BHC	10.0	11.1	111	40 - 140
gamma-BHC [Lindane]	10.0	10.0	100	40 - 140
Heptachlor	10.0	9.80	98.0	40 - 140
Aldrin	10.0	9.87	98.7	40 - 140
Heptachlor Epoxide	10.0	10.7	107	40 - 140
Endosulfan I	10.0	8.63	86.3	40 - 140
Dieldrin	10.0	10.1	101	40 - 140
4,4'-DDE	10.0	9.93	99.3	40 - 140
Endrin	10.0	11.3	113	40 - 140
Endosulfan II	10.0	10.3	103	40 - 140
4,4'-DDD	10.0	9.70	97.0	40 - 140
Endosulfan sulfate	10.0	9.67	96.7	40 - 140
4,4'-DDT	10.0	10.9	109	40 - 140
Methoxychlor	10.0	11.0	110	40 - 140
Endrin ketone	10.0	11.0	110	40 - 140
Endrin aldehyde	10.0	10.8	108	40 - 140
alpha-Chlordane	10.0	11.7	117	40 - 140
gamma-Chlordane	10.0	10.5	105	40 - 140

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14794.D\ECD1A.CH Vial: 9
Signal #2 : D:\G\DATA\DEC15\G1228\G14794.D\ECD2B.CH
Acq On : 28 Dec 2015 13:17 Operator: JAM
Sample : B5L2402-BS1 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 13:46 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) AS	Tetrachloro-m-xy	4.62	4.92	1363648	1560460	0.773	0.751
Spiked Amount	1.000 Range 30 - 150 Recovery =					77.30%	75.10%
22) AS	Decachlorobiphen	16.31	17.62f	2495442	2447284	0.949	0.959
Spiked Amount	1.000 Range 30 - 150 Recovery =					94.90%	95.90%
	Target Compounds						
2) A	alpha-BHC	5.33	6.18	608810	636224	0.289	0.269
3) AM	gamma-BHC (Linda	5.93	6.90	620538	652434	0.300	0.280
4) AM	Heptachlor	7.24	7.75	637580	662748	0.294	0.395 #
5) BM	Aldrin	7.89	8.36	569628	578324	0.296	0.292
6) B	beta-BHC	5.81	7.10	335088	352842	0.302	0.296
7) B	delta-BHC	6.36	7.67	610520	554454	0.333	0.304m
8) B	Heptachlor Epoxi	8.63	9.45	629200	553714	0.322	0.304
9) A	Endosulfan I	9.30	10.17	485498	529216	0.259m	0.303
10) B	gamma-Chlordane	9.06	9.80	609900	593078	0.315	0.301
11) B	alpha-Chlordane	9.34	10.07	682684	574762	0.352	0.304
12) B	4,4'-DDE	9.70	10.40	530628	549612	0.298m	0.312
13) AM	Dieldrin	9.79	10.66	562572	510978	0.302	0.299
14) AM	Endrin	10.20	11.21	510840	456344	0.339	0.371
15) B	Endosulfan II	10.36	11.60	505952	485276	0.310	0.322
16) A	4,4'-DDD	10.47	11.45	396726	367980	0.291	0.302
17) AM	4,4'-DDT	11.14	11.99	536144	433228	0.328m	0.291
18) B	Endrin Aldehyde	10.71	12.21	465438	471096	0.324	0.313
19) B	Endosulfan Sulfa	11.14	12.70	457300	433732	0.290m	0.315
20) A	Methoxychlor	12.17	13.28	290180	238868	0.329	0.410
21) B	Endrin Ketone	12.00	13.78f	622888	587804	0.330	0.335

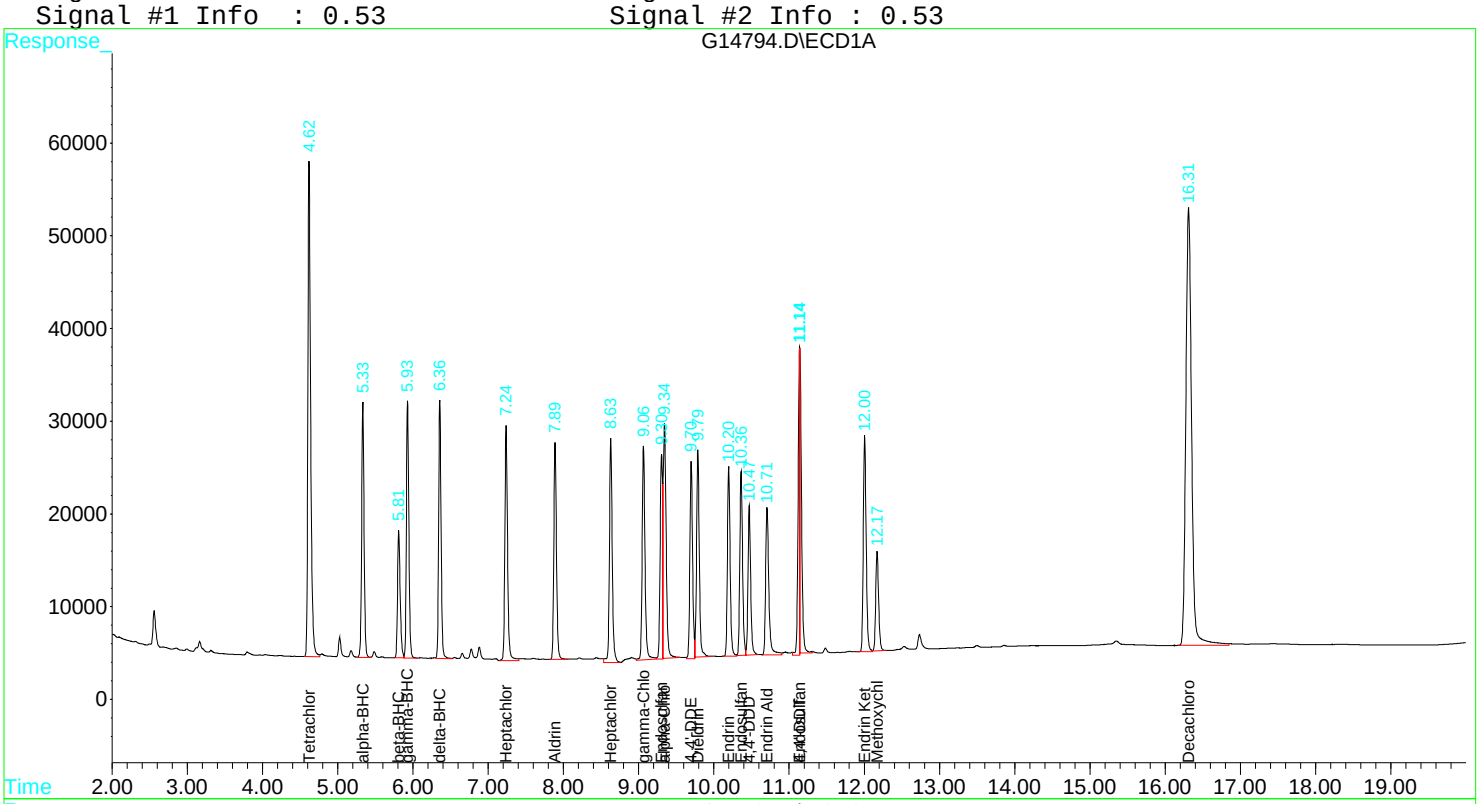
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

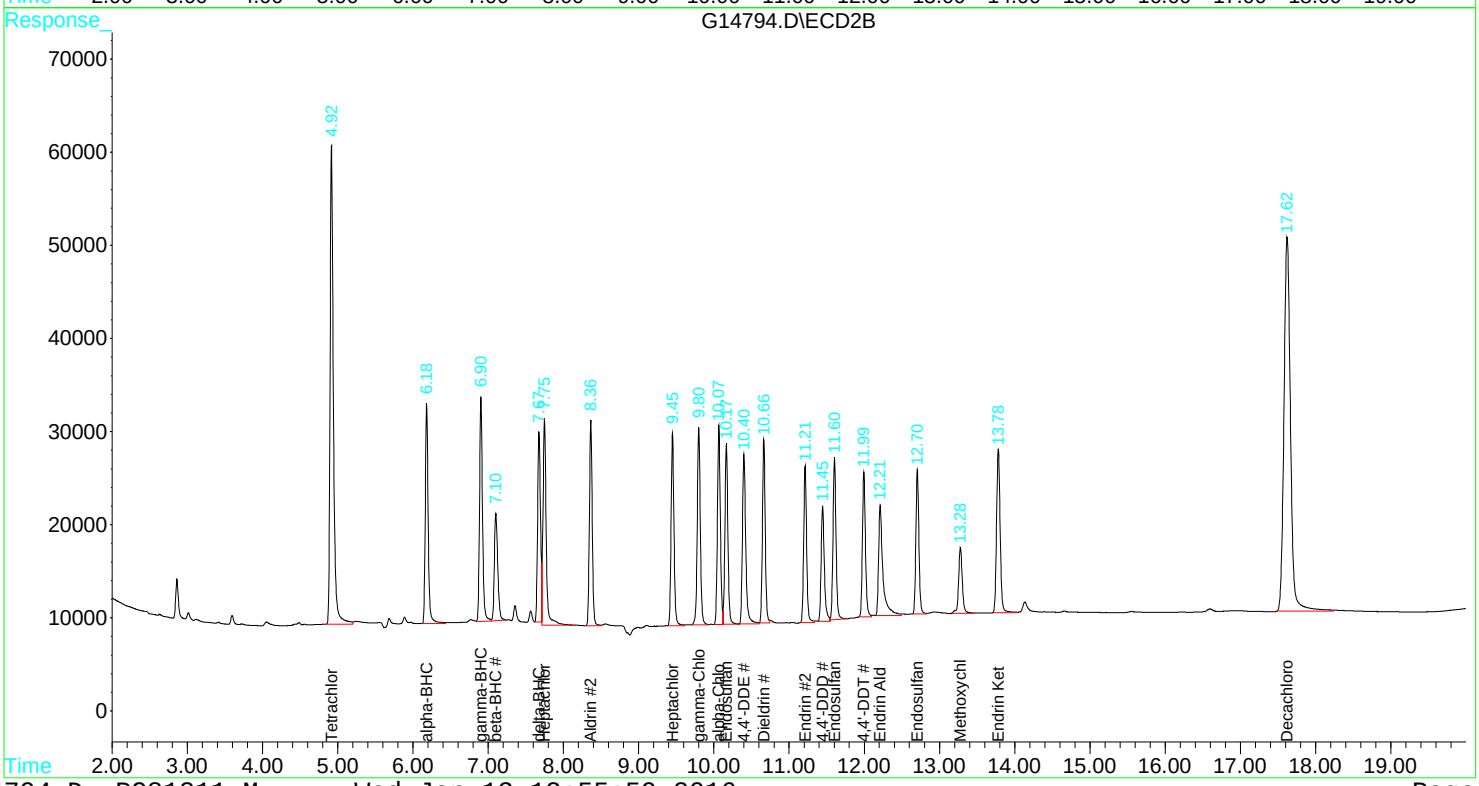
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14794.D\ECD1A.CH Vial: 9
Signal #2 : D:\G\DATA\DEC15\G1228\G14794.D\ECD2B.CH
Acq On : 28 Dec 2015 13:17 Operator: JAM
Sample : B5L2402-BS1 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 13:46 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Prep Method:	EPA 3550B
Prep Batch:	B5L2402	Lab Sample ID:	B5L2402-BS2
Column:	1		

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	333	325	97.4	40 - 140
Aroclor-1016 (1)	333	316	94.8	40 - 140
Aroclor-1016 (2)	333	346	104	40 - 140
Aroclor-1016 (3)	333	312	93.6	40 - 140
Aroclor-1260	333	316	94.7	40 - 140
Aroclor-1260 (1)	333	298	89.5	40 - 140
Aroclor-1260 (2)	333	293	87.9	40 - 140
Aroclor-1260 (3)	333	355	107	40 - 140

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14805.D\ECD1A.CH Vial: 20
Signal #2 : D:\G\DATA\DEC15\G1228\G14805.D\ECD2B.CH
Acq On : 28 Dec 2015 18:38 Operator: JAM
Sample : B5L2402-BS2 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:18 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 10:09:57 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) AS TCMX	4.62	4.91f	162200	173570	0.855	0.766
Spiked Amount 1.000			Recovery	=	85.50%	76.60%
29) AS DCB	16.31f	17.62f	254954	259434	0.858m	0.909m
Spiked Amount 1.000			Recovery	=	85.80%	90.90%
Target Compounds						
2) L1 Aroclor-1016	6.43f	6.70f	45930	66571	9.476	8.988
3) L1 Aroclor-1016 {2}	6.93f	7.58f	145607	147508	10.387	10.866
4) L1 Aroclor-1016 {3}	7.12f	7.83f	58992	63283	9.364	9.911
20) L7 Aroclor-1260	10.30f	11.35f	87410	117102	8.953	9.923
21) L7 Aroclor-1260 {2}	11.24f	12.67f	125349	85329	8.788	10.436
22) L7 Aroclor-1260 {3}	12.44f	13.94f	219867	158994	10.660	11.172m

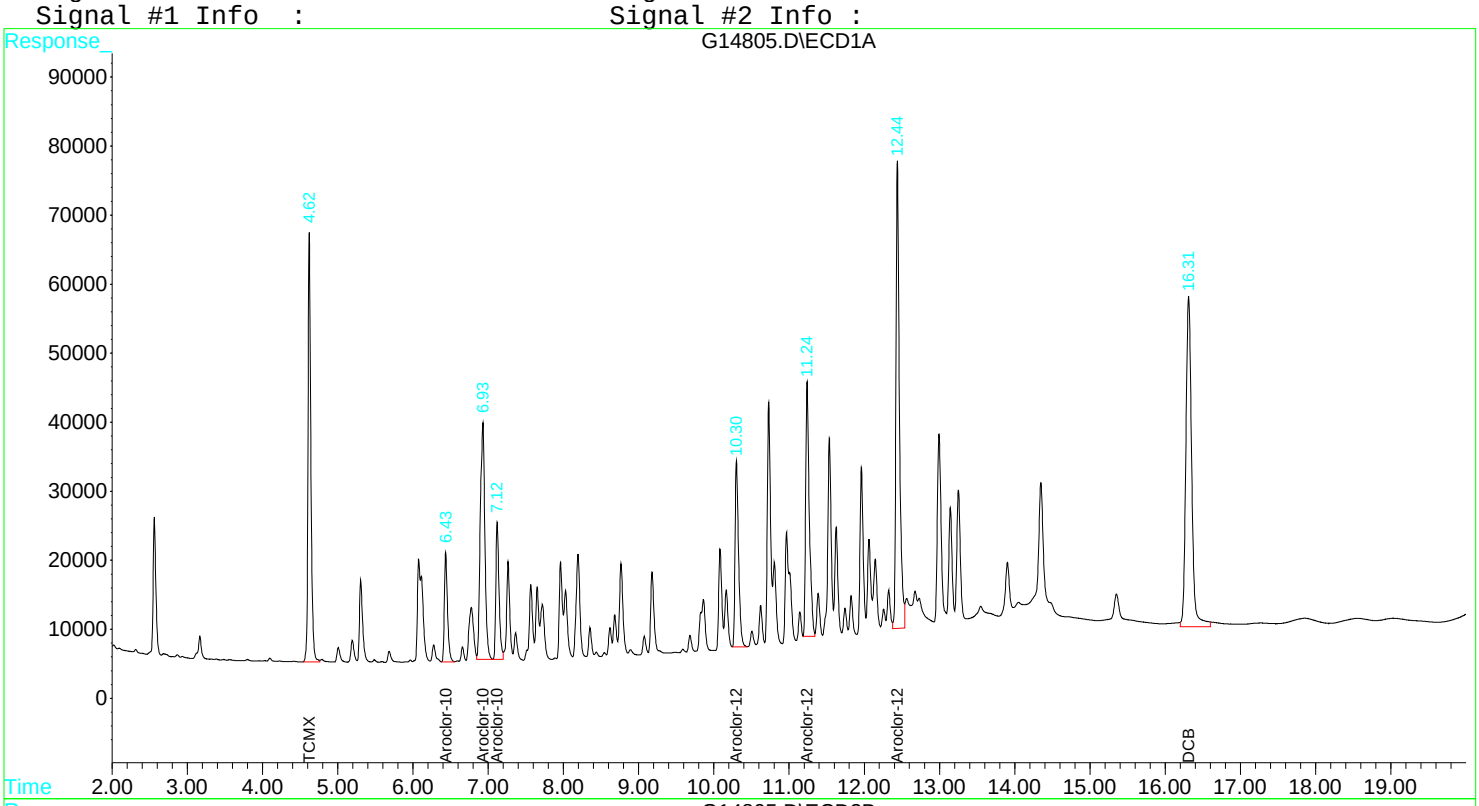
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

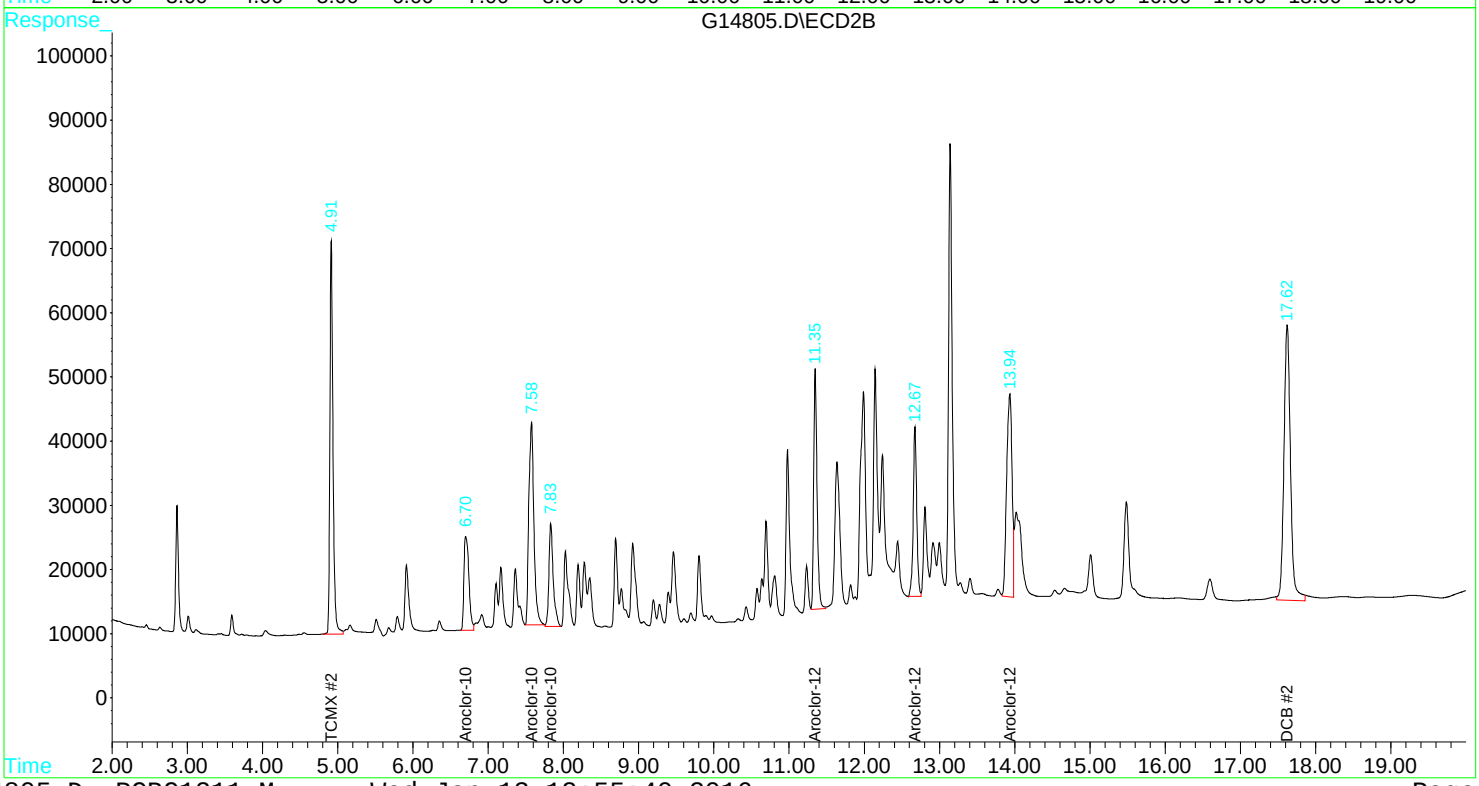
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14805.D\ECD1A.CH Vial: 20
Signal #2 : D:\G\DATA\DEC15\G1228\G14805.D\ECD2B.CH
Acq On : 28 Dec 2015 18:38 Operator: JAM
Sample : B5L2402-BS2 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:18 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 10:09:57 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :





Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Prep Method:	EPA 3550B
Prep Batch:	B5L2402	Lab Sample ID:	B5L2402-BS1
Column:	2		

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
alpha-BHC [2C]	10.0	8.97	89.7	40 - 140
beta-BHC [2C]	10.0	9.87	98.7	40 - 140
delta-BHC [2C]	10.0	10.1	101	40 - 140
gamma-BHC [Lindane] [2C]	10.0	9.33	93.3	40 - 140
Heptachlor [2C]	10.0	13.2	132	40 - 140
Aldrin [2C]	10.0	9.73	97.3	40 - 140
Heptachlor Epoxide [2C]	10.0	10.1	101	40 - 140
Endosulfan I [2C]	10.0	10.1	101	40 - 140
Dieldrin [2C]	10.0	9.97	99.7	40 - 140
4,4'-DDE [2C]	10.0	10.4	104	40 - 140
Endrin [2C]	10.0	12.4	124	40 - 140
Endosulfan II [2C]	10.0	10.7	107	40 - 140
4,4'-DDD [2C]	10.0	10.1	101	40 - 140
Endosulfan sulfate [2C]	10.0	10.5	105	40 - 140
4,4'-DDT [2C]	10.0	9.70	97.0	40 - 140
Methoxychlor [2C]	10.0	13.7	137	40 - 140
Endrin ketone [2C]	10.0	11.2	112	40 - 140
Endrin aldehyde [2C]	10.0	10.4	104	40 - 140
alpha-Chlordane [2C]	10.0	10.1	101	40 - 140
gamma-Chlordane [2C]	10.0	10.0	100	40 - 140

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14794.D\ECD1A.CH Vial: 9
Signal #2 : D:\G\DATA\DEC15\G1228\G14794.D\ECD2B.CH
Acq On : 28 Dec 2015 13:17 Operator: JAM
Sample : B5L2402-BS1 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 13:46 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) AS	Tetrachloro-m-xy	4.62	4.92	1363648	1560460	0.773	0.751
Spiked Amount	1.000 Range	30 - 150	Recovery	=		77.30%	75.10%
22) AS	Decachlorobiphen	16.31	17.62f	2495442	2447284	0.949	0.959
Spiked Amount	1.000 Range	30 - 150	Recovery	=		94.90%	95.90%
	Target Compounds						
2) A	alpha-BHC	5.33	6.18	608810	636224	0.289	0.269
3) AM	gamma-BHC (Linda	5.93	6.90	620538	652434	0.300	0.280
4) AM	Heptachlor	7.24	7.75	637580	662748	0.294	0.395 #
5) BM	Aldrin	7.89	8.36	569628	578324	0.296	0.292
6) B	beta-BHC	5.81	7.10	335088	352842	0.302	0.296
7) B	delta-BHC	6.36	7.67	610520	554454	0.333	0.304m
8) B	Heptachlor Epoxi	8.63	9.45	629200	553714	0.322	0.304
9) A	Endosulfan I	9.30	10.17	485498	529216	0.259m	0.303
10) B	gamma-Chlordane	9.06	9.80	609900	593078	0.315	0.301
11) B	alpha-Chlordane	9.34	10.07	682684	574762	0.352	0.304
12) B	4,4'-DDE	9.70	10.40	530628	549612	0.298m	0.312
13) AM	Dieldrin	9.79	10.66	562572	510978	0.302	0.299
14) AM	Endrin	10.20	11.21	510840	456344	0.339	0.371
15) B	Endosulfan II	10.36	11.60	505952	485276	0.310	0.322
16) A	4,4'-DDD	10.47	11.45	396726	367980	0.291	0.302
17) AM	4,4'-DDT	11.14	11.99	536144	433228	0.328m	0.291
18) B	Endrin Aldehyde	10.71	12.21	465438	471096	0.324	0.313
19) B	Endosulfan Sulfa	11.14	12.70	457300	433732	0.290m	0.315
20) A	Methoxychlor	12.17	13.28	290180	238868	0.329	0.410
21) B	Endrin Ketone	12.00	13.78f	622888	587804	0.330	0.335

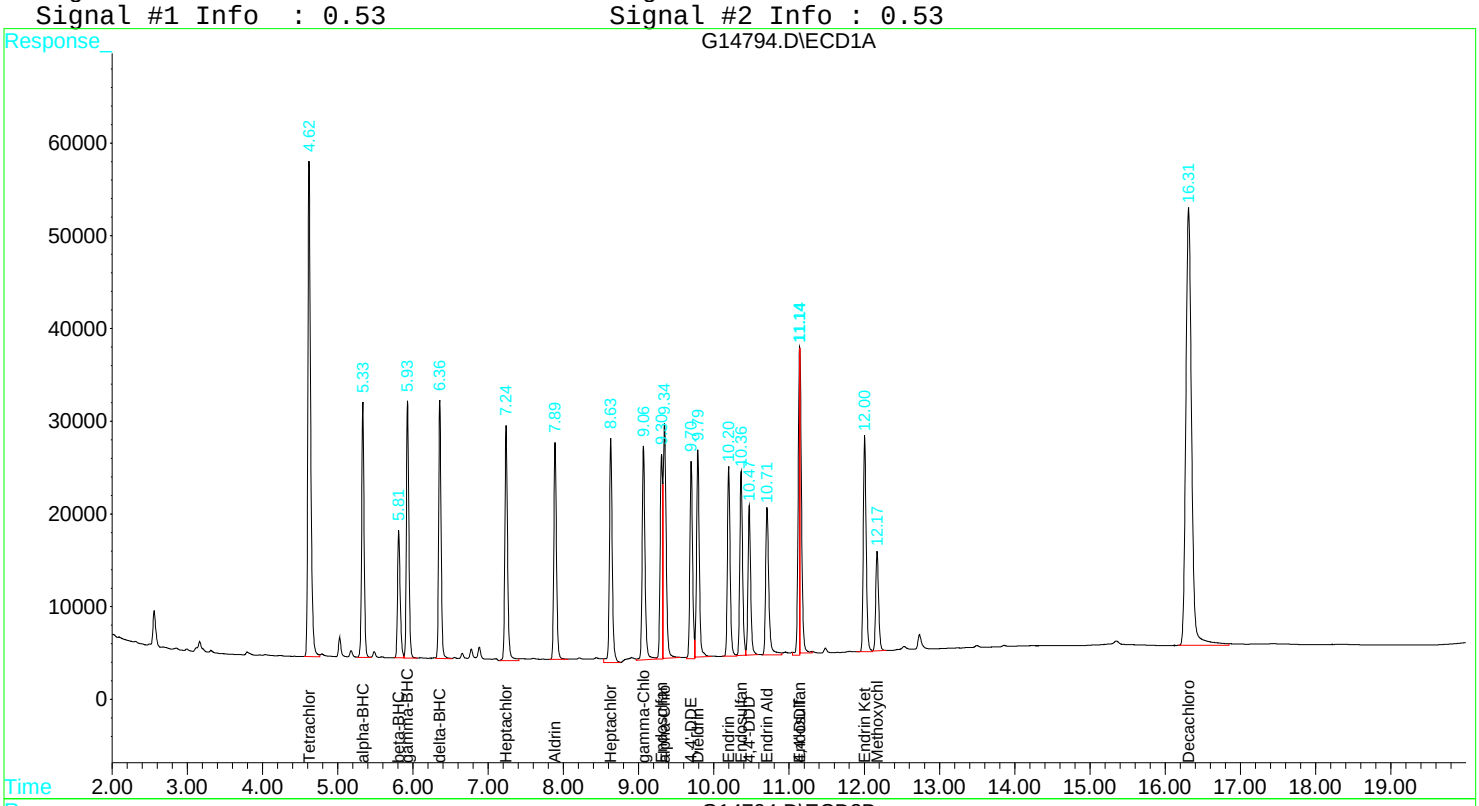
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

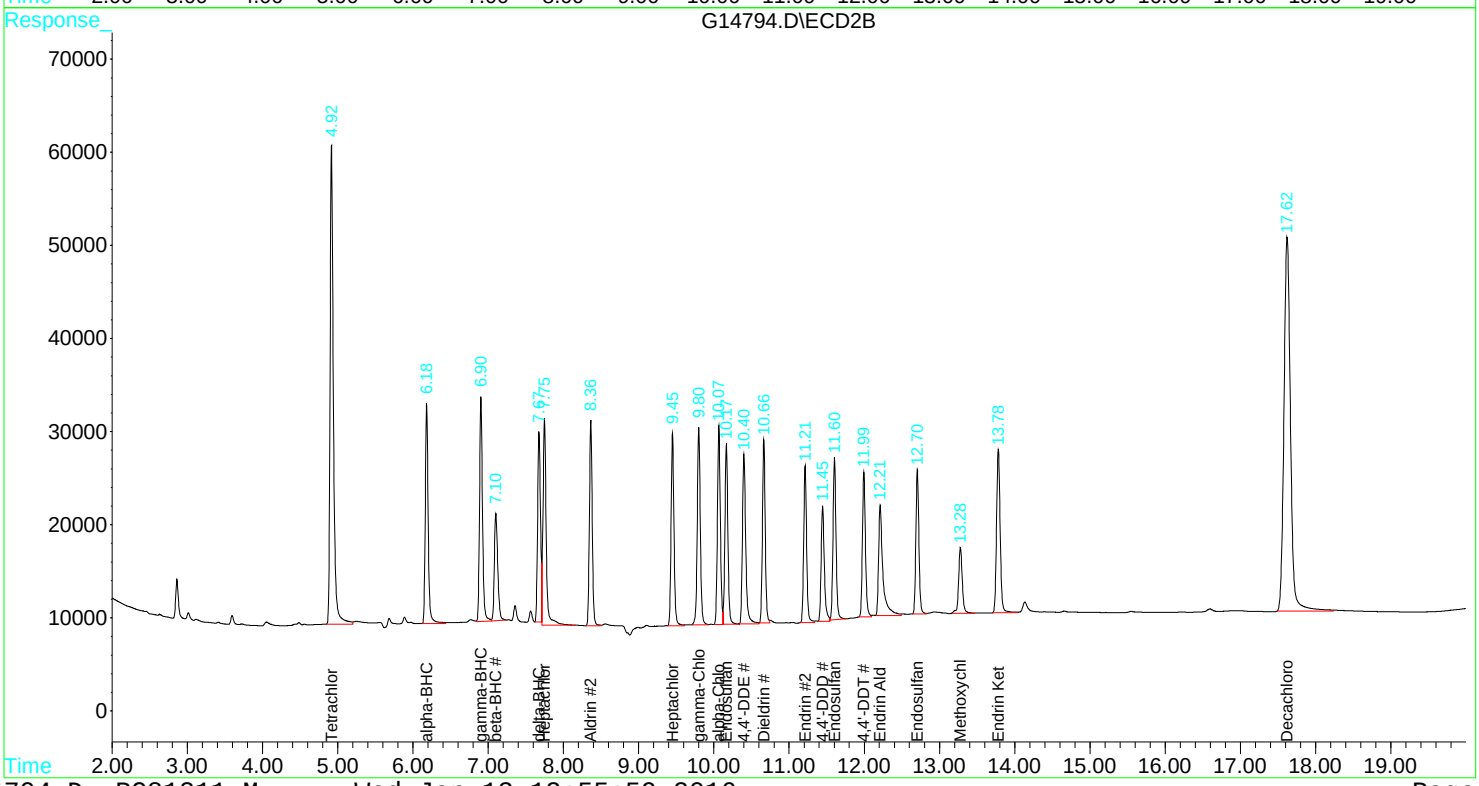
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14794.D\ECD1A.CH Vial: 9
Signal #2 : D:\G\DATA\DEC15\G1228\G14794.D\ECD2B.CH
Acq On : 28 Dec 2015 13:17 Operator: JAM
Sample : B5L2402-BS1 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 13:46 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





LCS / LCS DUPLICATE RECOVERY

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Prep Method:	EPA 3550B
Prep Batch:	B5L2402	Lab Sample ID:	B5L2402-BS2
Column:	2		

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	333	331	99.2	40 - 140
Aroclor-1016 (1) [2C]	333	300	89.9	40 - 140
Aroclor-1016 (2) [2C]	333	362	109	40 - 140
Aroclor-1016 (3) [2C]	333	330	99.1	40 - 140
Aroclor-1260 [2C]	333	350	105	40 - 140
Aroclor-1260 (1) [2C]	333	331	99.2	40 - 140
Aroclor-1260 (2) [2C]	333	348	104	40 - 140
Aroclor-1260 (3) [2C]	333	372	112	40 - 140

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14805.D\ECD1A.CH Vial: 20
Signal #2 : D:\G\DATA\DEC15\G1228\G14805.D\ECD2B.CH
Acq On : 28 Dec 2015 18:38 Operator: JAM
Sample : B5L2402-BS2 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:18 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 10:09:57 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) AS TCMX	4.62	4.91f	162200	173570	0.855	0.766
Spiked Amount 1.000			Recovery	=	85.50%	76.60%
29) AS DCB	16.31f	17.62f	254954	259434	0.858m	0.909m
Spiked Amount 1.000			Recovery	=	85.80%	90.90%
Target Compounds						
2) L1 Aroclor-1016	6.43f	6.70f	45930	66571	9.476	8.988
3) L1 Aroclor-1016 {2}	6.93f	7.58f	145607	147508	10.387	10.866
4) L1 Aroclor-1016 {3}	7.12f	7.83f	58992	63283	9.364	9.911
20) L7 Aroclor-1260	10.30f	11.35f	87410	117102	8.953	9.923
21) L7 Aroclor-1260 {2}	11.24f	12.67f	125349	85329	8.788	10.436
22) L7 Aroclor-1260 {3}	12.44f	13.94f	219867	158994	10.660	11.172m

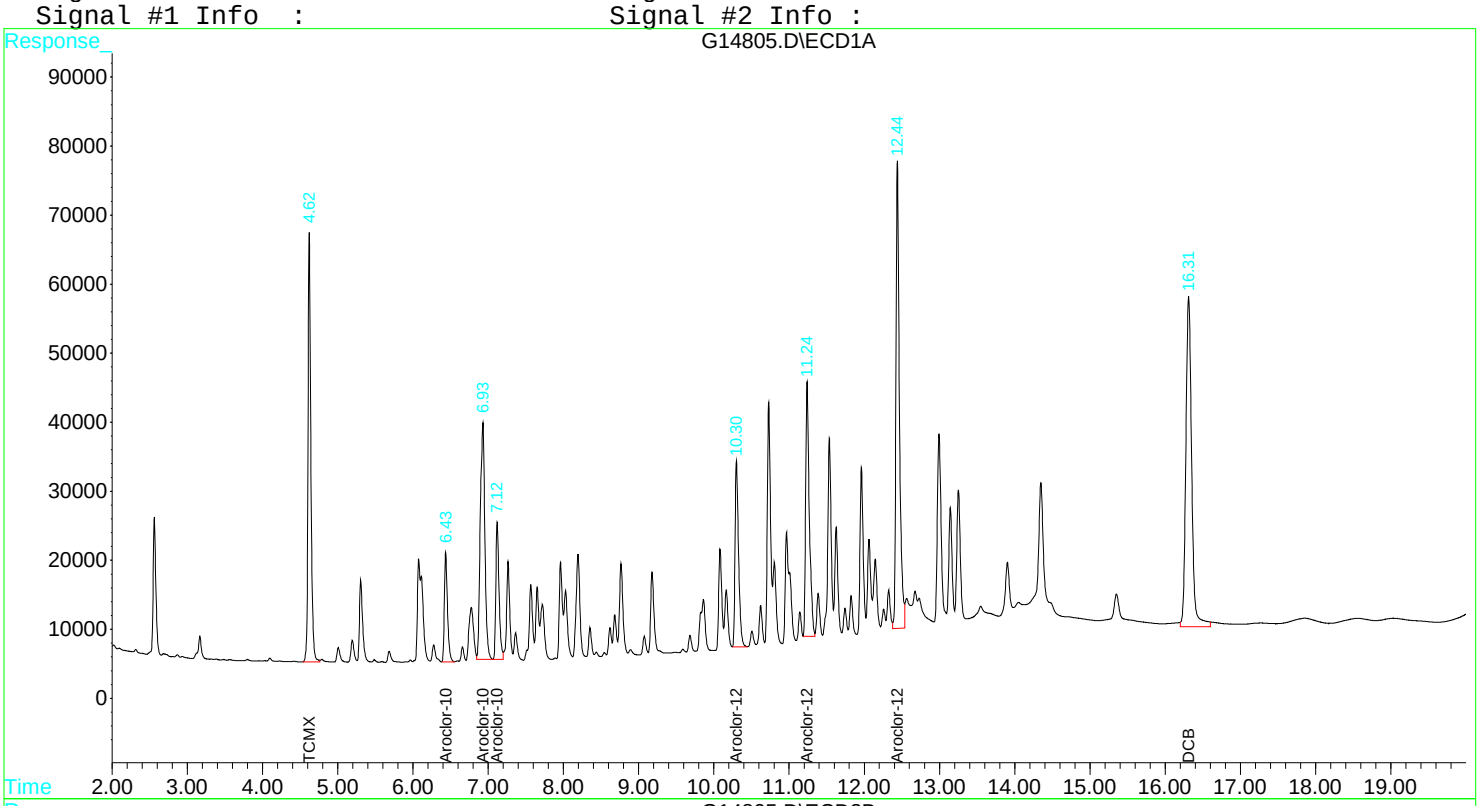
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

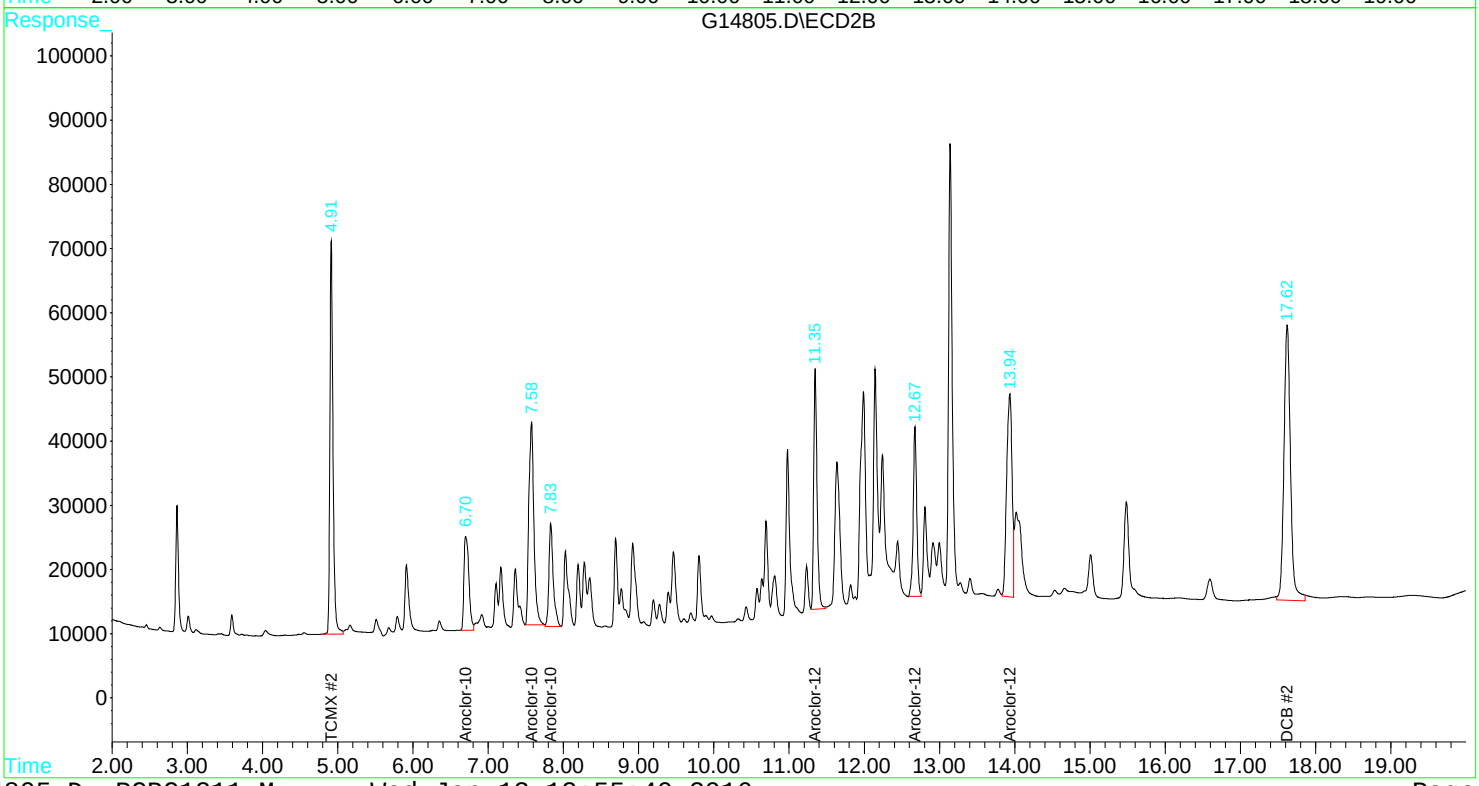
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14805.D\ECD1A.CH Vial: 20
Signal #2 : D:\G\DATA\DEC15\G1228\G14805.D\ECD2B.CH
Acq On : 28 Dec 2015 18:38 Operator: JAM
Sample : B5L2402-BS2 Inst : GCECD_GH
Misc : SOIL 12/24/15 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 29 11:18 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 10:09:57 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :





METHOD BLANK SUMMARY

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Blank ID:	B5L2402-BLK1	Batch:	B5L2402

Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B5L2402-BS1	G14794.D	12/28/2015 13:17
EP-18	1502323-01	G14797.D	12/28/2015 14:44
Matrix Spike	B5L2402-MS1	G14801.D	12/28/2015 16:41
Matrix Spike Dup	B5L2402-MSD1	G14802.D	12/28/2015 17:11
Matrix Spike	B5L2402-MS2	G14803.D	12/28/2015 17:40
Matrix Spike Dup	B5L2402-MSD2	G14804.D	12/28/2015 18:09
LCS	B5L2402-BS2	G14805.D	12/28/2015 18:38

Accredited Analytical Resources, LLC.

ANALYSIS SEQUENCE SUMMARY

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY

Sequence:	S5L1105	Instrument:	GCECD_GHF
Calibration:	15L1702		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	S5L1105-PEM1	G14601.D	12/11/15 08:33
Cal Standard	S5L1105-CAL1	G14602.D	12/11/15 09:47
Cal Standard	S5L1105-CAL2	G14603.D	12/11/15 10:16
Cal Standard	S5L1105-CAL3	G14604.D	12/11/15 10:46
Cal Standard	S5L1105-CAL4	G14605.D	12/11/15 11:15
Cal Standard	S5L1105-CAL5	G14606.D	12/11/15 11:44
Cal Standard	S5L1105-CAL6	G14607.D	12/11/15 15:59
Cal Standard	S5L1105-CAL7	G14608.D	12/11/15 16:28
Cal Standard	S5L1105-CAL8	G14609.D	12/11/15 16:57
Cal Standard	S5L1105-CAL9	G14610.D	12/11/15 17:26
Cal Standard	S5L1105-CALA	G14611.D	12/11/15 17:56
Cal Standard	S5L1105-CALB	G14612.D	12/11/15 18:25
Cal Standard	S5L1105-CALC	G14613.D	12/11/15 18:54
Cal Standard	S5L1105-CALD	G14614.D	12/11/15 19:23
Cal Standard	S5L1105-CALE	G14615.D	12/11/15 19:52
Cal Standard	S5L1105-CALF	G14616.D	12/11/15 20:21
Cal Standard	S5L1105-CALG	G14617.D	12/11/15 20:51
Cal Standard	S5L1105-CALH	G14618.D	12/11/15 21:20
Cal Standard	S5L1105-CALI	G14619.D	12/11/15 21:49
Cal Standard	S5L1105-CALJ	G14620.D	12/11/15 22:18
Cal Standard	S5L1105-CALK	G14621.D	12/11/15 22:47
Aroclor Reference	S5L1105-ARC1	G14622.D	12/11/15 23:16
Aroclor Reference	S5L1105-ARC2	G14623.D	12/11/15 23:46

ANALYSIS SEQUENCE SUMMARY

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY

Sequence:	S5L1105	Instrument:	GCECD_GHF
Calibration:	15L1702		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Aroclor Reference	S5L1105-ARC3	G14624.D	12/12/15 00:15
Aroclor Reference	S5L1105-ARC4	G14625.D	12/12/15 00:44

Accredited Analytical Resources, LLC.

ANALYSIS SEQUENCE SUMMARY

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY

Sequence:	S5L2801	Instrument:	GCECD_GHF
Calibration:	15L1702		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	S5L2801-PEM1	G14787.D	12/28/15 09:08
Calibration Check	S5L2801-CCV1	G14788.D	12/28/15 09:37
Calibration Check	S5L2801-CCV2	G14789.D	12/28/15 10:06
Calibration Check	S5L2801-CCV3	G14790.D	12/28/15 11:19
Calibration Check	S5L2801-CCV4	G14791.D	12/28/15 11:49
Blank	B5L2402-BLK1	G14793.D	12/28/15 12:48
LCS	B5L2402-BS1	G14794.D	12/28/15 13:17
EP-18	1502323-01	G14797.D	12/28/15 14:44
Matrix Spike	B5L2402-MS1	G14801.D	12/28/15 16:41
Matrix Spike Dup	B5L2402-MSD1	G14802.D	12/28/15 17:11
Matrix Spike	B5L2402-MS2	G14803.D	12/28/15 17:40
Matrix Spike Dup	B5L2402-MSD2	G14804.D	12/28/15 18:09
LCS	B5L2402-BS2	G14805.D	12/28/15 18:38

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PEST/PCB CALIBRATION DATA

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L1702 Instrument: GCECD_GHF
Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
alpha-BHC	0.08	2.475142E+07	0.04	2.337055E+07	0.02	2.1423E+07	0.01	1.86192E+07	0.002	1.7343E+07		
alpha-BHC [2C]	0.08	2.63263E+07	0.04	2.34828E+07	0.02	2.25799E+07	0.01	2.18622E+07	0.002	2.3788E+07		
beta-BHC											0.08	1.096533E+07
beta-BHC [2C]											0.08	1.188443E+07
delta-BHC											0.08	2.187782E+07
delta-BHC [2C]											0.08	2.142442E+07
gamma-BHC [Lindane]	0.08	2.3227E+07	0.04	2.2355E+07	0.02	2.10446E+07	0.01	1.88256E+07	0.002	1.787E+07		
gamma-BHC [Lindane] [2C]	0.08	2.391728E+07	0.04	2.28579E+07	0.02	2.24753E+07	0.01	2.24876E+07	0.002	2.4659E+07		
Heptachlor	0.08	2.194905E+07	0.04	2.15601E+07	0.02	2.1152E+07	0.01	2.05092E+07	0.002	2.3099E+07		
Heptachlor [2C]	0.08	1.799895E+07	0.04	1.69782E+07	0.02	1.61315E+07	0.01	1.5824E+07	0.002	1.6915E+07		
Aldrin											0.08	2.133208E+07
Aldrin [2C]											0.08	2.044845E+07
Heptachlor Epoxide											0.08	1.94086E+07
Heptachlor Epoxide [2C]											0.08	1.817628E+07
Endosulfan I	0.08	1.864608E+07	0.04	1.82091E+07	0.02	1.78438E+07	0.01	1.74192E+07	0.002	2.1433E+07		
Endosulfan I [2C]	0.08	1.70763E+07	0.04	1.70714E+07	0.02	1.72752E+07	0.01	1.7221E+07	0.002	1.8623E+07		
Dieldrin	0.16	1.962618E+07	0.08	1.93523E+07	0.04	1.873735E+07	0.02	1.75021E+07	0.004	1.7835E+07		
Dieldrin [2C]	0.16	1.76791E+07	0.08	1.717205E+07	0.04	1.670395E+07	0.02	1.61781E+07	0.004	1.78225E+07		
4,4'-DDE											0.16	1.896086E+07
4,4'-DDE [2C]											0.16	1.827421E+07
Endrin	0.16	1.573655E+07	0.08	1.52468E+07	0.04	1.47961E+07	0.02	1.40535E+07	0.004	1.5449E+07		
Endrin [2C]	0.16	1.28823E+07	0.08	1.217128E+07	0.04	1.19232E+07	0.02	1.16878E+07	0.004	1.2788E+07		
Endosulfan II											0.16	1.664688E+07
Endosulfan II [2C]											0.16	1.552751E+07
4,4'-DDD	0.16	1.433124E+07	0.08	1.417223E+07	0.04	1.377655E+07	0.02	1.29053E+07	0.004	1.29205E+07		
4,4'-DDD [2C]	0.16	1.243611E+07	0.08	1.20249E+07	0.04	1.188035E+07	0.02	1.16414E+07	0.004	1.29325E+07		

INITIAL CALIBRATION DATA

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L1702 Instrument: GCECD_GHF
Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Endosulfan sulfate											0.16	1.651615E+07
Endosulfan sulfate [2C]											0.16	1.415703E+07
4,4'-DDT	0.16	1.6523E+07	0.08	1.651558E+07	0.04	1.63938E+07	0.02	1.57921E+07	0.004	1.644E+07		
4,4'-DDT [2C]	0.16	1.480073E+07	0.08	1.47351E+07	0.04	1.48111E+07	0.02	1.4633E+07	0.004	1.55245E+07		
Methoxychlor	0.8	7677890	0.4	8131430	0.2	8723560	0.1	9140880	0.02	1.04596E+07		
Methoxychlor [2C]	0.8	5902403	0.4	5781465	0.2	5880820	0.1	5769540	0.02	5783800		
Endrin ketone											0.16	1.910728E+07
Endrin ketone [2C]											0.16	1.794464E+07
Endrin aldehyde											0.16	1.369123E+07
Endrin aldehyde [2C]											0.16	1.396409E+07
alpha-Chlordane											0.08	2.011105E+07
alpha-Chlordane [2C]											0.08	1.86528E+07
gamma-Chlordane											0.08	2.028325E+07
gamma-Chlordane [2C]											0.08	1.884325E+07
Toxaphene												
Toxaphene (1)												
Toxaphene (2)												
Toxaphene (3)												
Toxaphene (4)												
Toxaphene [2C]												
Toxaphene (1) [2C]												
Toxaphene (2) [2C]												
Toxaphene (3) [2C]												
Toxaphene (4) [2C]												
Aroclor-1016												
Aroclor-1016 (1)												

INITIAL CALIBRATION DATA

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L1702
Instrument: GCECD_GHF
Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Tetrachloro-m-xylene	0.08	1.617658E+07	0.04	1.716955E+07	0.02	1.7759E+07	0.01	1.7567E+07	0.002	1.952E+07		
Tetrachloro-m-xylene [2C]	0.08	1.678252E+07	0.04	2.01495E+07	0.02	2.07403E+07	0.01	2.09472E+07	0.002	2.5267E+07		
Decachlorobiphenyl	0.16	2.22491E+07	0.08	2.415738E+07	0.04	2.589215E+07	0.02	2.72726E+07	0.004	3.1969E+07		
Decachlorobiphenyl [2C]	0.16	2.230035E+07	0.08	2.370175E+07	0.04	2.50907E+07	0.02	2.59296E+07	0.004	3.0561E+07		

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L1702

Instrument: GCECD_GHF

Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
alpha-BHC												
alpha-BHC [2C]												
beta-BHC	0.04	1.12782E+07	0.02	1.10199E+07	0.01	1.1082E+07	0.002	1.1125E+07				
beta-BHC [2C]	0.04	1.195655E+07	0.02	1.19068E+07	0.01	1.25978E+07	0.002	1.1269E+07				
delta-BHC	0.04	2.069225E+07	0.02	1.81371E+07	0.01	1.63048E+07	0.002	1.457E+07				
delta-BHC [2C]	0.04	1.9427E+07	0.02	1.82652E+07	0.01	1.71522E+07	0.002	1.5028E+07				
gamma-BHC [Lindane]												
gamma-BHC [Lindane] [2C]												
Heptachlor												
Heptachlor [2C]												
Aldrin	0.04	2.04077E+07	0.02	1.86125E+07	0.01	1.8044E+07	0.002	1.769E+07				
Aldrin [2C]	0.04	1.990035E+07	0.02	1.89371E+07	0.01	1.9374E+07	0.002	2.0407E+07				
Heptachlor Epoxide	0.04	1.91084E+07	0.02	1.81751E+07	0.01	1.86984E+07	0.002	2.237E+07				
Heptachlor Epoxide [2C]	0.04	1.81187E+07	0.02	1.75577E+07	0.01	1.81536E+07	0.002	1.9123E+07				
Endosulfan I												
Endosulfan I [2C]												
Dieldrin												
Dieldrin [2C]												
4,4'-DDE	0.08	1.864532E+07	0.04	1.75318E+07	0.02	1.71385E+07	0.004	1.6634E+07				
4,4'-DDE [2C]	0.08	1.765712E+07	0.04	1.688485E+07	0.02	1.71302E+07	0.004	1.8273E+07				
Endrin												
Endrin [2C]												
Endosulfan II	0.08	1.677558E+07	0.04	1.60867E+07	0.02	1.60155E+07	0.004	1.62065E+07				
Endosulfan II [2C]	0.08	1.540298E+07	0.04	1.478385E+07	0.02	1.48084E+07	0.004	1.4881E+07				
4,4'-DDD												

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L1702

Instrument: GCECD_GHF

Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
4,4'-DDD [2C]												
Endosulfan sulfate	0.08	1.631328E+07	0.04	1.54793E+07	0.02	1.50542E+07	0.004	1.5367E+07				
Endosulfan sulfate [2C]	0.08	1.39014E+07	0.04	1.33994E+07	0.02	1.34565E+07	0.004	1.3979E+07				
4,4'-DDT												
4,4'-DDT [2C]												
Methoxychlor												
Methoxychlor [2C]												
Endrin ketone	0.08	1.935815E+07	0.04	1.880105E+07	0.02	1.87998E+07	0.004	1.8362E+07				
Endrin ketone [2C]	0.08	1.794855E+07	0.04	1.73817E+07	0.02	1.7355E+07	0.004	1.6972E+07				
Endrin aldehyde	0.08	1.39917E+07	0.04	1.396455E+07	0.02	1.44918E+07	0.004	1.56735E+07				
Endrin aldehyde [2C]	0.08	1.444255E+07	0.04	1.466335E+07	0.02	1.54633E+07	0.004	1.6703E+07				
alpha-Chlordane	0.04	1.97123E+07	0.02	1.87054E+07	0.01	1.88904E+07	0.002	1.9453E+07				
alpha-Chlordane [2C]	0.04	1.86941E+07	0.02	1.82663E+07	0.01	1.89038E+07	0.002	2.0044E+07				
gamma-Chlordane	0.04	1.97682E+07	0.02	1.86571E+07	0.01	1.87578E+07	0.002	1.9249E+07				
gamma-Chlordane [2C]	0.04	1.873805E+07	0.02	1.83086E+07	0.01	1.9108E+07	0.002	2.338E+07				
Toxaphene									10	164825.7	5	192180.4
Toxaphene (1)									10	178256.2	5	207083.2
Toxaphene (2)									10	177925.2	5	217655.6
Toxaphene (3)									10	233332.2	5	270776.8
Toxaphene (4)									10	69789	5	73206
Toxaphene [2C]									10	329557.2	5	375679.6
Toxaphene (1) [2C]									10	210256	5	230132
Toxaphene (2) [2C]									10	550133.2	5	619796.4
Toxaphene (3) [2C]									10	250009.6	5	294122.4
Toxaphene (4) [2C]									10	307830	5	358667.2

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L1702

Instrument: GCECD_GHF

Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L1702

Instrument: GCECD_GHF

Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
alpha-BHC												
alpha-BHC [2C]												
beta-BHC												
beta-BHC [2C]												
delta-BHC												
delta-BHC [2C]												
gamma-BHC [Lindane]												
gamma-BHC [Lindane] [2C]												
Heptachlor												
Heptachlor [2C]												
Aldrin												
Aldrin [2C]												
Heptachlor Epoxide												
Heptachlor Epoxide [2C]												
Endosulfan I												
Endosulfan I [2C]												
Dieldrin												
Dieldrin [2C]												
4,4'-DDE												
4,4'-DDE [2C]												
Endrin												
Endrin [2C]												
Endosulfan II												
Endosulfan II [2C]												
4,4'-DDD												

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L1702

Instrument: GCECD_GHF

Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
4,4'-DDD [2C]												
Endosulfan sulfate												
Endosulfan sulfate [2C]												
4,4'-DDT												
4,4'-DDT [2C]												
Methoxychlor												
Methoxychlor [2C]												
Endrin ketone												
Endrin ketone [2C]												
Endrin aldehyde												
Endrin aldehyde [2C]												
alpha-Chlordane												
alpha-Chlordane [2C]												
gamma-Chlordane												
gamma-Chlordane [2C]												
Toxaphene	2.5	204498.2	1	218484	0.1	239335						
Toxaphene (1)	2.5	211148	1	224730	0.1	246220						
Toxaphene (2)	2.5	241136.8	1	272172	0.1	287100						
Toxaphene (3)	2.5	297061.6	1	310270	0.1	343020						
Toxaphene (4)	2.5	68646.4	1	66764	0.1	81000						
Toxaphene [2C]	2.5	369613.2	1	375821	0.1	372520						
Toxaphene (1) [2C]	2.5	231940	1	243252	0.1	273200						
Toxaphene (2) [2C]	2.5	608733.6	1	626690	0.1	598640						
Toxaphene (3) [2C]	2.5	294055.2	1	301186	0.1	388440						
Toxaphene (4) [2C]	2.5	343724	1	332156	0.1	229800						

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L1702

Instrument: GCECD_GHF

Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
Aroclor-1016							2	74317.65	1.5	77710.47	1	80392.33
Aroclor-1016 (1)							2	43180	1.5	45042.67	1	46890
Aroclor-1016 (2)							2	123907.5	1.5	129560.7	1	134161
Aroclor-1016 (3)							2	55865.5	1.5	58528	1	60126
Aroclor-1016 [2C]							2	84896.65	1.5	89405.8	1	94391.33
Aroclor-1016 (1) [2C]							2	63795.5	1.5	67641.34	1	71830
Aroclor-1016 (2) [2C]							2	128620.5	1.5	134572.7	1	140840
Aroclor-1016 (3) [2C]							2	62274	1.5	66003.34	1	70504
Aroclor-1260							2	136387.2	1.5	140776.5	1	140697.7
Aroclor-1260 (1)							2	84312	1.5	87780	1	88808
Aroclor-1260 (2)							2	130294	1.5	134737.3	1	135067
Aroclor-1260 (3)							2	194555.5	1.5	199812	1	198218
Aroclor-1260 [2C]							2	105165.1	1.5	108340.2	1	111878.7
Aroclor-1260 (1) [2C]							2	104669	1.5	109372	1	114365
Aroclor-1260 (2) [2C]							2	75042	1.5	77698	1	80248
Aroclor-1260 (3) [2C]							2	135784.5	1.5	137950.7	1	141023
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												

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INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L1702

Instrument: GCECD_GHF

Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
alpha-BHC												
alpha-BHC [2C]												
beta-BHC												
beta-BHC [2C]												
delta-BHC												
delta-BHC [2C]												
gamma-BHC [Lindane]												
gamma-BHC [Lindane] [2C]												
Heptachlor												
Heptachlor [2C]												
Aldrin												
Aldrin [2C]												
Heptachlor Epoxide												
Heptachlor Epoxide [2C]												
Endosulfan I												
Endosulfan I [2C]												
Dieldrin												
Dieldrin [2C]												
4,4'-DDE												
4,4'-DDE [2C]												
Endrin												
Endrin [2C]												
Endosulfan II												
Endosulfan II [2C]												
4,4'-DDD												

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L1702

Instrument: GCECD_GHF

Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
4,4'-DDD [2C]												
Endosulfan sulfate												
Endosulfan sulfate [2C]												
4,4'-DDT												
4,4'-DDT [2C]												
Methoxychlor												
Methoxychlor [2C]												
Endrin ketone												
Endrin ketone [2C]												
Endrin aldehyde												
Endrin aldehyde [2C]												
alpha-Chlordane												
alpha-Chlordane [2C]												
gamma-Chlordane												
gamma-Chlordane [2C]												
Toxaphene												
Toxaphene (1)												
Toxaphene (2)												
Toxaphene (3)												
Toxaphene (4)												
Toxaphene [2C]												
Toxaphene (1) [2C]												
Toxaphene (2) [2C]												
Toxaphene (3) [2C]												
Toxaphene (4) [2C]												

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INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L1702

Instrument: GCECD_GHF

Calibration Date: 12/11/2015 3:21:36PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
Aroclor-1016	0.5	87738.66	0.1	99270								
Aroclor-1016 (1)	0.5	50796	0.1	56430								
Aroclor-1016 (2)	0.5	146550	0.1	166760								
Aroclor-1016 (3)	0.5	65870	0.1	74620								
Aroclor-1016 [2C]	0.5	92864.66	0.1	94550								
Aroclor-1016 (1) [2C]	0.5	79186	0.1	87890								
Aroclor-1016 (2) [2C]	0.5	133316	0.1	141390								
Aroclor-1016 (3) [2C]	0.5	66092	0.1	54370								
Aroclor-1260	0.5	153822.7	0.1	172530								
Aroclor-1260 (1)	0.5	100458	0.1	126790								
Aroclor-1260 (2)	0.5	147976	0.1	165120								
Aroclor-1260 (3)	0.5	213034	0.1	225680								
Aroclor-1260 [2C]	0.5	117612.7	0.1	127153.3								
Aroclor-1260 (1) [2C]	0.5	123452	0.1	138210								
Aroclor-1260 (2) [2C]	0.5	84830	0.1	90990								
Aroclor-1260 (3) [2C]	0.5	144556	0.1	152260								
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration:	15L1702	Instrument:	GCECD_GHF
		Calibration Date:	12/11/2015 3:21:36PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
alpha-BHC	2.110144E+07	14.77137	CCC (20)	
alpha-BHC [2C]	2.360784E+07	7.195401	CCC (20)	
beta-BHC	1.109409E+07	1.076789	CCC (20)	
beta-BHC [2C]	1.192292E+07	3.947219	CCC (20)	
delta-BHC	1.83164E+07	16.47914	CCC (20)	
delta-BHC [2C]	1.825937E+07	13.14637	CCC (20)	
gamma-BHC [Lindane]	2.066444E+07	11.02438	CCC (20)	
gamma-BHC [Lindane] [2C]	2.327942E+07	4.165534	CCC (20)	
Heptachlor	2.165387E+07	4.469361	CCC (20)	
Heptachlor [2C]	1.676953E+07	5.057556	CCC (20)	
Aldrin	1.921726E+07	8.213038	CCC (20)	
Aldrin [2C]	1.981338E+07	3.313624	CCC (20)	
Heptachlor Epoxide	1.95521E+07	8.397413	CCC (20)	
Heptachlor Epoxide [2C]	1.822586E+07	3.092165	CCC (20)	
Endosulfan I	1.871024E+07	8.486997	CCC (20)	
Endosulfan I [2C]	1.745338E+07	3.780914	CCC (20)	
Dieldrin	1.861059E+07	4.974211	CCC (20)	
Dieldrin [2C]	1.711114E+07	3.994474	CCC (20)	
4,4'-DDE	1.77821E+07	5.573956	CCC (20)	
4,4'-DDE [2C]	1.764388E+07	3.621648	CCC (20)	
Endrin	1.505639E+07	4.363545	CCC (20)	
Endrin [2C]	1.229052E+07	4.286292	CCC (20)	
Endosulfan II	1.634623E+07	2.099215	CCC (20)	
Endosulfan II [2C]	1.508075E+07	2.35761	CCC (20)	
4,4'-DDD	1.362116E+07	4.973044	CCC (20)	

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INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration:	15L1702	Instrument:	GCECD_GHF
		Calibration Date:	12/11/2015 3:21:36PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
4,4'-DDD [2C]	1.218305E+07	4.176757	CCC (20)	
Endosulfan sulfate	1.574599E+07	4.027004	CCC (20)	
Endosulfan sulfate [2C]	1.377867E+07	2.423391	CCC (20)	
4,4'-DDT	1.63329E+07	1.880031	CCC (20)	
4,4'-DDT [2C]	1.490089E+07	2.38745	CCC (20)	
Methoxychlor	8826672	12.12139	CCC (20)	
Methoxychlor [2C]	5823606	1.078044	CCC (20)	
Endrin ketone	1.888566E+07	1.98318	CCC (20)	
Endrin ketone [2C]	1.752038E+07	2.405733	CCC (20)	
Endrin aldehyde	1.436256E+07	5.484422	CCC (20)	
Endrin aldehyde [2C]	1.504726E+07	7.127437	CCC (20)	
alpha-Chlordane	1.937443E+07	2.992774	CCC (20)	
alpha-Chlordane [2C]	1.89122E+07	3.559893	CCC (20)	
gamma-Chlordane	1.934307E+07	3.550477	CCC (20)	
gamma-Chlordane [2C]	1.967558E+07	10.62621	CCC (20)	
Toxaphene	203864.7	13.72766	CCC (20)	
Toxaphene (1)	213487.5	11.67638	CCC (20)	
Toxaphene (2)	239197.9	18.22787	CCC (20)	
Toxaphene (3)	290892.1	14.22462	CCC (20)	
Toxaphene (4)	71881.08	7.805989	CCC (20)	
Toxaphene [2C]	364638.2	5.42373	CCC (20)	
Toxaphene (1) [2C]	237756	9.716399	CCC (20)	
Toxaphene (2) [2C]	600798.6	5.038841	CCC (20)	
Toxaphene (3) [2C]	305562.6	16.55623	CCC (20)	
Toxaphene (4) [2C]	314435.4	16.16573	CCC (20)	

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INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration:	15L1702	Instrument:	GCECD_GHF
		Calibration Date:	12/11/2015 3:21:36PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Aroclor-1016	83885.82	11.82231	CCC (20)	
Aroclor-1016 (1)	48467.73	10.86868	CCC (20)	
Aroclor-1016 (2)	140187.8	12.15209	CCC (20)	
Aroclor-1016 (3)	63001.9	11.83598	CCC (20)	
Aroclor-1016 [2C]	91221.69	4.490773	CCC (20)	
Aroclor-1016 (1) [2C]	74068.57	12.96864	CCC (20)	
Aroclor-1016 (2) [2C]	135747.8	3.964606	CCC (20)	
Aroclor-1016 (3) [2C]	63848.67	9.471753	CCC (20)	
Aroclor-1260	148842.8	9.92221	CCC (20)	
Aroclor-1260 (1)	97629.6	17.81865	CCC (20)	
Aroclor-1260 (2)	142638.9	9.952057	CCC (20)	
Aroclor-1260 (3)	206259.9	6.257201	CCC (20)	
Aroclor-1260 [2C]	114030	7.602862	CCC (20)	
Aroclor-1260 (1) [2C]	118013.6	11.23782	CCC (20)	
Aroclor-1260 (2) [2C]	81761.6	7.699874	CCC (20)	
Aroclor-1260 (3) [2C]	142314.8	4.544163	CCC (20)	
Tetrachloro-m-xylene	1.763843E+07	6.895314	CCC (20)	
Tetrachloro-m-xylene [2C]	2.077731E+07	14.54672	CCC (20)	
Decachlorobiphenyl	2.630805E+07	13.99851	CCC (20)	
Decachlorobiphenyl [2C]	2.551668E+07	12.30528	CCC (20)	

* Values outside of QC limits

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AROCLOR INITIAL CALIBRATION (SINGLE POINT)

Client: **BRINKERHOFF ENVIRONMENTAL**
Work Order: **1502323**
Project: **255 East 138th Street, Bronx, NY**

Instrument ID: GCECD_GHF Col 1 Date(s) Analyzed: 12/11/2015

Lab Number: S5L1105-ARC1

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1221	1.000	1	05.02	04.97	05.07	24891
		2	05.21	05.16	05.26	17538
		3	05.32	05.27	05.37	58633
		4				
		5				
Aroclor 1254	1.000	1	07.98	07.93	08.03	23580
		2	10.35	10.30	10.40	126061
		3	11.26	11.21	11.31	115305
		4				
		5				

Client: **BRINKERHOFF ENVIRONMENTAL**
Work Order: **1502323**
Project: **255 East 138th Street, Bronx, NY**

Instrument ID: GCECD_GHF Col 2 Date(s) Analyzed: 12/11/2015

Lab Number: S5L1105-ARC1

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1221	1.000	1	05.57	05.52	05.62	24766
		2	05.84	05.79	05.89	14873
		3	05.96	05.91	06.01	63661
		4				
		5				
Aroclor 1254	1.000	1	09.83	09.78	09.88	65364
		2	11.09	11.04	11.14	92810
		3	12.03	11.98	12.08	116343
		4				
		5				

AROCLOR INITIAL CALIBRATION (SINGLE POINT)

Client: **BRINKERHOFF ENVIRONMENTAL**
Work Order: **1502323**
Project: **255 East 138th Street, Bronx, NY**

Instrument ID: GCECD_GHF Col 1 Date(s) Analyzed: 12/11/2015

Lab Number: S5L1105-ARC2

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1232	1.000	1	05.32	05.27	05.37	42765
		2	06.95	06.90	07.00	61639
		3	07.14	07.09	07.19	26650
		4				
		5				

Client: **BRINKERHOFF ENVIRONMENTAL**
Work Order: **1502323**
Project: **255 East 138th Street, Bronx, NY**

Instrument ID: GCECD_GHF Col 2 Date(s) Analyzed: 12/11/2015

Lab Number: S5L1105-ARC2

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1232	1.000	1	05.97	05.92	06.02	51328
		2	07.64	07.59	07.69	64748
		3	07.89	07.84	07.94	33065
		4				
		5				

AROCLOR INITIAL CALIBRATION (SINGLE POINT)

Client: **BRINKERHOFF ENVIRONMENTAL**
Work Order: **1502323**
Project: **255 East 138th Street, Bronx, NY**

Instrument ID: GCECD_GHF Col 1 Date(s) Analyzed: 12/12/2015

Lab Number: S5L1105-ARC3

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1242	1.000	1	06.45	06.40	06.50	36754
		2	06.95	06.90	07.00	105389
		3	08.21	08.16	08.26	43201
		4				
		5				

Client: **BRINKERHOFF ENVIRONMENTAL**
Work Order: **1502323**
Project: **255 East 138th Street, Bronx, NY**

Instrument ID: GCECD_GHF Col 2 Date(s) Analyzed: 12/12/2015

Lab Number: S5L1105-ARC3

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1242	1.000	1	06.74	06.69	06.79	56537
		2	07.63	07.58	07.68	109060
		3	07.88	07.83	07.93	55029
		4				
		5				

AROCLOR INITIAL CALIBRATION (SINGLE POINT)

Client: **BRINKERHOFF ENVIRONMENTAL**
Work Order: **1502323**
Project: **255 East 138th Street, Bronx, NY**

Instrument ID: GCECD_GHF Col 1 Date(s) Analyzed: 12/12/2015

Lab Number: S5L1105-ARC4

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1248	1.000	1	06.95	06.90	07.00	67168
		2	07.14	07.09	07.19	26763
		3	08.21	08.16	08.26	58184
		4				
		5				

Client: **BRINKERHOFF ENVIRONMENTAL**
Work Order: **1502323**
Project: **255 East 138th Street, Bronx, NY**

Instrument ID: GCECD_GHF Col 2 Date(s) Analyzed: 12/12/2015

Lab Number: S5L1105-ARC4

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1248	1.000	1	07.64	07.59	07.69	62830
		2	07.90	07.85	07.95	22913
		3	08.96	08.91	09.01	62754
		4				
		5				

Breakdown Report

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Lab Sample ID: S5L1105-PEM1 Analyzed: 12/11/2015

Column Number: 1

Analyte	% Breakdown
Endrin	8.48
4.4'-DDT	1.30

Column Number: 2

Analyte	% Breakdown
Endrin	10.45
4.4'-DDT	0.42

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14601.D\ECD1A.CH Vial: 2
Signal #2 : D:\G\DATA\DEC15\G1211\G14601.D\ECD2B.CH
Acq On : 11 Dec 2015 8:33 Operator: JAM
Sample : S5L1105-PEM1 Inst : GCECD_GH
Misc : DDT/ENDRIN 0.1 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 11 9:43 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Thu Dec 10 08:50:53 2015
Response via : Initial Calibration
DataAcq Meth : PG81209.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
	Target Compounds						
12) B	4,4'-DDE	9.72	10.45	5908	6550	0.003	0.004
14) AM	Endrin	10.22	11.23	1890000	1513492	0.931	0.889
16) A	4,4'-DDD	10.49	0.00	18432	0	0.010	N.D. #
17) AM	4,4'-DDT	11.17	12.02	1853204	1568808	0.831	0.845
18) B	Endrin Aldehyde	10.73	12.24	63436	70388	0.048	0.054m
21) B	Endrin Ketone	12.03	13.81	111628	106292	0.063	0.068

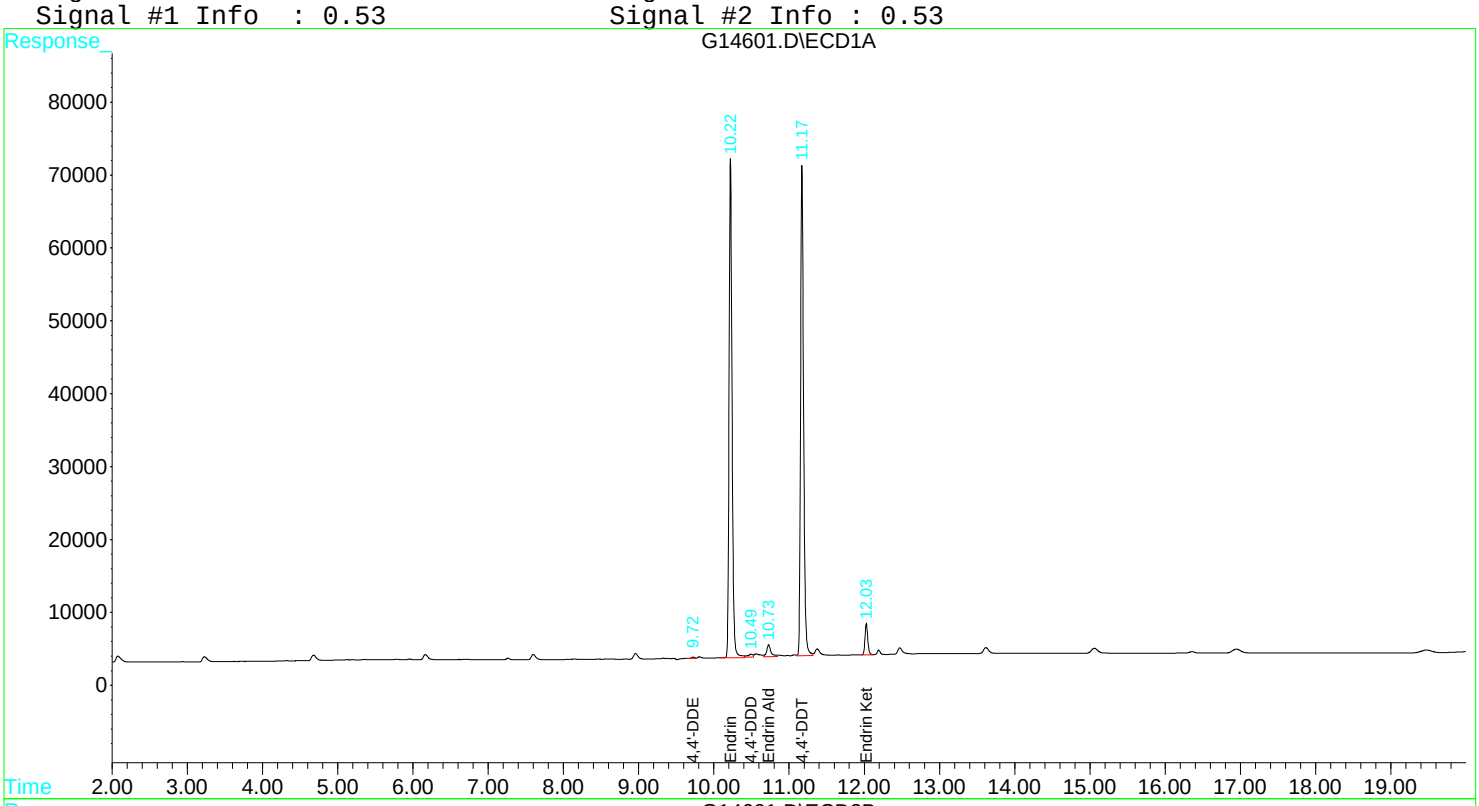
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

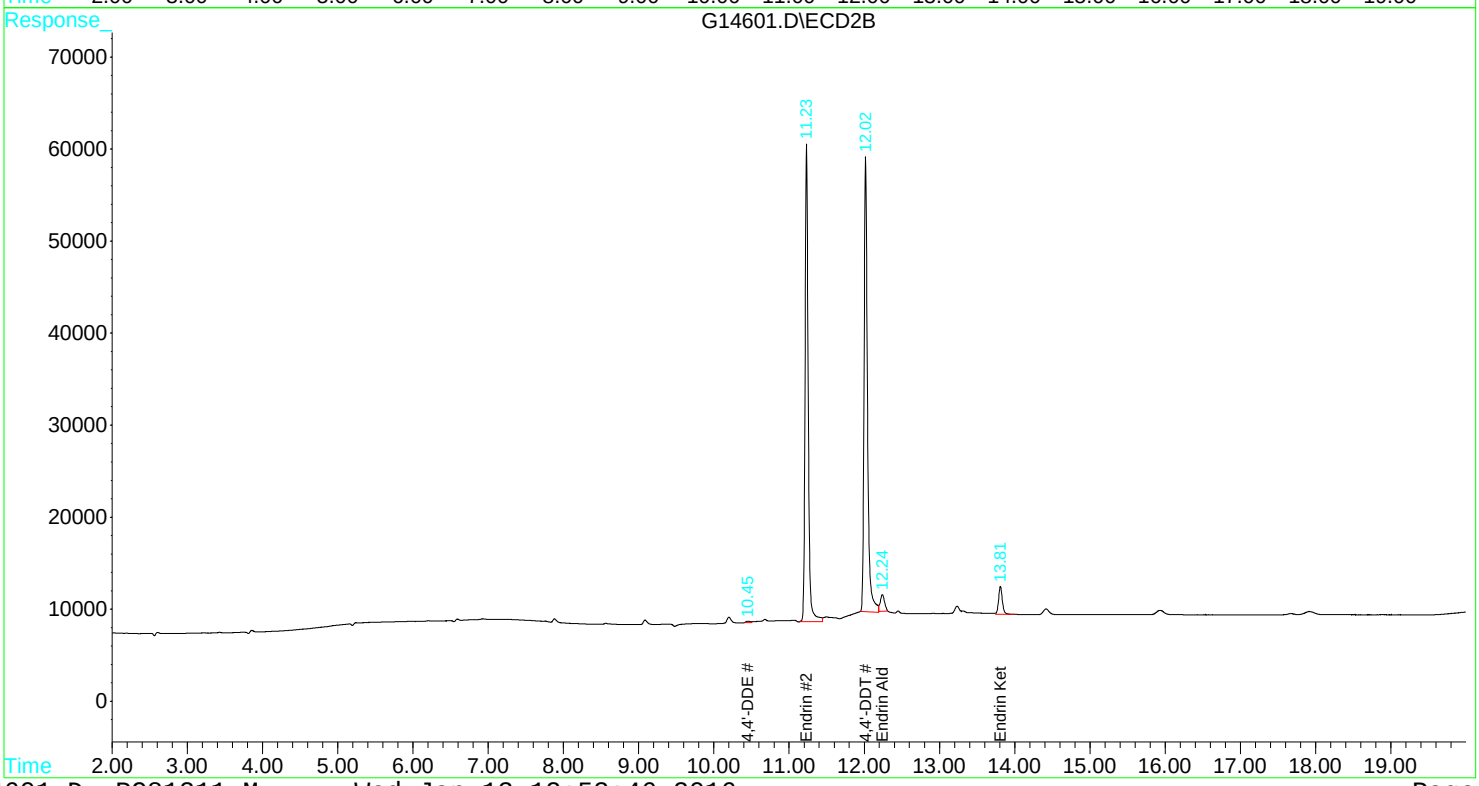
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14601.D\ECD1A.CH Vial: 2
Signal #2 : D:\G\DATA\DEC15\G1211\G14601.D\ECD2B.CH
Acq On : 11 Dec 2015 8:33 Operator: JAM
Sample : S5L1105-PEM1 Inst : GCECD_GH
Misc : DDT/ENDRIN 0.1 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 11 9:43 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Thu Dec 10 08:50:53 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81209.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Breakdown Report

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Lab Sample ID: S5L2801-PEM1 Analyzed: 12/28/2015

Column Number: 1

Analyte	% Breakdown
Endrin	7.40
4.4'-DDT	0.51

Column Number: 2

Analyte	% Breakdown
Endrin	8.22
4.4'-DDT	0.62

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14787.D\ECD1A.CH Vial: 2
Signal #2 : D:\G\DATA\DEC15\G1228\G14787.D\ECD2B.CH
Acq On : 28 Dec 2015 9:08 Operator: JAM
Sample : S5L2801-PEM1 Inst : GCECD_GH
Misc : DDT/ENDRIN 0.1 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 9:35 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
	Target Compounds							
12) B	4,4'-DDE	9.70	10.40	7216	10102	0.004	0.006	#
14) AM	Endrin	10.20	11.21	2474508	2054114	1.643	1.671	
16) A	4,4'-DDD	10.47	0.00	2406	0	0.002	N.D.	#
17) AM	4,4'-DDT	11.15	11.99	1862274	1623362	1.140	1.089	
18) B	Endrin Aldehyde	10.71	12.21	54488	57538	0.038	0.038	
21) B	Endrin Ketone	12.00	13.78f	143284	126470	0.076	0.072	

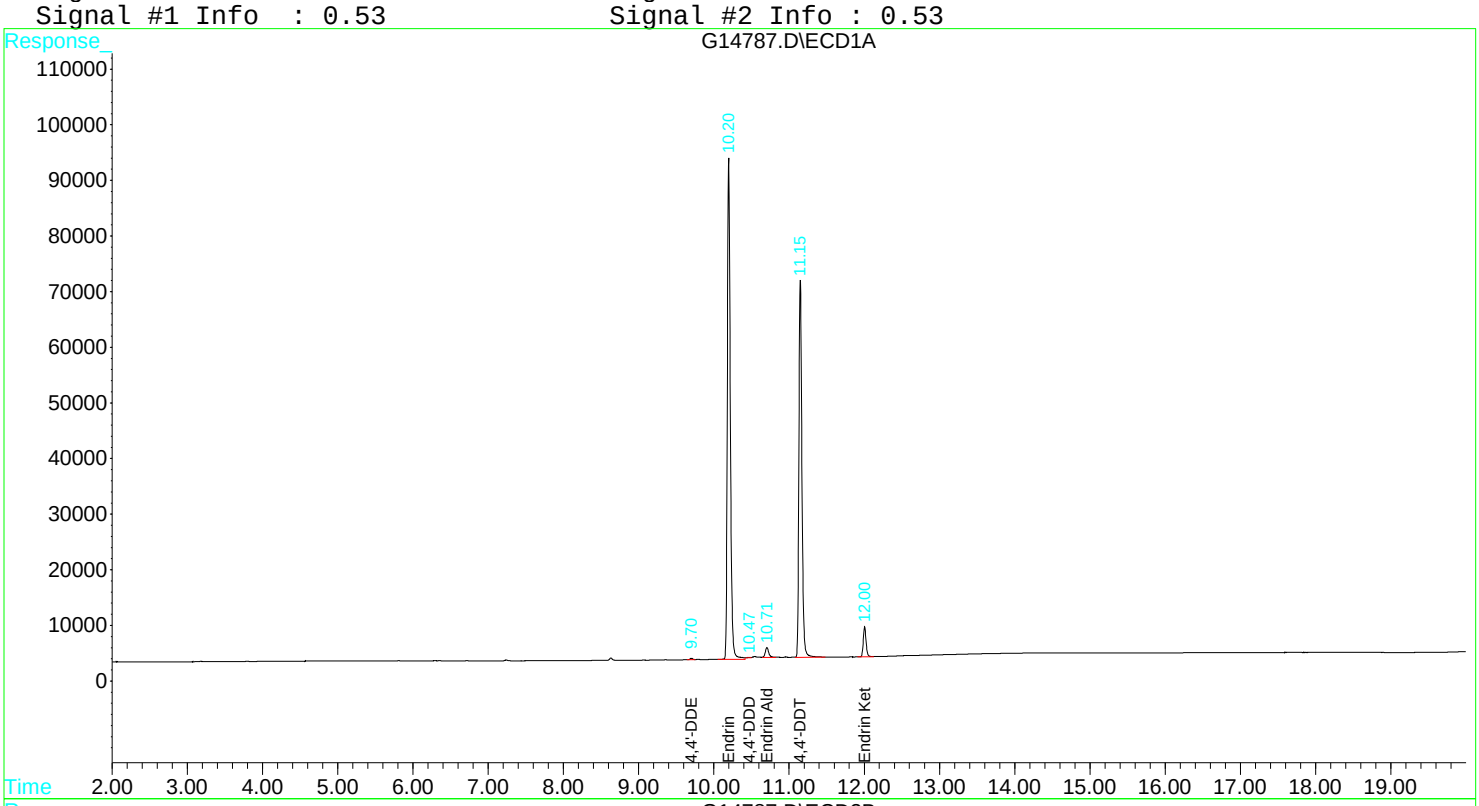
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

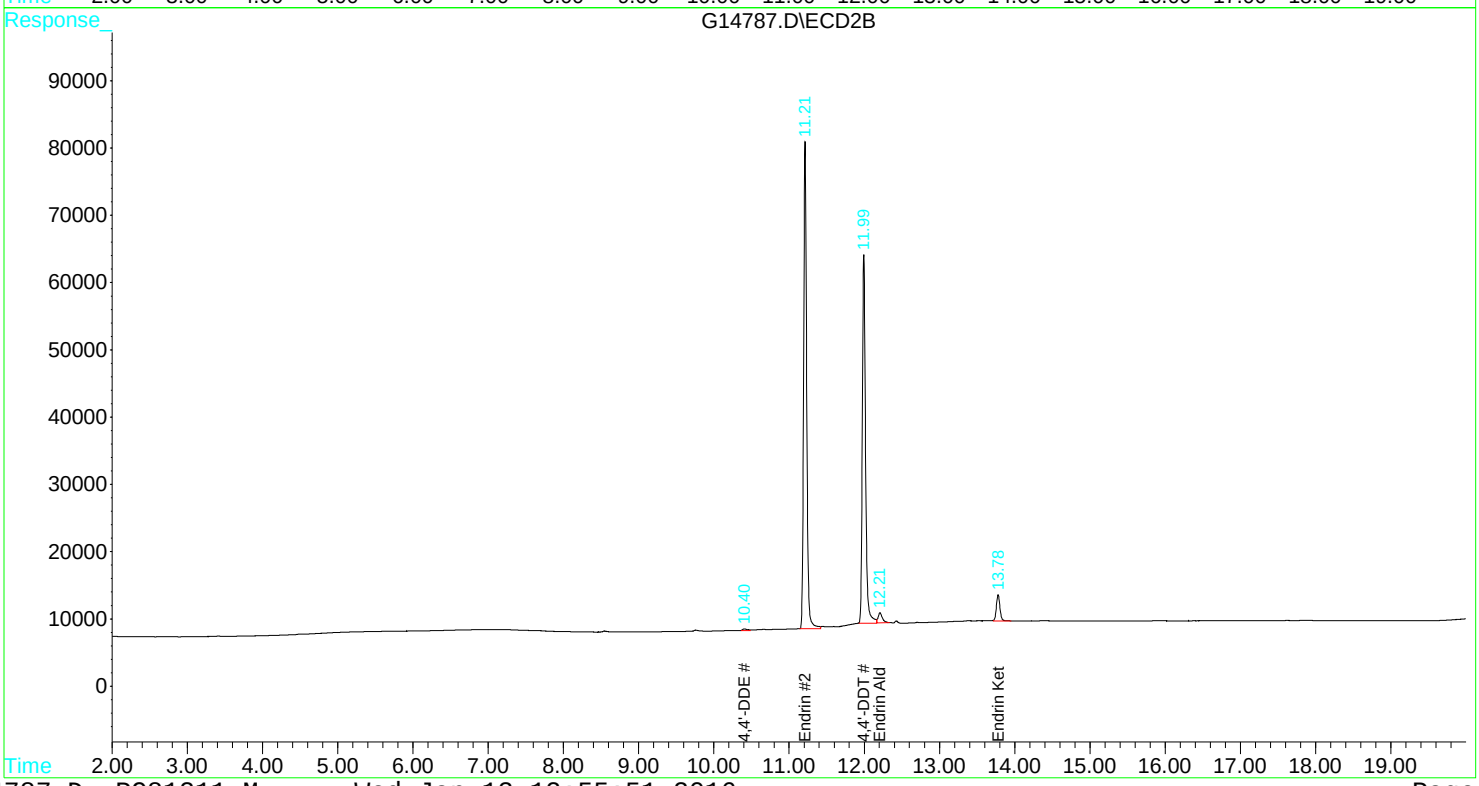
Quantitation Report (QT Reviewed)

```
Signal #1 : D:\G\DATA\DEC15\G1228\G14787.D\ECD1A.CH      Vial: 2
Signal #2 : D:\G\DATA\DEC15\G1228\G14787.D\ECD2B.CH
Acq On    : 28 Dec 2015   9:08                        Operator: JAM
Sample    : S5L2801-PEM1                              Inst    : GCECD_GH
Misc      : DDT/ENDRIN 0.1 PPM                        Multiplr: 1.00
IntFile Signal #1: RTEINT.P     IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28  9:35 2015  Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title        : 8081 Pesticides
Last Update  : Mon Dec 14 09:38:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj.     : 1 ul
Signal #1 Phase : Rtx-5              Signal #2 Phase: CLP PSTII
Signal #1 Info  : 0.53               Signal #2 Info : 0.53
```





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CONTINUING CALIBRATION VERIFICATION

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Instrument ID:	GCECD_GHF	Calibration:	15L1702
Lab File ID:	G14788.D	Calibration Date:	12/11/15 15:21
Sequence:	S5L2801	Injection Date:	12/28/15
Lab Sample ID:	S5L2801-CCV1	Injection Time:	09:37

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.0200	0.0217	2.110144E+07	2.28624E+07		8.3	20
alpha-BHC [2C]	A	0.0200	0.0210	2.360784E+07	2.4748E+07		4.8	20
gamma-BHC [Lindane]	A	0.0200	0.0217	2.066444E+07	2.23817E+07		8.3	20
gamma-BHC [Lindane] [2C]	A	0.0200	0.0219	2.327942E+07	2.54995E+07		9.5	20
Heptachlor	A	0.0200	0.0214	2.165387E+07	2.31449E+07		6.9	20
Heptachlor [2C]	A	0.0200	0.0230	1.676953E+07	1.9289E+07		15.0	20
Endosulfan I	A	0.0200	0.0207	1.871024E+07	1.93581E+07		3.5	20
Endosulfan I [2C]	A	0.0200	0.0215	1.745338E+07	1.87364E+07		7.4	20
Dieldrin	A	0.0400	0.0436	1.861059E+07	2.02691E+07		8.9	20
Dieldrin [2C]	A	0.0400	0.0424	1.711114E+07	1.81505E+07		6.1	20
Endrin	A	0.0400	0.0429	1.505639E+07	1.61652E+07		7.4	20
Endrin [2C]	A	0.0400	0.0447	1.229052E+07	1.37445E+07		11.8	20
4,4'-DDD	A	0.0400	0.0425	1.362116E+07	1.445645E+07		6.1	20
4,4'-DDD [2C]	A	0.0400	0.0429	1.218305E+07	1.306695E+07		7.3	20
4,4'-DDT	A	0.0400	0.0411	1.63329E+07	1.678575E+07		2.8	20
4,4'-DDT [2C]	A	0.0400	0.0408	1.490089E+07	1.520545E+07		2.0	20
Methoxychlor	A	0.200	0.196	8826672	8636120		-2.2	20
Methoxychlor [2C]	A	0.200	0.225	5823606	6545630		12.4	20
Tetrachloro-m-xylene	A	0.0200	0.0214	1.763843E+07	1.88396E+07		6.8	20
Tetrachloro-m-xylene [2C]	A	0.0200	0.0193	2.077731E+07	2.0069E+07		-3.4	20
Decachlorobiphenyl	A	0.0400	0.0411	2.630805E+07	2.703955E+07		2.8	20
Decachlorobiphenyl [2C]	A	0.0400	0.0389	2.551668E+07	2.48016E+07		-2.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14788.D\ECD1A.CH Vial: 3
Signal #2 : D:\G\DATA\DEC15\G1228\G14788.D\ECD2B.CH
Acq On : 28 Dec 2015 9:37 Operator: JAM
Sample : S5L2801-CCV1 Inst : GCECD_GH
Misc : MIX A 0.02 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 10:05 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) AS Tetrachloro-m-xy	4.62	4.92	376792	401380	0.214	0.193m
Spiked Amount 1.000 Range 30 - 150 Recovery =					21.40%#	19.30%#
22) AS Decachlorobiphen	16.31	17.62f	1081582	992064	0.411	0.389
Spiked Amount 1.000 Range 30 - 150 Recovery =					41.10%	38.90%
Target Compounds						
2) A alpha-BHC	5.33	6.18	457248	494960	0.217	0.210
3) AM gamma-BHC (Linda	5.93	6.90	447634	509990	0.217	0.219
4) AM Heptachlor	7.24	7.75	462898	385780	0.214	0.230m
9) A Endosulfan I	9.30	10.17	387162	374728	0.207	0.215
13) AM Dieldrin	9.79	10.66	810764	726020	0.436	0.424
14) AM Endrin	10.20	11.21	646608	549780	0.429	0.447
16) A 4,4'-DDD	10.47	11.45	578258	522678	0.425	0.429
17) AM 4,4'-DDT	11.15	11.99	671430	608218	0.411	0.408
20) A Methoxychlor	12.17	13.27	1727224	1309126	1.957	2.248

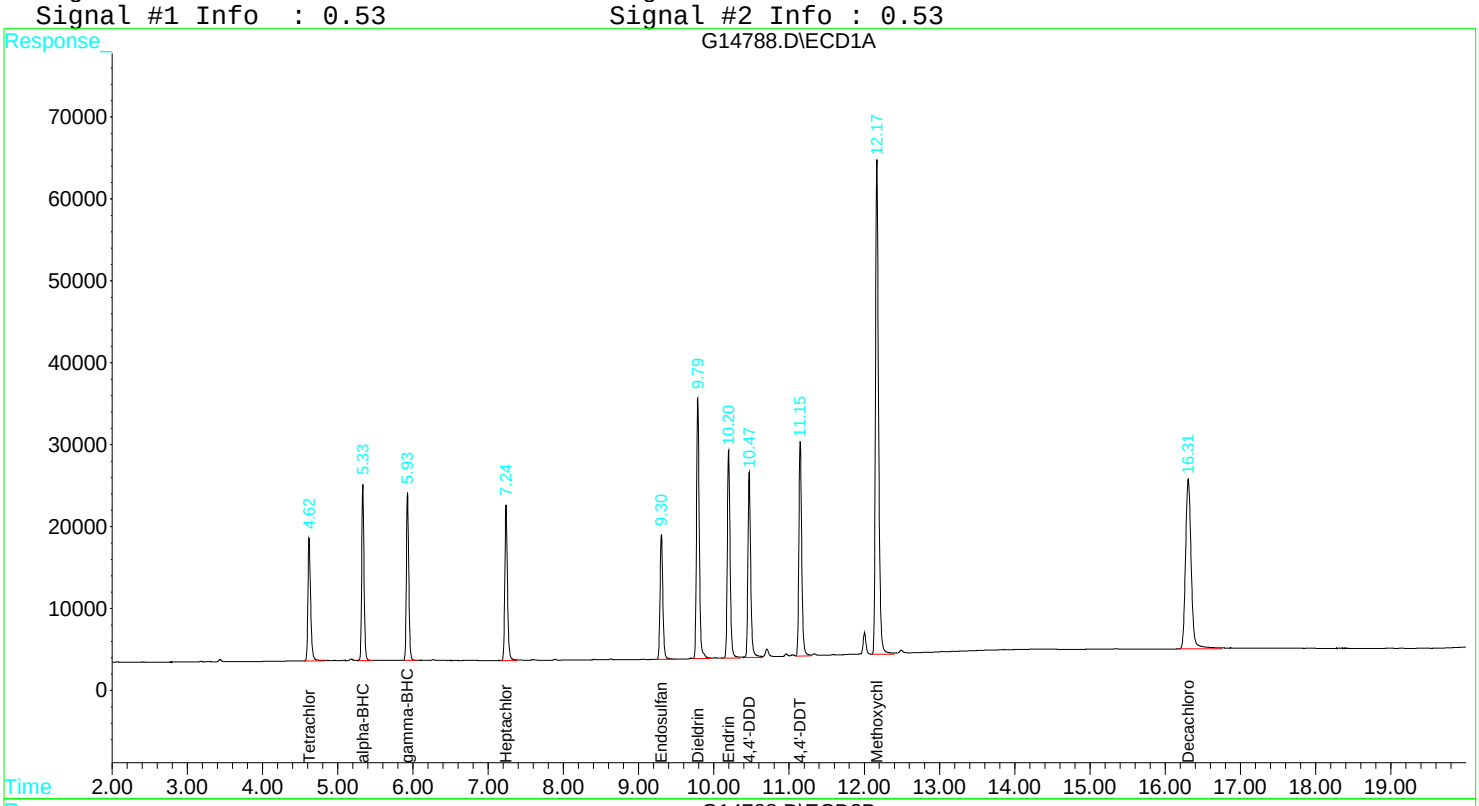
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

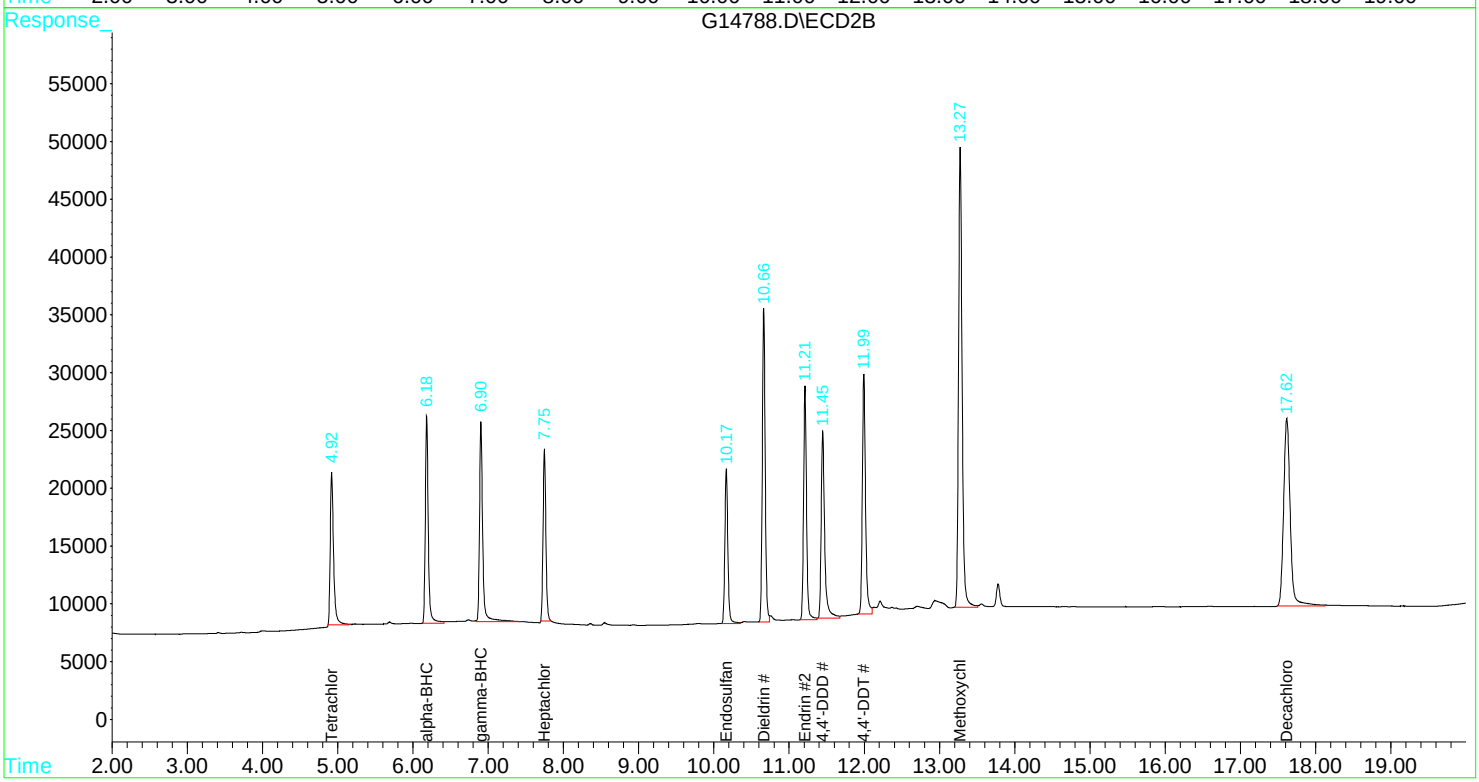
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14788.D\ECD1A.CH Vial: 3
Signal #2 : D:\G\DATA\DEC15\G1228\G14788.D\ECD2B.CH
Acq On : 28 Dec 2015 9:37 Operator: JAM
Sample : S5L2801-CCV1 Inst : GCECD_GH
Misc : MIX A 0.02 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 10:05 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Instrument ID:	GCECD_GHF	Calibration:	15L1702
Lab File ID:	G14789.D	Calibration Date:	12/11/15 15:21
Sequence:	S5L2801	Injection Date:	12/28/15
Lab Sample ID:	S5L2801-CCV2	Injection Time:	10:06

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
beta-BHC	A	0.0200	0.0210	1.109409E+07	1.16528E+07		5.0	20
beta-BHC [2C]	A	0.0200	0.0225	1.192292E+07	1.34426E+07		12.7	20
delta-BHC	A	0.0200	0.0212	1.83164E+07	1.9431E+07		6.1	20
delta-BHC [2C]	A	0.0200	0.0216	1.825937E+07	1.97615E+07		8.2	20
Aldrin	A	0.0200	0.0208	1.921726E+07	1.99435E+07		3.8	20
Aldrin [2C]	A	0.0200	0.0205	1.981338E+07	2.02881E+07		2.4	20
Heptachlor Epoxide	A	0.0200	0.0197	1.95521E+07	1.92664E+07		-1.5	20
Heptachlor Epoxide [2C]	A	0.0200	0.0206	1.822586E+07	1.87633E+07		2.9	20
4,4'-DDE	A	0.0400	0.0419	1.77821E+07	1.86182E+07		4.7	20
4,4'-DDE [2C]	A	0.0400	0.0418	1.764388E+07	1.84541E+07		4.6	20
Endosulfan II	A	0.0400	0.0416	1.634623E+07	1.69894E+07		3.9	20
Endosulfan II [2C]	A	0.0400	0.0413	1.508075E+07	1.55894E+07		3.4	20
Endosulfan sulfate	A	0.0400	0.0423	1.574599E+07	1.66659E+07		5.8	20
Endosulfan sulfate [2C]	A	0.0400	0.0415	1.377867E+07	1.429925E+07		3.8	20
Endrin ketone	A	0.0400	0.0417	1.888566E+07	1.969215E+07		4.3	20
Endrin ketone [2C]	A	0.0400	0.0401	1.752038E+07	1.756215E+07		0.2	20
Endrin aldehyde	A	0.0400	0.0416	1.436256E+07	1.494275E+07		4.0	20
Endrin aldehyde [2C]	A	0.0400	0.0364	1.504726E+07	1.369885E+07		-9.0	20
alpha-Chlordane	A	0.0200	0.0205	1.937443E+07	1.98716E+07		2.6	20
alpha-Chlordane [2C]	A	0.0200	0.0205	1.89122E+07	1.94115E+07		2.6	20
gamma-Chlordane	A	0.0200	0.0206	1.934307E+07	1.99011E+07		2.9	20
gamma-Chlordane [2C]	A	0.0200	0.0197	1.967558E+07	1.94065E+07		-1.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14789.D\ECD1A.CH Vial: 4
Signal #2 : D:\G\DATA\DEC15\G1228\G14789.D\ECD2B.CH
Acq On : 28 Dec 2015 10:06 Operator: JAM
Sample : S5L2801-CCV2 Inst : GCECD_GH
Misc : MIX B 0.02 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 10:33 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

System Monitoring Compounds

Target Compounds

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
5)	BM	Aldrin	7.89	8.36	398870	405762	0.208	0.205
6)	B	beta-BHC	5.81	7.10	233056	268852	0.210	0.225
7)	B	delta-BHC	6.35	7.68	388620	395230	0.212	0.216
8)	B	Heptachlor Epoxi	8.63	9.45	385328	375266	0.197	0.206
10)	B	gamma-Chlordane	9.06	9.80	398022	388130	0.206	0.197
11)	B	alpha-Chlordane	9.34	10.06	397432	388230	0.205	0.205
12)	B	4,4'-DDE	9.70	10.40	744728	738164	0.419	0.418
15)	B	Endosulfan II	10.36f	11.60	679576	623576	0.416	0.413
18)	B	Endrin Aldehyde	10.70f	12.21	597710	547954	0.416	0.364
19)	B	Endosulfan Sulfa	11.13	12.70	666636	571970	0.423	0.415
21)	B	Endrin Ketone	12.00f	13.78f	787686	702486	0.417	0.401

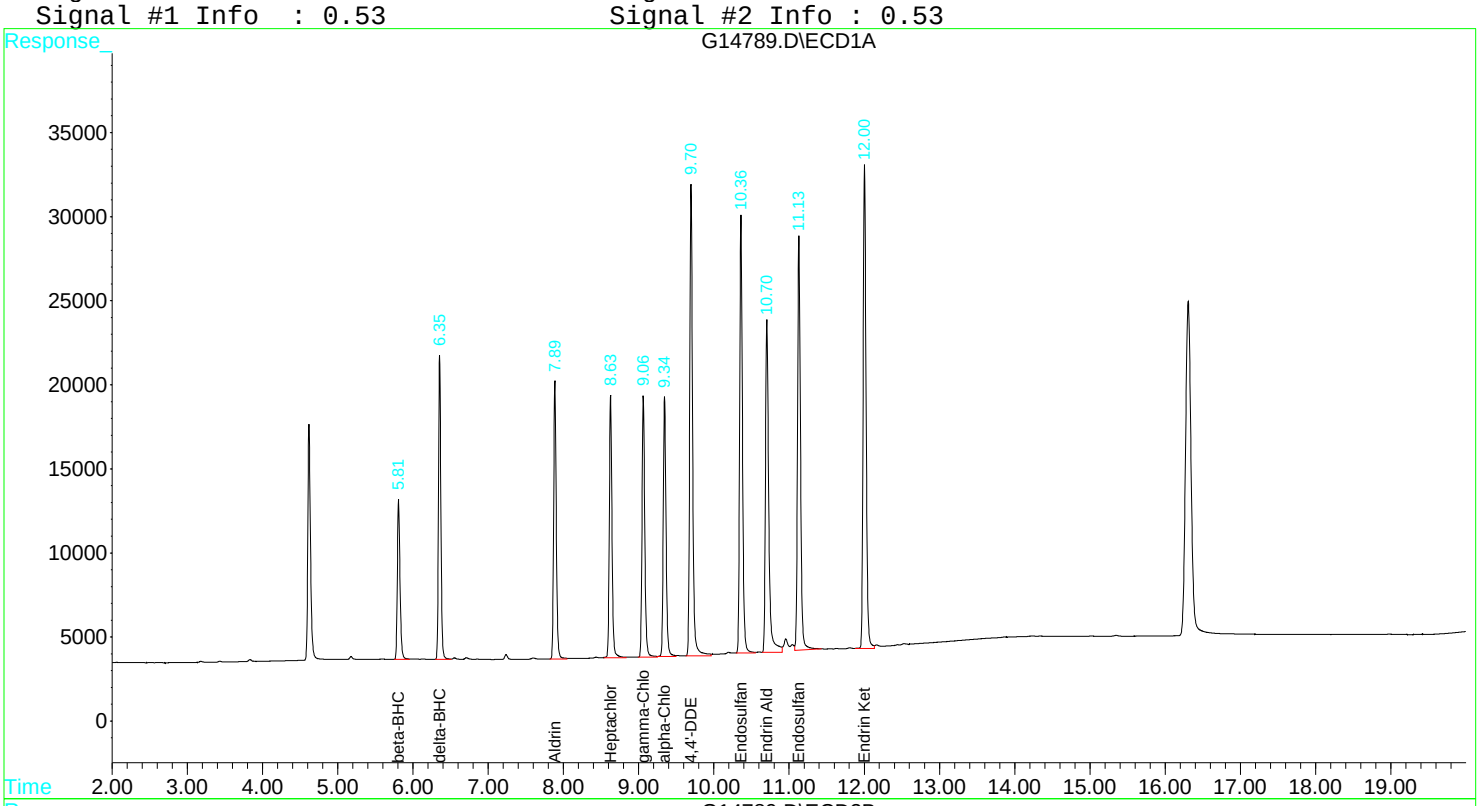
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

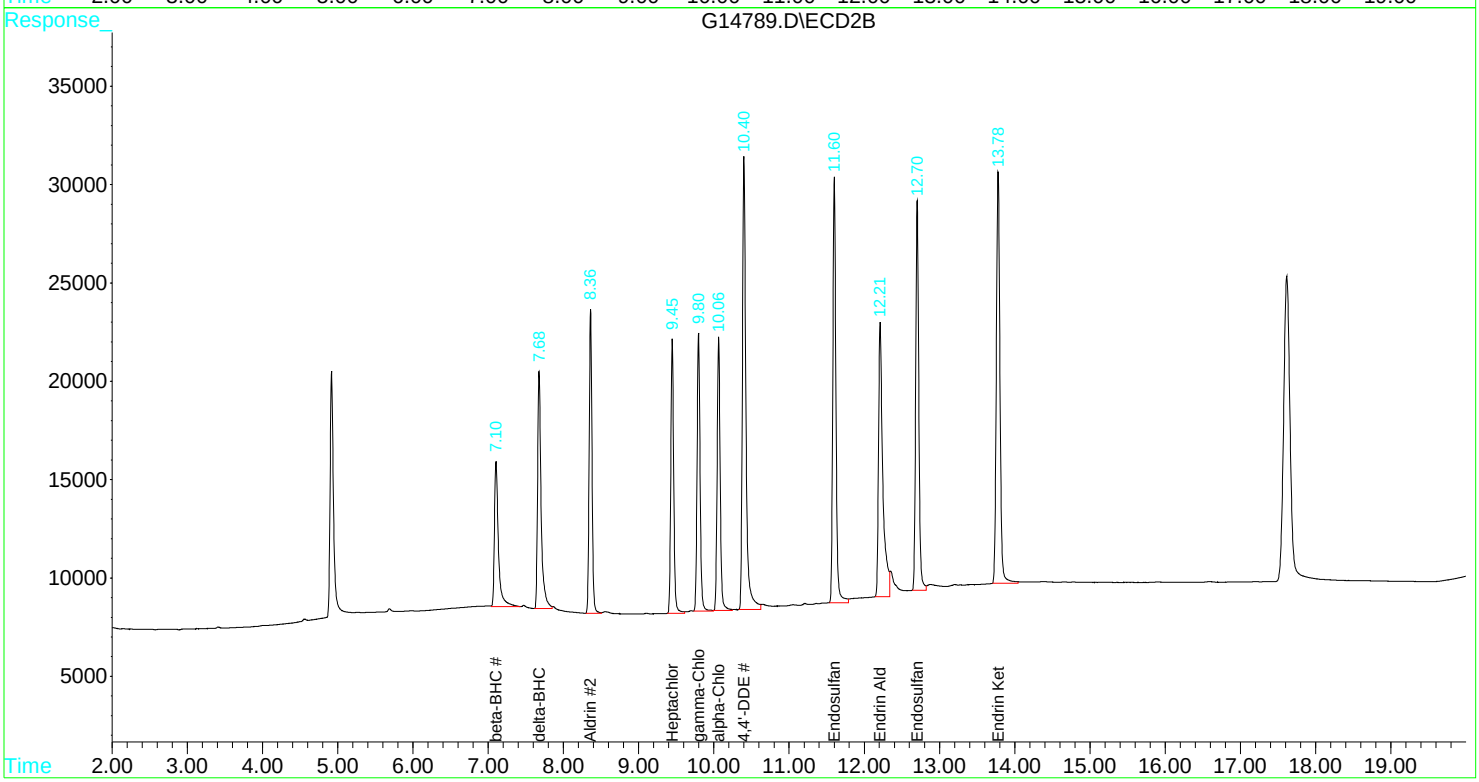
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14789.D\ECD1A.CH Vial: 4
Signal #2 : D:\G\DATA\DEC15\G1228\G14789.D\ECD2B.CH
Acq On : 28 Dec 2015 10:06 Operator: JAM
Sample : S5L2801-CCV2 Inst : GCECD_GH
Misc : MIX B 0.02 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 10:33 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





CONTINUING CALIBRATION VERIFICATION

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Instrument ID:	GCECD_GHF	Calibration:	15L1702
Lab File ID:	G14790.D	Calibration Date:	12/11/15 15:21
Sequence:	S5L2801	Injection Date:	12/28/15
Lab Sample ID:	S5L2801-CCV3	Injection Time:	11:19

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Toxaphene	A	2.50	2.38	203864.7	193122.6		-5.3	20
Toxaphene (1)	A	2.50	2.31	213487.5	197528		-7.5	20
Toxaphene (2)	A	2.50	2.33	239197.9	223147.2		-6.7	20
Toxaphene (3)	A	2.50	2.41	290892.1	280364.8		-3.6	20
Toxaphene (4)	A	2.50	2.48	71881.08	71450.4		-0.6	20
Toxaphene [2C]	A	2.50	2.48	364638.2	363247.8		-0.4	20
Toxaphene (1) [2C]	A	2.50	2.45	237756	232834.4		-2.1	20
Toxaphene (2) [2C]	A	2.50	2.54	600798.6	611260.8		1.7	20
Toxaphene (3) [2C]	A	2.50	2.38	305562.6	291504		-4.6	20
Toxaphene (4) [2C]	A	2.50	2.52	314435.4	317392		0.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14790.D\ECD1A.CH Vial: 5
Signal #2 : D:\G\DATA\DEC15\G1228\G14790.D\ECD2B.CH
Acq On : 28 Dec 2015 11:19 Operator: JAM
Sample : S5L2801-CCV3 Inst : GCECD_GH
Misc : TOXAPHENE 2.5 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 11:47 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
	Target Compounds						
23)	Toxaphene {1}	9.72	10.64	493820	582086	23.131m	24.482
24)	Toxaphene {2}	10.61	11.75	557868	1528152	23.322m	25.435m
25)	Toxaphene {3}	11.95	12.22	700912	728760	24.095m	23.850m
26)	Toxaphene {4}	12.41	13.16	178626	793480	24.850m	25.235m

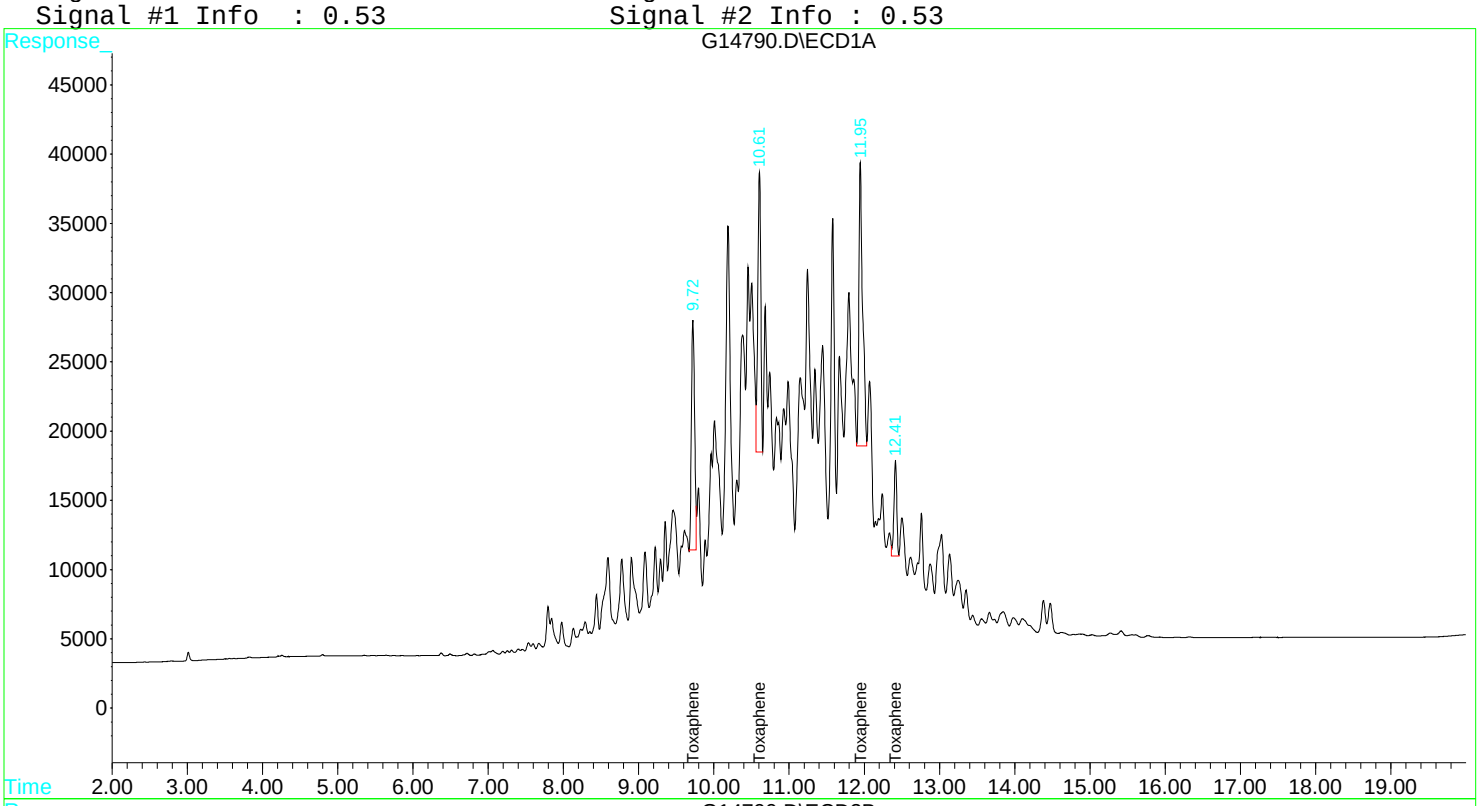
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

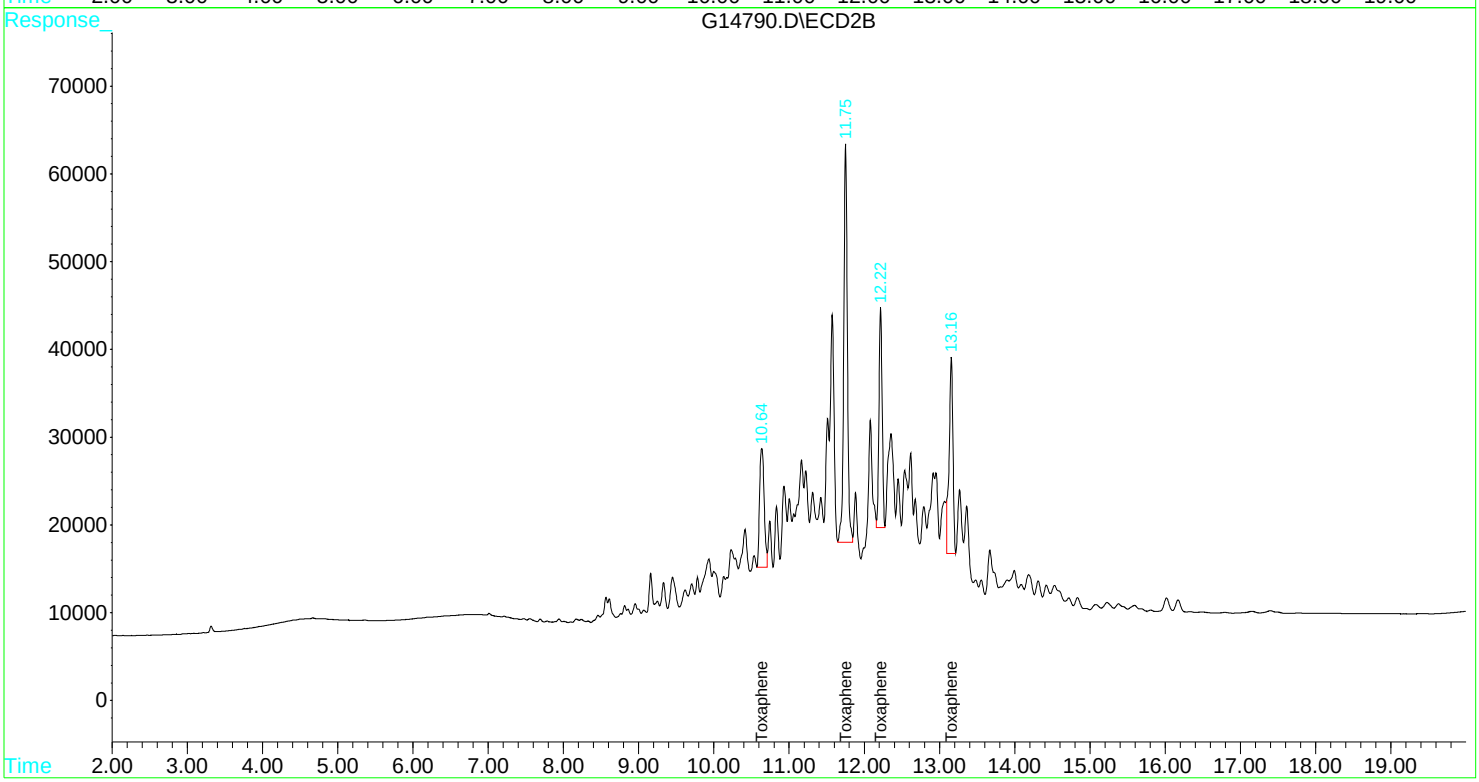
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14790.D\ECD1A.CH Vial: 5
Signal #2 : D:\G\DATA\DEC15\G1228\G14790.D\ECD2B.CH
Acq On : 28 Dec 2015 11:19 Operator: JAM
Sample : S5L2801-CCV3 Inst : GCECD_GH
Misc : TOXAPHENE 2.5 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 11:47 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:38:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





CONTINUING CALIBRATION VERIFICATION

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Instrument ID:	GCECD_GHF	Calibration:	15L1702
Lab File ID:	G14791.D	Calibration Date:	12/11/15 15:21
Sequence:	S5L2801	Injection Date:	12/28/15
Lab Sample ID:	S5L2801-CCV4	Injection Time:	11:49

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	1.00	1.01	83885.82	84571.33		0.8	20
Aroclor-1016 (1)	A	1.00	1.02	48467.73	49372		1.9	20
Aroclor-1016 (2)	A	1.00	1.01	140187.8	141045		0.6	20
Aroclor-1016 (3)	A	1.00	1.00	63001.9	63297		0.5	20
Aroclor-1016 [2C]	A	1.00	1.08	91221.69	99344.67		8.9	20
Aroclor-1016 (1) [2C]	A	1.00	1.05	74068.57	77557		4.7	20
Aroclor-1016 (2) [2C]	A	1.00	1.12	135747.8	152617		12.4	20
Aroclor-1016 (3) [2C]	A	1.00	1.06	63848.67	67860		6.3	20
Aroclor-1260	A	1.00	1.02	148842.8	153227.3		2.9	20
Aroclor-1260 (1)	A	1.00	0.975	97629.6	95191		-2.5	20
Aroclor-1260 (2)	A	1.00	1.03	142638.9	147127		3.1	20
Aroclor-1260 (3)	A	1.00	1.05	206259.9	217364		5.4	20
Aroclor-1260 [2C]	A	1.00	1.10	114030	125446.3		10.0	20
Aroclor-1260 (1) [2C]	A	1.00	1.12	118013.6	131833		11.7	20
Aroclor-1260 (2) [2C]	A	1.00	1.11	81761.6	90952		11.2	20
Aroclor-1260 (3) [2C]	A	1.00	1.08	142314.8	153554		7.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14791.D\ECD1A.CH Vial: 6
Signal #2 : D:\G\DATA\DEC15\G1228\G14791.D\ECD2B.CH
Acq On : 28 Dec 2015 11:49 Operator: JAM
Sample : S5L2801-CCV4 Inst : GCECD_GH
Misc : A1016/1260 1.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 12:31 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 10:09:57 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) AS TCMX	4.62	4.92	42902	42501	0.226	0.187m
Spiked Amount 1.000			Recovery	=	22.60%	18.70%
29) AS DCB	16.31f	17.62f	58750	55402	0.198m	0.194m
Spiked Amount 1.000			Recovery	=	19.80%	19.40%
Target Compounds						
2) L1 Aroclor-1016	6.43f	6.70f	49372	77557	10.187	10.471
3) L1 Aroclor-1016 {2}	6.93f	7.59f	141045	152617	10.061	11.243m
4) L1 Aroclor-1016 {3}	7.12f	7.84f	63297	67860	10.047	10.628m
20) L7 Aroclor-1260	10.30f	11.35f	95191	131833	9.750	11.171
21) L7 Aroclor-1260 {2}	11.24f	12.67f	147127	90952	10.315	11.124
22) L7 Aroclor-1260 {3}	12.44f	13.94f	217364	153554	10.538	10.790m

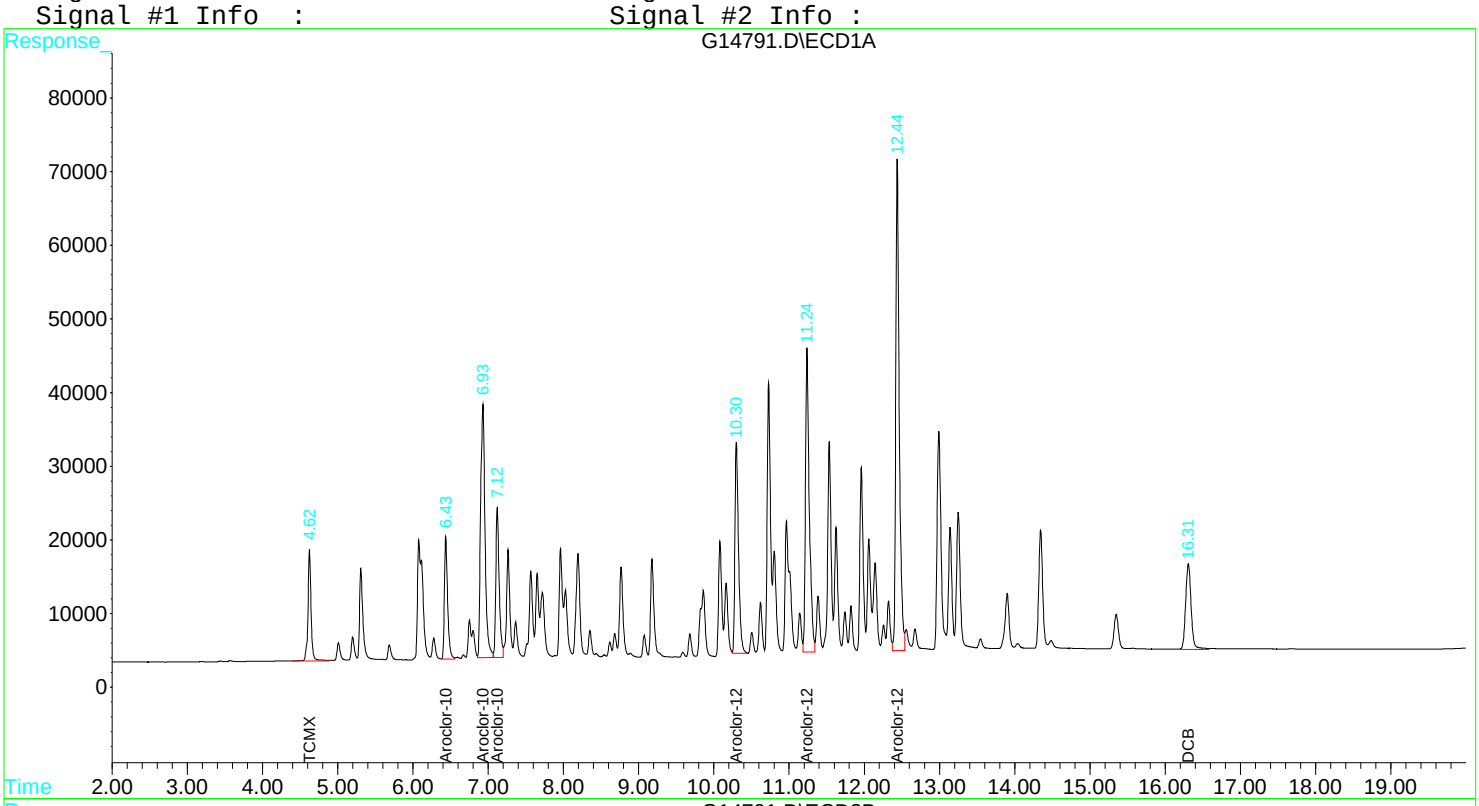
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

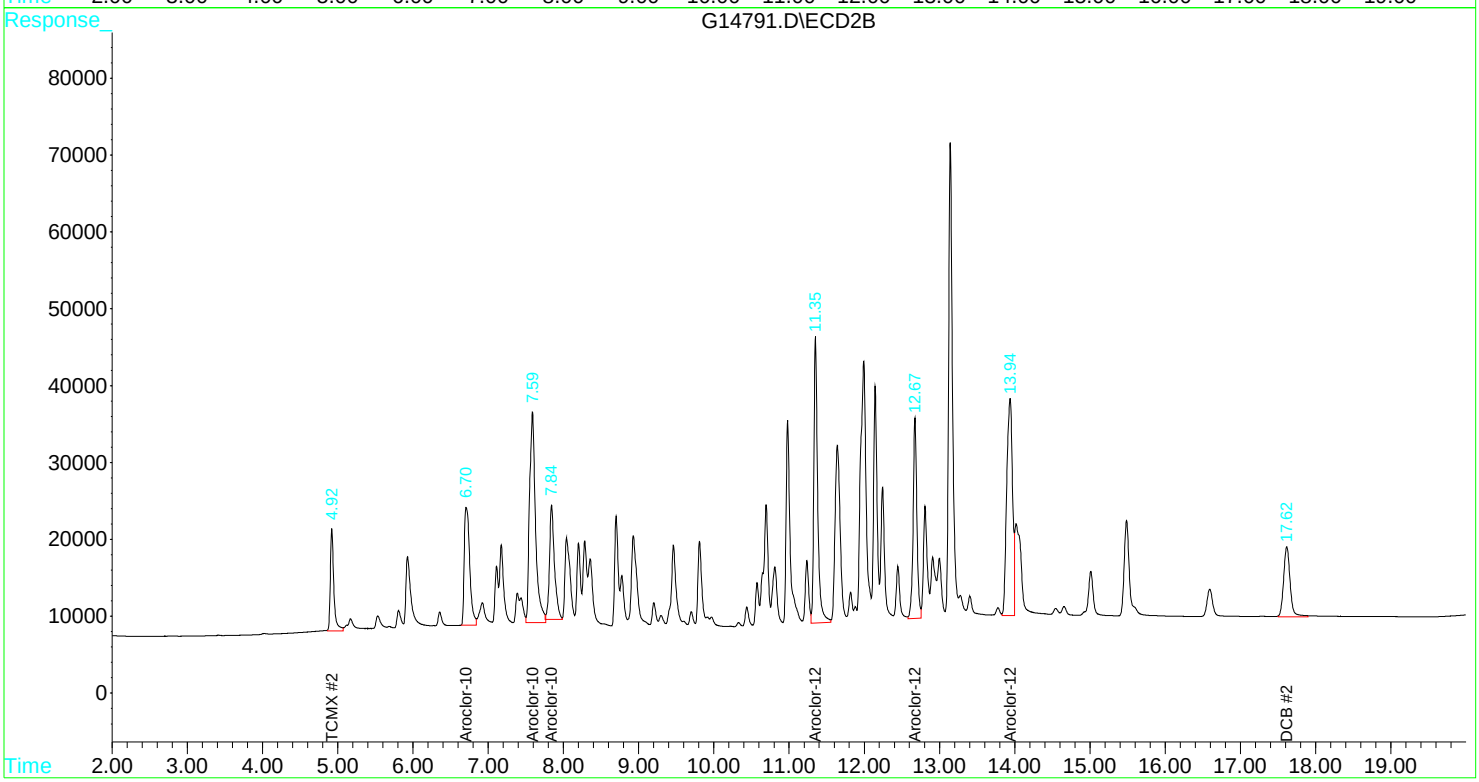
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1228\G14791.D\ECD1A.CH Vial: 6
Signal #2 : D:\G\DATA\DEC15\G1228\G14791.D\ECD2B.CH
Acq On : 28 Dec 2015 11:49 Operator: JAM
Sample : S5L2801-CCV4 Inst : GCECD_GH
Misc : A1016/1260 1.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 28 12:31 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 10:09:57 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :





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CALIBRATION VERIFICATION SUMMARY

Client: **BRINKERHOFF ENVIRONMENTAL**
Work Order: **1502323**
Project: **255 East 138th Street, Bronx, NY**

Client Sample No. (Calib##): Calibration Check
Lab Sample ID (Calib): S5L2801-CCV1(1)
Init. Calib. Date(s): 12/11/2015
Date Analyzed: 12/28/2015 0937

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	05.33	05.28	05.38	21101440	22862400	8.3
gamma-BHC [Lindane]	05.93	05.88	05.98	20664440	22381700	8.3
Heptachlor	07.24	07.19	07.29	21653870	23144900	6.9
Endosulfan I	09.30	09.25	09.35	18710240	19358100	3.5
Dieldrin	09.79	09.74	09.84	18610590	20269100	8.9
Endrin	10.20	10.15	10.25	15056390	16165200	7.4
4,4'-DDD	10.47	10.42	10.52	13621160	14456450	6.1
4,4'-DDT	11.15	11.10	11.20	16332900	16785750	2.8
Methoxychlor	12.17	12.12	12.22	8826672	8636120	-2.2
Tetrachloro-m-xylene	04.62	04.57	04.67	17638430	18839600	6.8
Decachlorobiphenyl	16.31	16.26	16.36	26308050	27039550	2.8

Client: **BRINKERHOFF ENVIRONMENTAL**
Work Order: **1502323**
Project: **255 East 138th Street, Bronx, NY**

Client Sample No. (Calib##): Calibration Check
Lab Sample ID (Calib): S5L2801-CCV1(2)
Init. Calib. Date(s): 12/11/2015
Date Analyzed: 12/28/2015 0937

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	06.18	06.13	06.23	23607840	24748000	4.8
gamma-BHC [Lindane]	06.90	06.85	06.95	23279420	25499500	9.5
Heptachlor	07.75	07.70	07.80	16769530	19289000	15.0
Endosulfan I	10.17	10.12	10.22	17453380	18736400	7.4
Dieldrin	10.66	10.61	10.71	17111140	18150500	6.1
Endrin	11.21	11.16	11.26	12290520	13744500	11.8
4,4'-DDD	11.45	11.40	11.50	12183050	13066950	7.3
4,4'-DDT	11.99	11.94	12.04	14900890	15205450	2.0
Methoxychlor	13.27	13.22	13.32	5823606	6545630	12.4
Tetrachloro-m-xylene	04.92	04.87	04.97	20777310	20069000	-3.4
Decachlorobiphenyl	17.62	17.57	17.67	25516680	24801600	-2.8

Accredited Analytical Resources, LLC.

CALIBRATION VERIFICATION SUMMARY

Client: **BRINKERHOFF ENVIRONMENTAL**
Work Order: **1502323**
Project: **255 East 138th Street, Bronx, NY**

Client Sample No. (Calib##): Calibration Check
Lab Sample ID (Calib): S5L2801-CCV2(1)
Init. Calib. Date(s): 12/11/2015
Date Analyzed: 12/28/2015 1006

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
beta-BHC	05.81	05.76	05.86	11094090	11652800	5.0
delta-BHC	06.35	06.30	06.40	18316400	19431000	6.1
Aldrin	07.89	07.84	07.94	19217260	19943500	3.8
Heptachlor Epoxide	08.63	08.58	08.68	19552100	19266400	-1.5
4,4'-DDE	09.70	09.65	09.75	17782100	18618200	4.7
Endosulfan II	10.36	10.31	10.41	16346230	16989400	3.9
Endosulfan sulfate	11.13	11.08	11.18	15745990	16665900	5.8
Endrin ketone	12.00	11.95	12.05	18885660	19692150	4.3
Endrin aldehyde	10.70	10.65	10.75	14362560	14942750	4.0
alpha-Chlordane	09.34	09.29	09.39	19374430	19871600	2.6
gamma-Chlordane	09.06	09.01	09.11	19343070	19901100	2.9

Client: **BRINKERHOFF ENVIRONMENTAL**
Work Order: **1502323**
Project: **255 East 138th Street, Bronx, NY**

Client Sample No. (Calib##): Calibration Check
Lab Sample ID (Calib): S5L2801-CCV2(2)
Init. Calib. Date(s): 12/11/2015
Date Analyzed: 12/28/2015 1006

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
beta-BHC	07.10	07.05	07.15	11922920	13442600	12.7
delta-BHC	07.68	07.63	07.73	18259370	19761500	8.2
Aldrin	08.36	08.31	08.41	19813380	20288100	2.4
Heptachlor Epoxide	09.45	09.40	09.50	18225860	18763300	2.9
4,4'-DDE	10.40	10.35	10.45	17643880	18454100	4.6
Endosulfan II	11.60	11.55	11.65	15080750	15589400	3.4
Endosulfan sulfate	12.70	12.65	12.75	13778670	14299250	3.8
Endrin ketone	13.78	13.73	13.83	17520380	17562150	0.2
Endrin aldehyde	12.21	12.16	12.26	15047260	13698850	-9.0
alpha-Chlordane	10.06	10.01	10.11	18912200	19411500	2.6
gamma-Chlordane	09.80	09.75	09.85	19675580	19406500	-1.4

Accredited Analytical Resources, LLC.

CALIBRATION VERIFICATION SUMMARY

Client: **BRINKERHOFF ENVIRONMENTAL**
Work Order: **1502323**
Project: **255 East 138th Street, Bronx, NY**

Client Sample No. (Calib##): Calibration Check
Lab Sample ID (Calib): S5L2801-CCV3(1)
Init. Calib. Date(s): 12/11/2015
Date Analyzed: 12/28/2015 1119

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Toxaphene	12.41	12.36	12.46	203865	193123	-5.3
Toxaphene (1)	09.72	09.67	09.77	213488	197528	-7.5
Toxaphene (2)	10.61	10.56	10.66	239198	223147	-6.7
Toxaphene (3)	11.95	11.90	12.00	290892	280365	-3.6
Toxaphene (4)	12.41	12.36	12.46	71881	71450	-0.6

Client: **BRINKERHOFF ENVIRONMENTAL**
Work Order: **1502323**
Project: **255 East 138th Street, Bronx, NY**

Client Sample No. (Calib##): Calibration Check
Lab Sample ID (Calib): S5L2801-CCV3(2)
Init. Calib. Date(s): 12/11/2015
Date Analyzed: 12/28/2015 1119

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Toxaphene	13.16	13.11	13.21	364638	363248	-0.4
Toxaphene (1)	10.64	10.59	10.69	237756	232834	-2.1
Toxaphene (2)	11.75	11.70	11.80	600799	611261	1.7
Toxaphene (3)	12.22	12.17	12.27	305563	291504	-4.6
Toxaphene (4)	13.16	13.11	13.21	314435	317392	0.9

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CALIBRATION VERIFICATION SUMMARY

Client: **BRINKERHOFF ENVIRONMENTAL**
Work Order: **1502323**
Project: **255 East 138th Street, Bronx, NY**

Client Sample No. (Calib##): Calibration Check
Lab Sample ID (Calib): S5L2801-CCV4(1)
Init. Calib. Date(s): 12/11/2015
Date Analyzed: 12/28/2015 1149

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Aroclor-1016	07.12	07.07	07.17	83886	84571	0.8
Aroclor-1016 (1)	06.43	06.38	06.48	48468	49372	1.9
Aroclor-1016 (2)	06.93	06.88	06.98	140188	141045	0.6
Aroclor-1016 (3)	07.12	07.07	07.17	63002	63297	0.5
Aroclor-1260	12.44	12.39	12.49	148843	153227	2.9
Aroclor-1260 (1)	10.30	10.25	10.35	97630	95191	-2.5
Aroclor-1260 (2)	11.24	11.19	11.29	142639	147127	3.1
Aroclor-1260 (3)	12.44	12.39	12.49	206260	217364	5.4

Client: **BRINKERHOFF ENVIRONMENTAL**
Work Order: **1502323**
Project: **255 East 138th Street, Bronx, NY**

Client Sample No. (Calib##): Calibration Check
Lab Sample ID (Calib): S5L2801-CCV4(2)
Init. Calib. Date(s): 12/11/2015
Date Analyzed: 12/28/2015 1149

Individual Mix Compound	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Aroclor-1016	07.84	07.79	07.89	91222	99345	8.9
Aroclor-1016 (1)	06.70	06.65	06.75	74069	77557	4.7
Aroclor-1016 (2)	07.59	07.54	07.64	135748	152617	12.4
Aroclor-1016 (3)	07.84	07.79	07.89	63849	67860	6.3
Aroclor-1260	13.94	13.89	13.99	114030	125446	10.0
Aroclor-1260 (1)	11.35	11.30	11.40	118014	131833	11.7
Aroclor-1260 (2)	12.67	12.62	12.72	81762	90952	11.2
Aroclor-1260 (3)	13.94	13.89	13.99	142315	153554	7.9

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PEST/PCB

RAW DATA

Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14602.D\ECD1A.CH Vial: 3
Signal #2 : D:\G\DATA\DEC15\G1211\G14602.D\ECD2B.CH
Acq On : 11 Dec 2015 9:47 Operator: JAM
Sample : S5L1105-CAL1 Inst : GCECD_GH
Misc : MIX A 0.08 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 11 12:40 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Thu Dec 10 08:50:53 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) AS	Tetrachloro-m-xy	4.66	4.94	1294126	1342602	0.549	0.514
Spiked Amount	1.000 Range	30 - 150	Recovery	=		54.90%	51.40%
22) AS	Decachlorobiphen	16.37	17.67	3559856	3568056	0.979	1.102
Spiked Amount	1.000 Range	30 - 150	Recovery	=		97.90%	110.20%
	Target Compounds						
2) A	alpha-BHC	5.37	6.20	1980114	2106104	0.689	0.720
3) AM	gamma-BHC (Linda	5.96	6.92	1858160	1913382	0.672	0.671m
4) AM	Heptachlor	7.27	7.77	1755924	1439916	0.623	0.625
9) A	Endosulfan I	9.34	10.19	1491686	1366104	0.591	0.609
13) AM	Dieldrin	9.82	10.69	3140188	2828656	1.222	1.258
14) AM	Endrin	10.23	11.23	2517848	2061168	1.240	1.210
16) A	4,4'-DDD	10.50	11.47	2292998	1989778	1.188	1.241
17) AM	4,4'-DDT	11.18	12.02	2643680	2368116	1.185	1.275
20) A	Methoxychlor	12.20	13.30	6142312	4721922	5.471	5.797

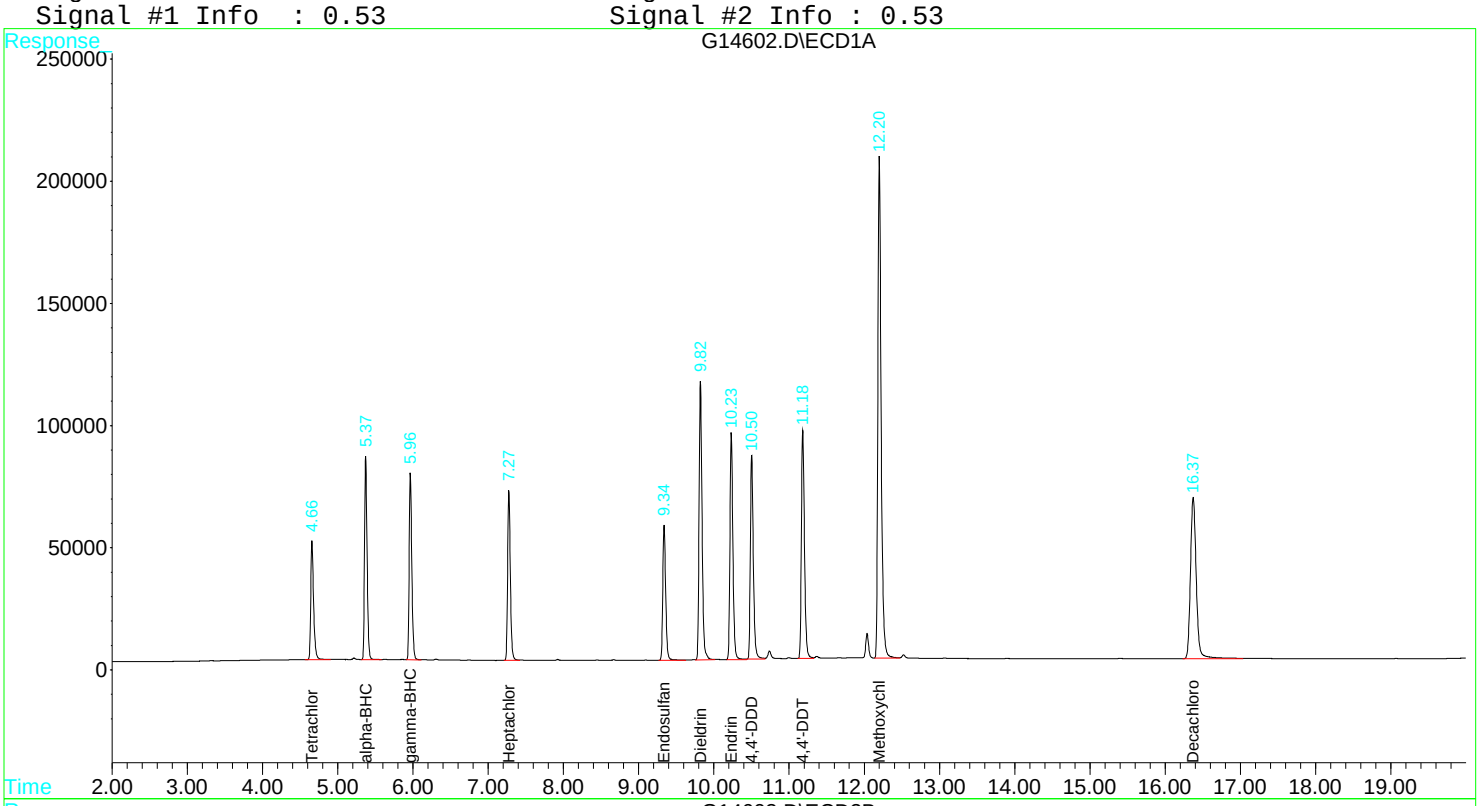
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

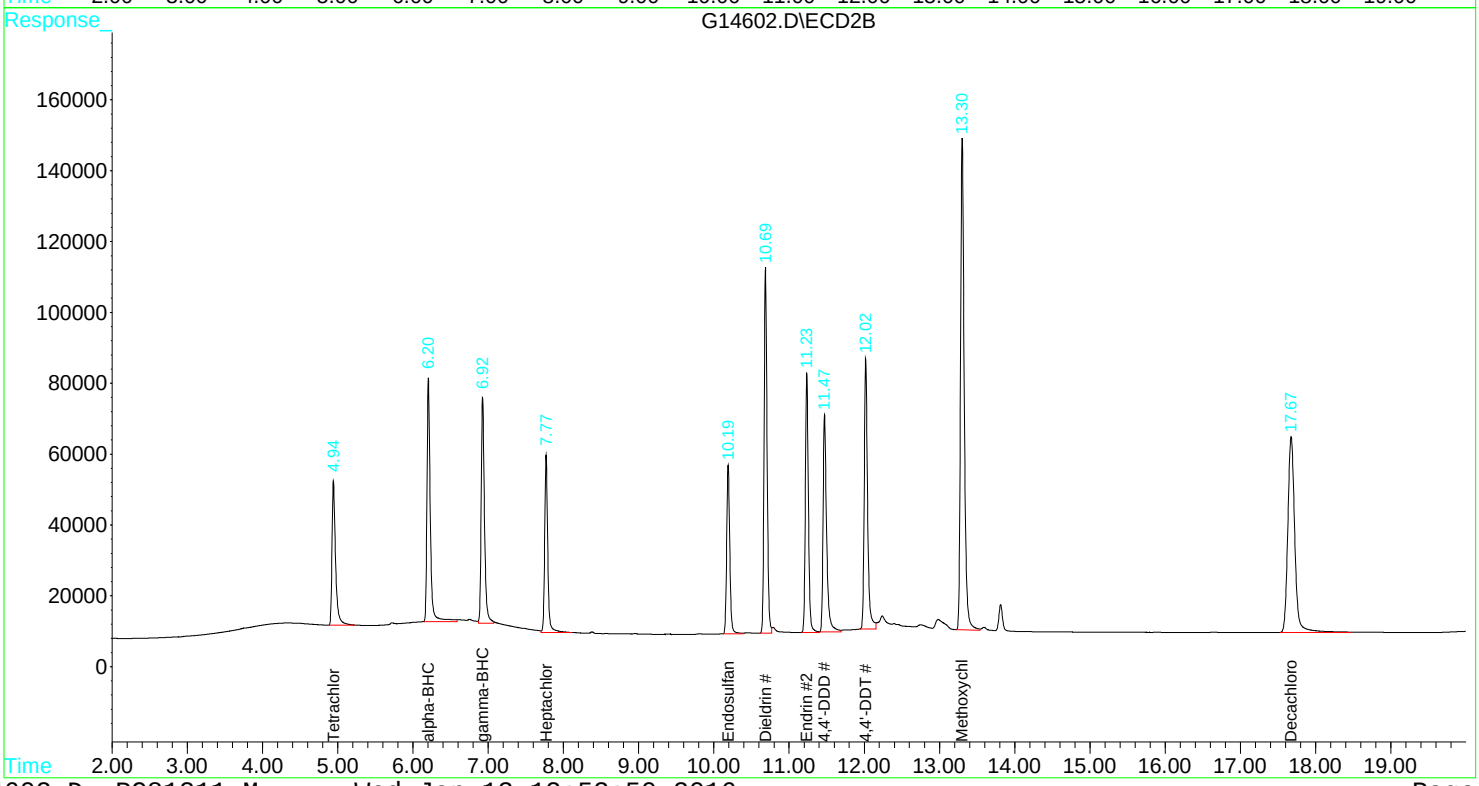
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14602.D\ECD1A.CH Vial: 3
Signal #2 : D:\G\DATA\DEC15\G1211\G14602.D\ECD2B.CH
Acq On : 11 Dec 2015 9:47 Operator: JAM
Sample : S5L1105-CAL1 Inst : GCECD_GH
Misc : MIX A 0.08 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 11 12:40 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Thu Dec 10 08:50:53 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14603.D\ECD1A.CH Vial: 4
Signal #2 : D:\G\DATA\DEC15\G1211\G14603.D\ECD2B.CH
Acq On : 11 Dec 2015 10:16 Operator: JAM
Sample : S5L1105-CAL2 Inst : GCECD_GH
Misc : MIX A 0.04 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 11 11:48 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Thu Dec 10 08:50:53 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) AS	Tetrachloro-m-xy	4.63	4.94	686782	805980	0.291	0.309
Spiked Amount	1.000	Range	30 - 150	Recovery	=	29.10%#	30.90%
22) AS	Decachlorobiphen	16.36	17.67	1932590	1896140	0.532	0.586
Spiked Amount	1.000	Range	30 - 150	Recovery	=	53.20%	58.60%
	Target Compounds						
2) A	alpha-BHC	5.34	6.20	934822	939312	0.325	0.321
3) AM	gamma-BHC (Linda	5.94	6.92	894200	914316	0.323	0.321
4) AM	Heptachlor	7.25	7.76	862404	679128	0.306	0.295
9) A	Endosulfan I	9.32	10.18	728364	682856	0.288	0.304
13) AM	Dieldrin	9.81	10.68	1548184	1373764	0.602	0.611
14) AM	Endrin	10.22	11.23	1219744	973702	0.601	0.572
16) A	4,4'-DDD	10.49	11.48	1133778	961992	0.587	0.600
17) AM	4,4'-DDT	11.17	12.02	1321246	1178808	0.592	0.635
20) A	Methoxychlor	12.19	13.30	3252572	2312586	2.897	2.839

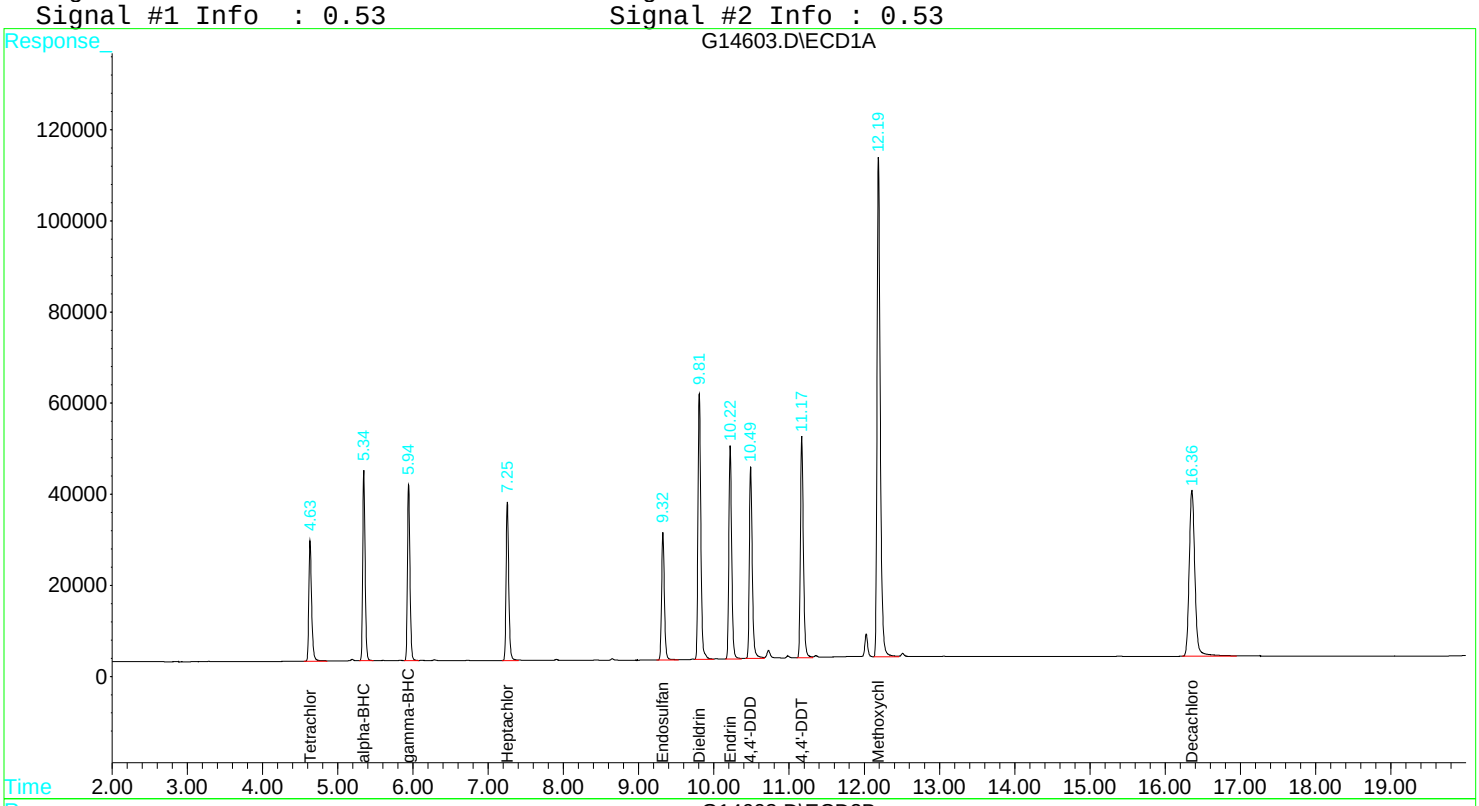
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

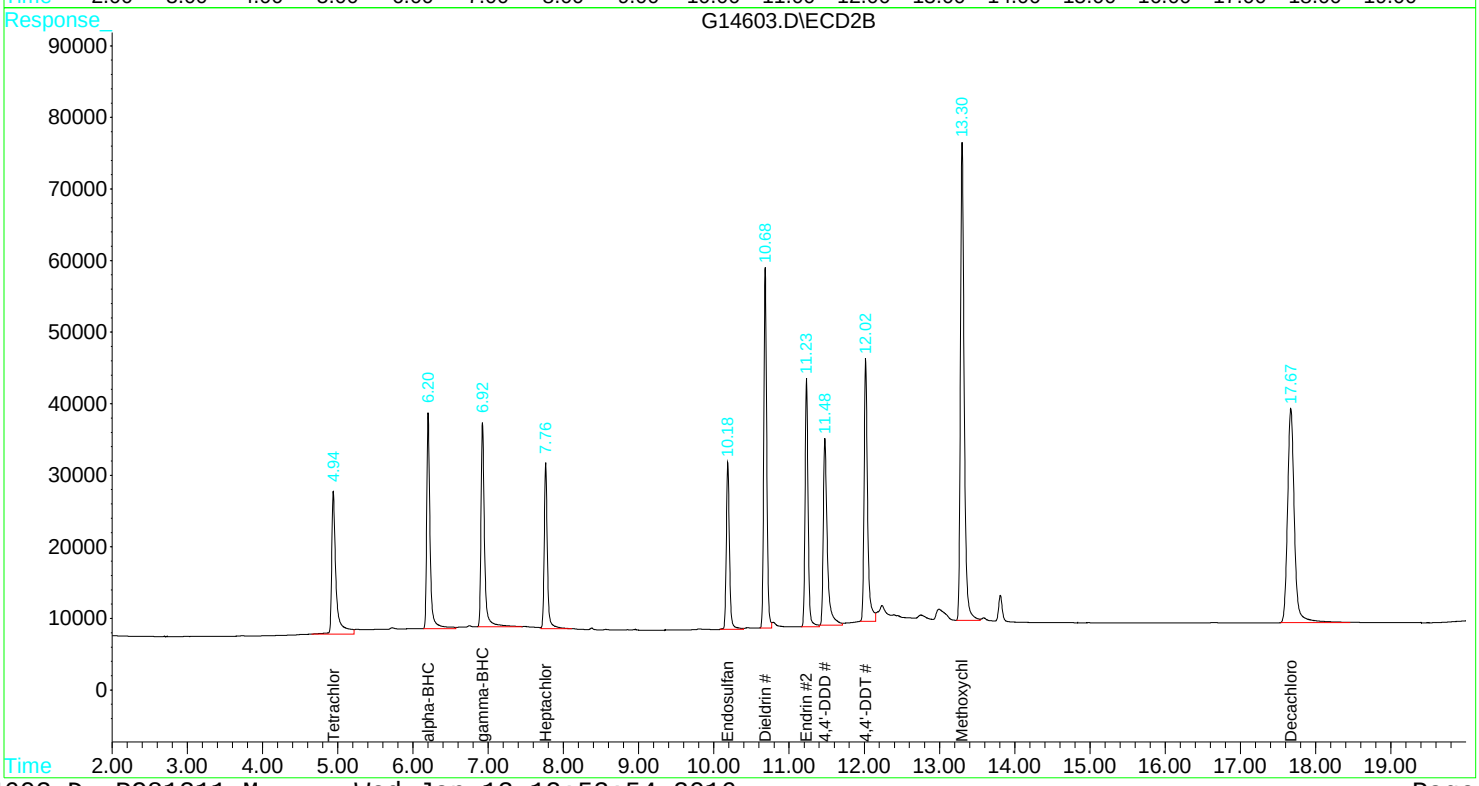
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14603.D\ECD1A.CH Vial: 4
Signal #2 : D:\G\DATA\DEC15\G1211\G14603.D\ECD2B.CH
Acq On : 11 Dec 2015 10:16 Operator: JAM
Sample : S5L1105-CAL2 Inst : GCECD_GH
Misc : MIX A 0.04 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 11 11:48 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Thu Dec 10 08:50:53 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14604.D\ECD1A.CH Vial: 5
Signal #2 : D:\G\DATA\DEC15\G1211\G14604.D\ECD2B.CH
Acq On : 11 Dec 2015 10:46 Operator: JAM
Sample : S5L1105-CAL3 Inst : GCECD_GH
Misc : MIX A 0.02 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 11 11:49 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Thu Dec 10 08:50:53 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) AS Tetrachloro-m-xy	4.63	4.94	355180	414806	0.151	0.159m
Spiked Amount 1.000 Range 30 - 150 Recovery =					15.10%#	15.90%#
22) AS Decachlorobiphen	16.35	17.67	1035686	1003628	0.285	0.310
Spiked Amount 1.000 Range 30 - 150 Recovery =					28.50%#	31.00%
Target Compounds						
2) A alpha-BHC	5.35	6.20	428460	451598	0.149	0.154
3) AM gamma-BHC (Linda	5.94	6.92	420892	449506	0.152	0.158
4) AM Heptachlor	7.25	7.76	423040	322630	0.150	0.140m
9) A Endosulfan I	9.32	10.18	356876	345504	0.141	0.154
13) AM Dieldrin	9.81	10.68	749494	668158	0.292	0.297
14) AM Endrin	10.22	11.23	591844	476928	0.292	0.280
16) A 4,4'-DDD	10.49	11.48	551062	475214	0.285	0.296
17) AM 4,4'-DDT	11.17	12.02	655752	592444	0.294	0.319
20) A Methoxychlor	12.19	13.30	1744712	1176164	1.554	1.444

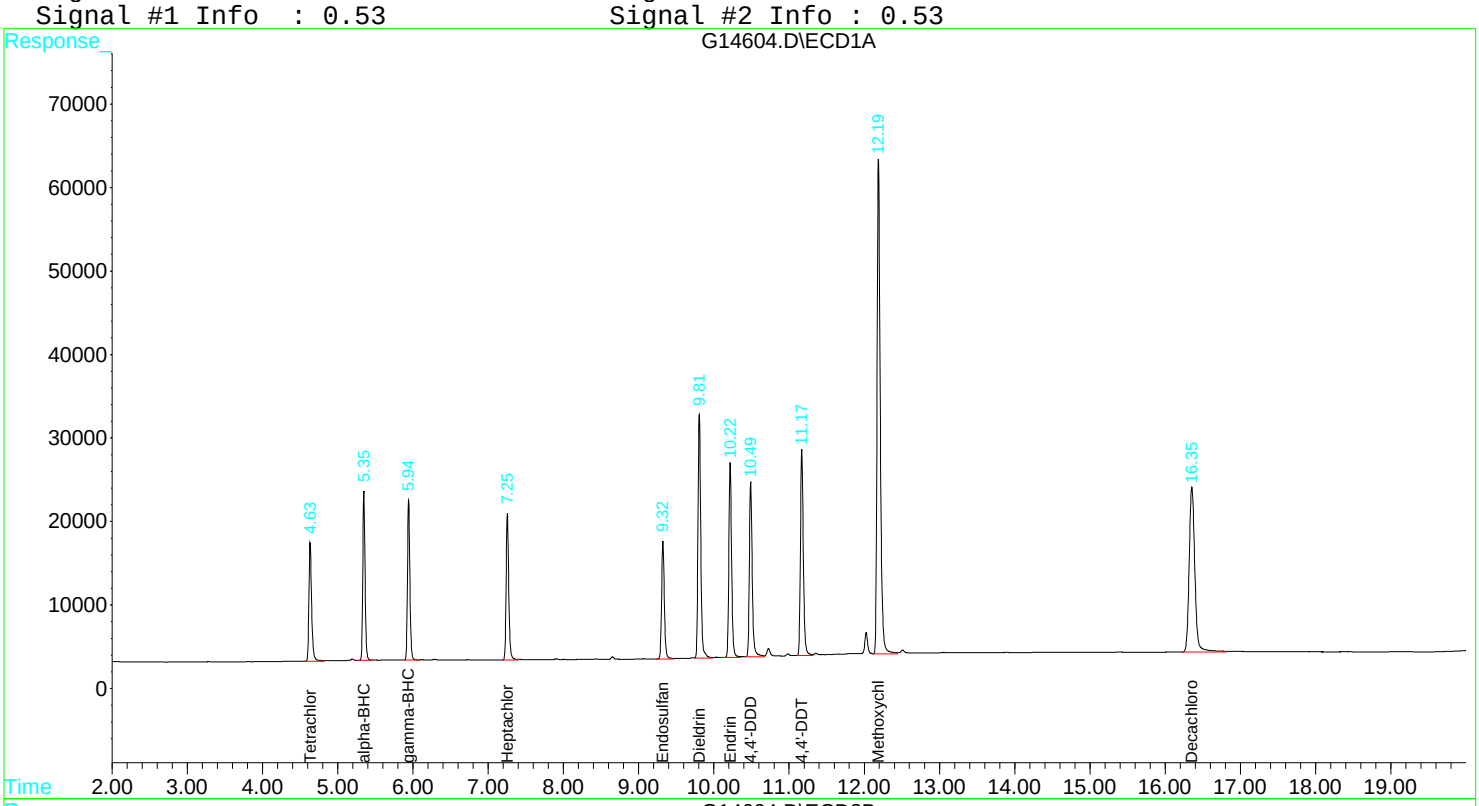
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

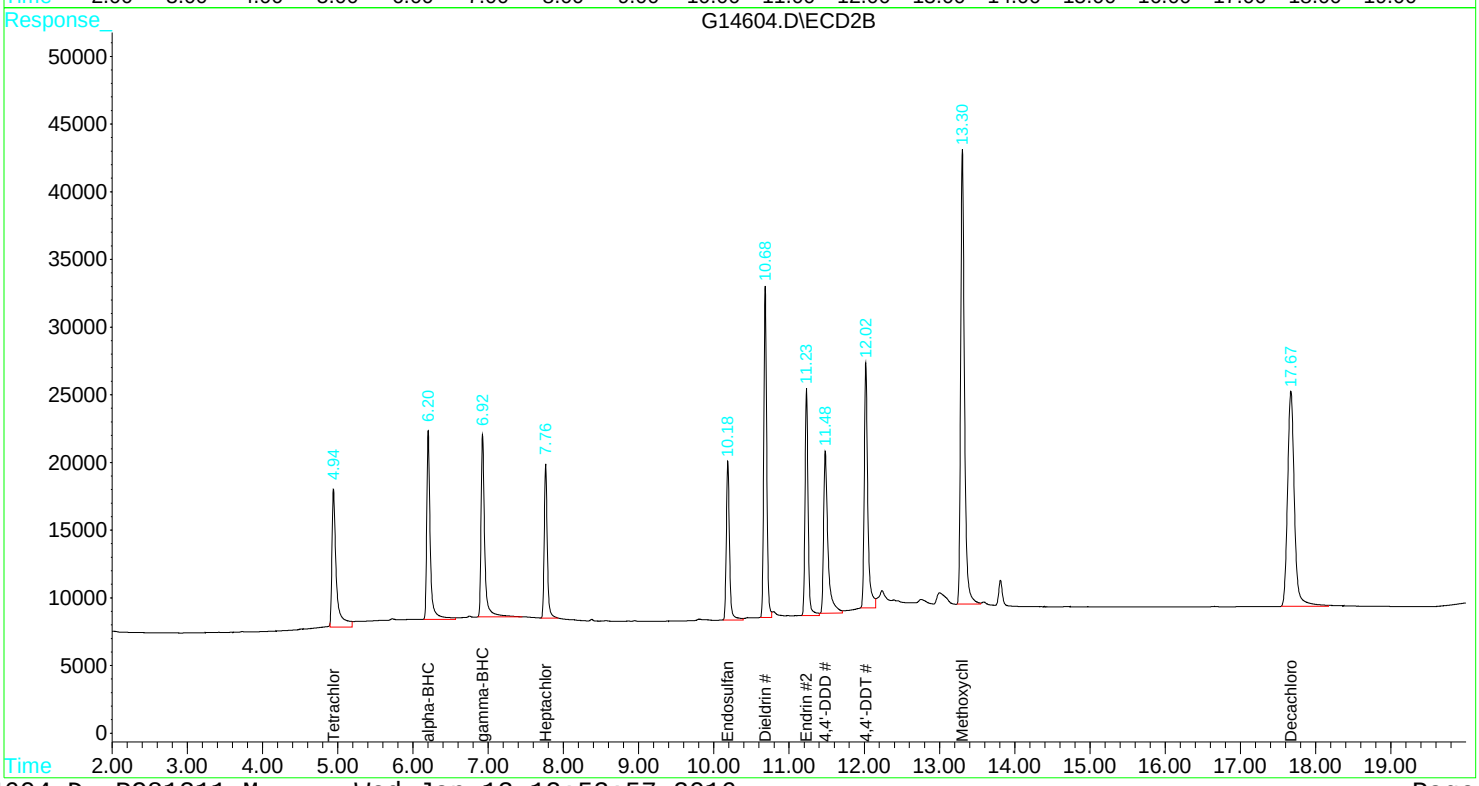
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14604.D\ECD1A.CH Vial: 5
Signal #2 : D:\G\DATA\DEC15\G1211\G14604.D\ECD2B.CH
Acq On : 11 Dec 2015 10:46 Operator: JAM
Sample : S5L1105-CAL3 Inst : GCECD_GH
Misc : MIX A 0.02 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 11 11:49 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Thu Dec 10 08:50:53 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14605.D\ECD1A.CH Vial: 6
Signal #2 : D:\G\DATA\DEC15\G1211\G14605.D\ECD2B.CH
Acq On : 11 Dec 2015 11:15 Operator: JAM
Sample : S5L1105-CAL4 Inst : GCECD_GH
Misc : MIX A 0.01 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 11 11:51 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Thu Dec 10 08:50:53 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) AS	Tetrachloro-m-xy	4.63	4.94	175670	209472	0.075	0.080m
Spiked Amount	1.000 Range 30 - 150 Recovery =					7.50%#	8.00%#
22) AS	Decachlorobiphen	16.35	17.67	545452	518592	0.150	0.160
Spiked Amount	1.000 Range 30 - 150 Recovery =					15.00%#	16.00%#
	Target Compounds						
2) A	alpha-BHC	5.35	6.20	186192	218622	0.065	0.075
3) AM	gamma-BHC (Linda	5.94	6.93	188256	224876	0.068	0.079
4) AM	Heptachlor	7.25	7.76	205092	158240	0.073	0.069m
9) A	Endosulfan I	9.32	10.18	174192	172210	0.069	0.077
13) AM	Dieldrin	9.81	10.68	350042	323562	0.136	0.144
14) AM	Endrin	10.22	11.23	281070	233756	0.138	0.137
16) A	4,4'-DDD	10.49	11.49	258106	232828	0.134	0.145
17) AM	4,4'-DDT	11.17	12.02	315842	292660	0.142	0.158
20) A	Methoxychlor	12.19	13.31	914088	576954	0.814	0.708

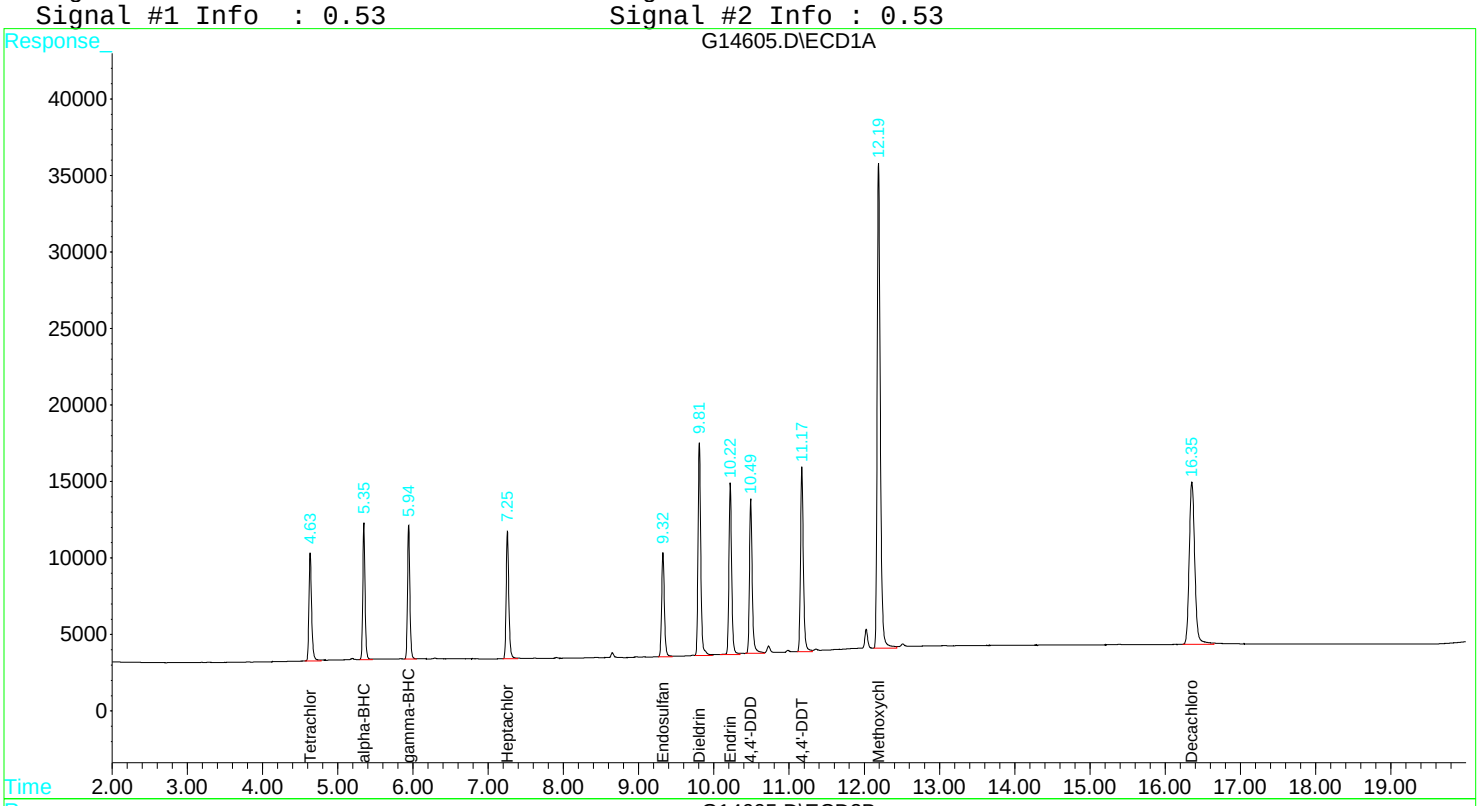
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

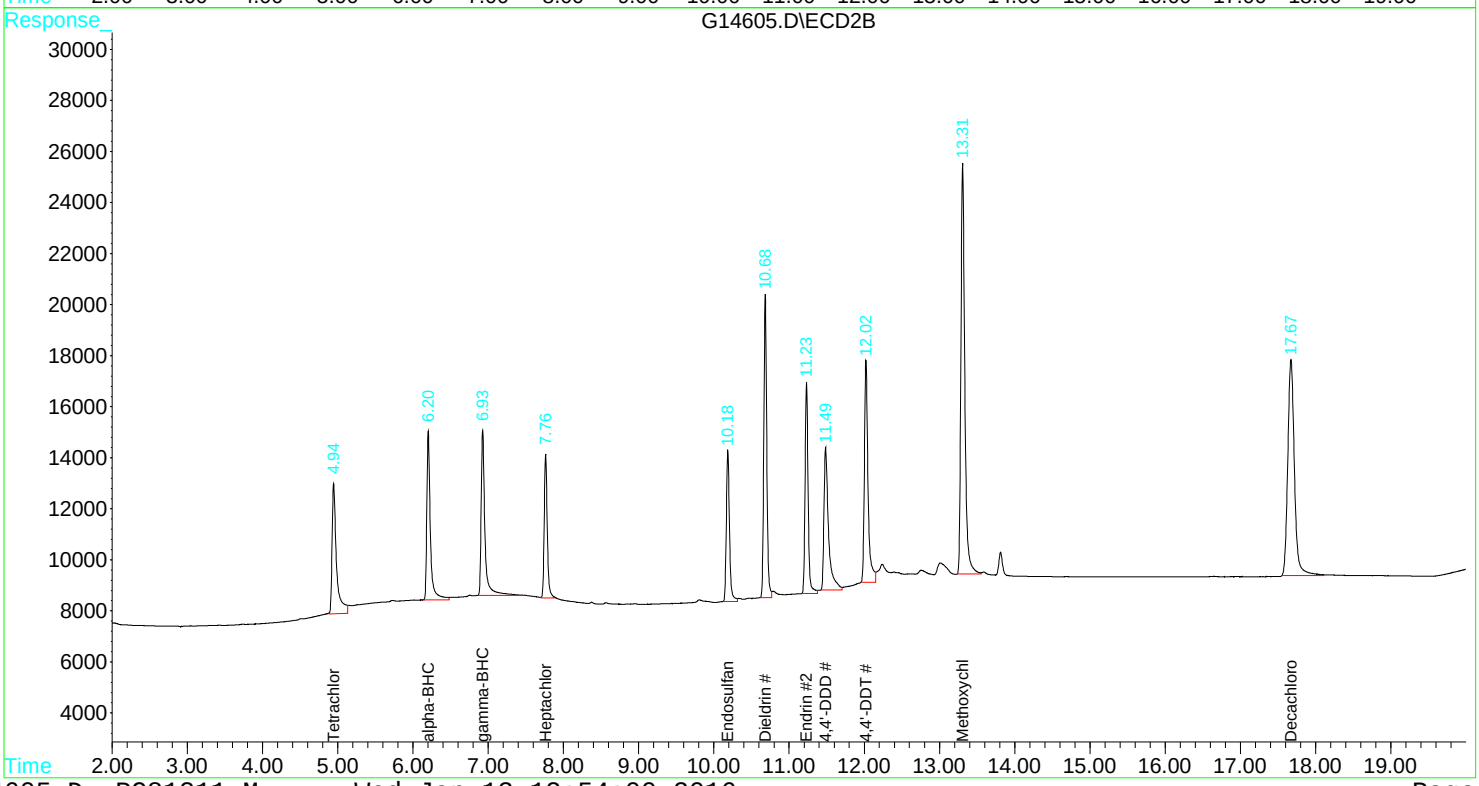
Quantitation Report (QT Reviewed)

```
Signal #1 : D:\G\DATA\DEC15\G1211\G14605.D\ECD1A.CH      Vial: 6
Signal #2 : D:\G\DATA\DEC15\G1211\G14605.D\ECD2B.CH
Acq On    : 11 Dec 2015  11:15                          Operator: JAM
Sample    : S5L1105-CAL4                                Inst    : GCECD_GH
Misc      : MIX A 0.01 PPM                              Multiplr: 1.00
IntFile Signal #1: RTEINT.P     IntFile Signal #2: RTEINT2.P
Quant Time: Dec 11 11:51 2015  Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title        : 8081 Pesticides
Last Update  : Thu Dec 10 08:50:53 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj.     : 1 ul
Signal #1 Phase : Rtx-5              Signal #2 Phase: CLP PSTII
Signal #1 Info  : 0.53               Signal #2 Info : 0.53
```





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14606.D\ECD1A.CH Vial: 7
Signal #2 : D:\G\DATA\DEC15\G1211\G14606.D\ECD2B.CH
Acq On : 11 Dec 2015 11:44 Operator: JAM
Sample : S5L1105-CAL5 Inst : GCECD_GH
Misc : MIX A 0.002 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 11 12:31 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Thu Dec 10 08:50:53 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) AS Tetrachloro-m-xy	4.63	4.95	39040	50534	0.017	0.019
Spiked Amount 1.000 Range 30 - 150 Recovery =					1.70%#	1.90%#
22) AS Decachlorobiphen	16.35	17.67	127876	122244	0.035	0.038m
Spiked Amount 1.000 Range 30 - 150 Recovery =					3.50%#	3.80%#
Target Compounds						
2) A alpha-BHC	5.35	6.20	34686	47576	0.012	0.016 #
3) AM gamma-BHC (Linda	5.94	6.93	35740	49318	0.013	0.017 #
4) AM Heptachlor	7.26	7.76	46198	33830	0.016	0.015m
9) A Endosulfan I	9.32	10.18	42866	37246	0.017	0.017m
13) AM Dieldrin	9.81	10.68	71340	71290	0.028	0.032
14) AM Endrin	10.22	11.23	61796	51152	0.030	0.030
16) A 4,4'-DDD	10.49	11.50	51682	51730	0.027	0.032
17) AM 4,4'-DDT	11.17	12.02	65760	62098	0.029	0.033
20) A Methoxychlor	12.19	13.31	209192	115676	0.186	0.142

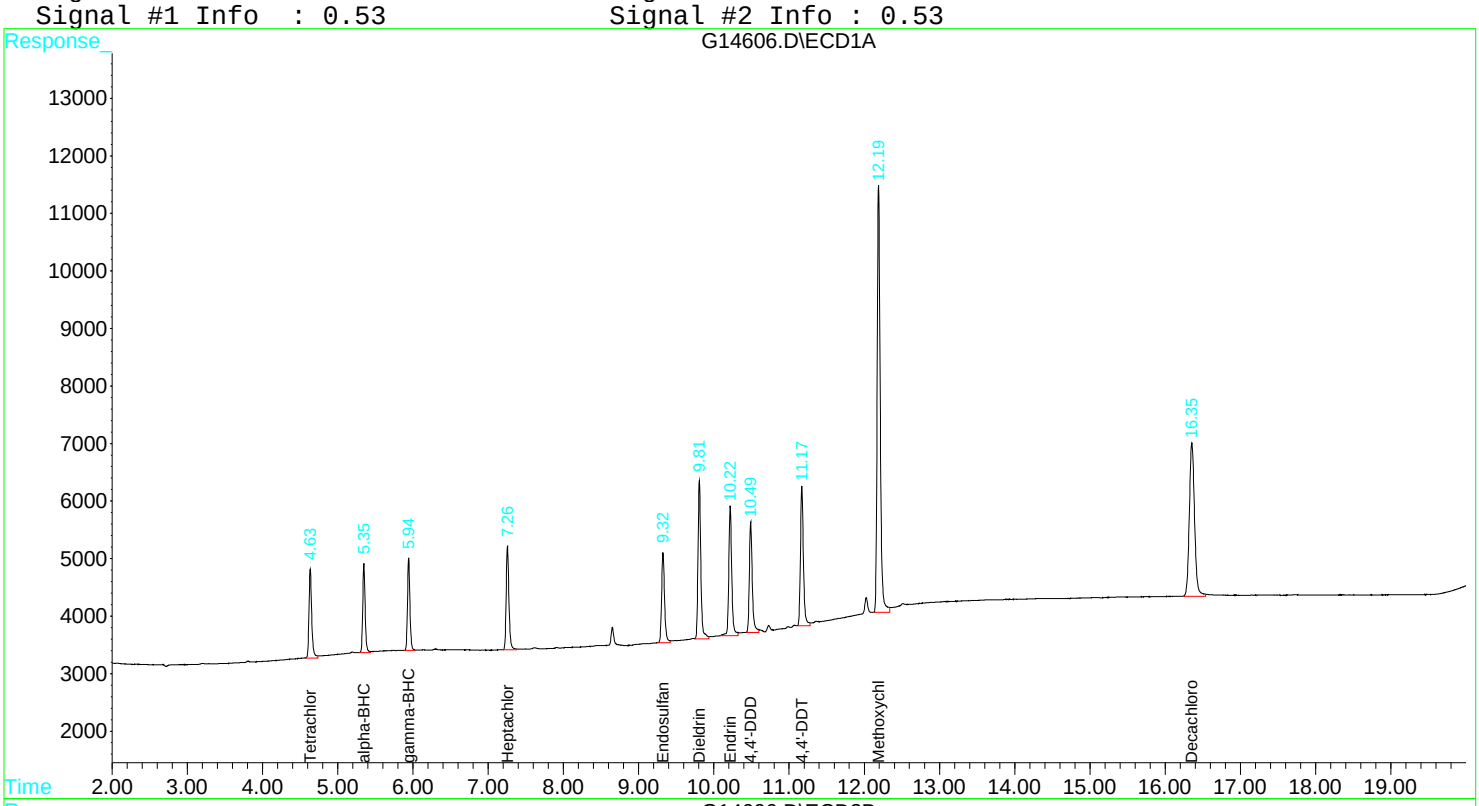
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

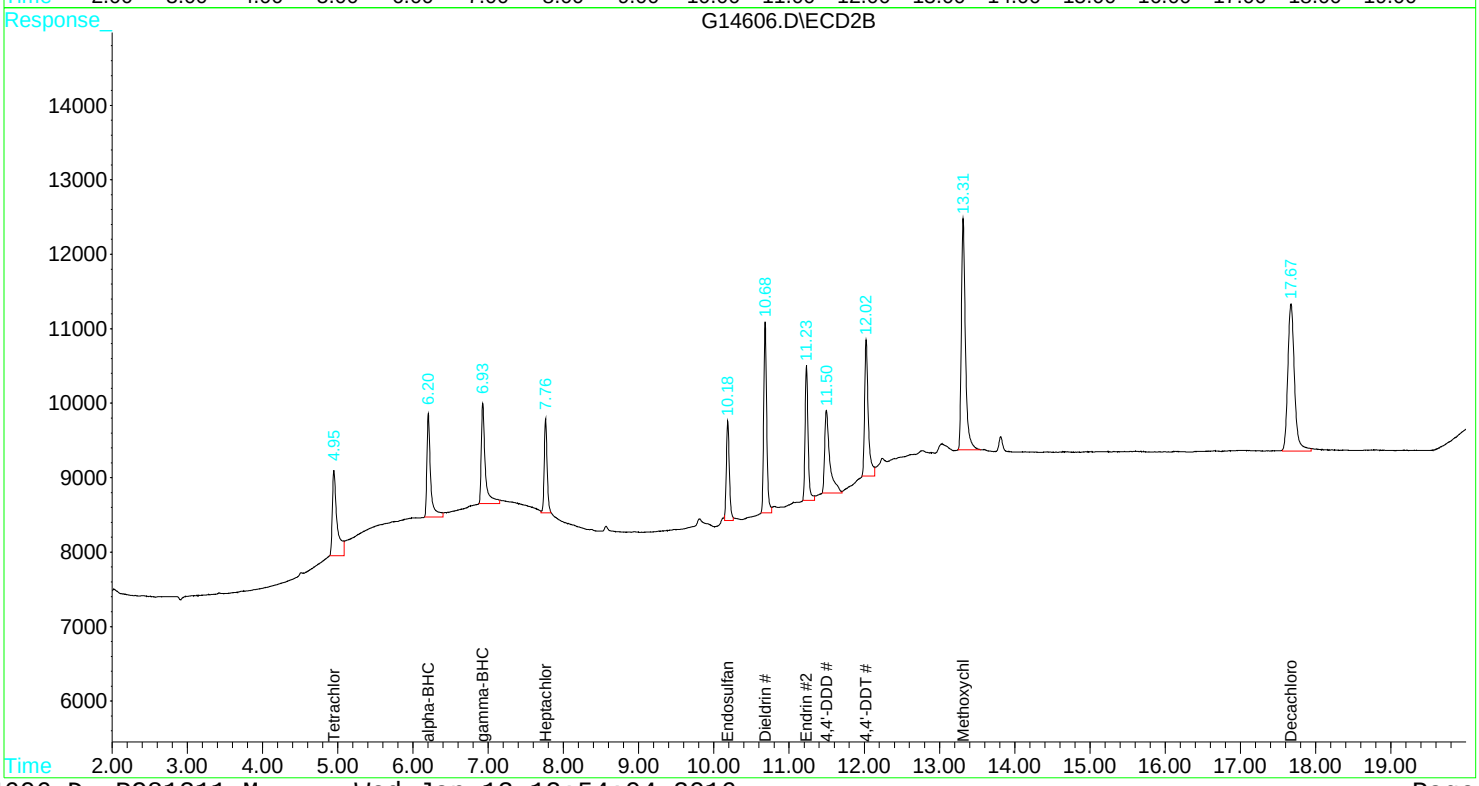
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14606.D\ECD1A.CH Vial: 7
Signal #2 : D:\G\DATA\DEC15\G1211\G14606.D\ECD2B.CH
Acq On : 11 Dec 2015 11:44 Operator: JAM
Sample : S5L1105-CAL5 Inst : GCECD_GH
Misc : MIX A 0.002 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 11 12:31 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Thu Dec 10 08:50:53 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14607.D\ECD1A.CH Vial: 8
Signal #2 : D:\G\DATA\DEC15\G1211\G14607.D\ECD2B.CH
Acq On : 11 Dec 2015 15:59 Operator: JAM
Sample : S5L1105-CAL6 Inst : GCECD_GH
Misc : MIX B 0.08 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:21 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Fri Dec 11 15:23:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

System Monitoring Compounds

Target Compounds

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
5)	BM	Aldrin	7.93	8.39	1706566	1635876	0.904	0.868
6)	B	beta-BHC	5.85	7.13	877226	950754	0.798	0.840m
7)	B	delta-BHC	6.39	7.71	1750226	1713954	0.985	0.982m
8)	B	Heptachlor Epoxi	8.67	9.48	1552688	1454102	0.796	0.976
10)	B	gamma-Chlordane	9.10	9.83	1622660	1507460	0.857	0.785
11)	B	alpha-Chlordane	9.38	10.09	1608884	1492224	0.847	0.833
12)	B	4,4'-DDE	9.74	10.43	3033738	2923874	1.745	1.719
15)	B	Endosulfan II	10.40	11.63	2663500	2484402	1.666	1.707
18)	B	Endrin Aldehyde	10.74	12.24	2190596	2234254	1.362	1.242
19)	B	Endosulfan Sulfa	11.17	12.73	2642584	2265124	1.709	1.723
21)	B	Endrin Ketone	12.04	13.82	3057164	2871142	1.643	1.694

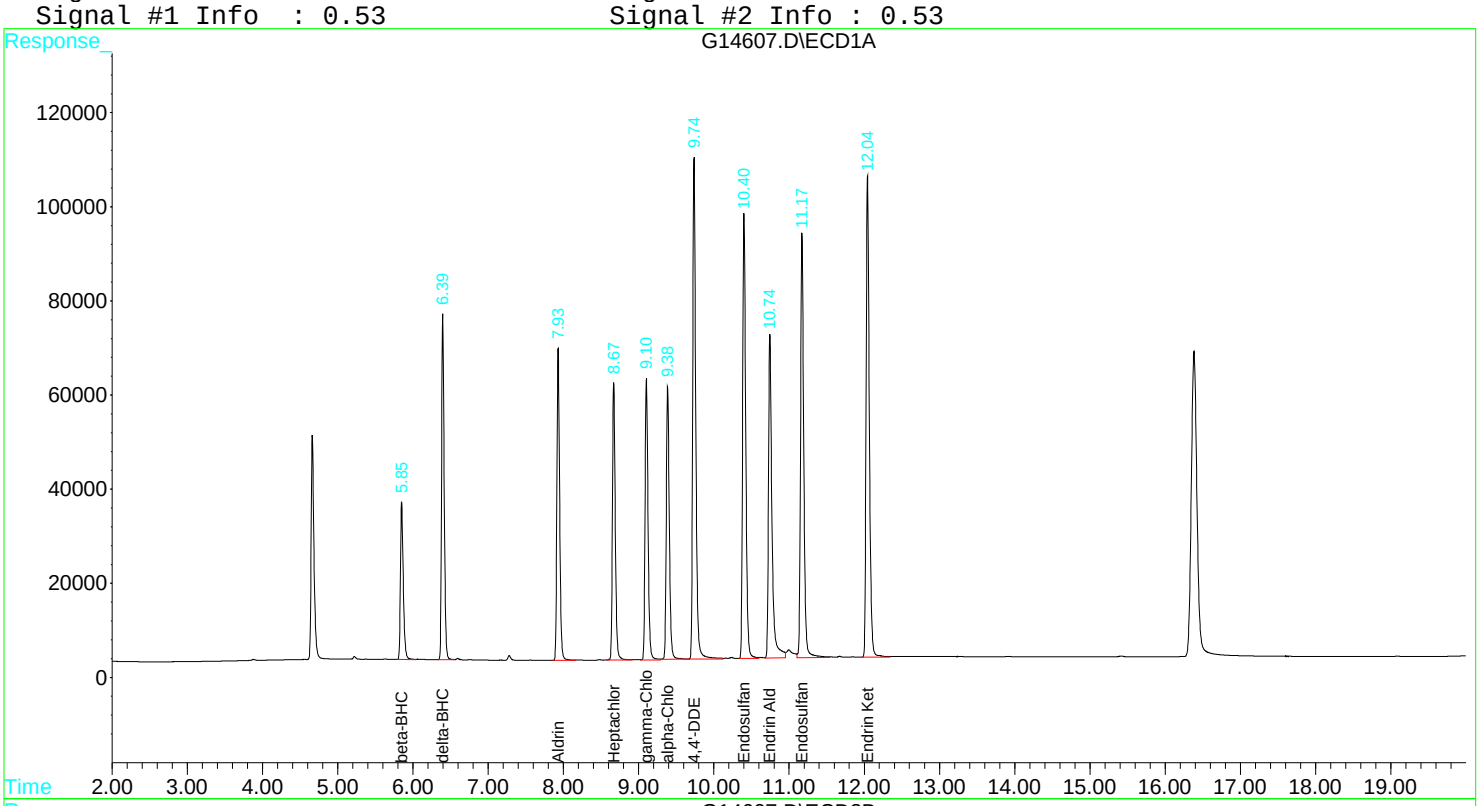
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

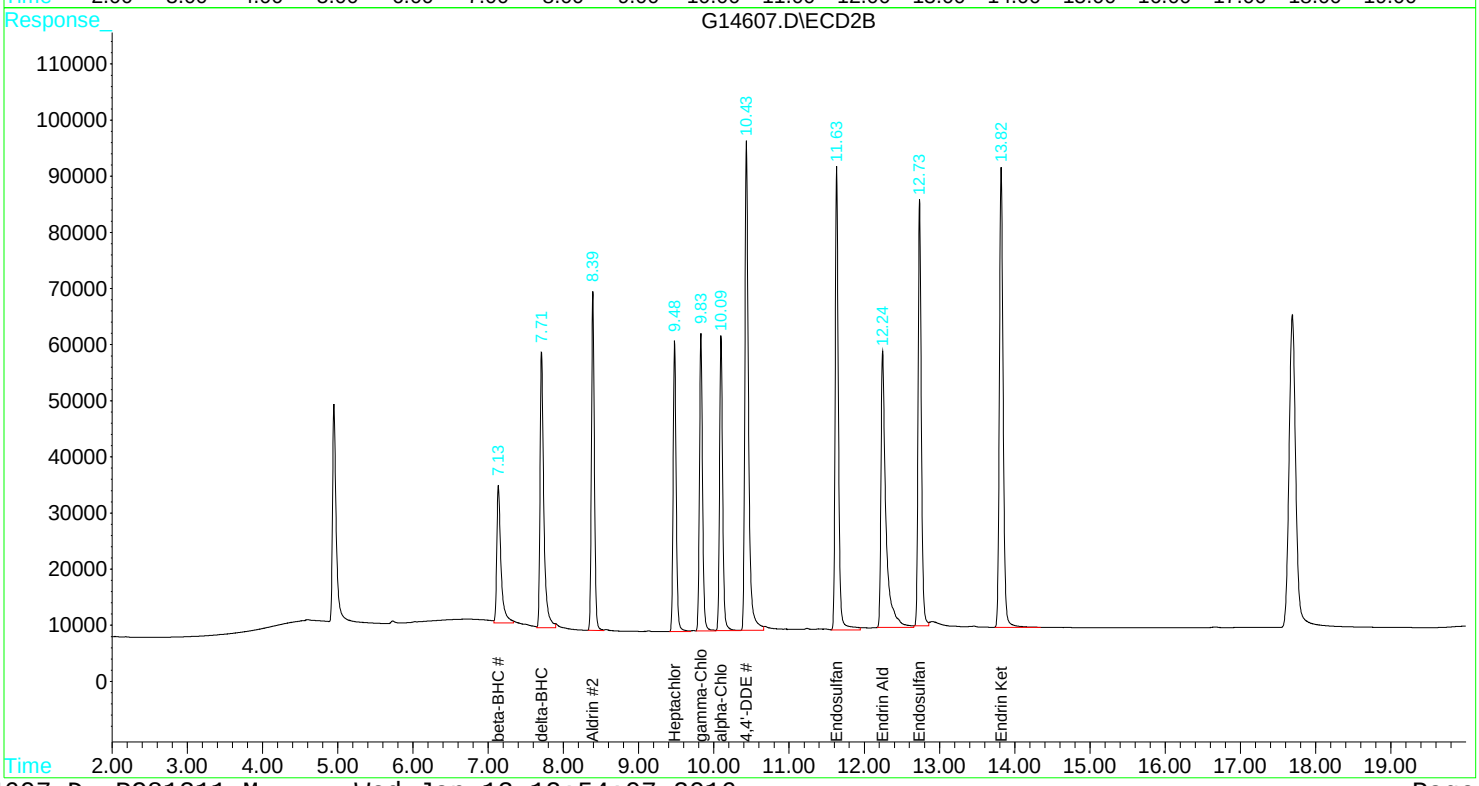
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14607.D\ECD1A.CH Vial: 8
Signal #2 : D:\G\DATA\DEC15\G1211\G14607.D\ECD2B.CH
Acq On : 11 Dec 2015 15:59 Operator: JAM
Sample : S5L1105-CAL6 Inst : GCECD_GH
Misc : MIX B 0.08 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:21 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Fri Dec 11 15:23:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14608.D\ECD1A.CH Vial: 9
Signal #2 : D:\G\DATA\DEC15\G1211\G14608.D\ECD2B.CH
Acq On : 11 Dec 2015 16:28 Operator: JAM
Sample : S5L1105-CAL7 Inst : GCECD_GH
Misc : MIX B 0.04 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:22 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Fri Dec 11 15:23:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
		Target Compounds						
5)	BM	Aldrin	7.91	8.39	816308	796014	0.432	0.422
6)	B	beta-BHC	5.83	7.14	451128	478262	0.410	0.423
7)	B	delta-BHC	6.37	7.71	827690	777080	0.466	0.445m
8)	B	Heptachlor Epoxi	8.65	9.47	764336	724748	0.392	0.487
10)	B	gamma-Chlordane	9.09	9.82	790728	749522	0.418	0.390
11)	B	alpha-Chlordane	9.37	10.09	788492	747764	0.415	0.418
12)	B	4,4'-DDE	9.72	10.43	1491626	1412570	0.858	0.831
15)	B	Endosulfan II	10.39	11.63	1342046	1232238	0.840	0.847
18)	B	Endrin Aldehyde	10.73	12.24	1119336	1155404	0.696	0.642
19)	B	Endosulfan Sulfa	11.16	12.73	1305062	1112112	0.844	0.846
21)	B	Endrin Ketone	12.03	13.81	1548652	1435884	0.832	0.847

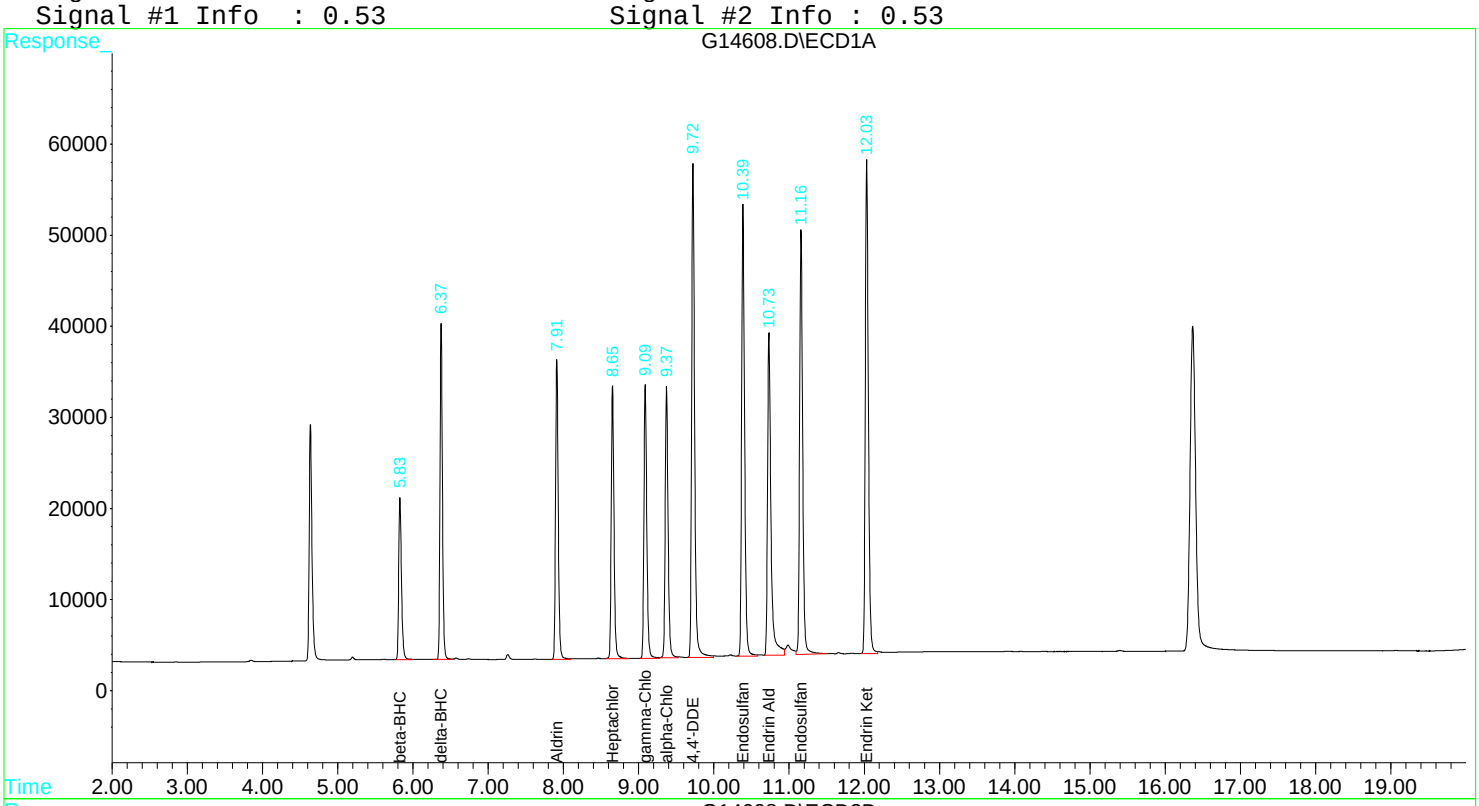
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

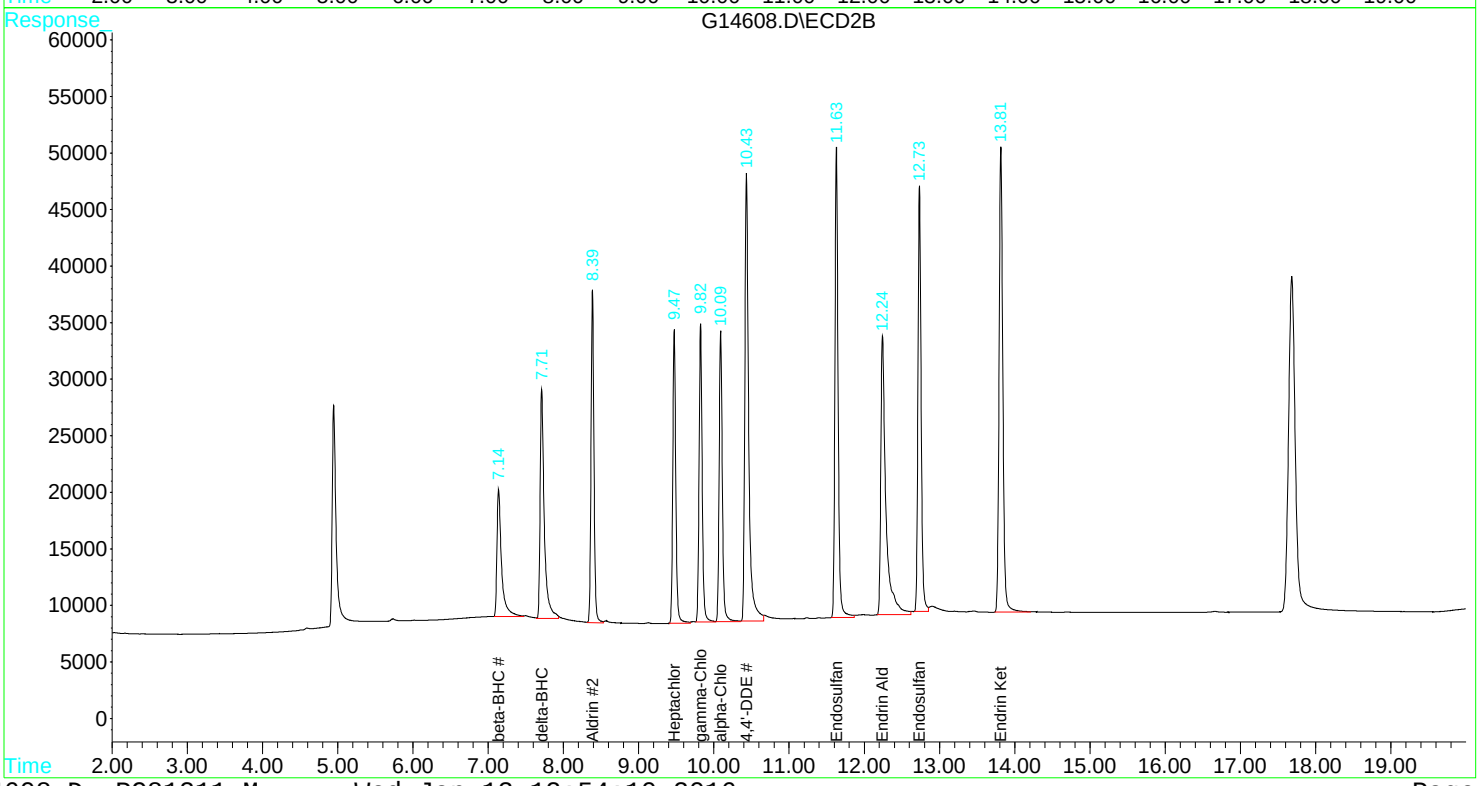
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14608.D\ECD1A.CH Vial: 9
Signal #2 : D:\G\DATA\DEC15\G1211\G14608.D\ECD2B.CH
Acq On : 11 Dec 2015 16:28 Operator: JAM
Sample : S5L1105-CAL7 Inst : GCECD_GH
Misc : MIX B 0.04 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:22 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Fri Dec 11 15:23:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14609.D\ECD1A.CH Vial: 10
Signal #2 : D:\G\DATA\DEC15\G1211\G14609.D\ECD2B.CH
Acq On : 11 Dec 2015 16:57 Operator: JAM
Sample : S5L1105-CAL8 Inst : GCECD_GH
Misc : MIX B 0.02 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:23 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Fri Dec 11 15:23:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
		Target Compounds						
5)	BM	Aldrin	7.91	8.38	372250	378742	0.197	0.201
6)	B	beta-BHC	5.83	7.14	220398	238136	0.201	0.210
7)	B	delta-BHC	6.37	7.72	362742	365304	0.204	0.209m
8)	B	Heptachlor Epoxi	8.65	9.47	363502	351154	0.186	0.236 #
10)	B	gamma-Chlordane	9.09	9.82	373142	366172	0.197	0.191
11)	B	alpha-Chlordane	9.37	10.09	374108	365326	0.197	0.204
12)	B	4,4'-DDE	9.72	10.44	701272	675394	0.403	0.397
15)	B	Endosulfan II	10.39	11.63	643468	591354	0.403	0.406
18)	B	Endrin Aldehyde	10.73	12.24	558582	586534	0.347	0.326
19)	B	Endosulfan Sulfa	11.16	12.73	619172	535976	0.400	0.408
21)	B	Endrin Ketone	12.03	13.82	752042	695268	0.404	0.410

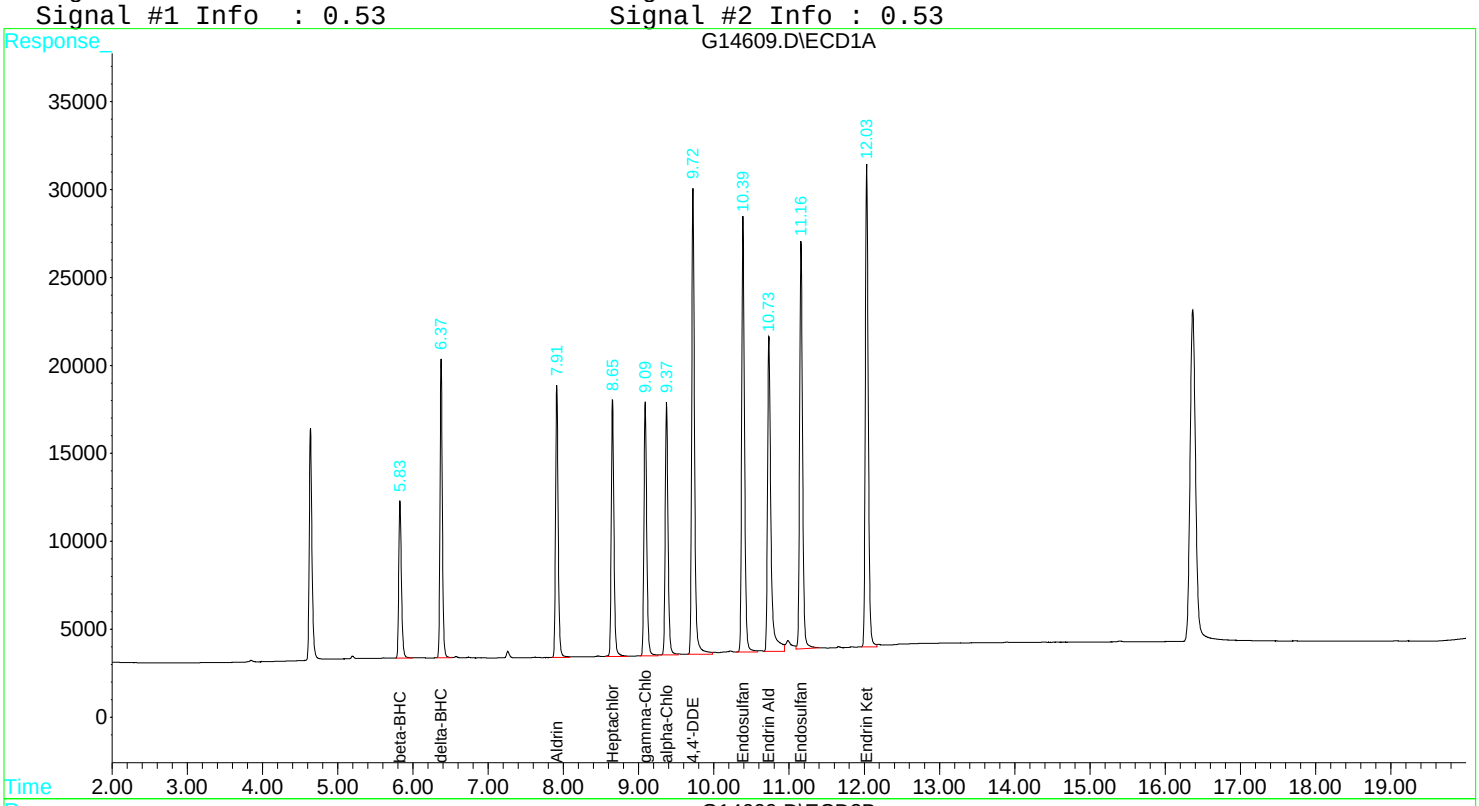
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

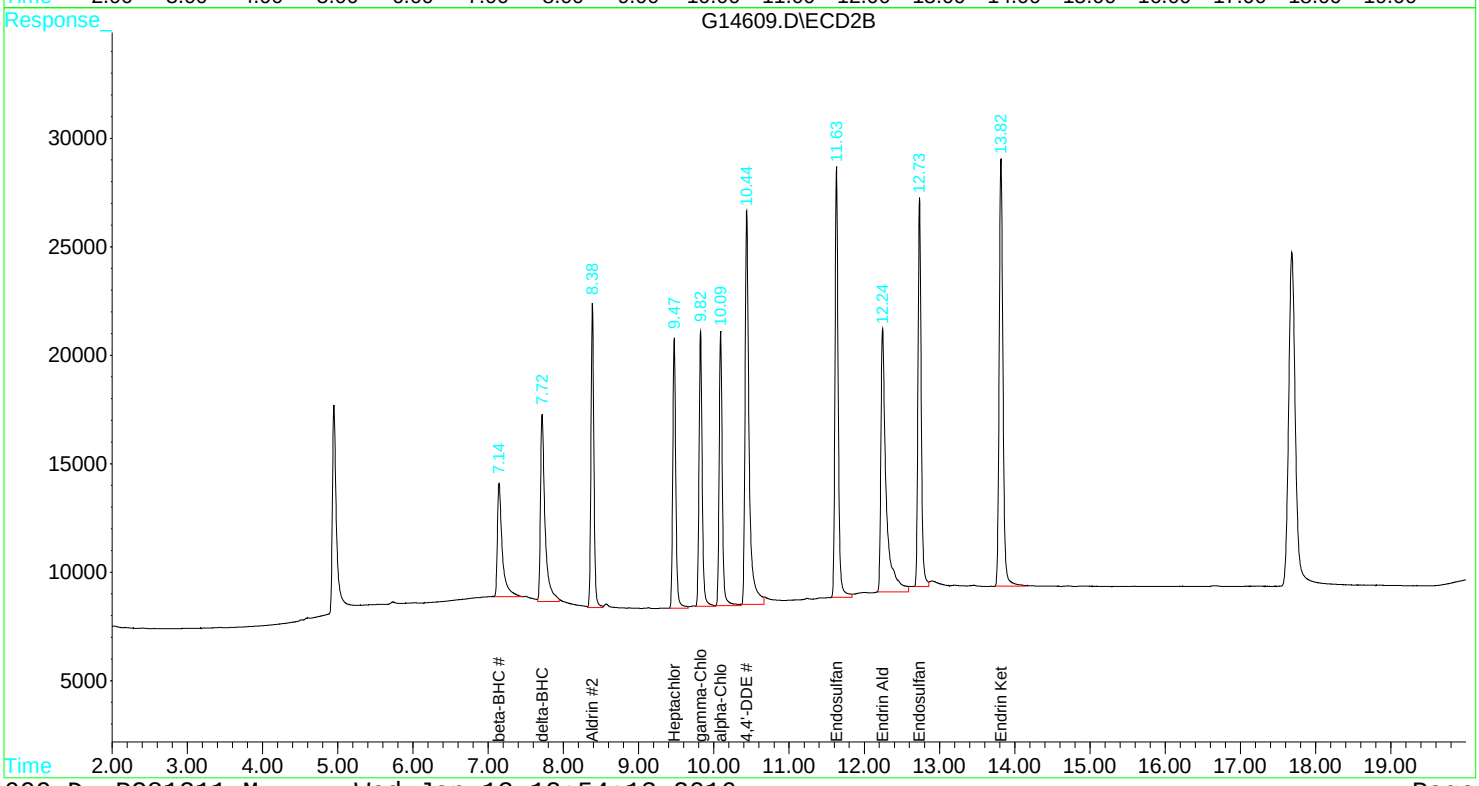
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14609.D\ECD1A.CH Vial: 10
Signal #2 : D:\G\DATA\DEC15\G1211\G14609.D\ECD2B.CH
Acq On : 11 Dec 2015 16:57 Operator: JAM
Sample : S5L1105-CAL8 Inst : GCECD_GH
Misc : MIX B 0.02 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:23 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Fri Dec 11 15:23:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14610.D\ECD1A.CH Vial: 11
Signal #2 : D:\G\DATA\DEC15\G1211\G14610.D\ECD2B.CH
Acq On : 11 Dec 2015 17:26 Operator: JAM
Sample : S5L1105-CAL9 Inst : GCECD_GH
Misc : MIX B 0.01 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:25 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Fri Dec 11 15:23:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

System Monitoring Compounds

Target Compounds

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
5)	BM	Aldrin	7.91	8.38	180440	193740	0.096	0.103
6)	B	beta-BHC	5.83	7.15	110820	125978	0.101	0.111
7)	B	delta-BHC	6.37	7.72	163048	171522	0.092	0.098m
8)	B	Heptachlor Epoxi	8.65	9.47	186984	181536	0.096	0.122 #
10)	B	gamma-Chlordane	9.09	9.82	187578	191080	0.099	0.100
11)	B	alpha-Chlordane	9.37	10.09	188904	189038	0.099	0.106
12)	B	4,4'-DDE	9.72	10.44	342770	342604	0.197	0.201
15)	B	Endosulfan II	10.39	11.63	320310	296168	0.200	0.204
18)	B	Endrin Aldehyde	10.73	12.24	289836	309266	0.180	0.172
19)	B	Endosulfan Sulfa	11.16	12.73	301084	269130	0.195	0.205
21)	B	Endrin Ketone	12.03	13.82	375996	347100	0.202	0.205

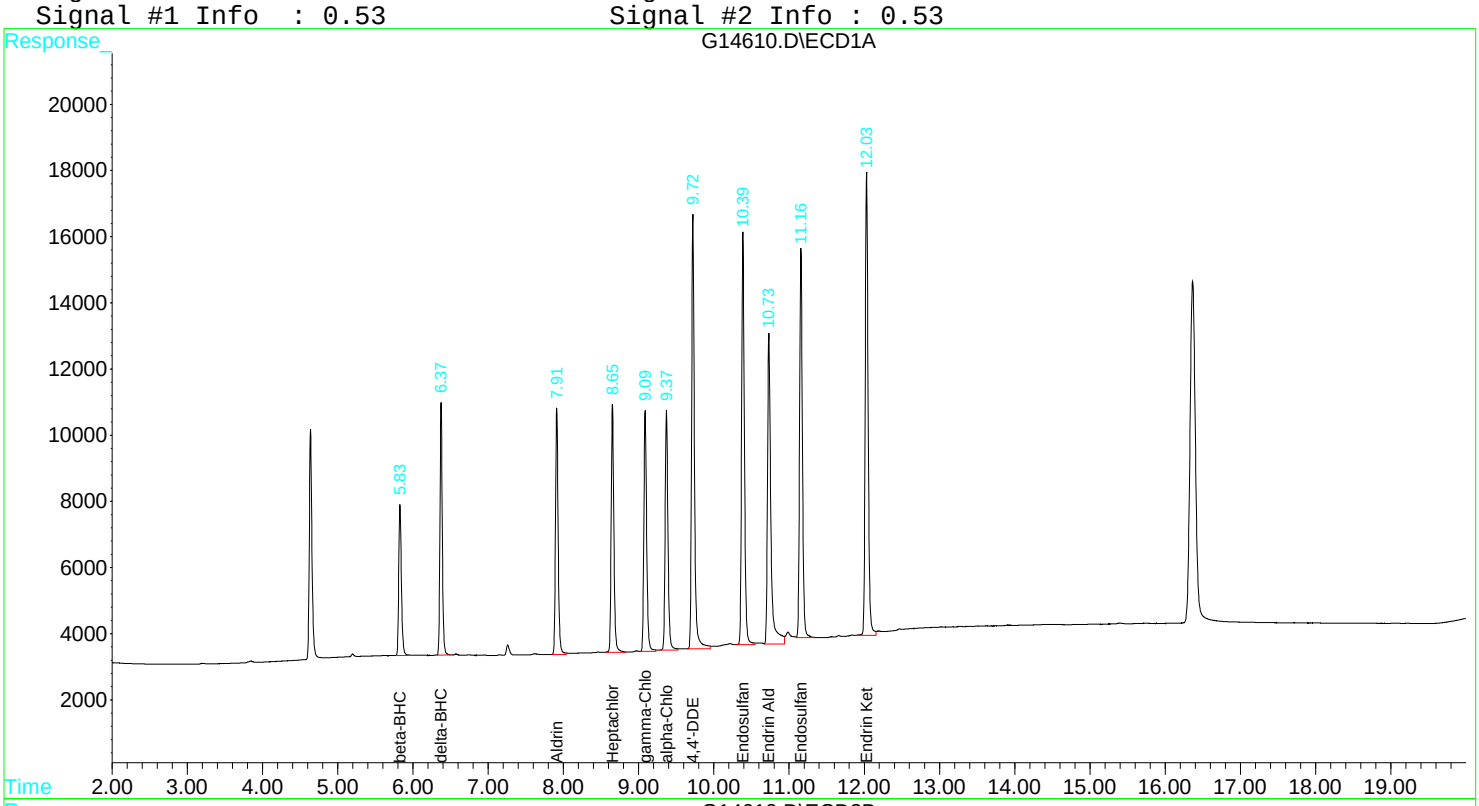
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

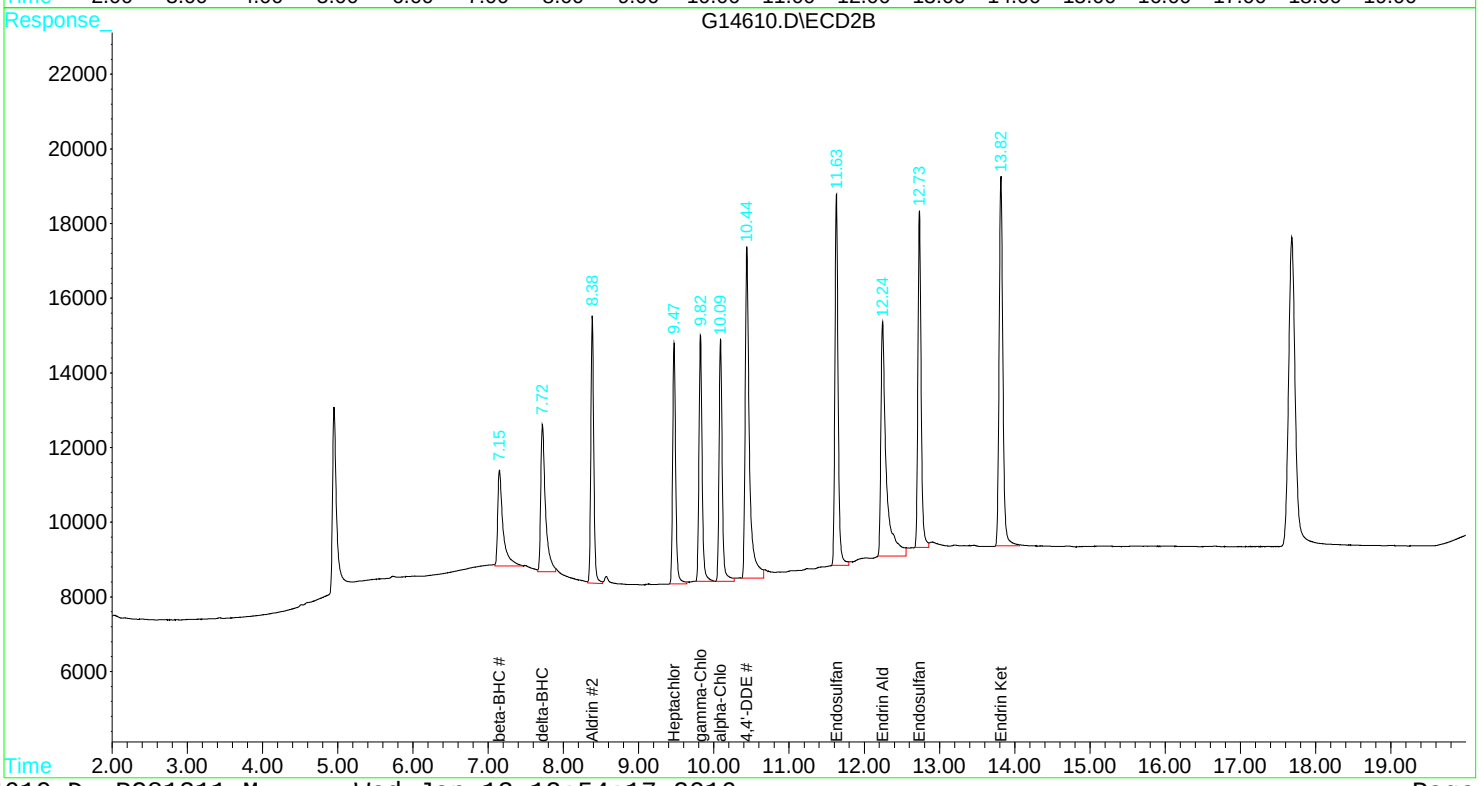
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14610.D\ECD1A.CH Vial: 11
Signal #2 : D:\G\DATA\DEC15\G1211\G14610.D\ECD2B.CH
Acq On : 11 Dec 2015 17:26 Operator: JAM
Sample : S5L1105-CAL9 Inst : GCECD_GH
Misc : MIX B 0.01 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:25 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Fri Dec 11 15:23:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14611.D\ECD1A.CH Vial: 12
Signal #2 : D:\G\DATA\DEC15\G1211\G14611.D\ECD2B.CH
Acq On : 11 Dec 2015 17:56 Operator: JAM
Sample : S5L1105-CALA Inst : GCECD_GH
Misc : MIX B 0.002 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:26 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Fri Dec 11 15:23:58 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

System Monitoring Compounds

Target Compounds

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
5)	BM	Aldrin	7.91	8.38	35380	40814	0.019	0.022
6)	B	beta-BHC	5.83	7.16	22250	22538	0.020	0.020m
7)	B	delta-BHC	6.37	7.73	29140	30056	0.016	0.017m
8)	B	Heptachlor Epoxi	8.65	9.47	44740	38246	0.023	0.026
10)	B	gamma-Chlordane	9.09	9.82	38498	46760	0.020	0.024
11)	B	alpha-Chlordane	9.37	10.09	38906	40088	0.020	0.022
12)	B	4,4'-DDE	9.72	10.44	66536	73092	0.038	0.043
15)	B	Endosulfan II	10.39	11.63	64826	59524	0.041	0.041
18)	B	Endrin Aldehyde	10.73	12.24	62694	66812	0.039	0.037
19)	B	Endosulfan Sulfa	11.16	12.73	61468	55916	0.040	0.043
21)	B	Endrin Ketone	12.03	13.82	73448	67888	0.039m	0.040

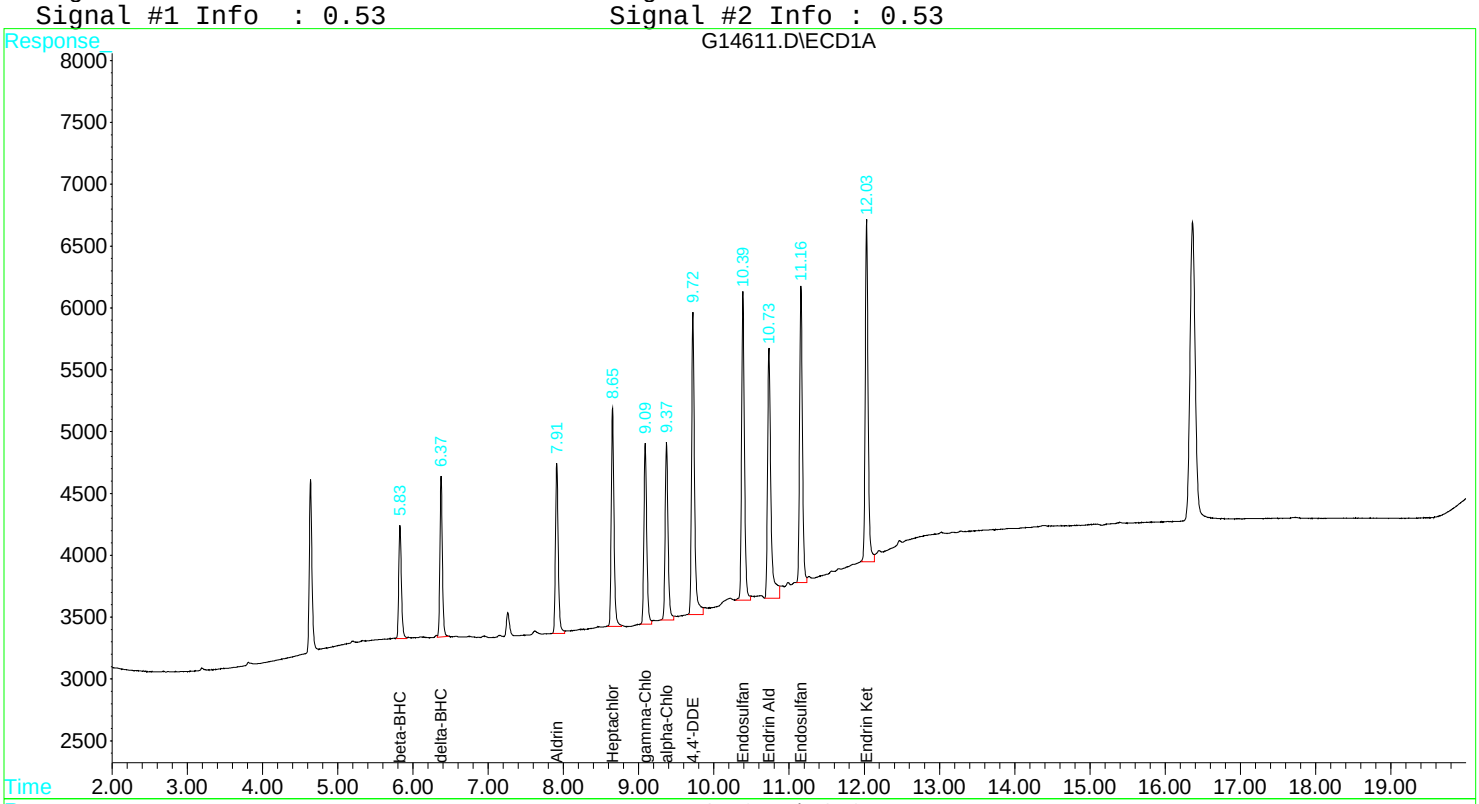
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

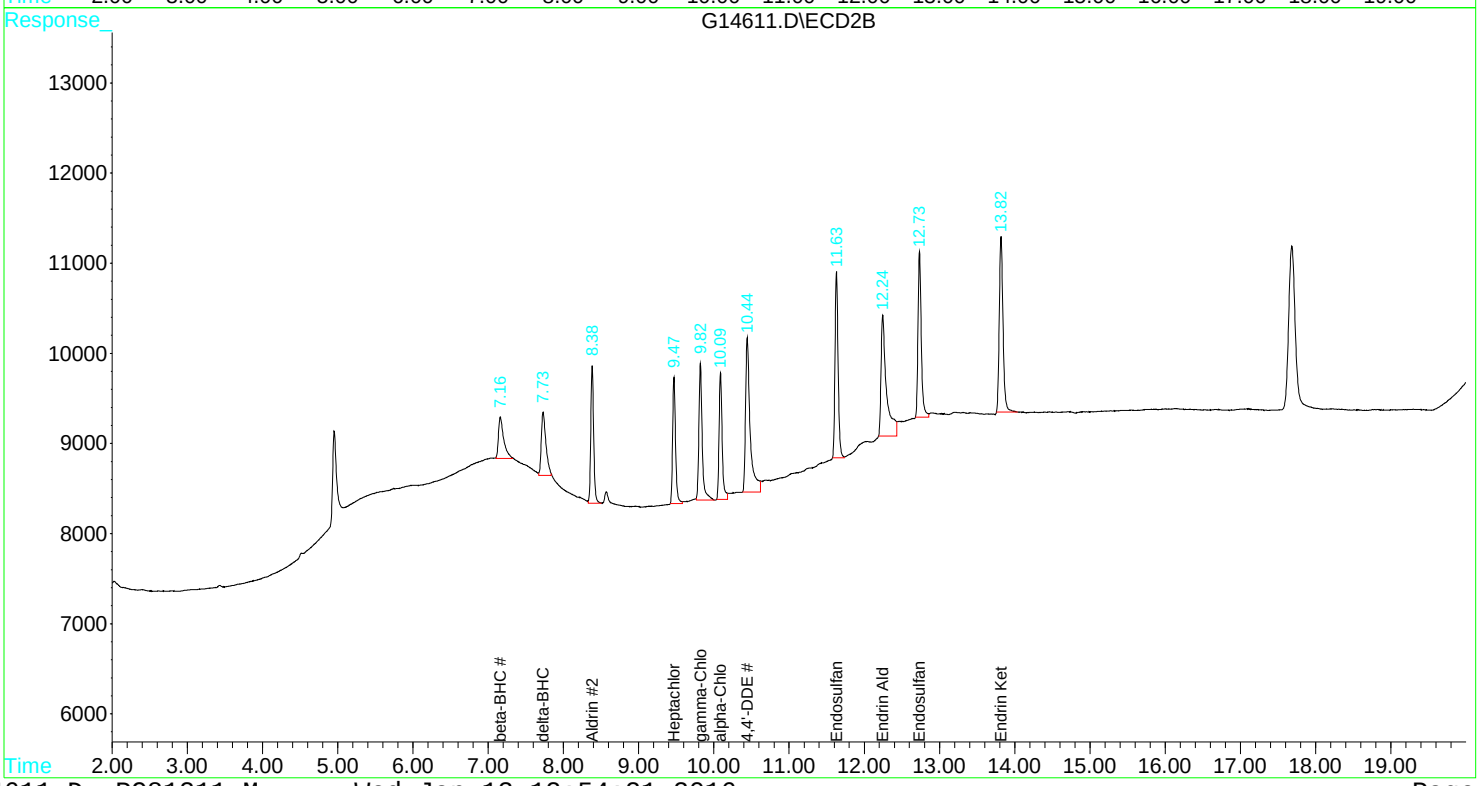
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14611.D\ECD1A.CH Vial: 12
Signal #2 : D:\G\DATA\DEC15\G1211\G14611.D\ECD2B.CH
Acq On : 11 Dec 2015 17:56 Operator: JAM
Sample : S5L1105-CALA Inst : GCECD_GH
Misc : MIX B 0.002 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:26 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Fri Dec 11 15:23:58 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14612.D\ECD1A.CH Vial: 13
Signal #2 : D:\G\DATA\DEC15\G1211\G14612.D\ECD2B.CH
Acq On : 11 Dec 2015 18:25 Operator: JAM
Sample : S5L1105-CALB Inst : GCECD_GH
Misc : TOXAPHENE 10.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:31 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:29:10 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
	Target Compounds						
23)	Toxaphene {1}	9.73	10.66	1782562	2102560	51.062m	78.917m#
24)	Toxaphene {2}	10.62	11.77	1779252	5501332	35.684m	69.541m#
25)	Toxaphene {3}	11.96	12.24	2333322	2500096	31.727m	56.240m#
26)	Toxaphene {4}	12.43	13.18	697890	3078300	30.045m	70.766m#

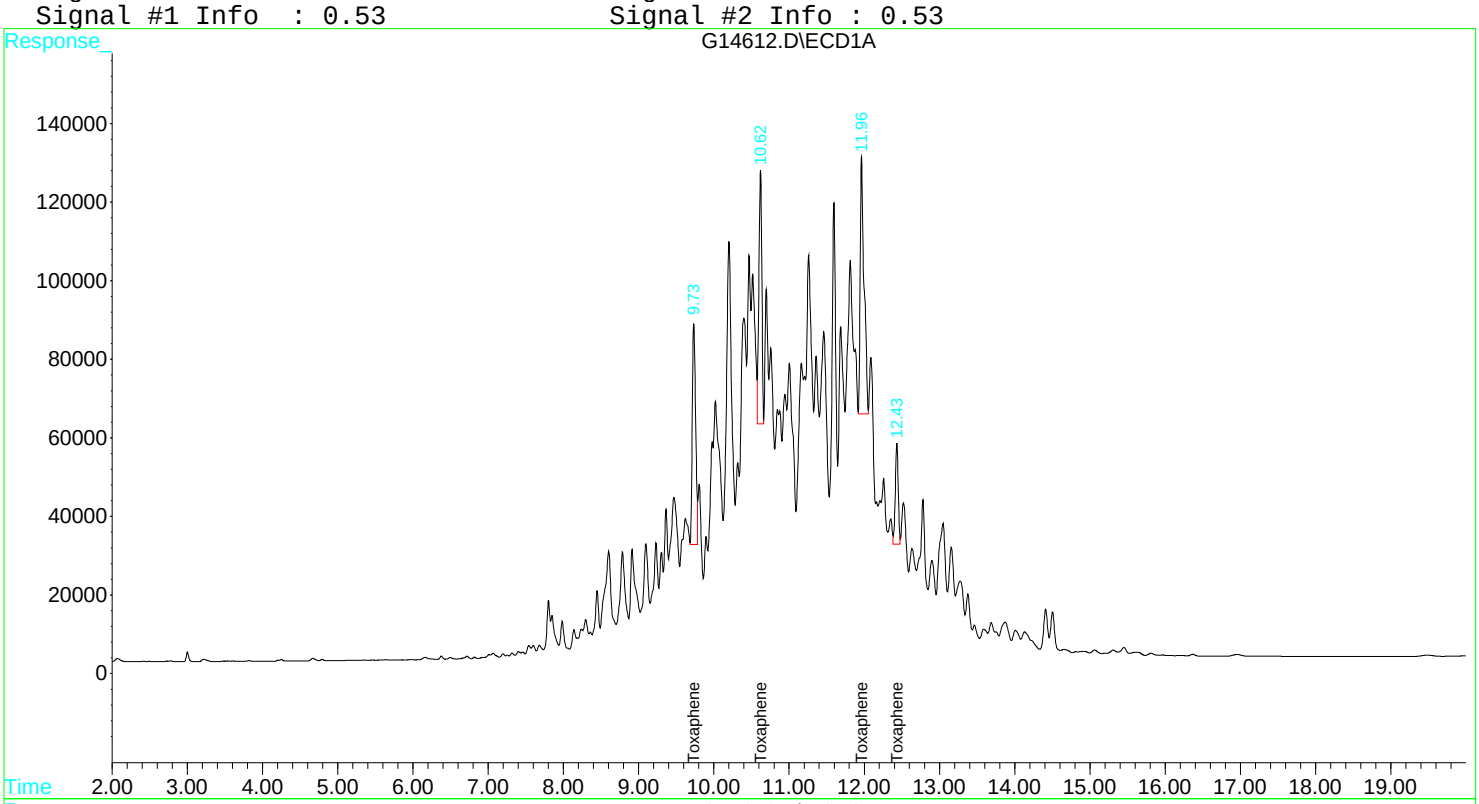
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

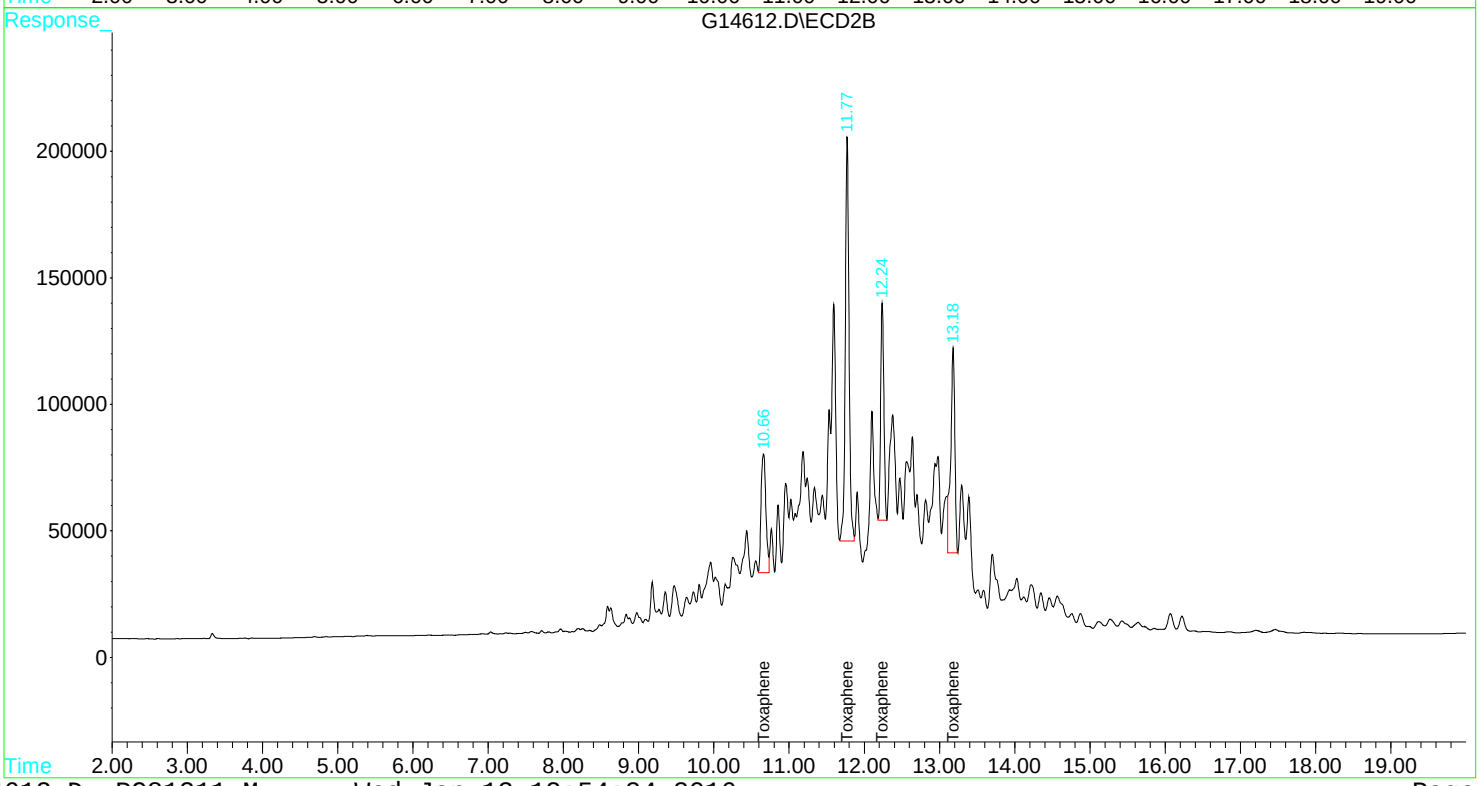
Quantitation Report (QT Reviewed)

```
Signal #1 : D:\G\DATA\DEC15\G1211\G14612.D\ECD1A.CH      Vial: 13
Signal #2 : D:\G\DATA\DEC15\G1211\G14612.D\ECD2B.CH
Acq On    : 11 Dec 2015  18:25                        Operator: JAM
Sample    : S5L1105-CALB                              Inst    : GCECD_GH
Misc      : TOXAPHENE 10.0 PPM                        Multiplr: 1.00
IntFile Signal #1: RTEINT.P     IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14  9:31 2015  Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title        : 8081 Pesticides
Last Update  : Mon Dec 14 09:29:10 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj.     : 1 ul
Signal #1 Phase : Rtx-5              Signal #2 Phase: CLP PSTII
Signal #1 Info  : 0.53               Signal #2 Info : 0.53
```





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14613.D\ECD1A.CH Vial: 14
Signal #2 : D:\G\DATA\DEC15\G1211\G14613.D\ECD2B.CH
Acq On : 11 Dec 2015 18:54 Operator: JAM
Sample : S5L1105-CALC Inst : GCECD_GH
Misc : TOXAPHENE 5.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:33 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:29:10 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
	Target Compounds						
23)	Toxaphene {1}	9.73	10.66	1035416	1150660	29.660	43.189m#
24)	Toxaphene {2}	10.62	11.77	1088278	3098982	21.826m	39.173m#
25)	Toxaphene {3}	11.96	12.24	1353884	1470612	18.409m	33.082m#
26)	Toxaphene {4}	12.43	13.18	366030	1793336	15.758m	41.226m#

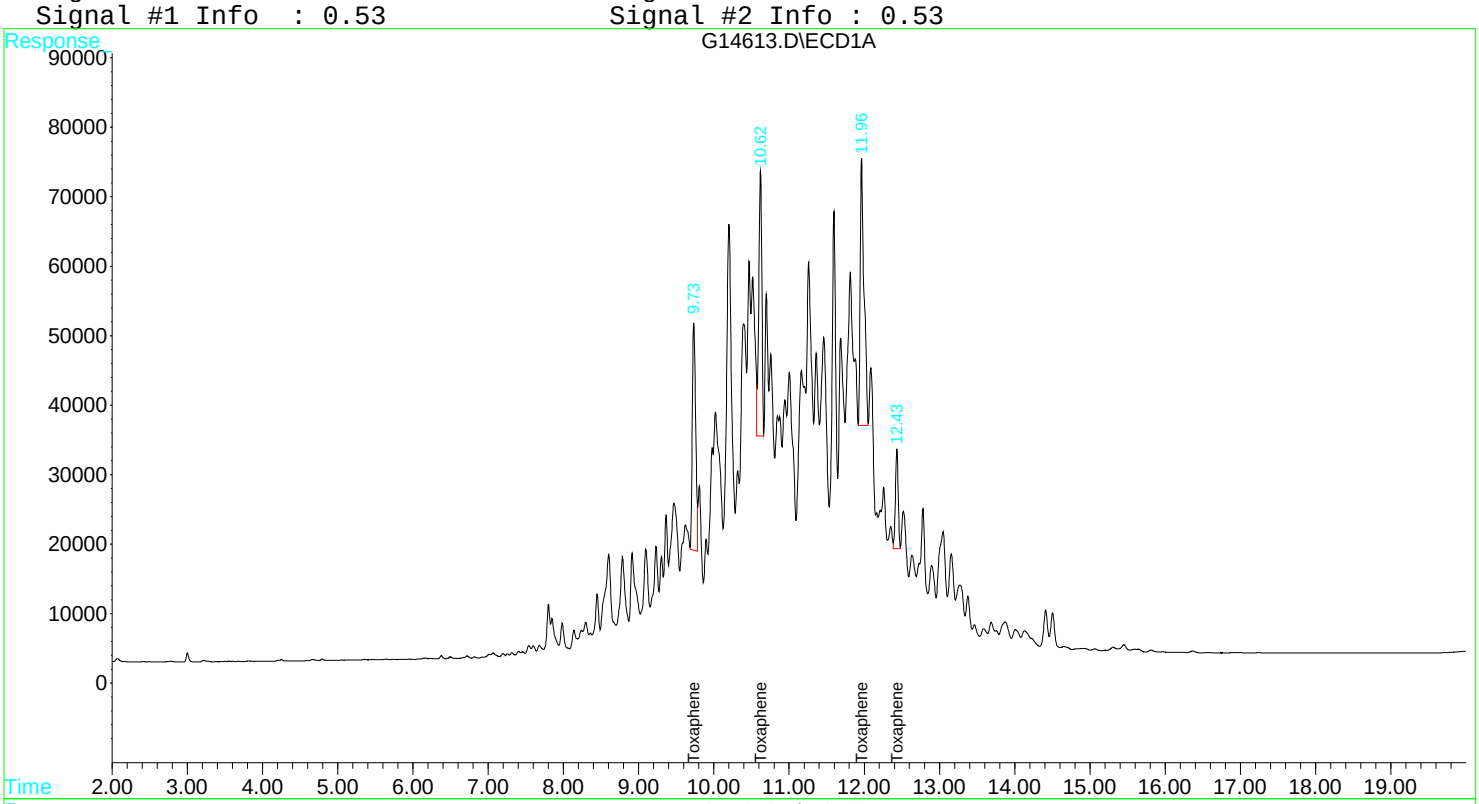
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

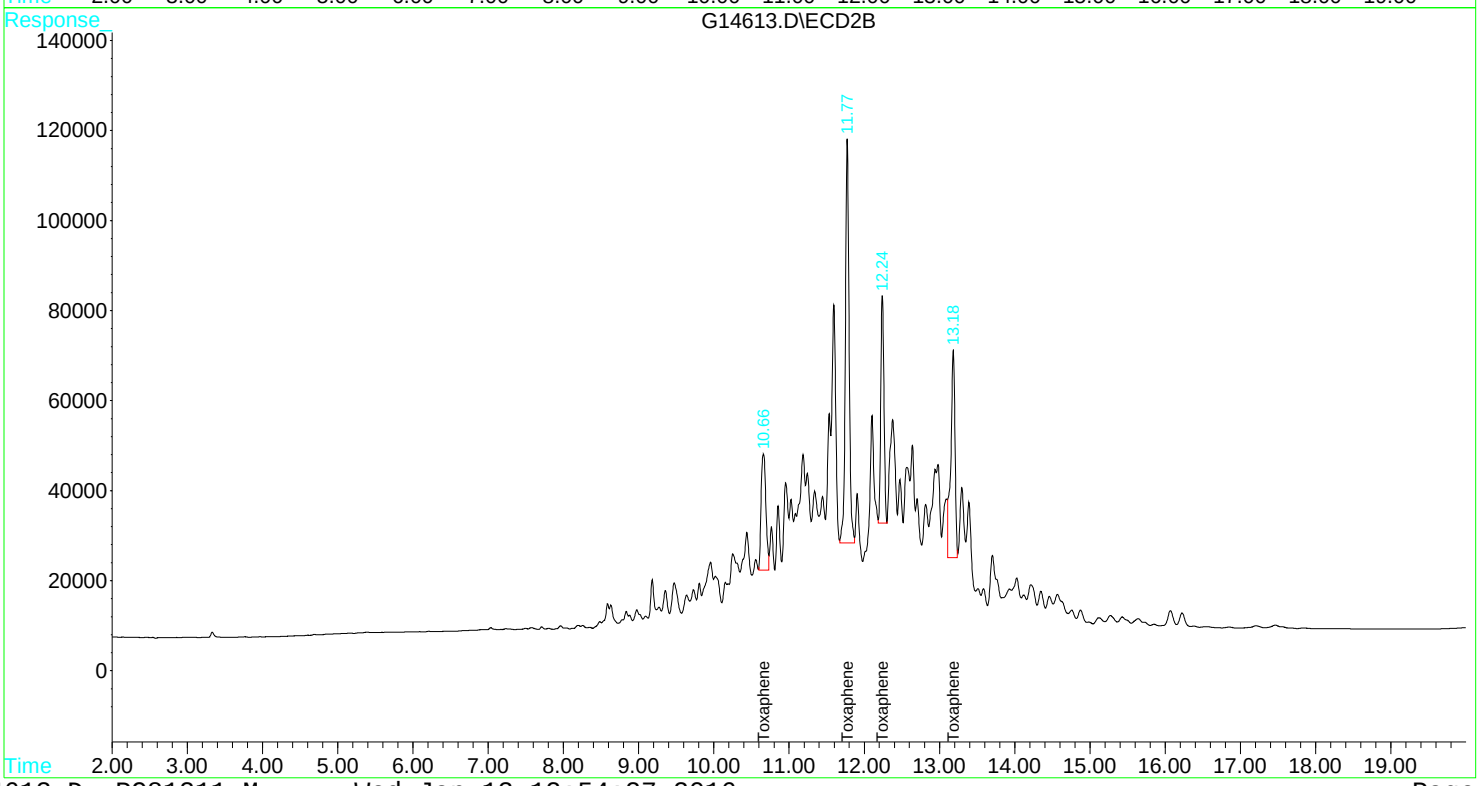
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14613.D\ECD1A.CH Vial: 14
Signal #2 : D:\G\DATA\DEC15\G1211\G14613.D\ECD2B.CH
Acq On : 11 Dec 2015 18:54 Operator: JAM
Sample : S5L1105-CALC Inst : GCECD_GH
Misc : TOXAPHENE 5.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:33 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:29:10 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14614.D\ECD1A.CH Vial: 15
Signal #2 : D:\G\DATA\DEC15\G1211\G14614.D\ECD2B.CH
Acq On : 11 Dec 2015 19:23 Operator: JAM
Sample : S5L1105-CALD Inst : GCECD_GH
Misc : TOXAPHENE 2.5 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:34 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:29:10 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
	Target Compounds						
23)	Toxaphene {1}	9.73	10.66	527870	579850	15.121	21.764 #
24)	Toxaphene {2}	10.62	11.77	602842	1521834	12.090m	19.237 #
25)	Toxaphene {3}	11.96	12.24	742654	735138	10.098m	16.537m#
26)	Toxaphene {4}	12.43	13.18	171616	859310	7.388	19.754m#

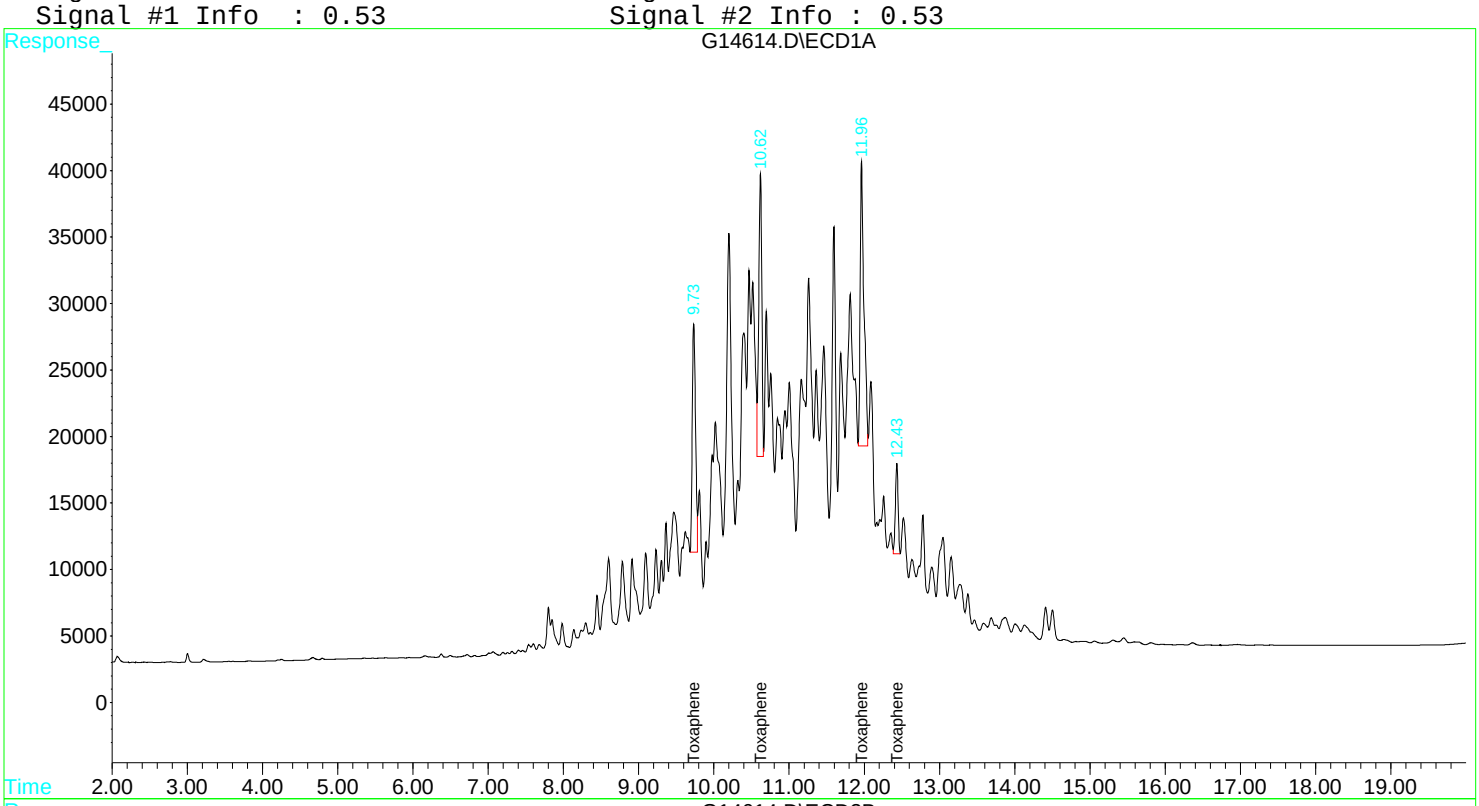
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

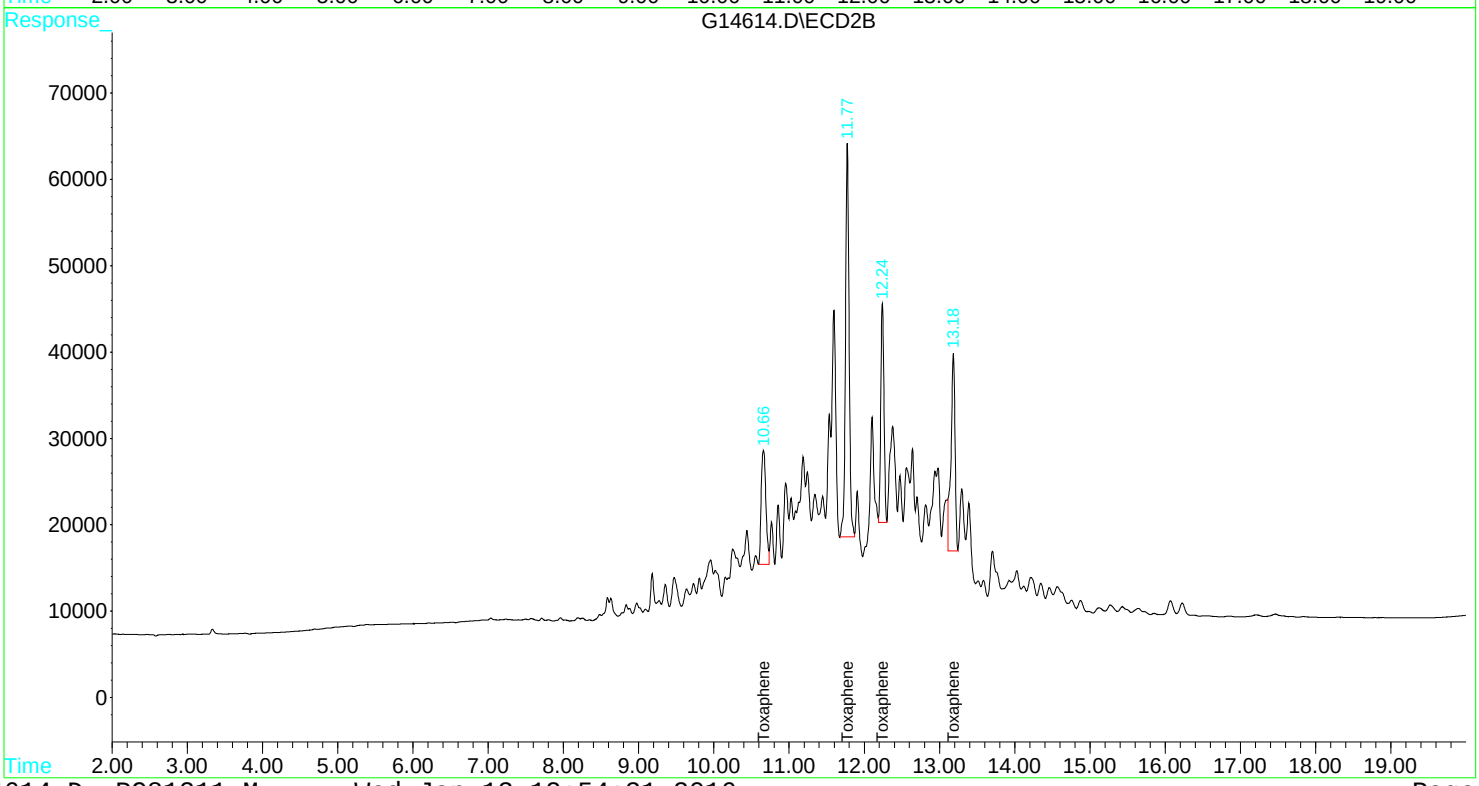
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14614.D\ECD1A.CH Vial: 15
Signal #2 : D:\G\DATA\DEC15\G1211\G14614.D\ECD2B.CH
Acq On : 11 Dec 2015 19:23 Operator: JAM
Sample : S5L1105-CALD Inst : GCECD_GH
Misc : TOXAPHENE 2.5 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:34 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:29:10 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14615.D\ECD1A.CH Vial: 16
Signal #2 : D:\G\DATA\DEC15\G1211\G14615.D\ECD2B.CH
Acq On : 11 Dec 2015 19:52 Operator: JAM
Sample : S5L1105-CALE Inst : GCECD_GH
Misc : TOXAPHENE 1.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:35 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:29:10 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
	Target Compounds						
23)	Toxaphene {1}	9.73	10.66	224730	243252	6.437	9.130 #
24)	Toxaphene {2}	10.62	11.78	272172	626690	5.459m	7.922 #
25)	Toxaphene {3}	11.96	12.24	310270	301186	4.219m	6.775 #
26)	Toxaphene {4}	12.43	13.18	66764	332156	2.874m	7.636m#

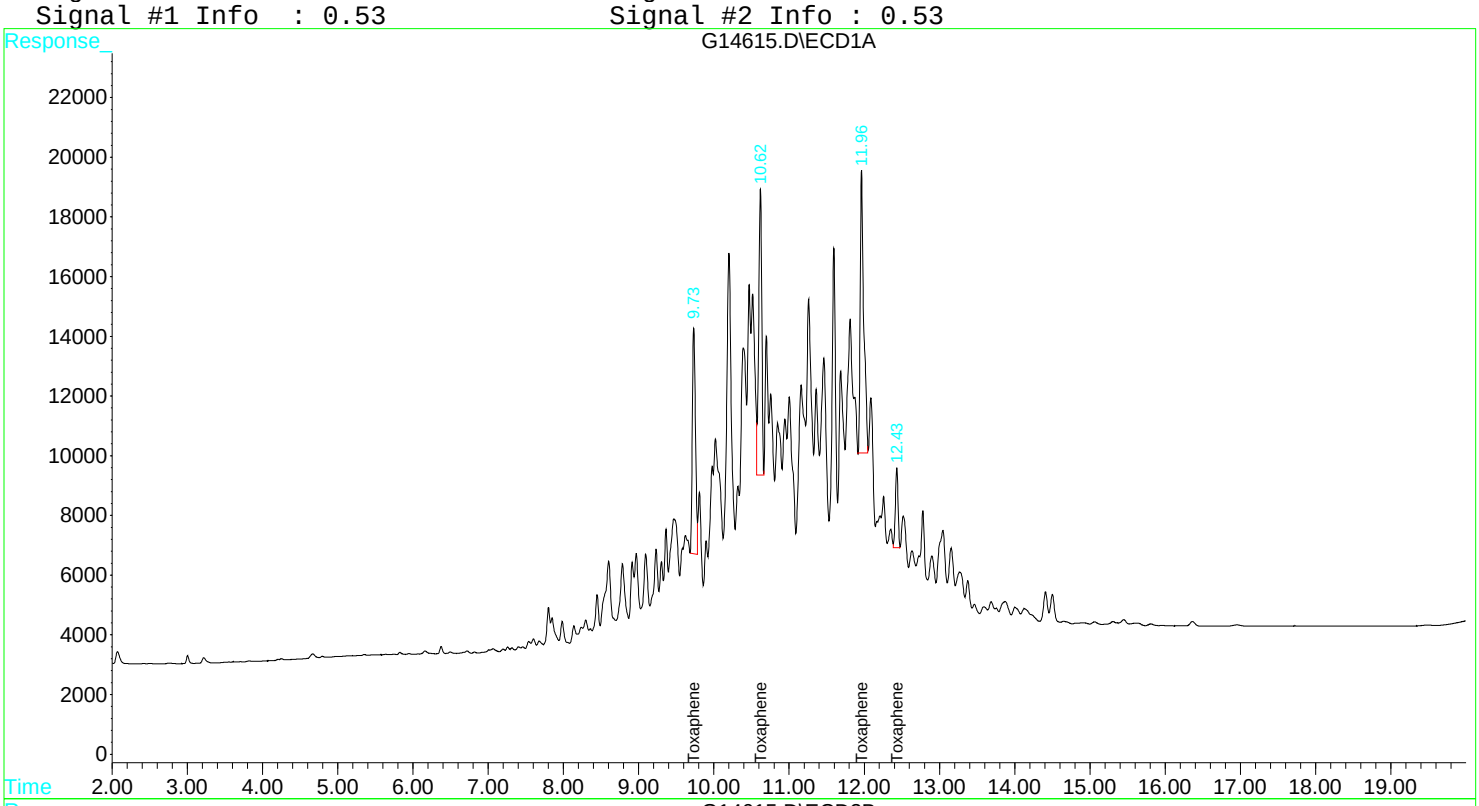
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

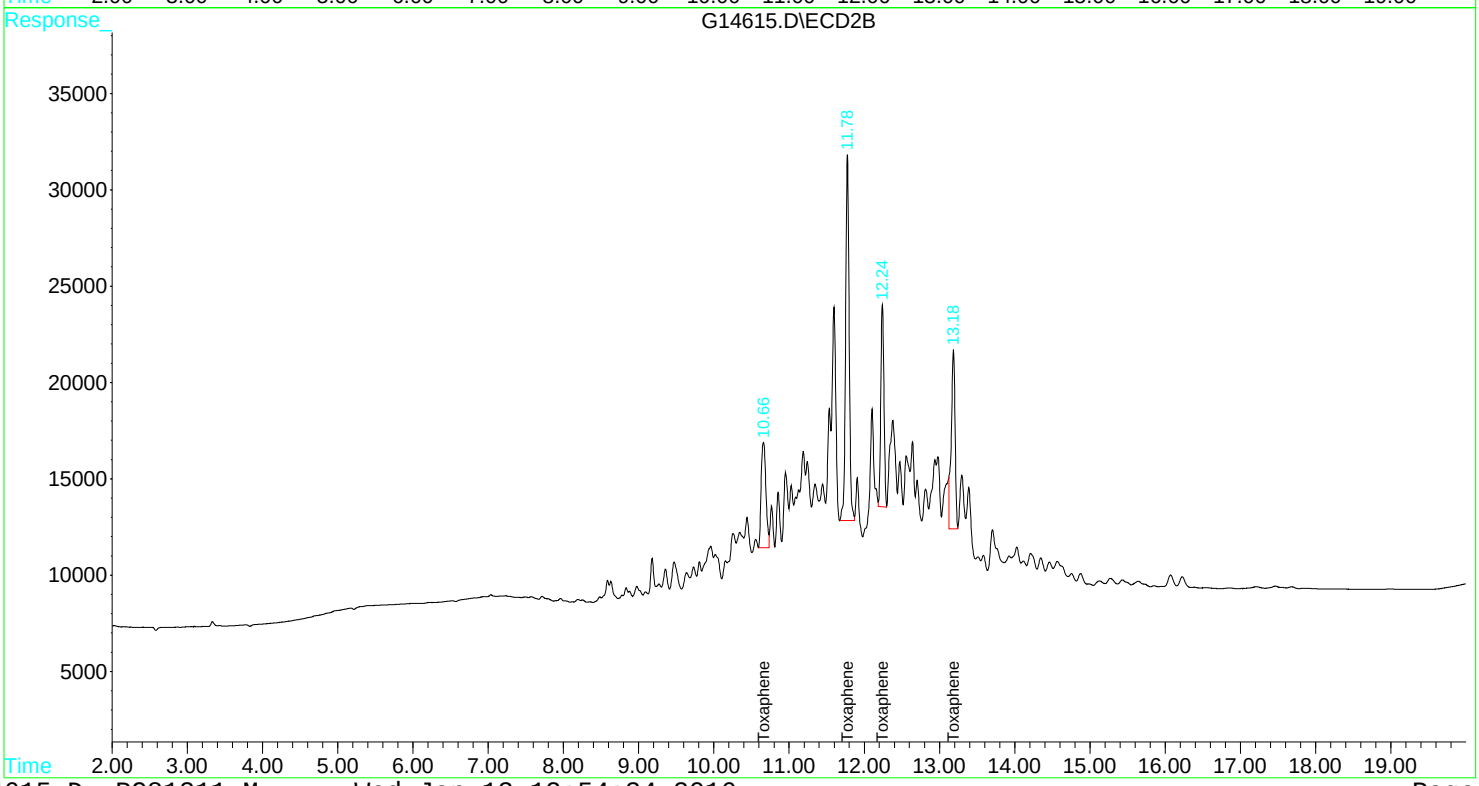
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14615.D\ECD1A.CH Vial: 16
Signal #2 : D:\G\DATA\DEC15\G1211\G14615.D\ECD2B.CH
Acq On : 11 Dec 2015 19:52 Operator: JAM
Sample : S5L1105-CALE Inst : GCECD_GH
Misc : TOXAPHENE 1.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:35 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:29:10 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14616.D\ECD1A.CH Vial: 17
Signal #2 : D:\G\DATA\DEC15\G1211\G14616.D\ECD2B.CH
Acq On : 11 Dec 2015 20:21 Operator: JAM
Sample : S5L1105-CALF Inst : GCECD_GH
Misc : TOXAPHENE 0.1 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:37 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:29:10 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
	Target Compounds							
23)	Toxaphene {1}	9.73	10.66	24622	27320	0.705	1.025	#
24)	Toxaphene {2}	10.62	11.77	28710	59864	0.576	0.757	#
25)	Toxaphene {3}	11.96	12.24	34302	38844	0.466m	0.874	#
26)	Toxaphene {4}	12.44	13.19	8100	22980	0.349m	0.528	#

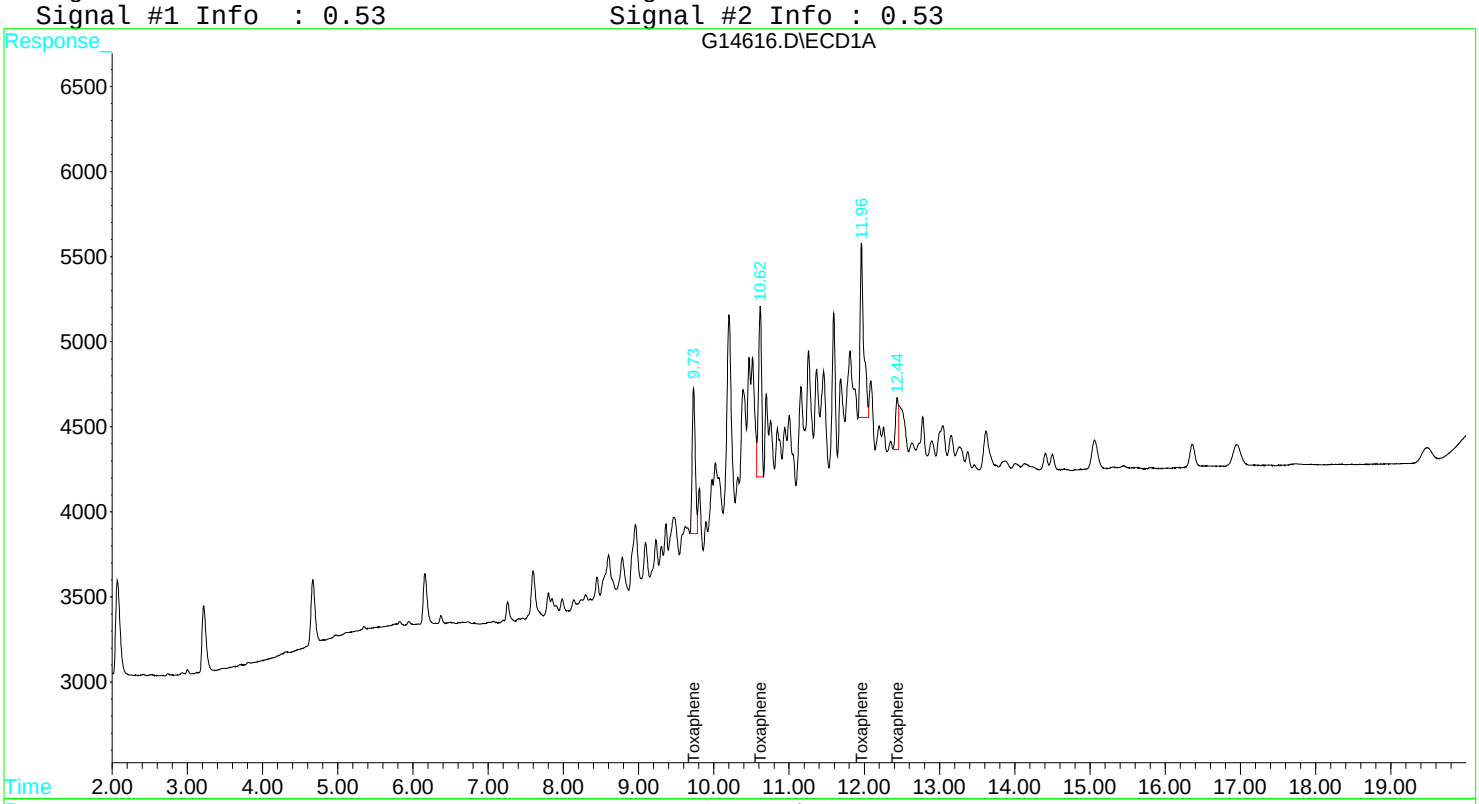
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

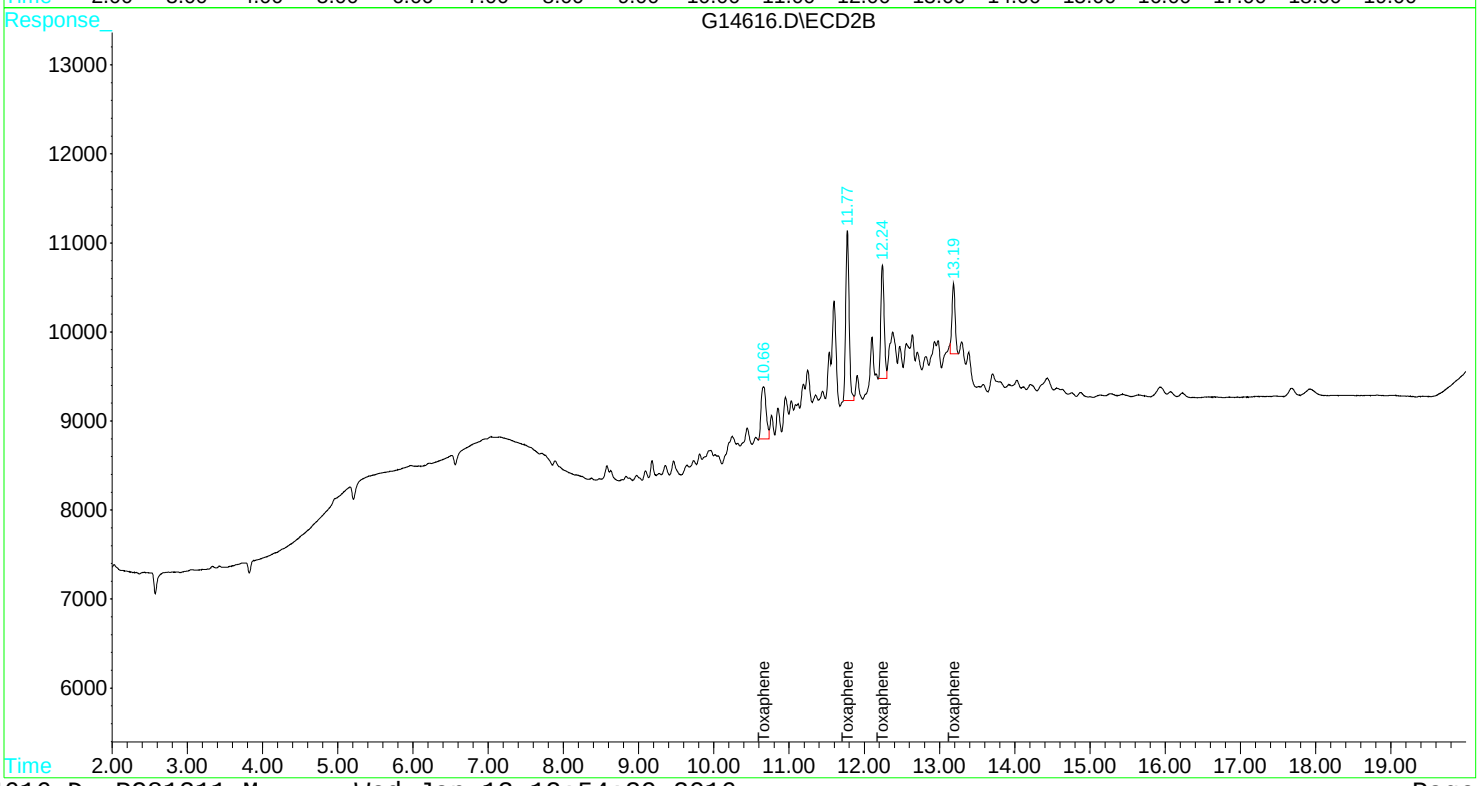
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14616.D\ECD1A.CH Vial: 17
Signal #2 : D:\G\DATA\DEC15\G1211\G14616.D\ECD2B.CH
Acq On : 11 Dec 2015 20:21 Operator: JAM
Sample : S5L1105-CALF Inst : GCECD_GH
Misc : TOXAPHENE 0.1 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:37 2015 Quant Results File: PG81211.RES

Quant Method : D:\G\METHODS\PG81211.M (RTE Integrator)
Title : 8081 Pesticides
Last Update : Mon Dec 14 09:29:10 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. : 1 ul
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLP PSTII
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14617.D\ECD1A.CH Vial: 18
Signal #2 : D:\G\DATA\DEC15\G1211\G14617.D\ECD2B.CH
Acq On : 11 Dec 2015 20:51 Operator: JAM
Sample : S5L1105-CALG Inst : GCECD_GH
Misc : A1016/1260 2.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:48 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Thu Dec 10 11:19:00 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
		Target Compounds						
2)	L1	Aroclor-1016	6.45	6.73	86360	127591	27.418	26.963
3)	L1	Aroclor-1016 {2}	6.95	7.62	247815	257241	28.252	30.469
4)	L1	Aroclor-1016 {3}	7.14	7.87	111731	124548	27.920	31.194
20)	L7	Aroclor-1260	10.32	11.38	168624	209338	24.435	24.760
21)	L7	Aroclor-1260 {2}	11.26	12.70	260588	150084	26.332	25.558
22)	L7	Aroclor-1260 {3}	12.46	13.98	389111	271569	26.667	27.367

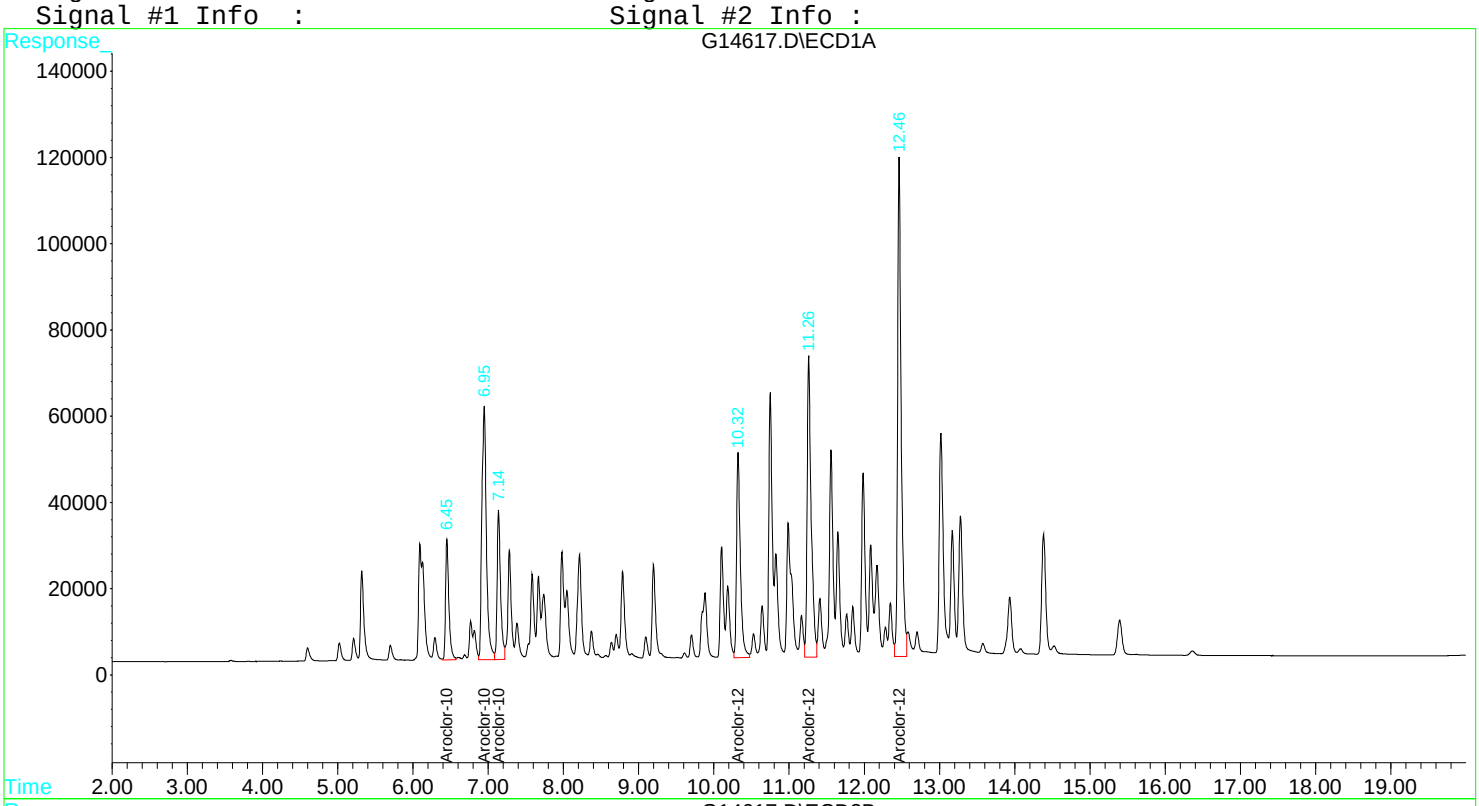
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

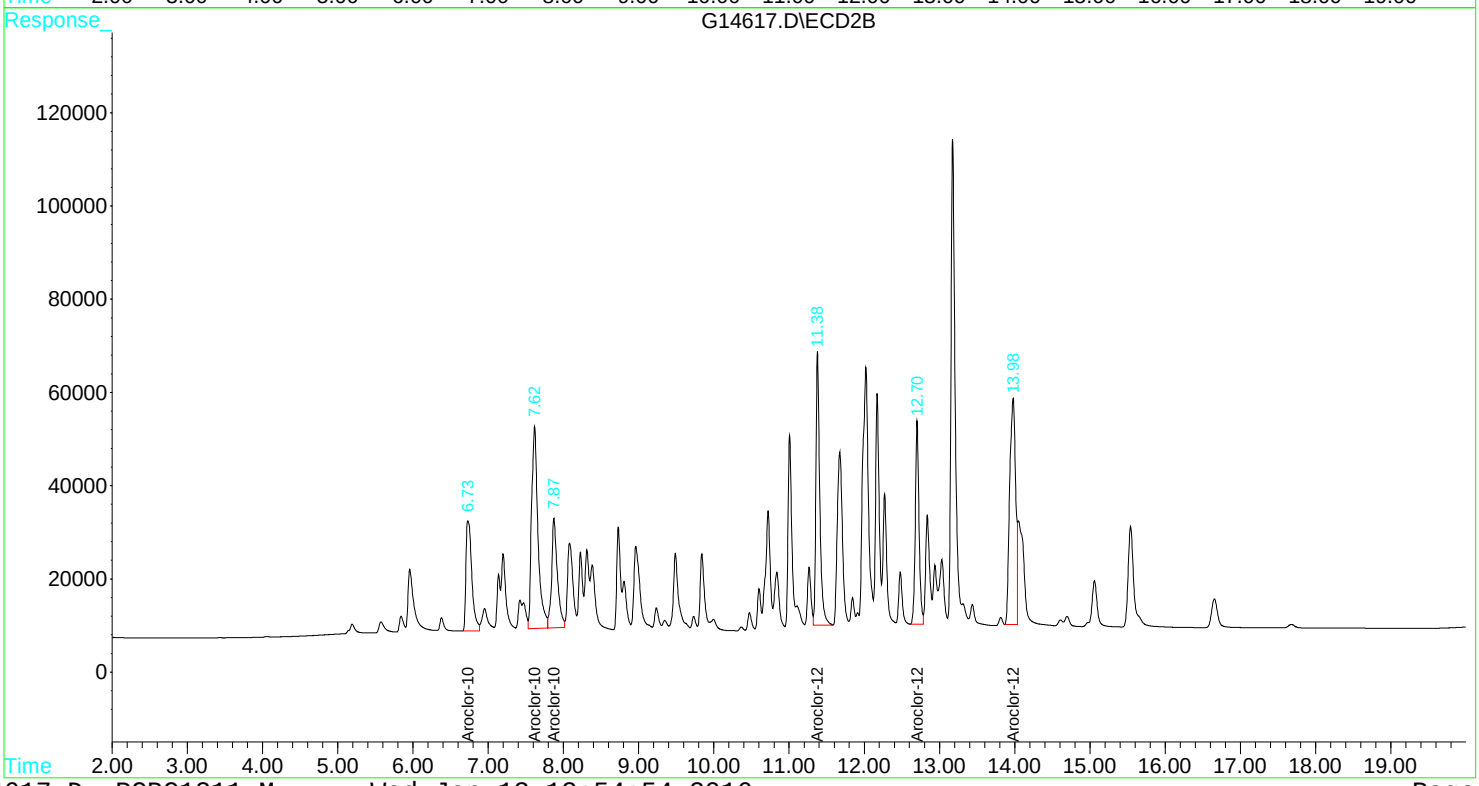
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14617.D\ECD1A.CH Vial: 18
Signal #2 : D:\G\DATA\DEC15\G1211\G14617.D\ECD2B.CH
Acq On : 11 Dec 2015 20:51 Operator: JAM
Sample : S5L1105-CALG Inst : GCECD_GH
Misc : A1016/1260 2.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:48 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Thu Dec 10 11:19:00 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14618.D\ECD1A.CH Vial: 19
Signal #2 : D:\G\DATA\DEC15\G1211\G14618.D\ECD2B.CH
Acq On : 11 Dec 2015 21:20 Operator: JAM
Sample : S5L1105-CALH Inst : GCECD_GH
Misc : A1016/1260 1.5 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:48 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Thu Dec 10 11:19:00 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
		Target Compounds						
2)	L1	Aroclor-1016	6.45	6.73	67564	101462	21.451	21.442
3)	L1	Aroclor-1016 {2}	6.95	7.62	194341	201859	22.156	23.910
4)	L1	Aroclor-1016 {3}	7.13	7.88	87792	99005	21.938	24.797
20)	L7	Aroclor-1260	10.32	11.38	131670	164058	19.080	19.404
21)	L7	Aroclor-1260 {2}	11.26	12.70	202106	116547	20.422	19.847
22)	L7	Aroclor-1260 {3}	12.46	13.98	299718	206926	20.541	20.853

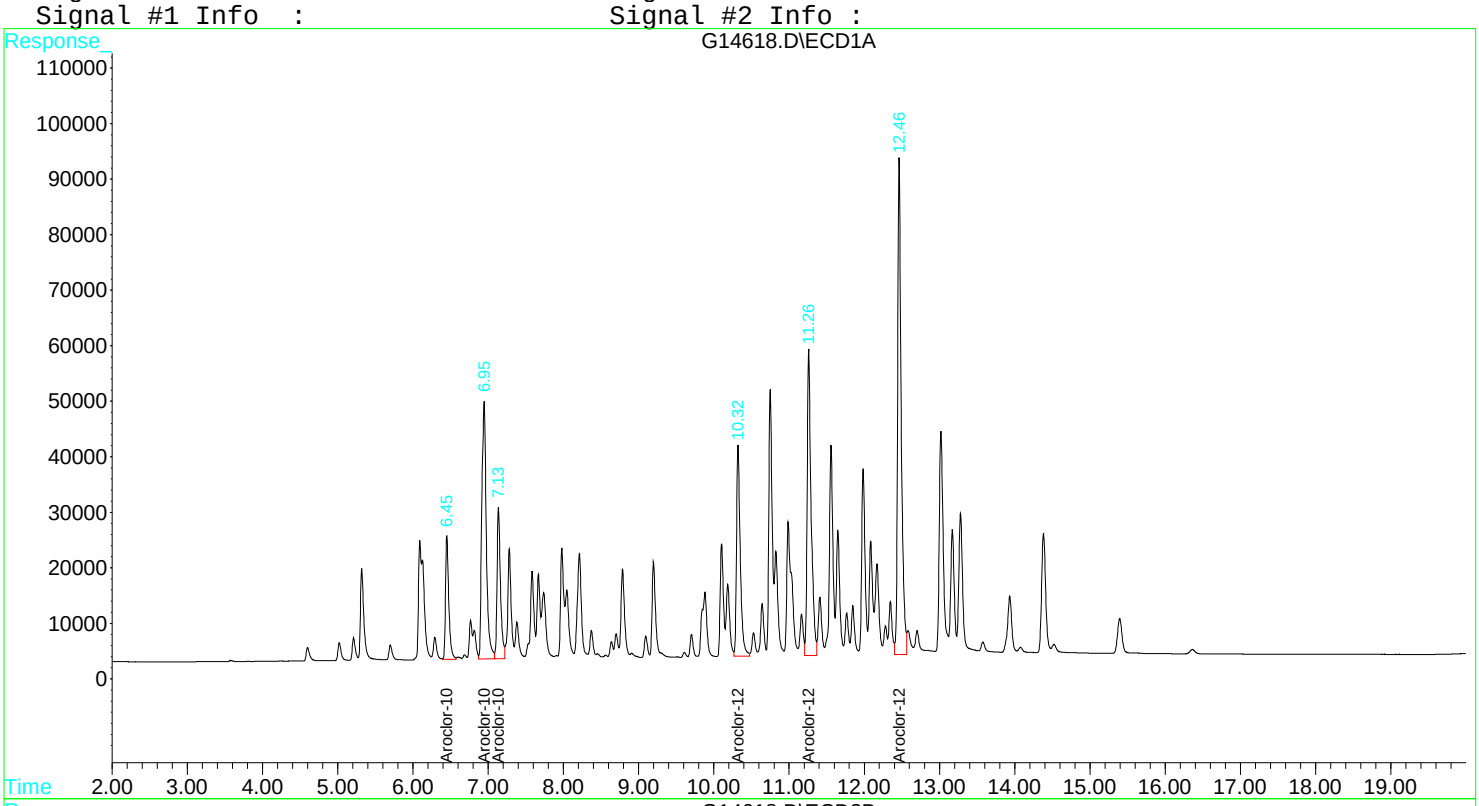
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

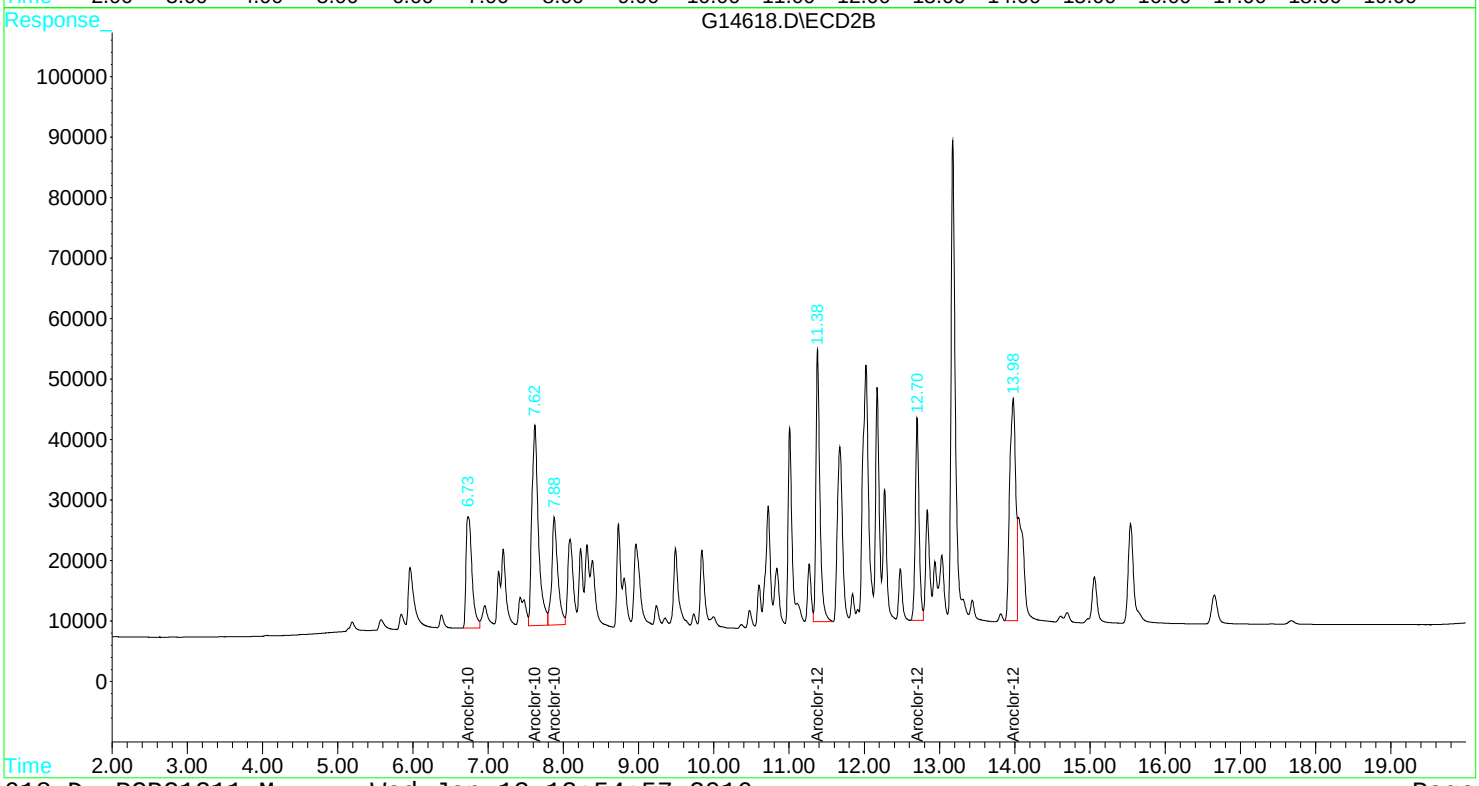
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14618.D\ECD1A.CH Vial: 19
Signal #2 : D:\G\DATA\DEC15\G1211\G14618.D\ECD2B.CH
Acq On : 11 Dec 2015 21:20 Operator: JAM
Sample : S5L1105-CALH Inst : GCECD_GH
Misc : A1016/1260 1.5 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:48 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Thu Dec 10 11:19:00 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14619.D\ECD1A.CH Vial: 20
Signal #2 : D:\G\DATA\DEC15\G1211\G14619.D\ECD2B.CH
Acq On : 11 Dec 2015 21:49 Operator: JAM
Sample : S5L1105-CALI Inst : GCECD_GH
Misc : A1016/1260 1.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:49 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Thu Dec 10 11:19:00 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
		Target Compounds						
2)	L1	Aroclor-1016	6.45	6.73	46890	71830	14.887	15.180
3)	L1	Aroclor-1016 {2}	6.95	7.63	134161	140840	15.295	16.682
4)	L1	Aroclor-1016 {3}	7.14	7.88	60126	70504	15.024	17.658
20)	L7	Aroclor-1260	10.32	11.38	88808	114365	12.869	13.527
21)	L7	Aroclor-1260 {2}	11.26	12.70	135067	80248	13.648	13.665
22)	L7	Aroclor-1260 {3}	12.46	13.98	198218	141023	13.585	14.211

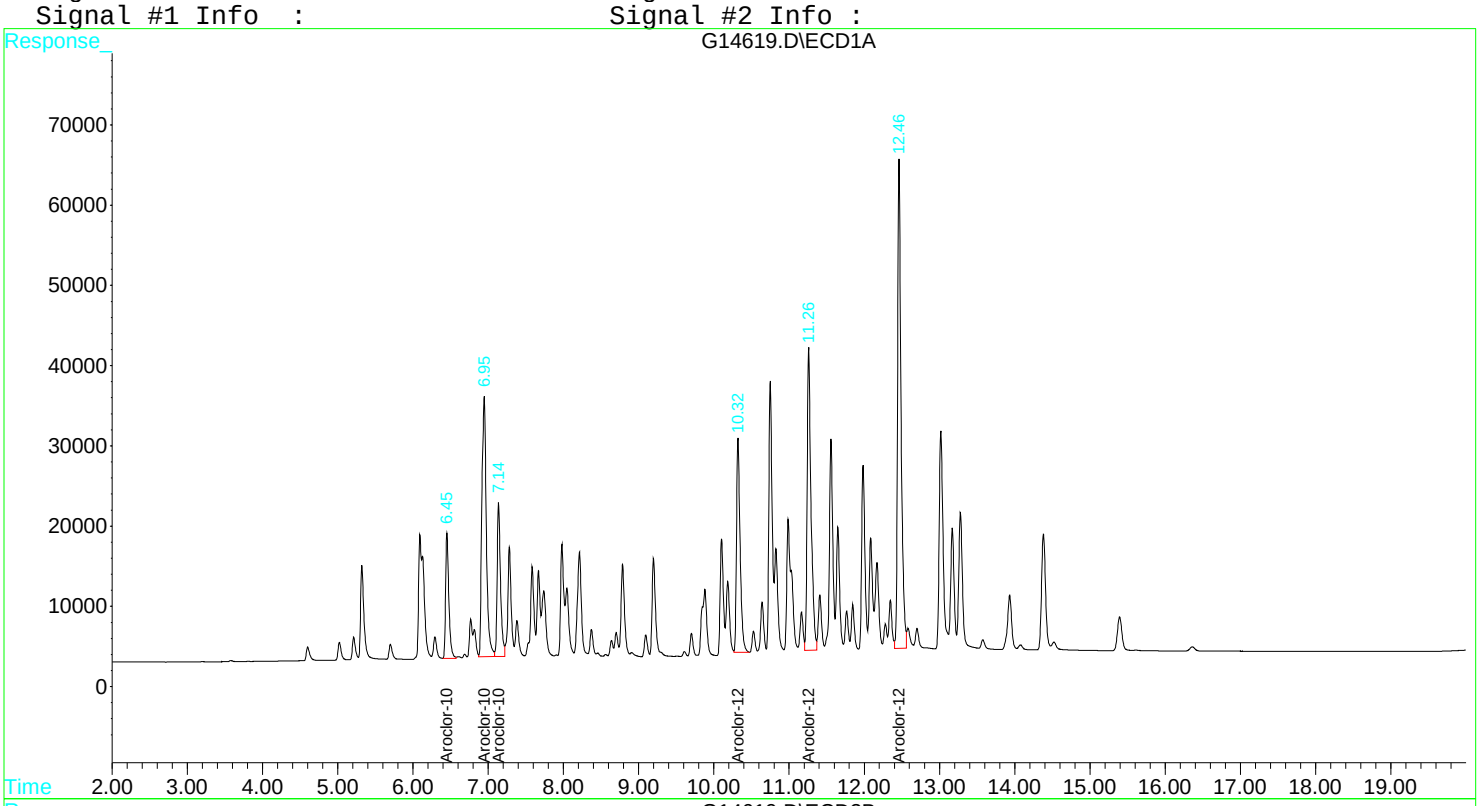
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

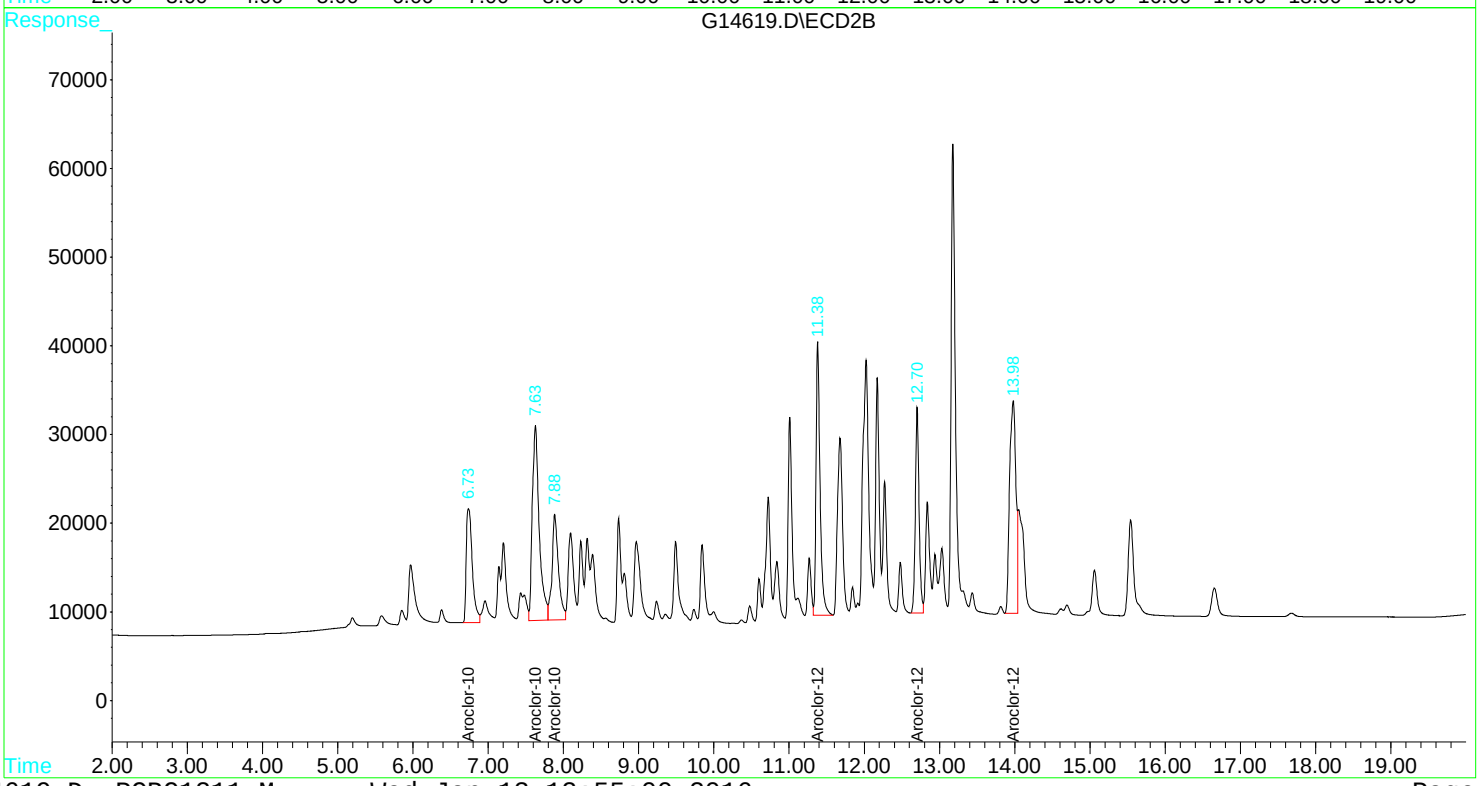
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14619.D\ECD1A.CH Vial: 20
Signal #2 : D:\G\DATA\DEC15\G1211\G14619.D\ECD2B.CH
Acq On : 11 Dec 2015 21:49 Operator: JAM
Sample : S5L1105-CALI Inst : GCECD_GH
Misc : A1016/1260 1.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:49 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Thu Dec 10 11:19:00 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14620.D\ECD1A.CH Vial: 21
Signal #2 : D:\G\DATA\DEC15\G1211\G14620.D\ECD2B.CH
Acq On : 11 Dec 2015 22:18 Operator: JAM
Sample : S5L1105-CALJ Inst : GCECD_GH
Misc : A1016/1260 0.5 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:50 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Thu Dec 10 11:19:00 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
		Target Compounds						
2)	L1	Aroclor-1016	6.45	6.74	25398	39593	8.064	8.367
3)	L1	Aroclor-1016 {2}	6.95	7.64	73275	66658	8.354	7.895
4)	L1	Aroclor-1016 {3}	7.14	7.89	32935	33046	8.230	8.277
20)	L7	Aroclor-1260	10.32	11.39	50229	61726	7.279	7.301
21)	L7	Aroclor-1260 {2}	11.26	12.70	73988	42415	7.476	7.223
22)	L7	Aroclor-1260 {3}	12.46	13.99	106517	72278	7.300	7.284

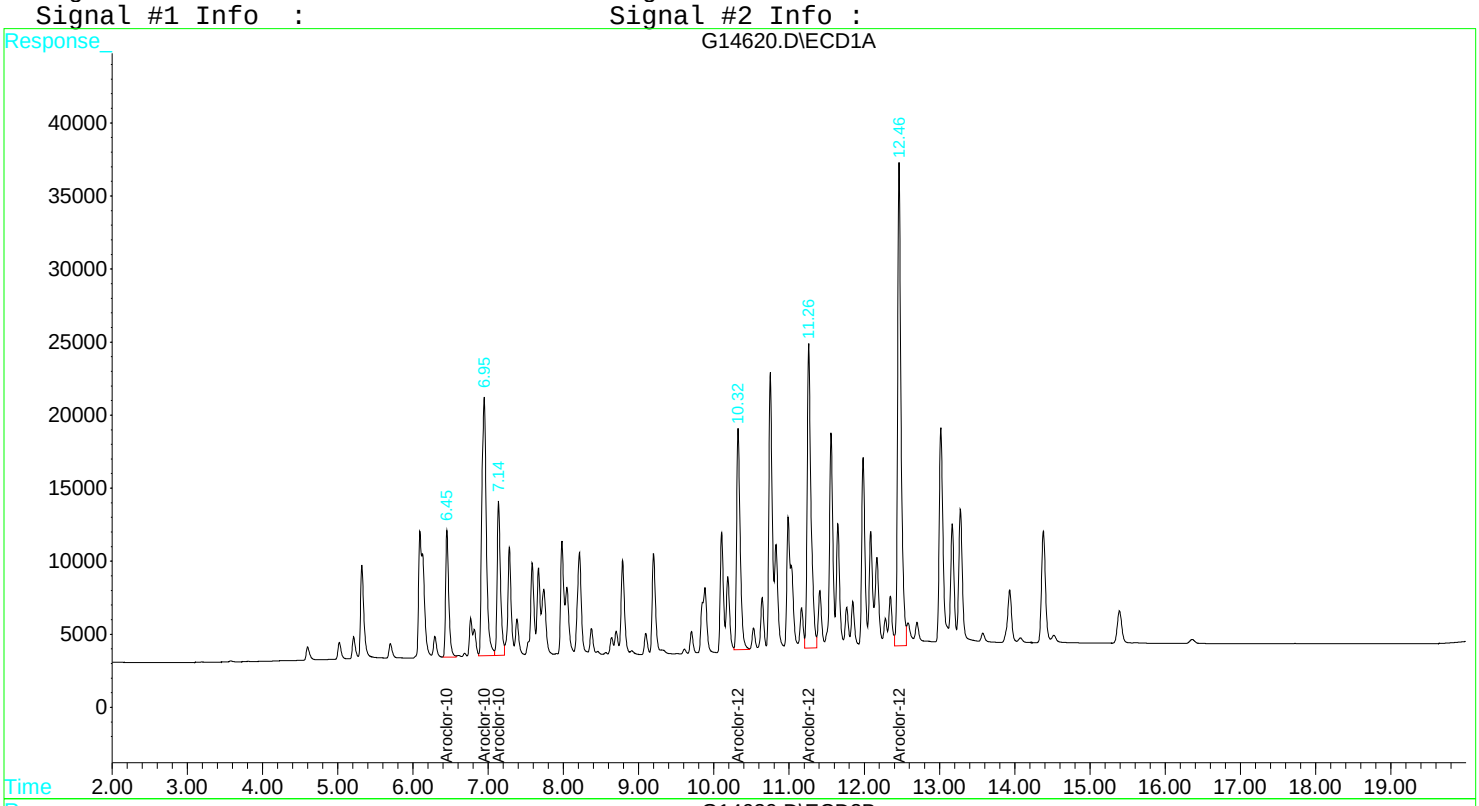
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

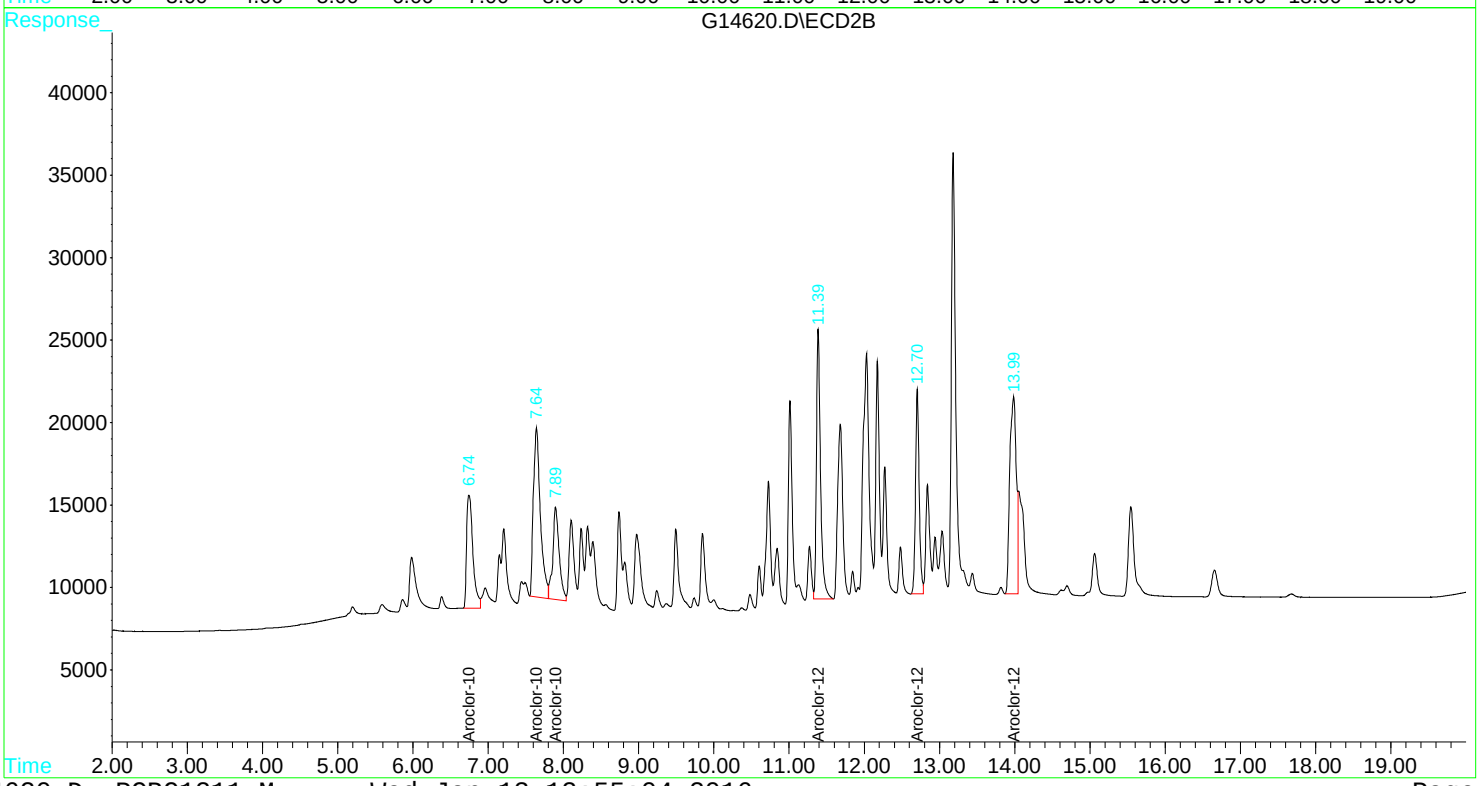
Quantitation Report (QT Reviewed)

```
Signal #1 : D:\G\DATA\DEC15\G1211\G14620.D\ECD1A.CH      Vial: 21
Signal #2 : D:\G\DATA\DEC15\G1211\G14620.D\ECD2B.CH
Acq On    : 11 Dec 2015  22:18                        Operator: JAM
Sample    : S5L1105-CALJ                              Inst    : GCECD_GH
Misc      : A1016/1260 0.5 PPM                        Multiplr: 1.00
IntFile Signal #1: RTEINT.P     IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14  9:50 2015  Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title        : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update  : Thu Dec 10 11:19:00 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj.     :
Signal #1 Phase : Rtx-5              Signal #2 Phase: CLPestII
Signal #1 Info  :                    Signal #2 Info :
```





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14621.D\ECD1A.CH Vial: 22
Signal #2 : D:\G\DATA\DEC15\G1211\G14621.D\ECD2B.CH
Acq On : 11 Dec 2015 22:47 Operator: JAM
Sample : S5L1105-CALK Inst : GCECD_GH
Misc : A1016/1260 0.1 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:51 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Thu Dec 10 11:19:00 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
		Target Compounds						
2)	L1	Aroclor-1016	6.45	6.76	5643	8789	1.792	1.857
3)	L1	Aroclor-1016 {2}	6.95	7.67f	16676	14139	1.901	1.675m
4)	L1	Aroclor-1016 {3}	7.14	7.92f	7462	5437	1.865	1.362 #
20)	L7	Aroclor-1260	10.32	11.39	12679	13821	1.837	1.635
21)	L7	Aroclor-1260 {2}	11.26	12.71	16512	9099	1.668	1.549
22)	L7	Aroclor-1260 {3}	12.46	13.99	22568	15226	1.547	1.534m

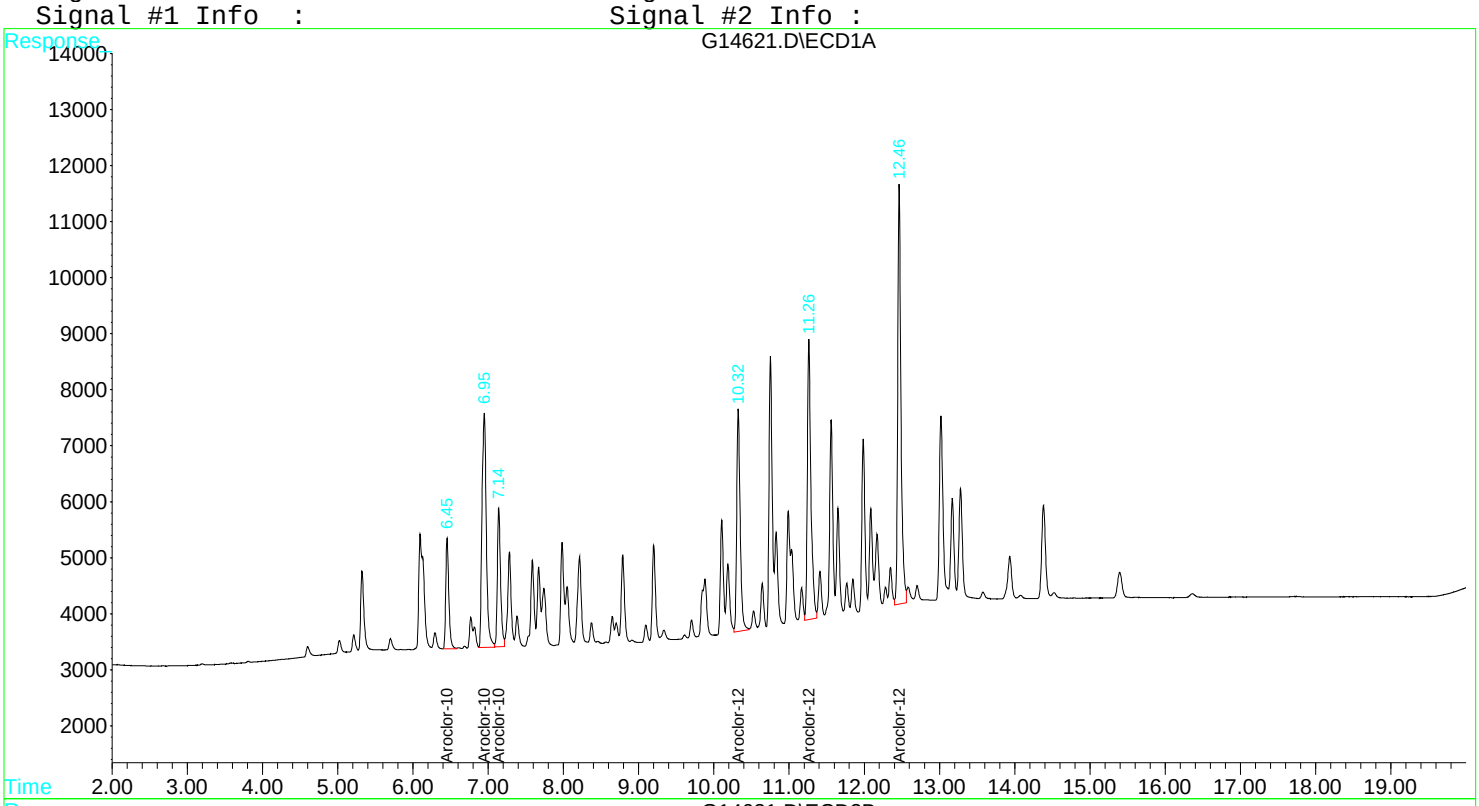
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

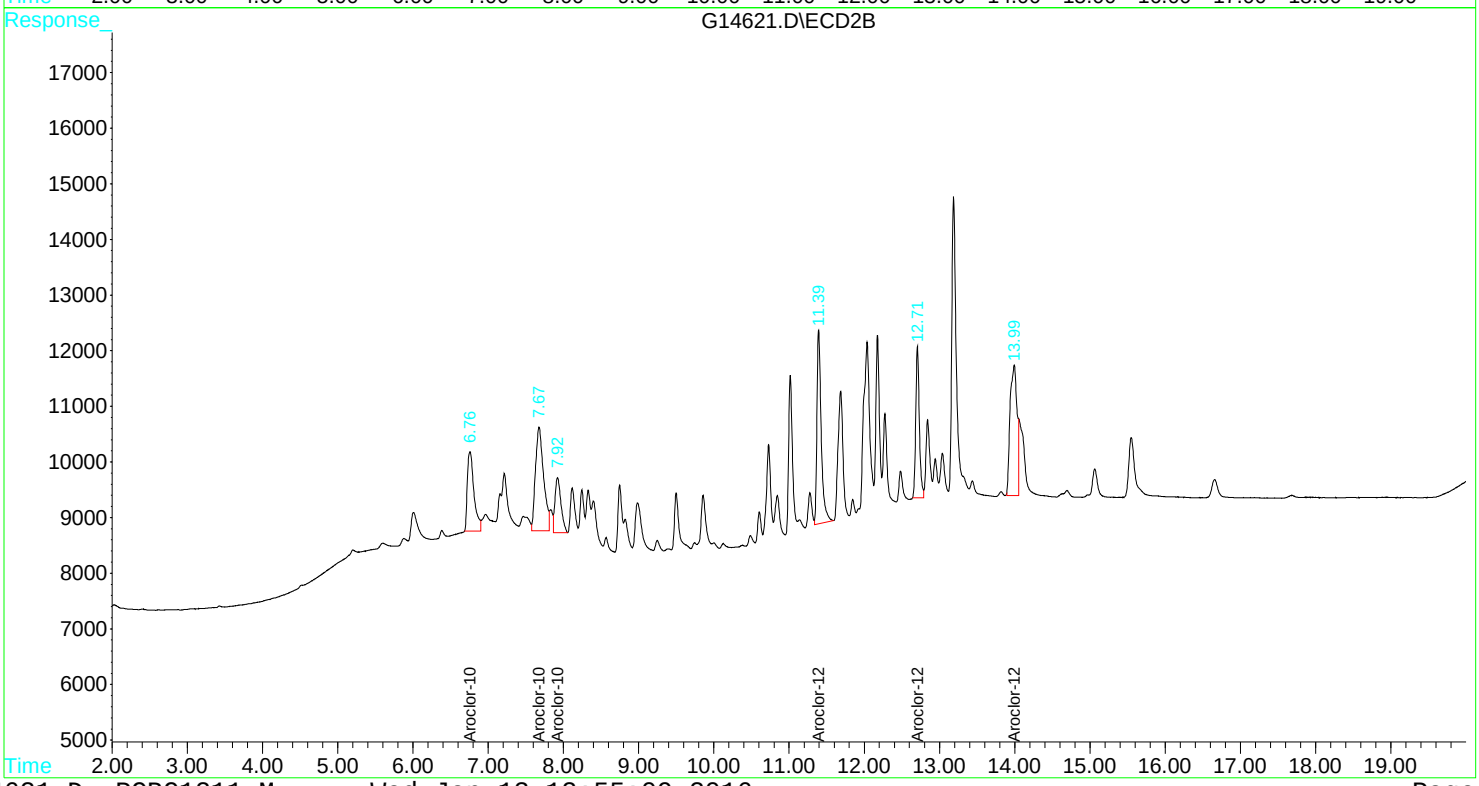
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14621.D\ECD1A.CH Vial: 22
Signal #2 : D:\G\DATA\DEC15\G1211\G14621.D\ECD2B.CH
Acq On : 11 Dec 2015 22:47 Operator: JAM
Sample : S5L1105-CALK Inst : GCECD_GH
Misc : A1016/1260 0.1 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:51 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Thu Dec 10 11:19:00 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14622.D\ECD1A.CH Vial: 23
Signal #2 : D:\G\DATA\DEC15\G1211\G14622.D\ECD2B.CH
Acq On : 11 Dec 2015 23:16 Operator: JAM
Sample : S5L1105-ARC1 Inst : GCECD_GH
Misc : A1221/1254 1.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:53 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Thu Dec 10 11:19:00 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
		Target Compounds						
5)	L2	Aroclor-1221	5.02	5.57	24891	24766	17.260	17.910
6)	L2	Aroclor-1221 {2}	5.21	5.84	17538	14873	16.608	16.112
7)	L2	Aroclor-1221 {3}	5.32	5.96	58633	63661	15.585	16.690
17)	L6	Aroclor-1254	7.98	9.83	23580	65364	13.541	14.352
18)	L6	Aroclor-1254 {2}	10.35	11.09	126061	92810	15.305	14.156
19)	L6	Aroclor-1254 {3}	11.26	12.03	115305	116343	15.266	14.876

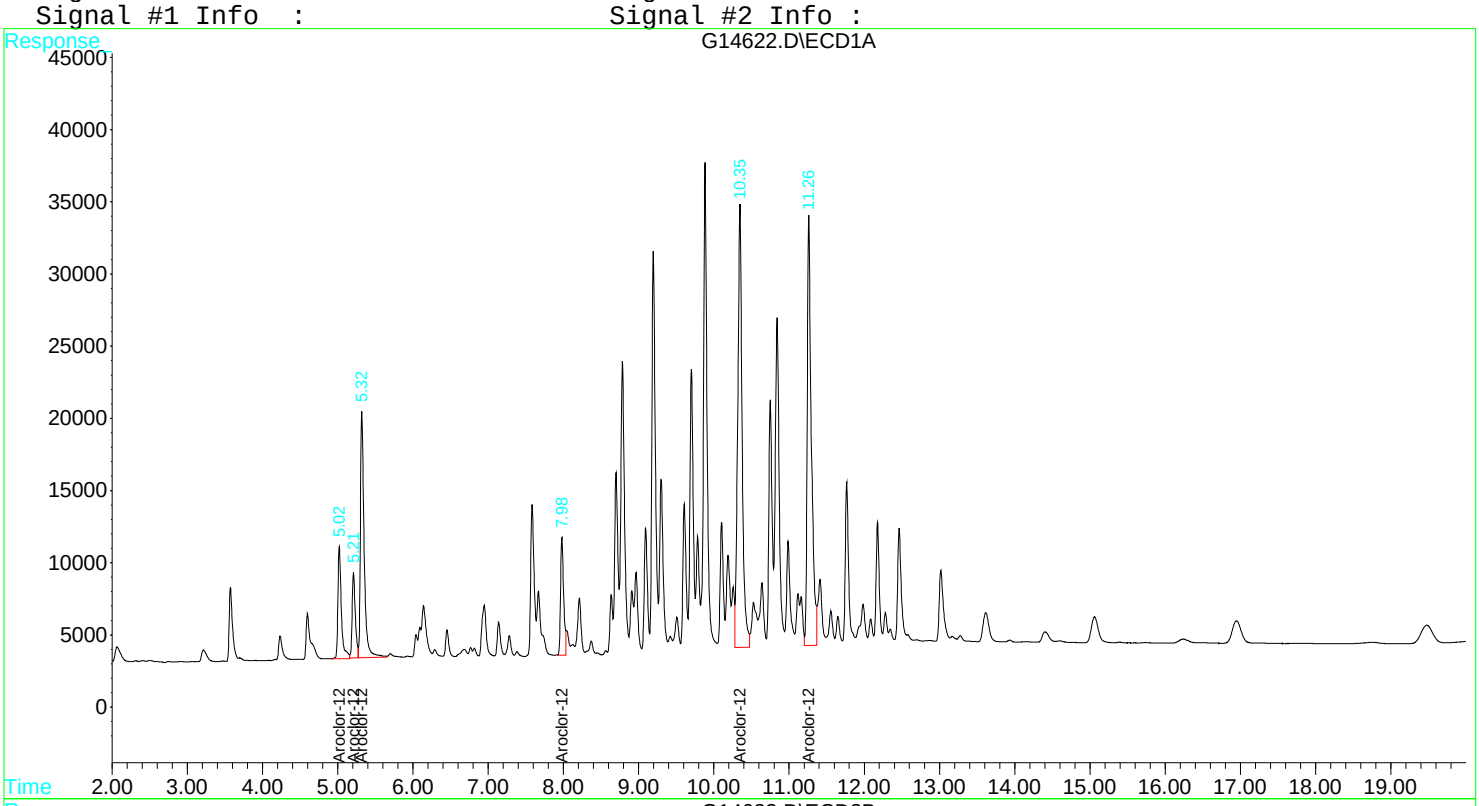
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

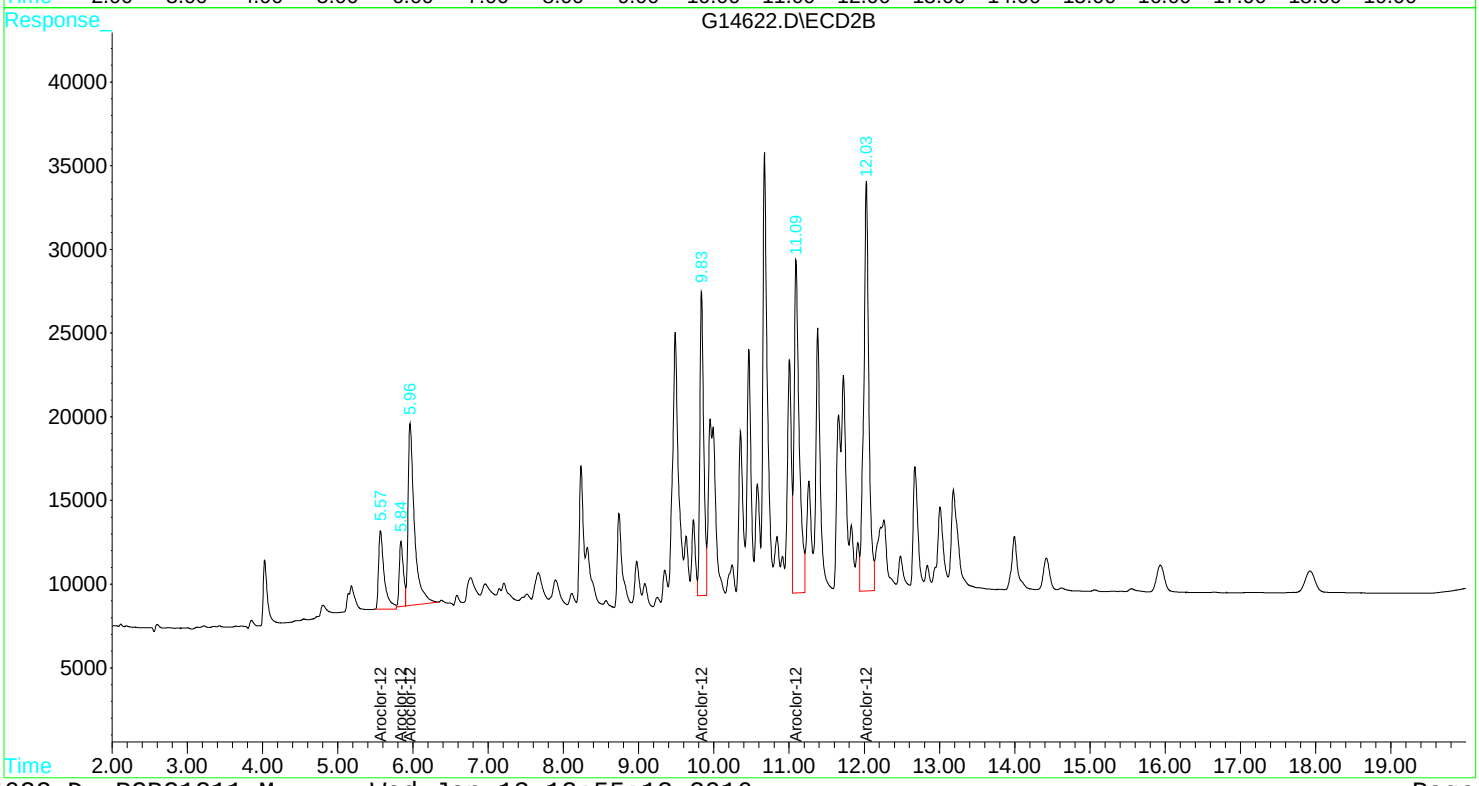
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14622.D\ECD1A.CH Vial: 23
Signal #2 : D:\G\DATA\DEC15\G1211\G14622.D\ECD2B.CH
Acq On : 11 Dec 2015 23:16 Operator: JAM
Sample : S5L1105-ARC1 Inst : GCECD_GH
Misc : A1221/1254 1.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:53 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Thu Dec 10 11:19:00 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14623.D\ECD1A.CH Vial: 24
Signal #2 : D:\G\DATA\DEC15\G1211\G14623.D\ECD2B.CH
Acq On : 11 Dec 2015 23:46 Operator: JAM
Sample : S5L1105-ARC2 Inst : GCECD_GH
Misc : A1232/1262 1.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:56 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 09:55:35 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
	Target Compounds							
8) L3	Aroclor-1232	5.32	5.97	42765	51328	23.379	30.055	#
9) L3	Aroclor-1232 {2}	6.95	7.64	61639	64748	10.013	10.055	
10) L3	Aroclor-1232 {3}	7.14	7.89	26650	33065	9.543	11.112	
23) L8	Aroclor-1262	11.56	12.17	123482	137995	26.163	25.835	
24) L8	Aroclor-1262 {2}	11.98	12.70	83848	105205	4.836	5.613	
25) L8	Aroclor-1262 {3}	13.28	13.95	125071	169845	2.296	2.865	

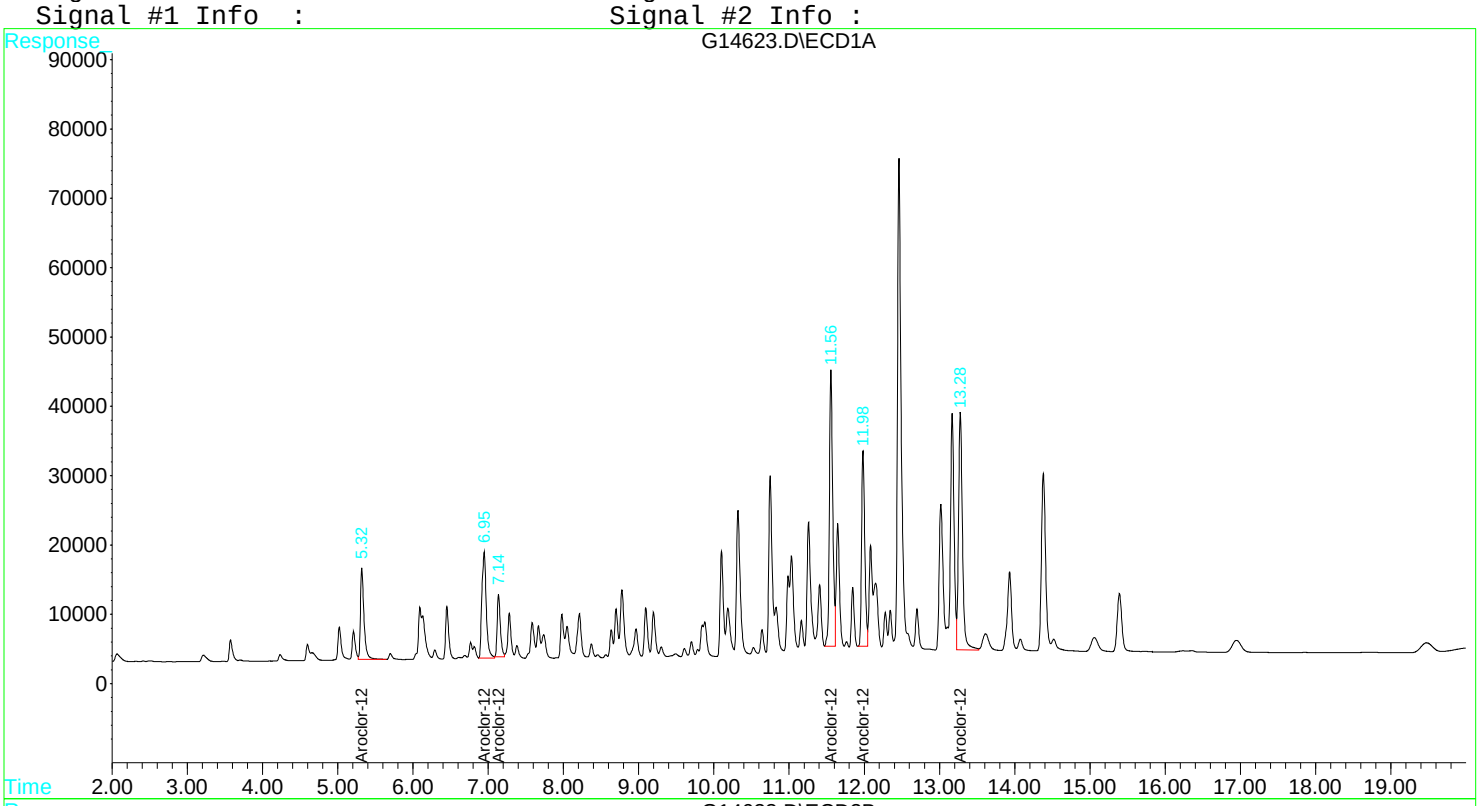
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

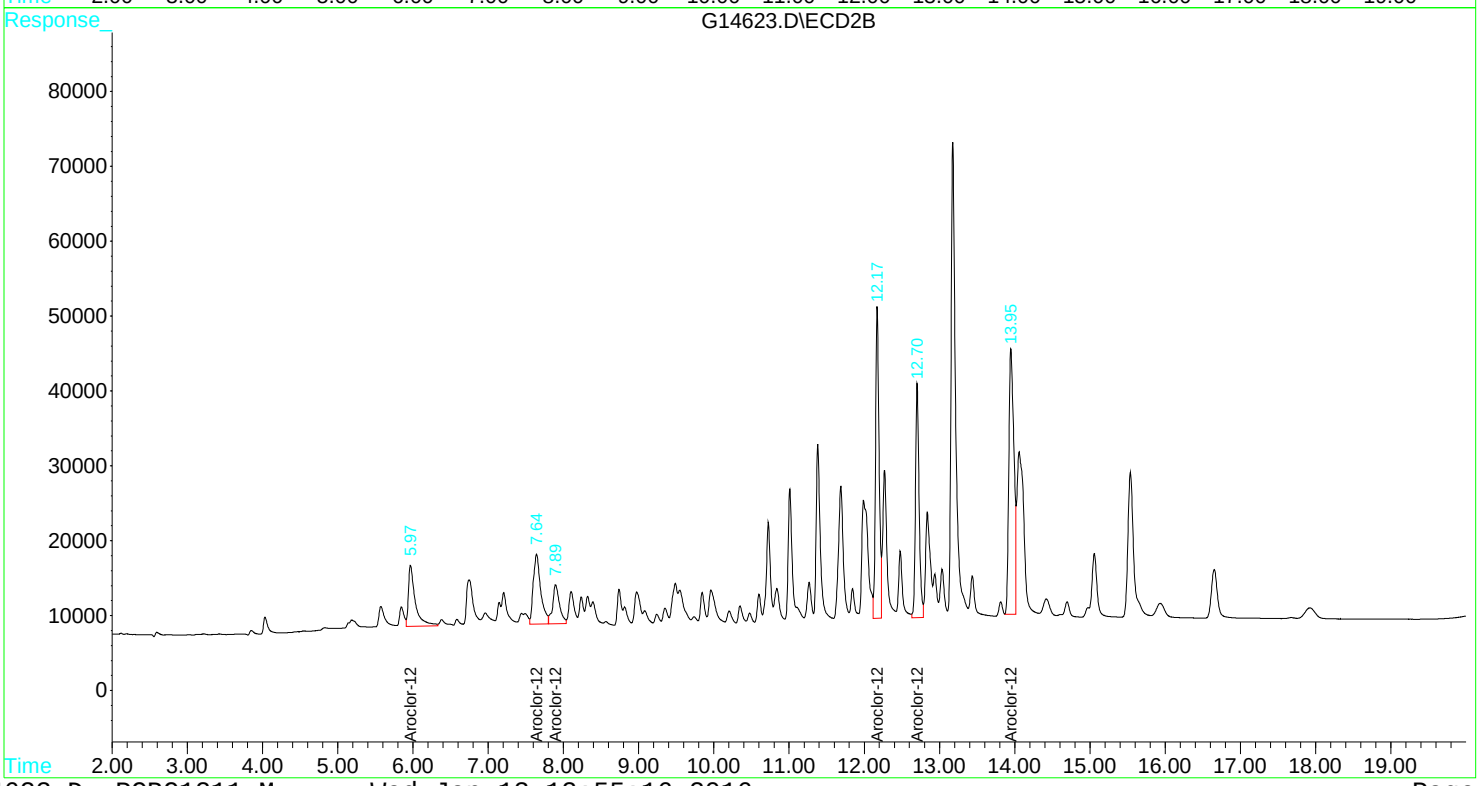
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14623.D\ECD1A.CH Vial: 24
Signal #2 : D:\G\DATA\DEC15\G1211\G14623.D\ECD2B.CH
Acq On : 11 Dec 2015 23:46 Operator: JAM
Sample : S5L1105-ARC2 Inst : GCECD_GH
Misc : A1232/1262 1.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 9:56 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 09:55:35 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14624.D\ECD1A.CH Vial: 25
Signal #2 : D:\G\DATA\DEC15\G1211\G14624.D\ECD2B.CH
Acq On : 12 Dec 2015 00:15 Operator: JAM
Sample : S5L1105-ARC3 Inst : GCECD_GH
Misc : A1242/1268 1.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 10:04 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 09:55:35 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		System Monitoring Compounds							
		Target Compounds							
11)	L4	Aroclor-1242	6.45	6.74	36754	56537	25.444	24.934	
12)	L4	Aroclor-1242 {2}	6.95	7.63	105389	109060	26.861	28.905	
13)	L4	Aroclor-1242 {3}	8.21	7.88	43201	55029	32.634	30.141	
26)	L9	Aroclor-1268	13.89	14.70	268139	258426	59.836	32.905	#
27)	L9	Aroclor-1268 {2}	14.38	15.54	115480	109704	6.906	5.677	
28)	L9	Aroclor-1268 {3}	15.39	16.64	779242	772317	121.819	100.093	

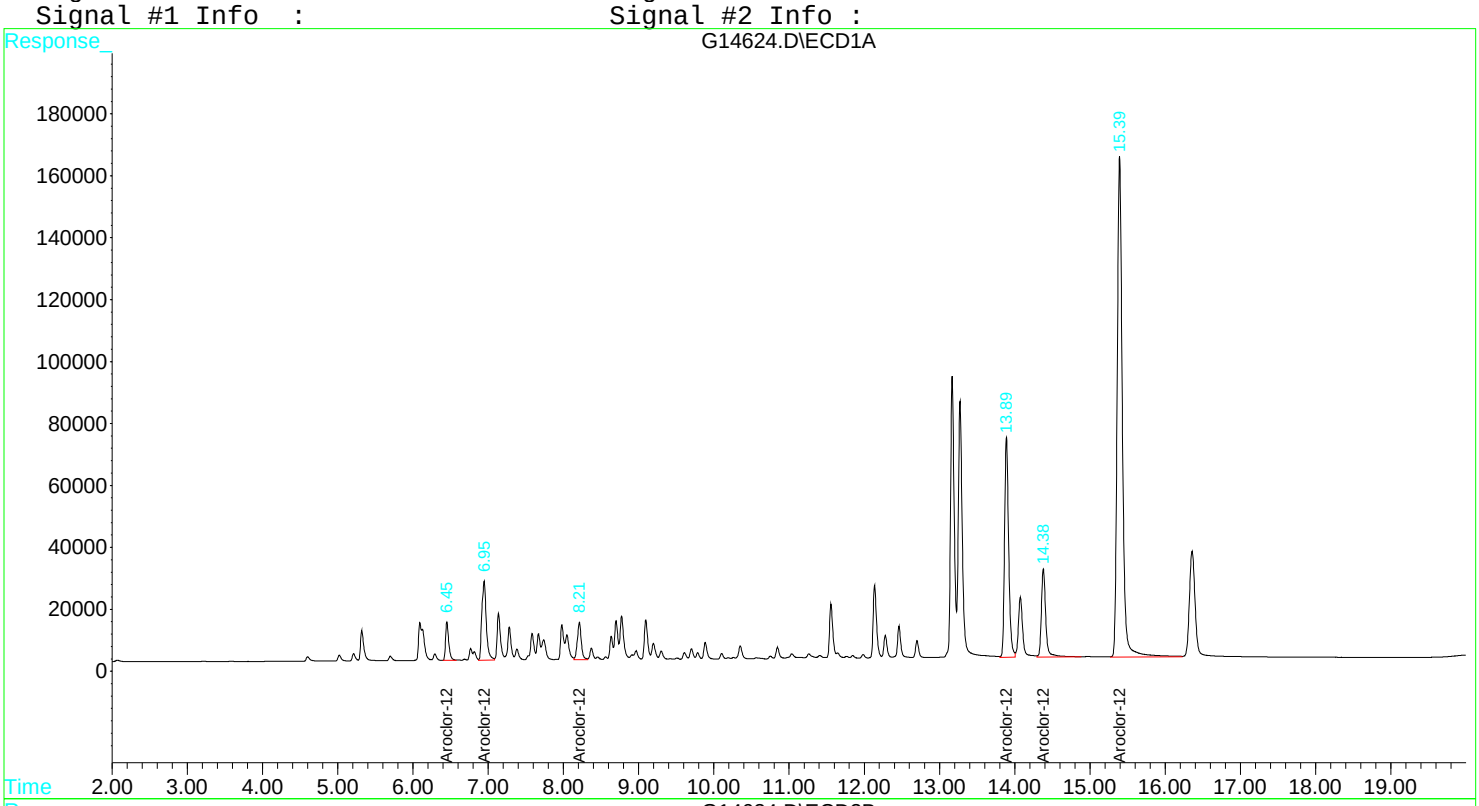
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

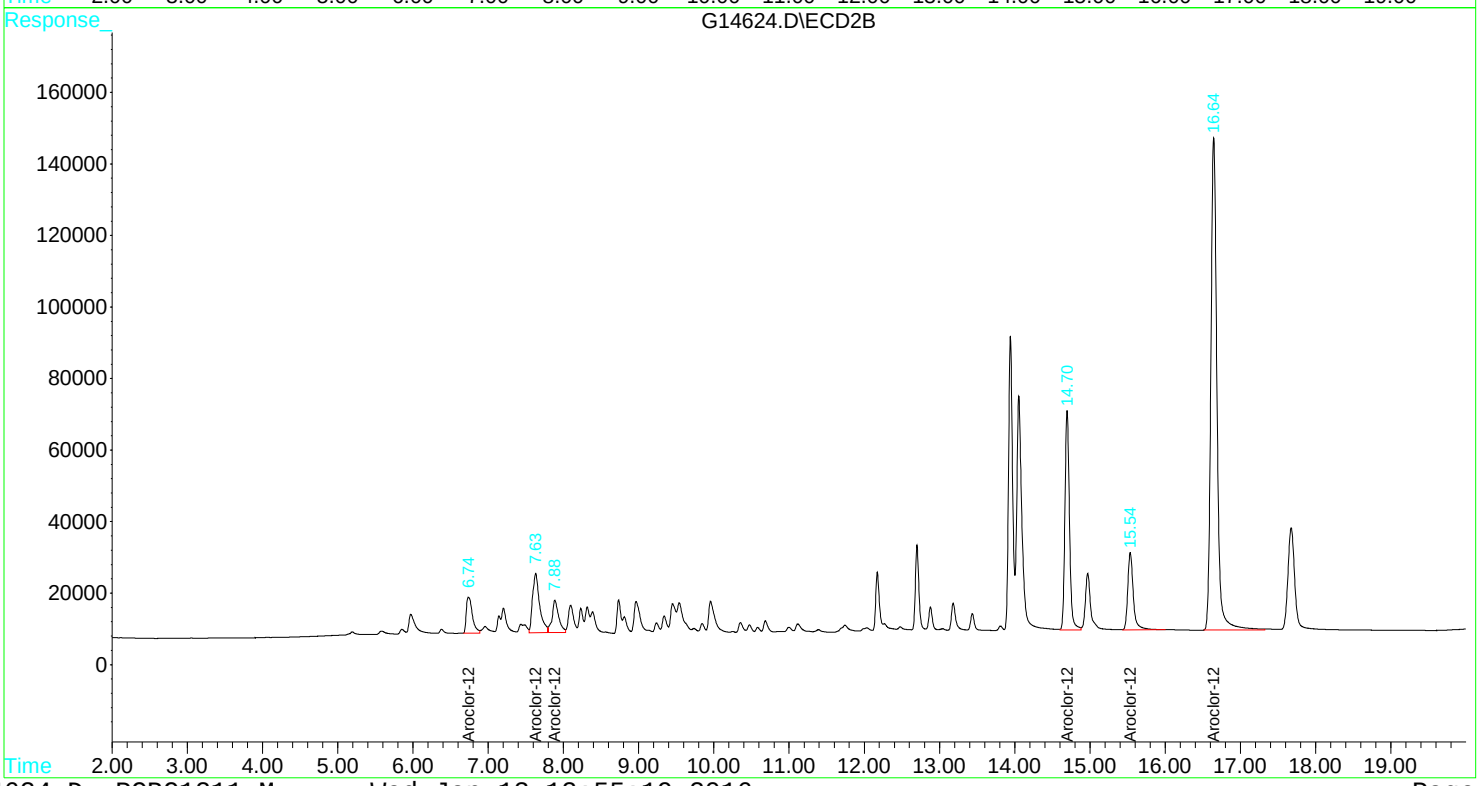
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14624.D\ECD1A.CH Vial: 25
Signal #2 : D:\G\DATA\DEC15\G1211\G14624.D\ECD2B.CH
Acq On : 12 Dec 2015 00:15 Operator: JAM
Sample : S5L1105-ARC3 Inst : GCECD_GH
Misc : A1242/1268 1.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 10:04 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 09:55:35 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14625.D\ECD1A.CH Vial: 26
Signal #2 : D:\G\DATA\DEC15\G1211\G14625.D\ECD2B.CH
Acq On : 12 Dec 2015 00:44 Operator: JAM
Sample : S5L1105-ARC4 Inst : GCECD_GH
Misc : A1248 1.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 10:05 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 09:55:35 2015
Response via : Initial Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
Target Compounds						
14) L5 Aroclor-1248	6.95	7.64	67168	62830	15.031	14.704
15) L5 Aroclor-1248 {2}	7.14	7.90	26763	22913	14.734	12.368
16) L5 Aroclor-1248 {3}	8.21	8.96	58184	62754	14.461	15.143

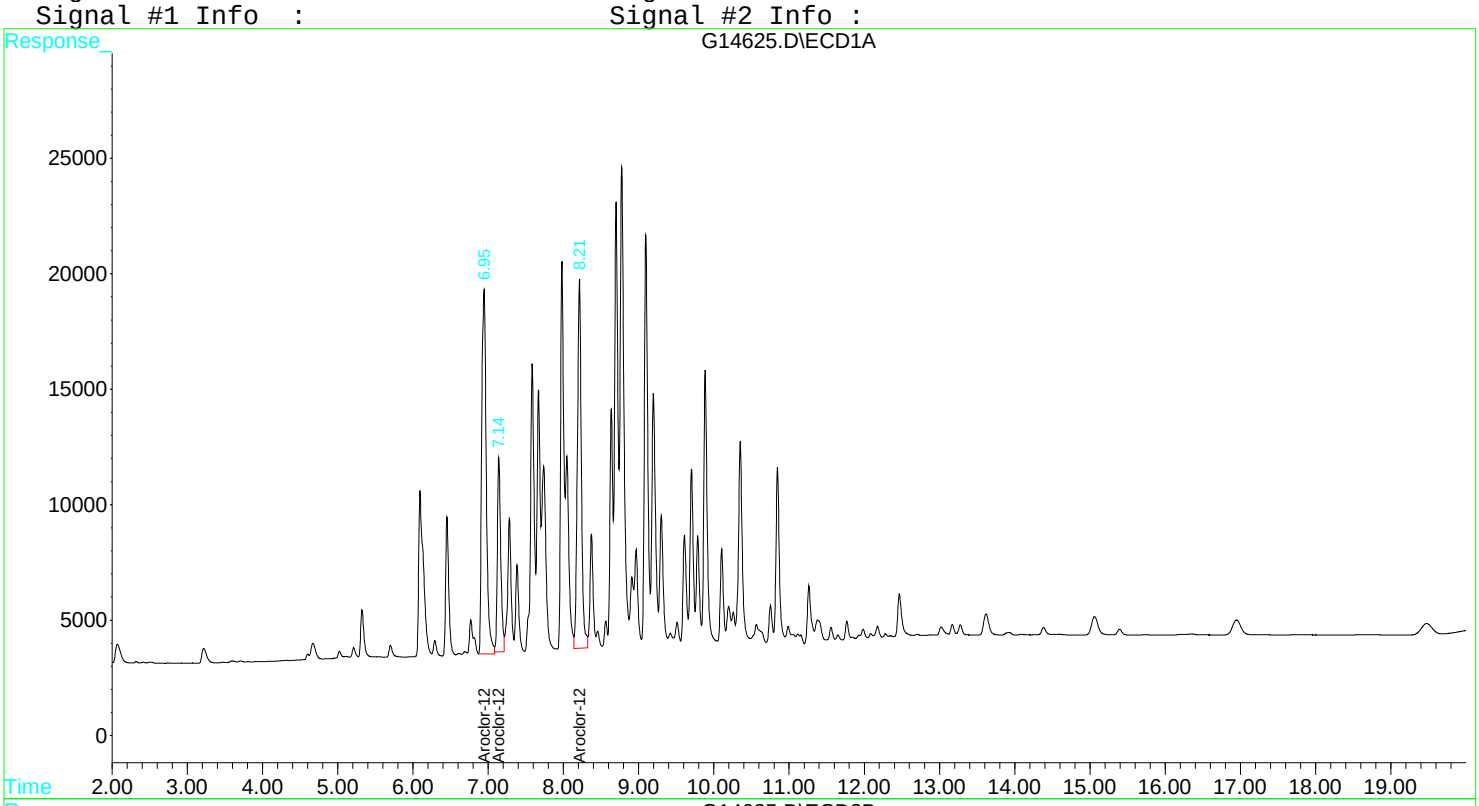
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

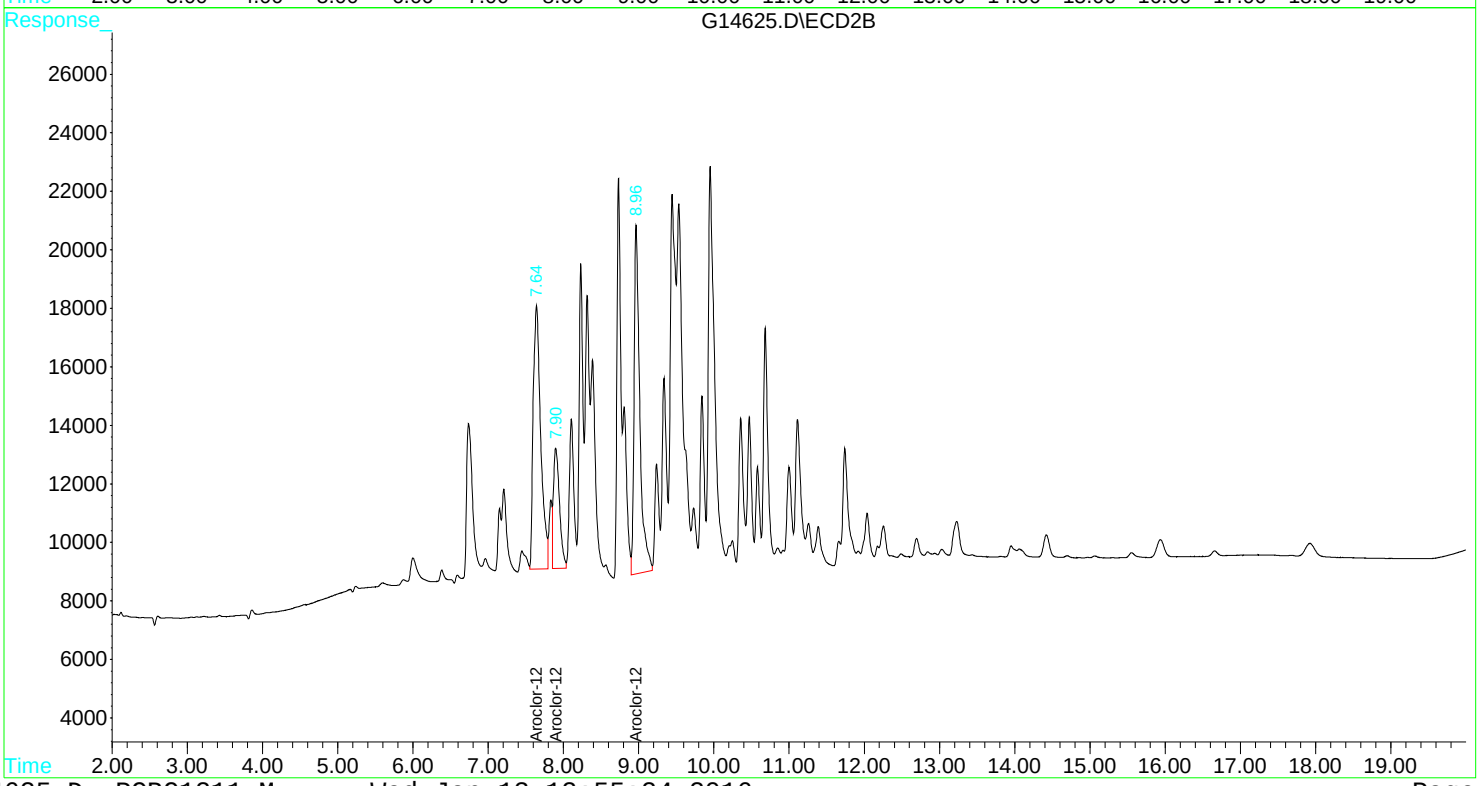
Quantitation Report (QT Reviewed)

Signal #1 : D:\G\DATA\DEC15\G1211\G14625.D\ECD1A.CH Vial: 26
Signal #2 : D:\G\DATA\DEC15\G1211\G14625.D\ECD2B.CH
Acq On : 12 Dec 2015 00:44 Operator: JAM
Sample : S5L1105-ARC4 Inst : GCECD_GH
Misc : A1248 1.0 PPM Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Dec 14 10:05 2015 Quant Results File: PCBG1211.RES

Quant Method : D:\G\METHODS\PCBG1211.M (RTE Integrator)
Title : ACCREDITED ANALYTICAL RES. TCL PCBG 8082
Last Update : Mon Dec 14 09:55:35 2015
Response via : Multiple Level Calibration
DataAcq Meth : PG81211.M

Volume Inj. :
Signal #1 Phase : Rtx-5 Signal #2 Phase: CLPestII
Signal #1 Info : Signal #2 Info :





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SEMIVOLATILES

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SEMIVOLATILES SAMPLE DATA

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ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/24/15 07:52	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 3550B GCMS	File ID:	E9636.D
Prep Batch:	B5L2403	Sequence:	S5L2803	Analyzed:	12/28/15 15:48
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	46.7	234	U
108-95-2	Phenol	ND	46.7	234	U
111-44-4	bis(2-chloroethyl)ether	ND	46.7	234	U
95-57-8	2-Chlorophenol	ND	46.7	234	U
541-73-1	1,3-Dichlorobenzene	ND	46.7	234	U
106-46-7	1,4-Dichlorobenzene	ND	46.7	234	U
100-51-6	Benzyl alcohol	ND	46.7	234	U
95-50-1	1,2-Dichlorobenzene	ND	46.7	234	U
95-48-7	2-Methylphenol	ND	46.7	234	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	46.7	234	U
106-44-5	3 & 4-Methylphenol	ND	46.7	234	U
621-64-7	N-Nitroso-di-n-propylamine	ND	46.7	234	U
67-72-1	Hexachloroethane	ND	46.7	234	U
98-95-3	Nitrobenzene	ND	46.7	234	U
78-59-1	Isophorone	ND	46.7	234	U
88-75-5	2-Nitrophenol	ND	46.7	234	U
105-67-9	2,4-Dimethylphenol	ND	46.7	234	U
65-85-0	Benzoic acid	ND	116	467	U
111-91-1	bis(2-chloroethoxy)methane	ND	46.7	234	U
120-83-2	2,4-Dichlorophenol	ND	46.7	234	U
120-82-1	1,2,4-Trichlorobenzene	ND	46.7	234	U
91-20-3	Naphthalene	ND	46.7	234	U
106-47-8	4-Chloroaniline	ND	46.7	234	U
87-68-3	Hexachlorobutadiene	ND	46.7	234	U
59-50-7	4-Chloro-3-methylphenol	ND	46.7	234	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

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Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/24/15 07:52	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 3550B GCMS	File ID:	E9636.D
Prep Batch:	B5L2403	Sequence:	S5L2803	Analyzed:	12/28/15 15:48
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	ND	46.7	234	U
77-47-4	Hexachlorocyclopentadiene	ND	46.7	234	U
88-06-2	2,4,6-Trichlorophenol	ND	46.7	234	U
95-95-4	2,4,5-Trichlorophenol	ND	46.7	234	U
91-58-7	2-Chloronaphthalene	ND	46.7	234	U
88-74-4	2-Nitroaniline	ND	46.7	234	U
131-11-3	Dimethylphthalate	ND	46.7	234	U
208-96-8	Acenaphthylene	ND	46.7	234	U
99-09-2	3-Nitroaniline	ND	46.7	234	U
83-32-9	Acenaphthene	ND	46.7	234	U
51-28-5	2,4-Dinitrophenol	ND	46.7	467	U
100-02-7	4-Nitrophenol	ND	46.7	234	U
132-64-9	Dibenzofuran	ND	46.7	234	U
606-20-2	2,6-Dinitrotoluene	ND	46.7	234	U
121-14-2	2,4-Dinitrotoluene	ND	46.7	234	U
84-66-2	Diethyl phthalate	ND	46.7	234	U
7005-72-3	4-Chlorophenyl-phenylether	ND	46.7	234	U
86-73-7	Fluorene	ND	46.7	234	U
100-01-6	4-Nitroaniline	ND	46.7	234	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	46.7	234	U
86-30-6	N-Nitrosodiphenylamine	ND	46.7	234	U
101-55-3	4-Bromophenyl-phenylether	ND	46.7	234	U
118-74-1	Hexachlorobenzene	ND	46.7	234	U
87-86-5	Pentachlorophenol	ND	46.7	234	U
85-01-8	Phenanthrene	462	46.7	234	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/24/15 07:52	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 3550B GCMS	File ID:	E9636.D
Prep Batch:	B5L2403	Sequence:	S5L2803	Analyzed:	12/28/15 15:48
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
120-12-7	Anthracene	81.8	46.7	234	J
84-74-2	Di-n-butyl phthalate	ND	46.7	234	U
206-44-0	Fluoranthene	581	46.7	234	
129-00-0	Pyrene	531	46.7	234	
85-68-7	Butylbenzylphthalate	ND	46.7	234	U
91-94-1	3,3'-Dichlorobenzidine	ND	116	234	U
56-55-3	Benzo[a]anthracene	238	46.7	234	
117-81-7	bis(2-ethylhexyl)phthalate	ND	46.7	234	U
218-01-9	Chrysene	285	46.7	234	
117-84-0	Di-n-octyl phthalate	ND	46.7	234	U
205-99-2	Benzo[b]fluoranthene	223	46.7	234	J
207-08-9	Benzo[k]fluoranthene	200	46.7	234	J
50-32-8	Benzo[a]pyrene	219	46.7	234	J
193-39-5	Indeno(1,2,3-cd)pyrene	113	46.7	234	J
53-70-3	Dibenzo(a,h)anthracene	47.7	46.7	234	J
191-24-2	Benzo[ghi]perylene	115	46.7	234	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	57%	30-130
Phenol-d5	66%	30-130
Nitrobenzene-d5	64%	30-130
2-Fluorobiphenyl	62%	30-130
2,4,6-Tribromophenol	85%	30-130
Terphenyl-d14	83%	30-130

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* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1228\E9636.D Vial: 2
Acq On : 28 Dec 2015 15:48 Operator: JMM
Sample : 1502323-01 Inst : GC/MS E
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 9:07 2015 Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Mon Dec 14 12:20:50 2015
Response via : Initial Calibration
DataAcq Meth : SVE81208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.62	152	233809	40.00	ul/l	-0.17
21) Naphthalene-d8	13.84	136	941338	40.00	ul/l	-0.18
37) Acenaphthene-d10	18.40	164	440251	40.00	ul/l	-0.20
61) Phenanthrene-d10	22.17	188	779829	40.00	ul/l	-0.20
75) Chrysene-d12	29.00	240	800841	40.00	ul/l	-0.21
84) Perylene-d12	32.40	264	693120	40.00	ul/l	-0.22
System Monitoring Compounds						
4) 2-Fluorophenol	7.68	112	604883	68.31	ul/l	-0.11
Spiked Amount 120.000	Range 30 - 130		Recovery = 56.93%			
7) Phenol-d5	10.03	99	1039034	79.55	ul/l	-0.12
Spiked Amount 120.000	Range 30 - 130		Recovery = 66.29%			
22) Nitrobenzene-d5	12.10	82	605134	63.83	ul/l	-0.17
Spiked Amount 100.000	Range 30 - 130		Recovery = 63.83%			
42) 2-Fluorobiphenyl	16.71	172	896288	61.76	ul/l	-0.19
Spiked Amount 100.000	Range 30 - 130		Recovery = 61.76%			
60) 2,4,6-Tribromophenol	20.45	330	275133	102.12	ul/l	-0.20
Spiked Amount 120.000	Range 30 - 130		Recovery = 85.10%			
78) Terphenyl-d14	26.36	244	1277909	83.43	ul/l	-0.18
Spiked Amount 100.000	Range 30 - 130		Recovery = 83.43%			

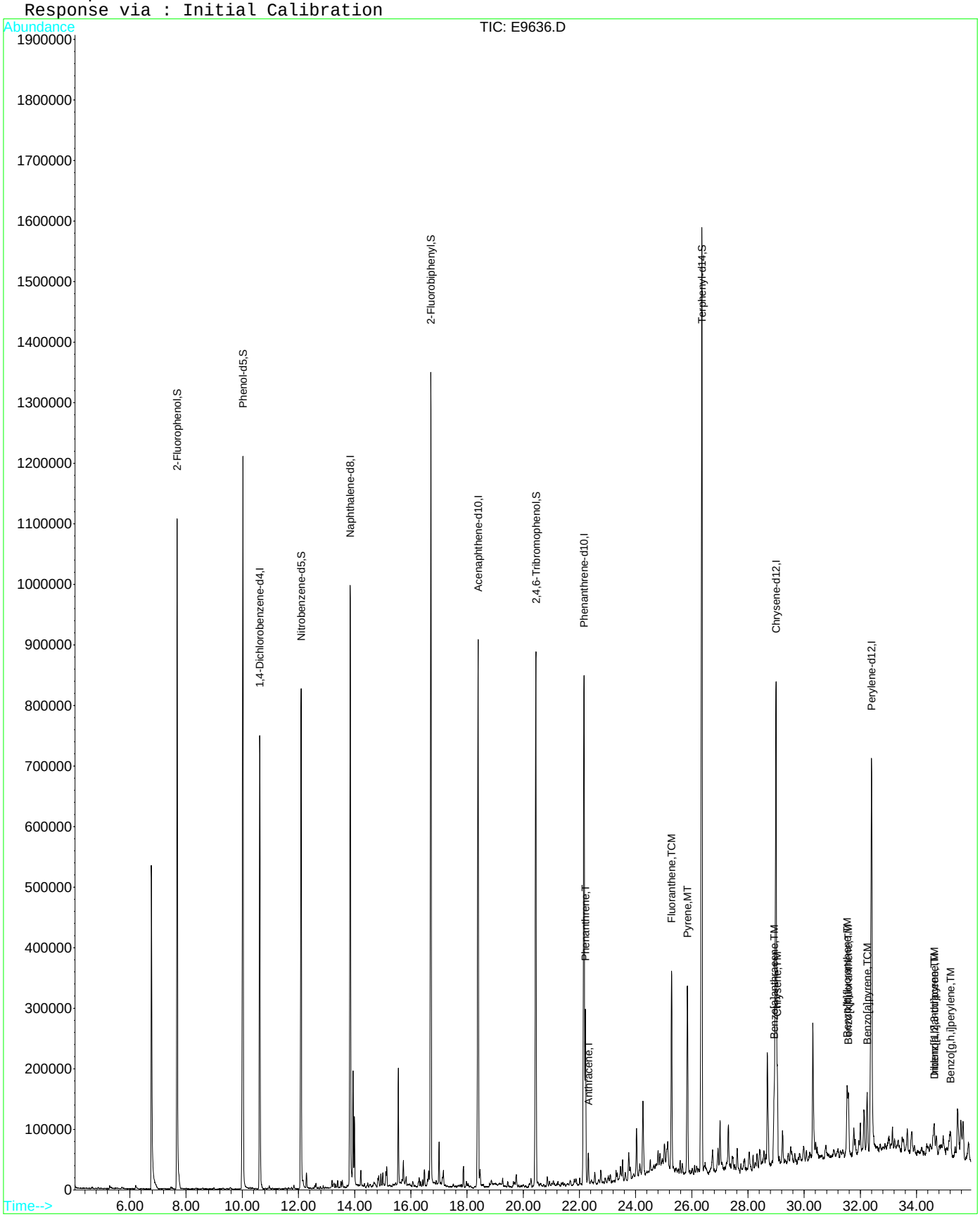
Target Compounds						Qvalue
71) Phenanthrene	22.21	178	225757	9.89	ul/l	98
72) Anthracene	22.32	178	40065	1.75	ul/l	92
74) Fluoranthene	25.28	202	300979	12.43	ul/l	97
77) Pyrene	25.84	202	256136	11.36	ul/l	97
81) Benzo[a]anthracene	28.93	228	117498	5.09	ul/l	92
83) Chrysene	29.04	228	123790	6.09	ul/l	96
86) Benzo[b]fluoranthene	31.53	252	99216	4.78	ul/l	89
87) Benzo[k]fluoranthene	31.57	252	83410m	4.28	ul/l	
88) Benzo[a]pyrene	32.24	252	92601	4.68	ul/l	94
89) Indeno[1,2,3-cd]pyrene	34.63	276	52347	2.42	ul/l	70
90) Dibenz[a,h]anthracene	34.64	278	18801m	1.02	ul/l	
91) Benzo[g,h,i]perylene	35.21	276	42774	2.46	ul/l	88

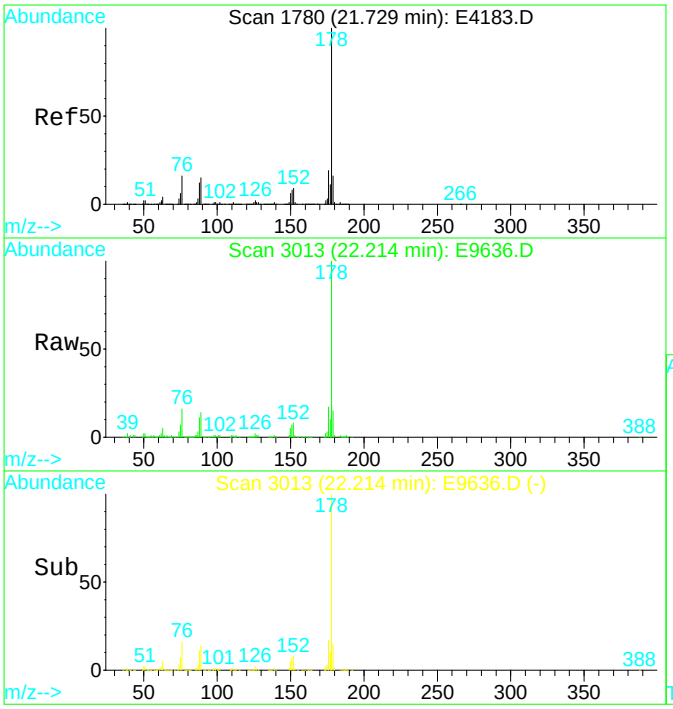
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\E\DATA15\DEC15\E1228\E9636.D Vial: 2
Acq On : 28 Dec 2015 15:48 Operator: JMM
Sample : 1502323-01 Inst : GC/MS E
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 9:07 2015 Quant Results File: SVE81208.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Thu Jan 07 09:10:48 2016
Response via : Initial Calibration

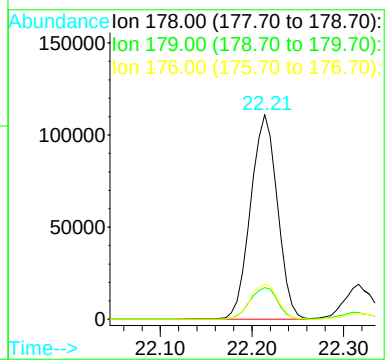


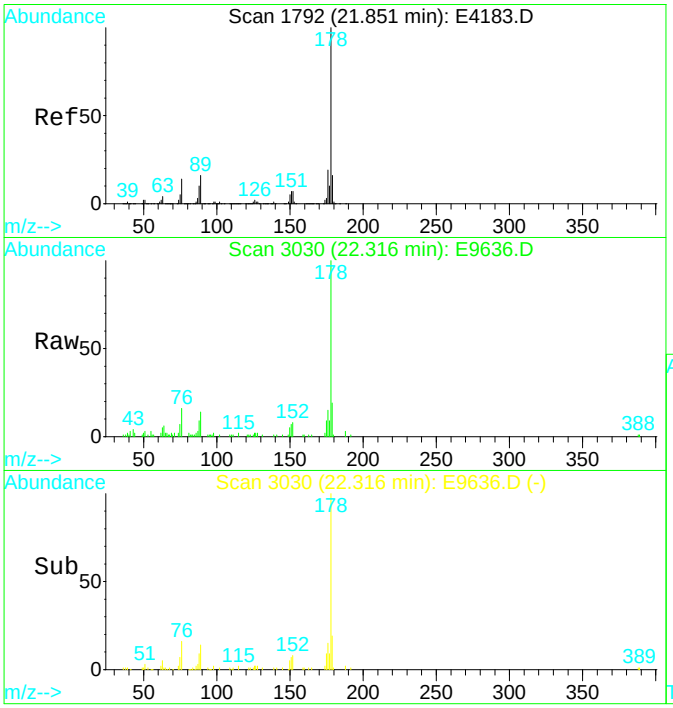


#71
Phenanthrene
Concen: 9.89 ul/l
RT: 22.21 min Scan# 3013
Delta R.T. -0.21 min
Lab File: E9636.D
Acq: 28 Dec 2015 15:48

Tgt Ion:178 Resp: 225757

Ion	Ratio	Lower	Upper
178	100		
179	16.0	8.2	24.4
176	17.5	9.7	28.9

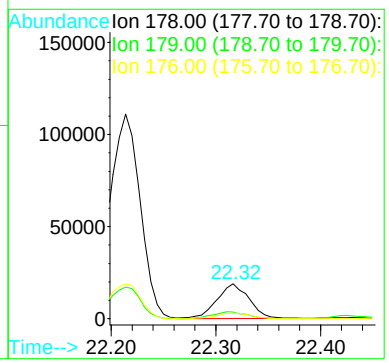


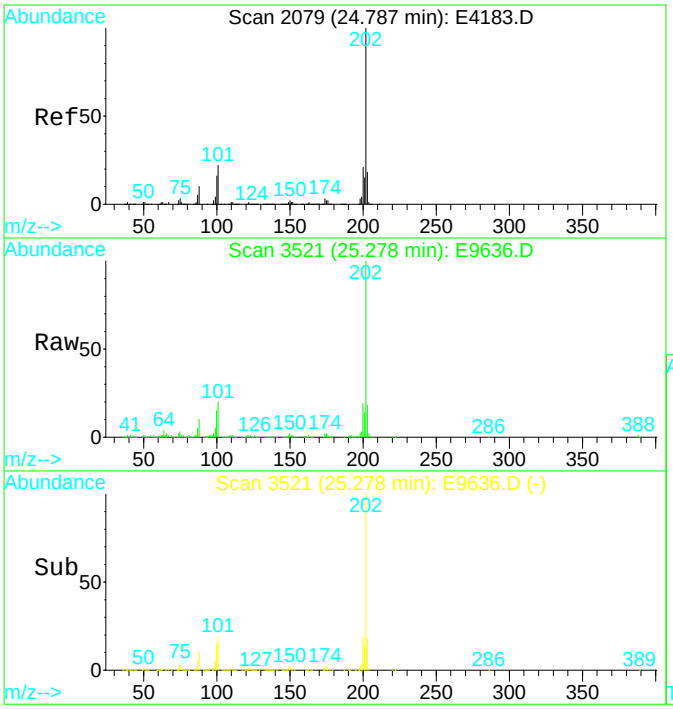


#72
Anthracene
Concen: 1.75 ul/l
RT: 22.32 min Scan# 3030
Delta R.T. -0.23 min
Lab File: E9636.D
Acq: 28 Dec 2015 15:48

Tgt Ion:178 Resp: 40065

Ion	Ratio	Lower	Upper
178	100		
179	21.8	8.2	24.6
176	17.3	9.5	28.5

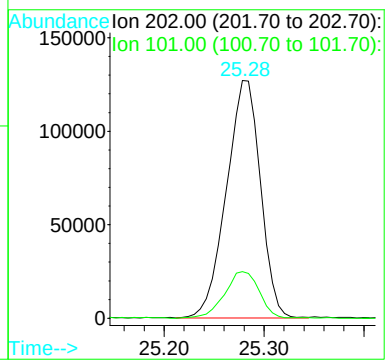


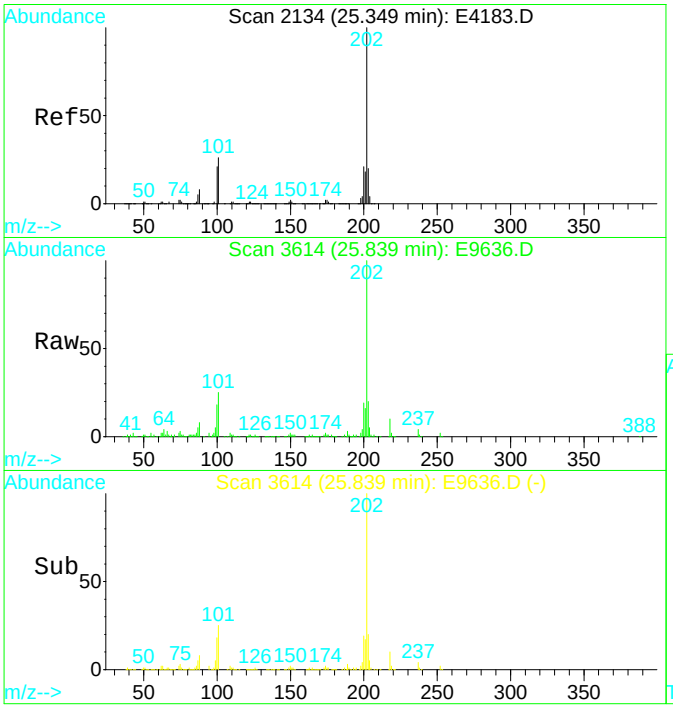


#74
Fluoranthene
Concen: 12.43 ul/l
RT: 25.28 min Scan# 3521
Delta R.T. -0.22 min
Lab File: E9636.D
Acq: 28 Dec 2015 15:48

Tgt Ion:202 Resp: 300979

Ion	Ratio	Lower	Upper
202	100		
101	20.1	10.9	32.6

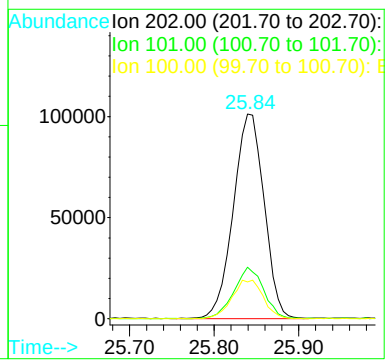


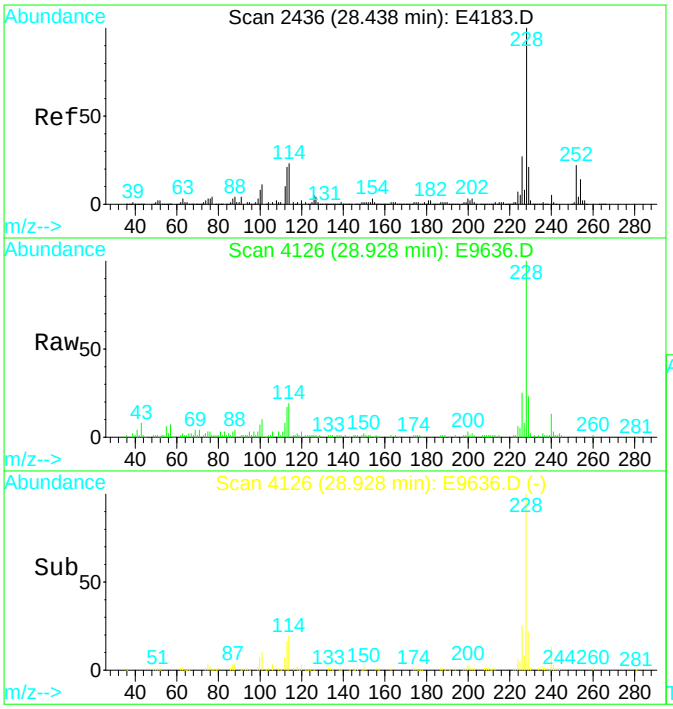


#77
Pyrene
Concen: 11.36 ul/l
RT: 25.84 min Scan# 3614
Delta R.T. -0.23 min
Lab File: E9636.D
Acq: 28 Dec 2015 15:48

Tgt Ion:202 Resp: 256136

Ion	Ratio	Lower	Upper
202	100		
101	24.4	13.0	38.9
100	19.2	10.4	31.4

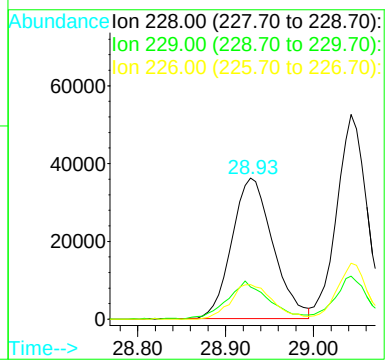


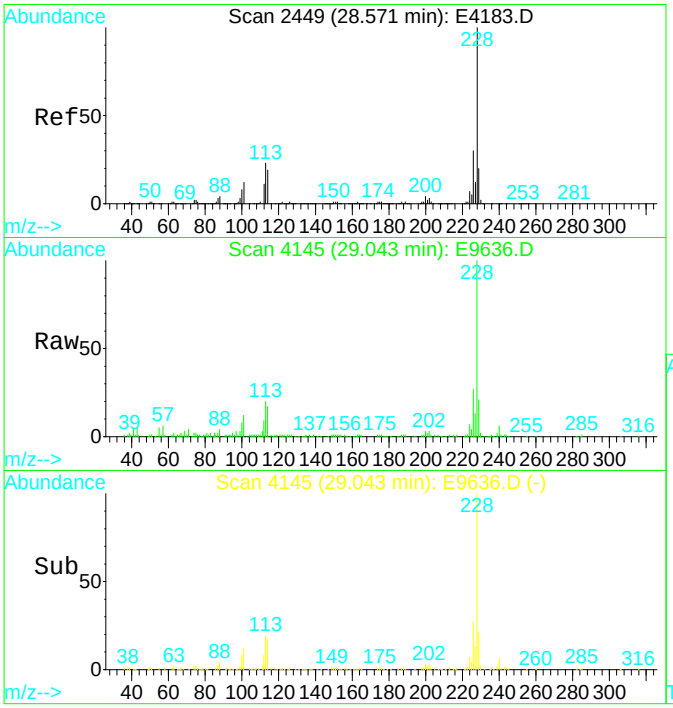


#81
Benzo[a]anthracene
Concen: 5.09 ul/l
RT: 28.93 min Scan# 4126
Delta R.T. -0.23 min
Lab File: E9636.D
Acq: 28 Dec 2015 15:48

Tgt Ion:228 Resp: 117498

Ion	Ratio	Lower	Upper
228	100		
229	27.4	10.4	31.1
226	25.5	13.7	41.0

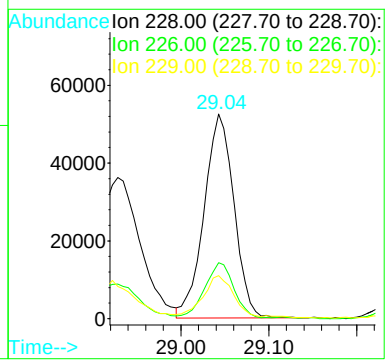


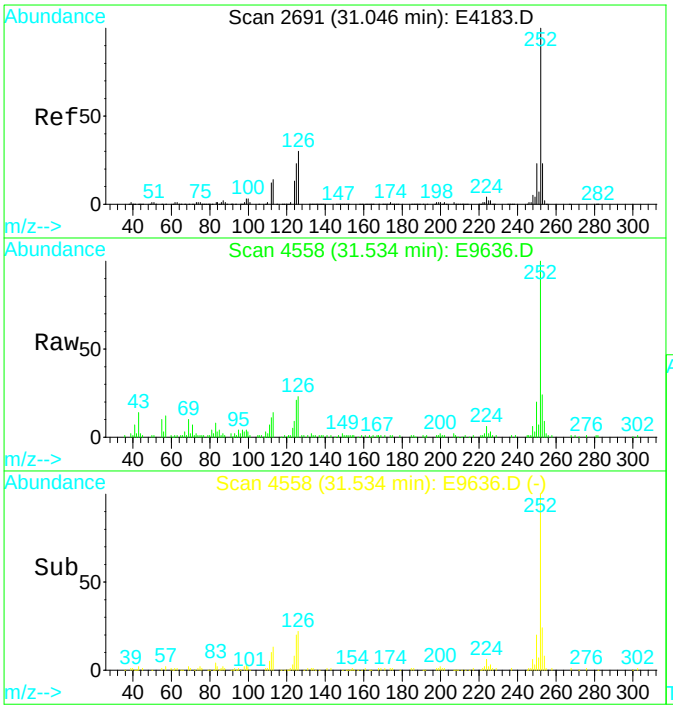


#83
Chrysene
Concen: 6.09 ul/l
RT: 29.04 min Scan# 4145
Delta R.T. -0.24 min
Lab File: E9636.D
Acq: 28 Dec 2015 15:48

Tgt Ion:228 Resp: 123790

Ion	Ratio	Lower	Upper
228	100		
226	26.3	15.0	45.1
229	20.2	10.2	30.6

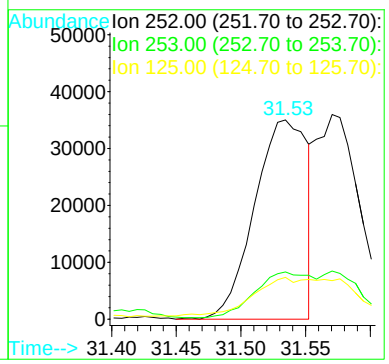


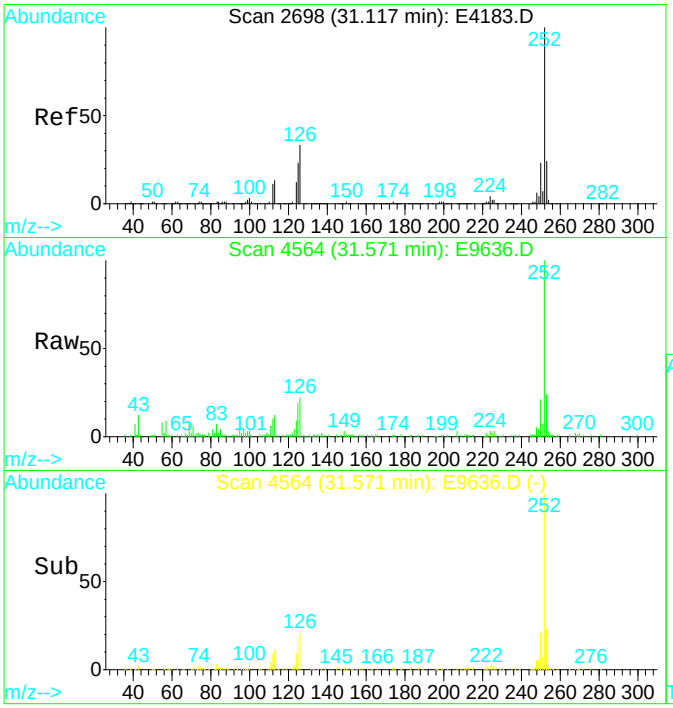


#86
Benzo[b]fluoranthene
Concen: 4.78 ul/l
RT: 31.53 min Scan# 4558
Delta R.T. -0.24 min
Lab File: E9636.D
Acq: 28 Dec 2015 15:48

Tgt Ion:252 Resp: 99216

Ion	Ratio	Lower	Upper
252	100		
253	25.3	11.5	34.4
125	15.0	11.5	34.4

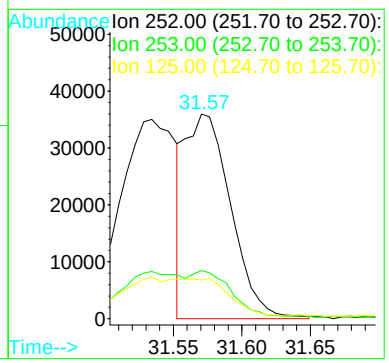


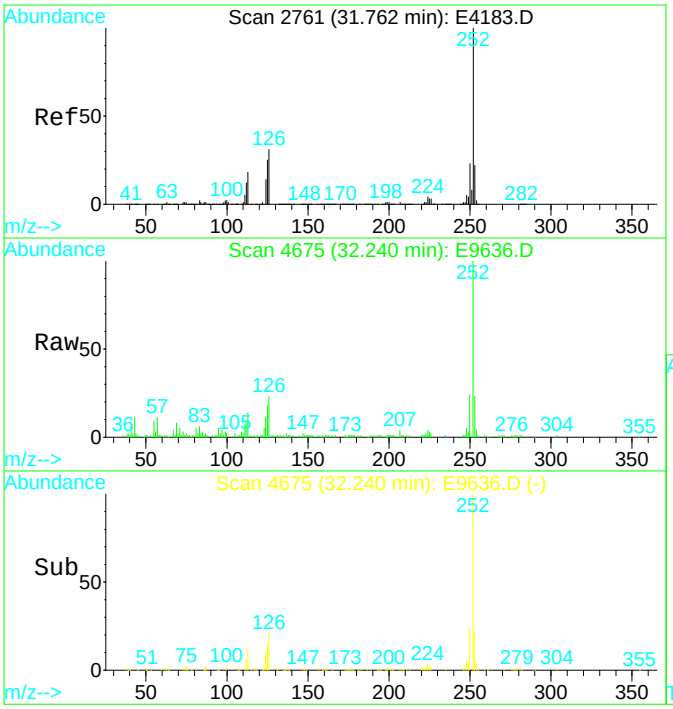


#87
Benzo[k]fluoranthene
Concen: 4.28 ul/l m
RT: 31.57 min Scan# 4564
Delta R.T. -0.27 min
Lab File: E9636.D
Acq: 28 Dec 2015 15:48

Tgt Ion:252 Resp: 83410

Ion	Ratio	Lower	Upper
252	100		
253	30.1	11.8	35.4
125	17.8	11.7	35.0

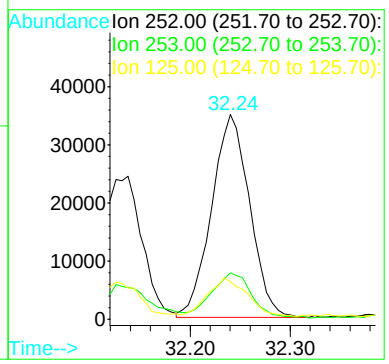


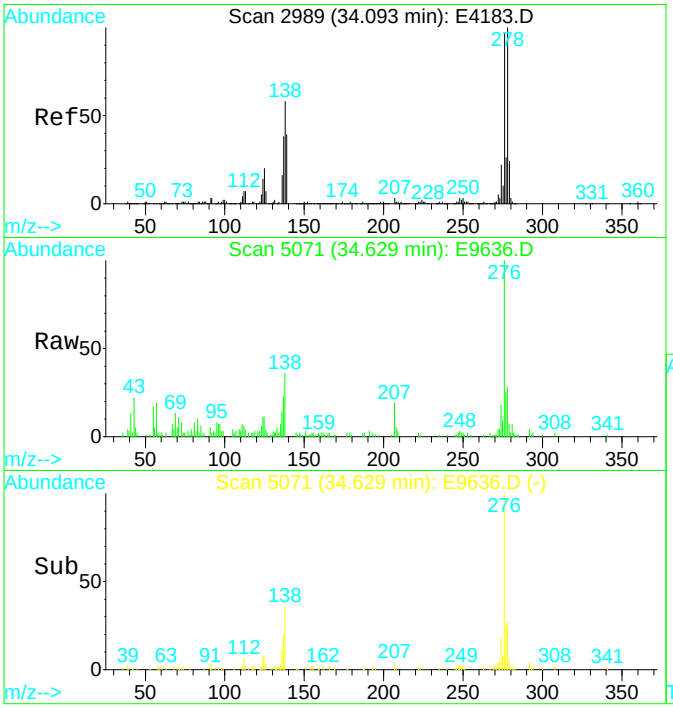


#88
Benzo[a]pyrene
Concen: 4.68 ul/l
RT: 32.24 min Scan# 4675
Delta R.T. -0.26 min
Lab File: E9636.D
Acq: 28 Dec 2015 15:48

Tgt Ion:252 Resp: 92601

Ion	Ratio	Lower	Upper
252	100		
253	23.0	11.3	33.8
125	19.4	12.4	37.0

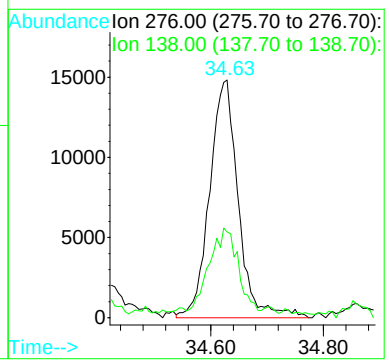


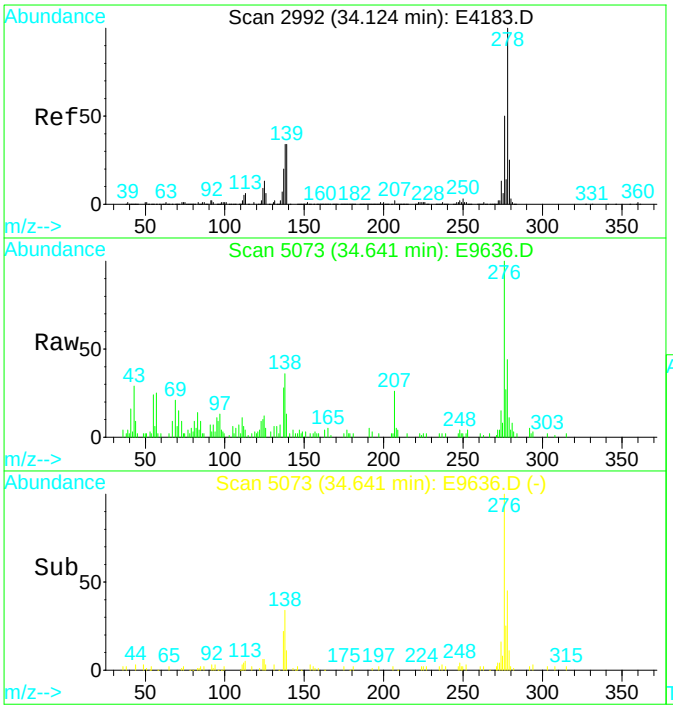


#89
Indeno[1,2,3-cd]pyrene
Concen: 2.42 ul/l
RT: 34.63 min Scan# 5071
Delta R.T. -0.33 min
Lab File: E9636.D
Acq: 28 Dec 2015 15:48

Tgt Ion:276 Resp: 52347

Ion	Ratio	Lower	Upper
276	100		
138	36.9	29.9	89.7

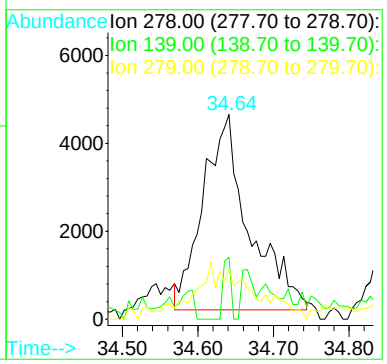


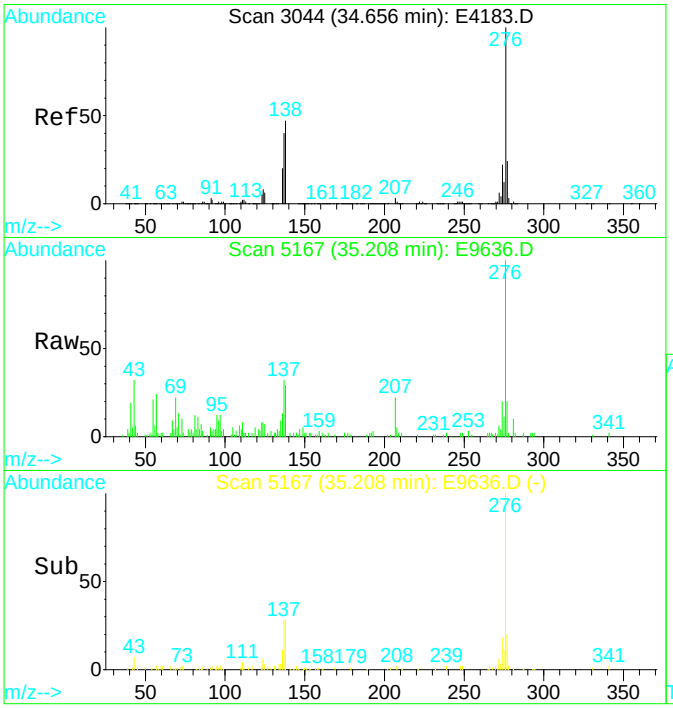


#90
Dibenz[a,h]anthracene
Concen: 1.02 ul/l m
RT: 34.64 min Scan# 5073
Delta R.T. -0.34 min
Lab File: E9636.D
Acq: 28 Dec 2015 15:48

Tgt Ion:278 Resp: 18801

Ion	Ratio	Lower	Upper
278	100		
139	10.6	17.0	51.0#
279	7.5	12.7	38.0#

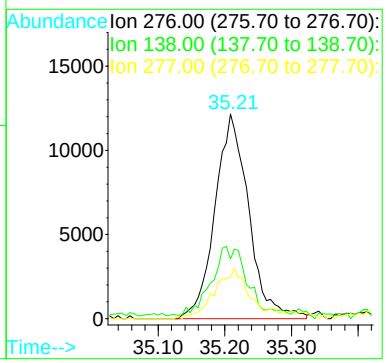




#91
Benzo[g,h,i]perylene
Concen: 2.46 ul/l
RT: 35.21 min Scan# 5167
Delta R.T. -0.37 min
Lab File: E9636.D
Acq: 28 Dec 2015 15:48

Tgt Ion:276 Resp: 42774

Ion	Ratio	Lower	Upper
276	100		
138	35.2	23.4	70.3
277	24.3	12.2	36.4



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SEMIVOLATILES QC DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2403-BLK1	File ID:	E9652.D
Batch:	B5L2403	Prepared:	12/24/15 07:52	Analyzed:	12/29/15 10:58
Column:	1	Preparation:	EPA 3550B GCMS	Dilution:	
		Sequence:	S5L2909	Instrument:	GC/MS E

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	33.3	167	U
108-95-2	Phenol	ND	33.3	167	U
111-44-4	bis(2-chloroethyl)ether	ND	33.3	167	U
95-57-8	2-Chlorophenol	ND	33.3	167	U
541-73-1	1,3-Dichlorobenzene	ND	33.3	167	U
106-46-7	1,4-Dichlorobenzene	ND	33.3	167	U
100-51-6	Benzyl alcohol	ND	33.3	167	U
95-50-1	1,2-Dichlorobenzene	ND	33.3	167	U
95-48-7	2-Methylphenol	ND	33.3	167	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	33.3	167	U
106-44-5	3 & 4-Methylphenol	ND	33.3	167	U
621-64-7	N-Nitroso-di-n-propylamine	ND	33.3	167	U
67-72-1	Hexachloroethane	ND	33.3	167	U
98-95-3	Nitrobenzene	ND	33.3	167	U
78-59-1	Isophorone	ND	33.3	167	U
88-75-5	2-Nitrophenol	ND	33.3	167	U
105-67-9	2,4-Dimethylphenol	ND	33.3	167	U
65-85-0	Benzoic acid	ND	83.0	333	U
111-91-1	bis(2-chloroethoxy)methane	ND	33.3	167	U
120-83-2	2,4-Dichlorophenol	ND	33.3	167	U
120-82-1	1,2,4-Trichlorobenzene	ND	33.3	167	U
91-20-3	Naphthalene	ND	33.3	167	U
106-47-8	4-Chloroaniline	ND	33.3	167	U
87-68-3	Hexachlorobutadiene	ND	33.3	167	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2403-BLK1	File ID:	E9652.D
Batch:	B5L2403	Prepared:	12/24/15 07:52	Analyzed:	12/29/15 10:58
Column:	1	Preparation:	EPA 3550B GCMS	Dilution:	
		Sequence:	S5L2909	Instrument:	GC/MS E

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
59-50-7	4-Chloro-3-methylphenol	ND	33.3	167	U
91-57-6	2-Methylnaphthylene	ND	33.3	167	U
77-47-4	Hexachlorocyclopentadiene	ND	33.3	167	U
88-06-2	2,4,6-Trichlorophenol	ND	33.3	167	U
95-95-4	2,4,5-Trichlorophenol	ND	33.3	167	U
91-58-7	2-Chloronaphthalene	ND	33.3	167	U
88-74-4	2-Nitroaniline	ND	33.3	167	U
131-11-3	Dimethylphthalate	ND	33.3	167	U
208-96-8	Acenaphthylene	ND	33.3	167	U
99-09-2	3-Nitroaniline	ND	33.3	167	U
83-32-9	Acenaphthene	ND	33.3	167	U
51-28-5	2,4-Dinitrophenol	ND	33.3	333	U
100-02-7	4-Nitrophenol	ND	33.3	167	U
132-64-9	Dibenzofuran	ND	33.3	167	U
606-20-2	2,6-Dinitrotoluene	ND	33.3	167	U
121-14-2	2,4-Dinitrotoluene	ND	33.3	167	U
84-66-2	Diethyl phthalate	ND	33.3	167	U
7005-72-3	4-Chlorophenyl-phenylether	ND	33.3	167	U
86-73-7	Fluorene	ND	33.3	167	U
100-01-6	4-Nitroaniline	ND	33.3	167	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	33.3	167	U
86-30-6	N-Nitrosodiphenylamine	ND	33.3	167	U
101-55-3	4-Bromophenyl-phenylether	ND	33.3	167	U
118-74-1	Hexachlorobenzene	ND	33.3	167	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2403-BLK1	File ID:	E9652.D
Batch:	B5L2403	Prepared:	12/24/15 07:52	Analyzed:	12/29/15 10:58
Column:	1	Preparation:	EPA 3550B GCMS	Dilution:	
		Sequence:	S5L2909	Instrument:	GC/MS E

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
87-86-5	Pentachlorophenol	ND	33.3	167	U
85-01-8	Phenanthrene	ND	33.3	167	U
120-12-7	Anthracene	ND	33.3	167	U
84-74-2	Di-n-butyl phthalate	ND	33.3	167	U
206-44-0	Fluoranthene	ND	33.3	167	U
129-00-0	Pyrene	ND	33.3	167	U
85-68-7	Butylbenzylphthalate	ND	33.3	167	U
91-94-1	3,3'-Dichlorobenzidine	ND	83.0	167	U
56-55-3	Benzo[a]anthracene	ND	33.3	167	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	33.3	167	U
218-01-9	Chrysene	ND	33.3	167	U
117-84-0	Di-n-octyl phthalate	ND	33.3	167	U
205-99-2	Benzo[b]fluoranthene	ND	33.3	167	U
207-08-9	Benzo[k]fluoranthene	ND	33.3	167	U
50-32-8	Benzo[a]pyrene	ND	33.3	167	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33.3	167	U
53-70-3	Dibenzo(a,h)anthracene	ND	33.3	167	U
191-24-2	Benzo[ghi]perylene	ND	33.3	167	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	77%	30-130
Phenol-d5	83%	30-130
Nitrobenzene-d5	90%	30-130
2-Fluorobiphenyl	91%	30-130
2,4,6-Tribromophenol	92%	30-130
Terphenyl-d14	115%	30-130

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* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT/LSC Reviewed)

Data File : D:\E\DATA15\DEC15\E1229\E9652.D Vial: 1
Acq On : 29 Dec 2015 10:58 Operator: JMM
Sample : B5L2403-BLK1 Inst : GC/MS E
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:47 2015 Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Mon Dec 14 12:20:50 2015
Response via : Initial Calibration
DataAcq Meth : SVE81208

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.66	152	285131	40.00 ul/l	-0.12
21) Naphthalene-d8	13.88	136	1115461	40.00 ul/l	-0.15
37) Acenaphthene-d10	18.43	164	463810	40.00 ul/l	-0.16
61) Phenanthrene-d10	22.20	188	790227	40.00 ul/l	-0.16
75) Chrysene-d12	29.03	240	721280	40.00 ul/l	-0.18
84) Perylene-d12	32.44	264	622513	40.00 ul/l	-0.18

System Monitoring Compounds

4) 2-Fluorophenol	7.74	112	995709	92.21 ul/l	-0.05
Spiked Amount 120.000	Range 30 - 130		Recovery = 76.84%		
7) Phenol-d5	10.07	99	1579060	99.14 ul/l	-0.08
Spiked Amount 120.000	Range 30 - 130		Recovery = 82.62%		
22) Nitrobenzene-d5	12.14	82	1007862	89.72 ul/l	-0.13
Spiked Amount 100.000	Range 30 - 130		Recovery = 89.72%		
42) 2-Fluorobiphenyl	16.76	172	1384892	90.59 ul/l	-0.14
Spiked Amount 100.000	Range 30 - 130		Recovery = 90.59%		
60) 2,4,6-Tribromophenol	20.49	330	314540	110.81 ul/l	-0.16
Spiked Amount 120.000	Range 30 - 130		Recovery = 92.34%		
78) Terphenyl-d14	26.41	244	1592202	115.41 ul/l	-0.13
Spiked Amount 100.000	Range 30 - 130		Recovery = 115.41%		

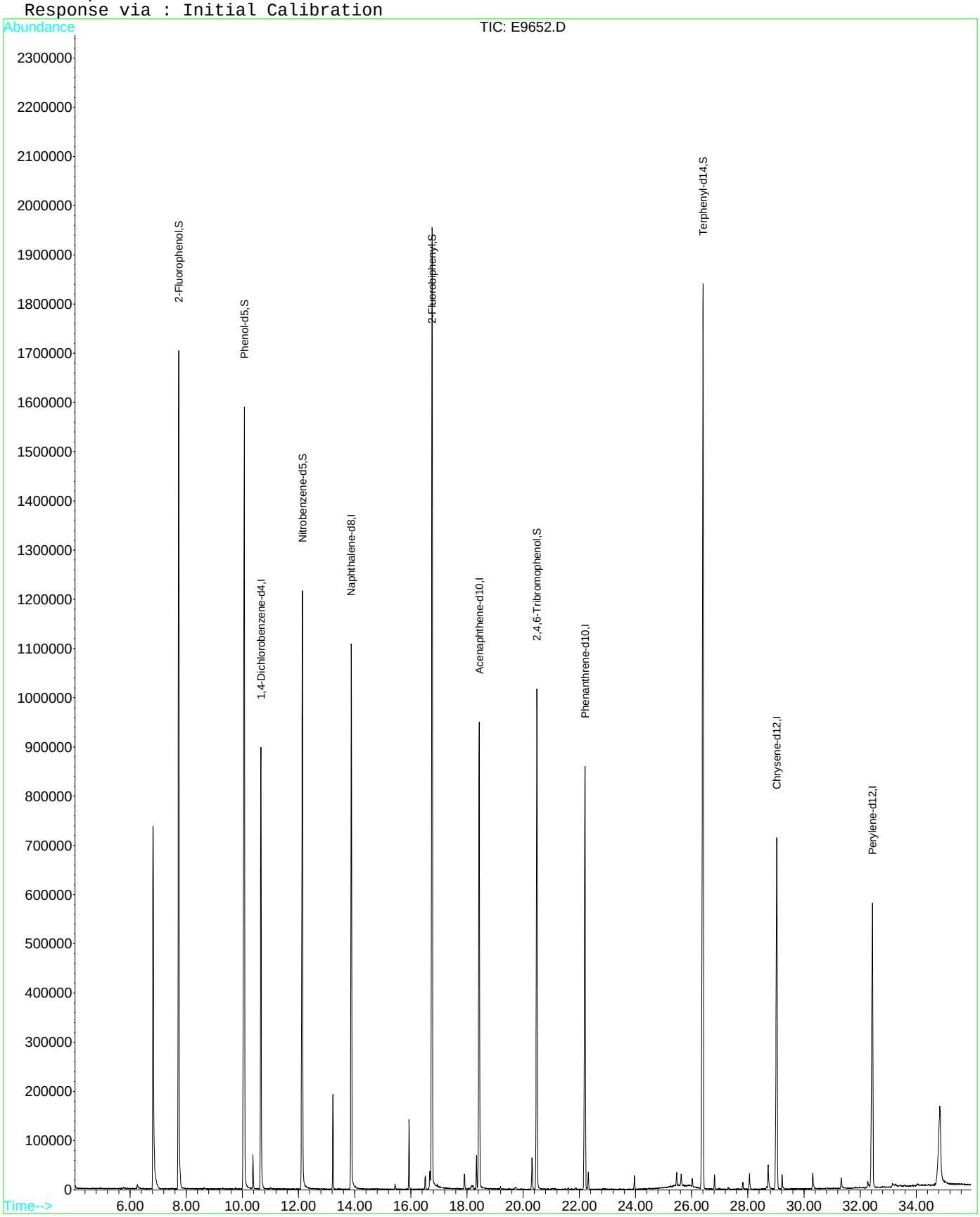
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\E\DATA15\DEC15\E1229\E9652.D Vial: 1
Acq On : 29 Dec 2015 10:58 Operator: JMM
Sample : B5L2403-BLK1 Inst : GC/MS E
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:47 2015 Quant Results File: SVE81208.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Mon Dec 14 12:20:50 2015
Response via : Initial Calibration



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SEMIVOLATILES QC SUMMARY

SYSTEM MONITORING COMPOUND SUMMARY

EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix: Solid
Instrument: GC/MS E

Lab Sample ID:	2FP (30% - 130%)	FBP (30% - 130%)	NBZ (30% - 130%)	PHL (30% - 130%)	TBP (30% - 130%)	TPH (30% - 130%)
1502323-01	57	62	64	66	85	83
B5L2403-BLK1	77	91	90	83	92	115
B5L2403-BS1	82	90	92	90	114	112
B5L2403-MS1	65	77	75	73	112	112
B5L2403-MSD1	73	80	79	82	115	106

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5L2403	Prep Method:	EPA 3550B GCMS
Percent Solids:	93.00	Laboratory ID:	B5L2403-MS1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Pyridine	1790	ND	873	49		20 - 160
N-Nitrosodimethylamine	1790	ND	930	52		20 - 160
Aniline	1790	ND	877	49		20 - 160
Phenol	1790	ND	1140	64		20 - 160
bis(2-chloroethyl)ether	1790	ND	1070	60	*	70 - 130
2-Chlorophenol	1790	ND	1140	63	*	70 - 130
1,3-Dichlorobenzene	1790	ND	1130	63	*	70 - 130
1,4-Dichlorobenzene	1790	ND	1100	62	*	70 - 130
Benzyl alcohol	1790	ND	1100	62		20 - 160
1,2-Dichlorobenzene	1790	ND	1130	63	*	70 - 130
2-Methylphenol	1790	ND	1160	65		20 - 160
bis(2-chloroisopropyl)ether	1790	ND	1080	60	*	70 - 130
3 & 4-Methylphenol	1790	ND	1170	65		20 - 160
N-Nitroso-di-n-propylamine	1790	ND	1100	61	*	70 - 130
Hexachloroethane	1790	ND	1090	61		20 - 160
Nitrobenzene	1790	ND	1210	68	*	70 - 130
Isophorone	1790	ND	1180	66	*	70 - 130
2-Nitrophenol	1790	ND	1220	68	*	70 - 130
2,4-Dimethylphenol	1790	ND	1290	72		70 - 130
bis(2-chloroethoxy)methane	1790	ND	1200	67	*	70 - 130
2,4-Dichlorophenol	1790	ND	1310	73		70 - 130
1,2,4-Trichlorobenzene	1790	ND	1270	71		70 - 130
Naphthalene	1790	ND	1220	68	*	70 - 130
4-Chloroaniline	1790	ND	463	26		20 - 160
Hexachlorobutadiene	1790	ND	1220	68	*	70 - 130
4-Chloro-3-methylphenol	1790	ND	1490	83		70 - 130
2-Methylnaphthylene	1790	ND	1260	70		70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5L2403	Prep Method:	EPA 3550B GCMS
Percent Solids:	93.00	Laboratory ID:	B5L2403-MS1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Hexachlorocyclopentadiene	1790	ND	865	48		20 - 160
2,4,6-Trichlorophenol	1790	ND	1450	81		70 - 130
2,4,5-Trichlorophenol	1790	ND	1510	84		70 - 130
2-Chloronaphthalene	1790	ND	1240	69	*	70 - 130
2-Nitroaniline	1790	ND	1510	84		70 - 130
Dimethylphthalate	1790	ND	1550	86		70 - 130
Acenaphthylene	1790	ND	1420	79		70 - 130
3-Nitroaniline	1790	ND	1130	63	*	70 - 130
Acenaphthene	1790	ND	1380	77		70 - 130
2,4-Dinitrophenol	1790	ND	1100	61		20 - 160
4-Nitrophenol	1790	ND	1740	97		20 - 160
Dibenzofuran	1790	ND	1540	86		70 - 130
2,6-Dinitrotoluene	1790	ND	1520	85		70 - 130
2,4-Dinitrotoluene	1790	ND	1640	91		70 - 130
2,3,4,6-Tetrachlorophenol	1790	ND	1580	88		70 - 130
Diethyl phthalate	1790	ND	1510	84		70 - 130
4-Chlorophenyl-phenylether	1790	ND	1460	82		70 - 130
Fluorene	1790	ND	1480	82		70 - 130
4-Nitroaniline	1790	ND	1530	85		70 - 130
4,6-Dinitro-2-methylphenol	1790	ND	1390	78		70 - 130
Carbazole	1790	ND	1640	92		70 - 130
N-Nitrosodiphenylamine	1790	ND	1610	90		20 - 160
Azobenzene	1790	ND	1600	89		70 - 130
4-Bromophenyl-phenylether	1790	ND	1670	93		70 - 130
Hexachlorobenzene	1790	ND	1690	94		70 - 130
Pentachlorophenol	1790	ND	1460	81		20 - 160
Phenanthrene	1790	403	1640	69	*	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5L2403	Prep Method:	EPA 3550B GCMS
Percent Solids:	93.00	Laboratory ID:	B5L2403-MS1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.		QC LIMITS REC.
Anthracene	1790	95.3	1590	83		70 - 130
Di-n-butyl phthalate	1790	ND	1550	86		70 - 130
Fluoranthene	1790	465	1650	66	*	70 - 130
Pyrene	1790	392	1850	81		70 - 130
Butylbenzylphthalate	1790	ND	1700	95		70 - 130
Benzo[a]anthracene	1790	215	1690	82		70 - 130
bis(2-ethylhexyl)phthalate	1790	ND	1890	106		70 - 130
Chrysene	1790	220	1860	92		70 - 130
Di-n-octyl phthalate	1790	ND	1710	96		70 - 130
Benzo[b]fluoranthene	1790	195	1820	91		70 - 130
Benzo[k]fluoranthene	1790	208	1740	86		70 - 130
Benzo[a]pyrene	1790	193	1810	90		70 - 130
Indeno(1,2,3-cd)pyrene	1790	103	1690	89		70 - 130
Dibenzo(a,h)anthracene	1790	51.3	1730	94		70 - 130
Benzo[ghi]perylene	1790	104	1680	88		70 - 130

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1229\E9657.D Vial: 6
Acq On : 29 Dec 2015 14:39 Operator: JMM
Sample : B5L2403-MS1 Inst : GC/MS E
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 16:52 2016 Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Wed Jan 06 09:13:41 2016
Response via : Initial Calibration
DataAcq Meth : SVE81208

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.66	152	291778	40.00 ul/l	-0.12
21) Naphthalene-d8	13.89	136	1203542	40.00 ul/l	-0.13
37) Acenaphthene-d10	18.45	164	560778	40.00 ul/l	-0.15
61) Phenanthrene-d10	22.22	188	922206	40.00 ul/l	-0.15
75) Chrysene-d12	29.06	240	910199	40.00 ul/l	-0.16
84) Perylene-d12	32.46	264	807626	40.00 ul/l	-0.16
System Monitoring Compounds					
4) 2-Fluorophenol	7.73	112	862034	78.01 ul/l	-0.05
Spiked Amount 120.000	Range 30 - 130		Recovery = 65.01%		
7) Phenol-d5	10.08	99	1424411	87.39 ul/l	-0.07
Spiked Amount 120.000	Range 30 - 130		Recovery = 72.82%		
22) Nitrobenzene-d5	12.15	82	905724	74.73 ul/l	-0.12
Spiked Amount 100.000	Range 30 - 130		Recovery = 74.73%		
42) 2-Fluorobiphenyl	16.77	172	1421805	76.92 ul/l	-0.13
Spiked Amount 100.000	Range 30 - 130		Recovery = 76.92%		
60) 2,4,6-Tribromophenol	20.52	330	459184	133.80 ul/l	-0.13
Spiked Amount 120.000	Range 30 - 130		Recovery = 111.50%		
78) Terphenyl-d14	26.41	244	1943946	111.66 ul/l	-0.13
Spiked Amount 100.000	Range 30 - 130		Recovery = 111.66%		

Target Compounds					Qvalue
2) Pyridine	4.33	79	294562	24.35 ul/l	95
3) N-Nitrosodimethylamine	4.40	74	262769	25.96 ul/l	96
6) Aniline	9.98	93	532266	24.48 ul/l	90
8) Phenol	10.11	94	566394	31.92 ul/l	90
9) bis(2-Chloroethyl)ether	10.18	93	463558	29.81 ul/l	96
10) 2-Chlorophenol	10.25	128	387144	31.68 ul/l	95
11) 1,3-Dichlorobenzene	10.57	146	368028	31.39 ul/l	99
12) 1,4-Dichlorobenzene	10.71	146	378005	30.80 ul/l	98
13) Benzyl alcohol	11.15	79	358242	30.79 ul/l	89
14) 1,2-Dichlorobenzene	11.16	146	377527	31.46 ul/l	98
15) 2-Methylphenol	11.53	108	398273	32.38 ul/l	100
16) bis(2-chloroisopropyl)ethe	11.54	45	956509	30.23 ul/l #	73
18) 3&4-Methylphenol	11.91	108	447972	32.53 ul/l	96
19) N-Nitroso-di-n-propylamine	11.91	70	379391	30.73 ul/l	90
20) Hexachloroethane	11.92	117	166203	30.31 ul/l	95
23) Nitrobenzene	12.19	77	466653	33.85 ul/l	92
24) Isophorone	12.80	82	965331	33.05 ul/l	99
25) 2-Nitrophenol	12.99	139	221361	34.16 ul/l	96
26) 2,4-Dimethylphenol	13.22	107	388347	35.86 ul/l	98
28) bis(2-Chloroethoxy)methane	13.44	93	556542	33.42 ul/l	97
29) 2,4-Dichlorophenol	13.63	162	308752	36.42 ul/l	98
30) 1,2,4-Trichlorobenzene	13.80	180	301526	35.39 ul/l	96
31) Naphthalene	13.95	128	1091602	34.11 ul/l	99
32) 4-Chloroaniline	14.17	127	187304	12.91 ul/l	98
33) Hexachlorobutadiene	14.45	225	155126	33.96 ul/l #	58
35) 4-Chloro-3-methylphenol	15.50	107	381032	41.44 ul/l	99
36) 2-Methylnaphthalene	15.72	142	742813	35.04 ul/l	94
39) Hexachlorocyclopentadiene	16.32	237	113026	24.12 ul/l	96
40) 2,4,6-Trichlorophenol	16.56	196	234441	40.32 ul/l	98
41) 2,4,5-Trichlorophenol	16.65	196	255687	42.06 ul/l	100
44) 2-Chloronaphthalene	16.96	162	674643	34.65 ul/l	97
45) 2-Nitroaniline	17.35	65	302850	42.16 ul/l	90
46) Dimethylphthalate	17.97	163	904772	43.25 ul/l	99
47) Acenaphthylene	18.04	152	1175304	39.64 ul/l	98
48) 3-Nitroaniline	18.45	138	223844	31.41 ul/l	97
49) Acenaphthene	18.54	153	711237	38.60 ul/l	99
50) 2,4-Dinitrophenol	18.69	184	88312	30.73 ul/l	98
51) 4-Nitrophenol	18.96	109	95356	48.61 ul/l #	1
52) Dibenzofuran	18.94	168	1063917	43.10 ul/l #	57
53) 2,6-Dinitrotoluene	18.11	165	224191	42.53 ul/l	97
54) 2,4-Dinitrotoluene	19.11	165	300307	45.70 ul/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1229\E9657.D Vial: 6
Acq On : 29 Dec 2015 14:39 Operator: JMM
Sample : B5L2403-MS1 Inst : GC/MS E
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 16:52 2016 Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Wed Jan 06 09:13:41 2016
Response via : Initial Calibration
DataAcq Meth : SVE81208

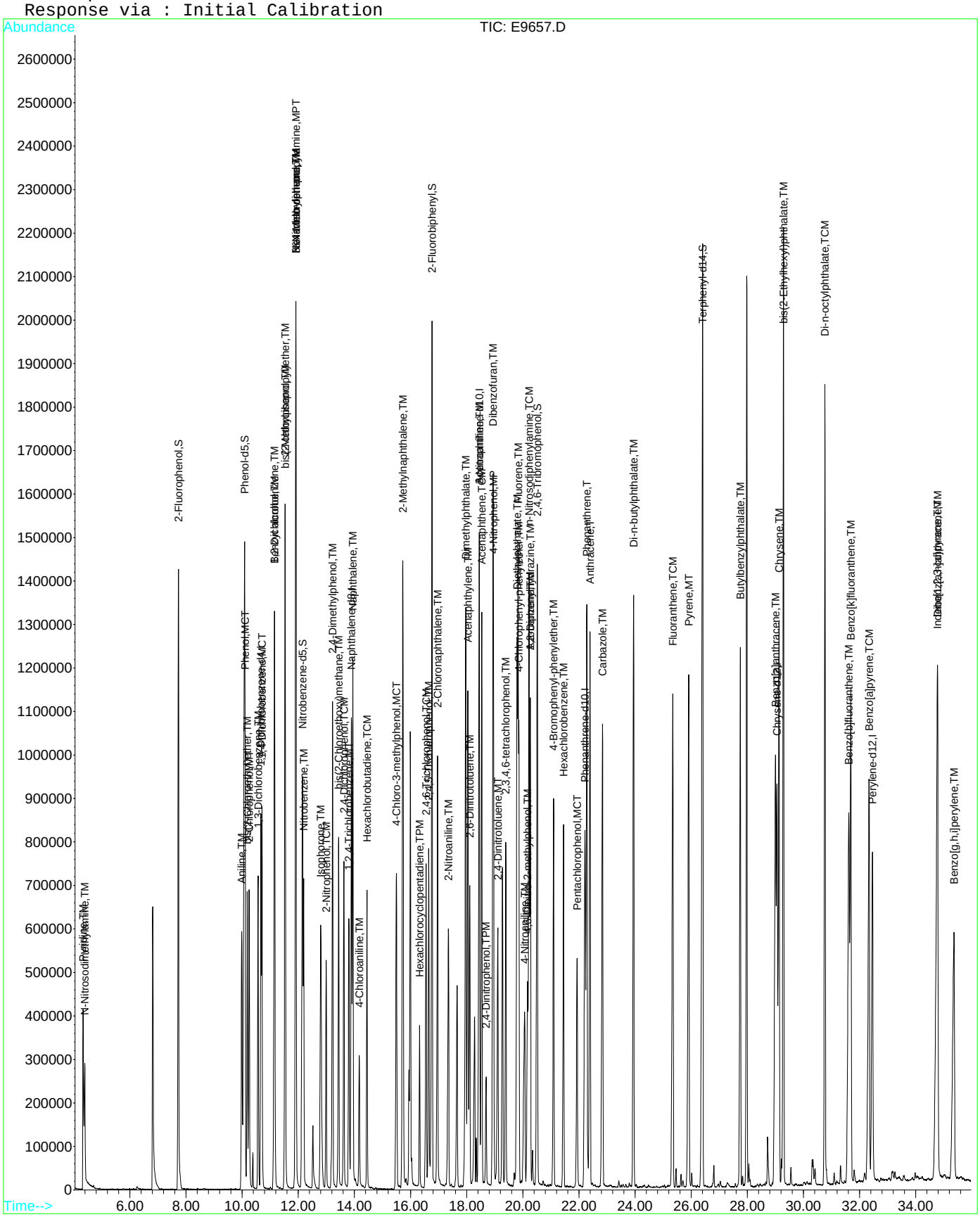
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
55)	2,3,4,6-tetrachlorophenol	19.39	232	234654	43.99 ul/l	96
56)	Diethylphthalate	19.79	149	935484	42.20 ul/l	100
57)	4-Chlorophenyl-phenylether	19.86	204	406497	40.78 ul/l	95
58)	Fluorene	19.83	166	901540	41.19 ul/l	97
59)	4-Nitroaniline	20.06	138	281916	42.63 ul/l	98
62)	4,6-Dinitro-2-methylphenol	20.17	198	173571	38.75 ul/l	96
63)	Carbazole	22.84	167	1182997	45.88 ul/l	99
64)	n-Nitrosodiphenylamine	20.22	169	763445	44.81 ul/l	98
65)	1,2-Diphenylhydrazine	20.27	77	1314370	44.67 ul/l	87
66)	Azobenzene	20.27	77	1314370	44.65 ul/l	87
67)	4-Bromophenyl-phenylether	21.10	248	255787	46.50 ul/l	96
68)	Hexachlorobenzene	21.45	284	293876	47.15 ul/l #	69
70)	Pentachlorophenol	21.93	266	165661	40.73 ul/l	98
71)	Phenanthrene	22.28	178	1235089	45.75 ul/l	98
72)	Anthracene	22.40	178	1203685	44.39 ul/l	98
73)	Di-n-butylphthalate	23.95	149	1589931	43.25 ul/l	99
74)	Fluoranthene	25.35	202	1314372	45.91 ul/l	96
77)	Pyrene	25.91	202	1321937	51.58 ul/l	96
79)	Butylbenzylphthalate	27.75	149	719218	47.48 ul/l	95
81)	Benzo[a]anthracene	29.00	228	1234808	47.10 ul/l	98
82)	bis(2-Ethylhexyl)phthalate	29.29	149	1123023	52.87 ul/l	97
83)	Chrysene	29.13	228	1202579	52.02 ul/l	97
85)	Di-n-octylphthalate	30.77	149	1731999	47.77 ul/l	98
86)	Benzo[b]fluoranthene	31.62	252	1231209	50.90 ul/l	93
87)	Benzo[k]fluoranthene	31.69	252	1103946	48.57 ul/l	92
88)	Benzo[a]pyrene	32.34	252	1164658	50.53 ul/l	93
89)	Indeno[1,2,3-cd]pyrene	34.76	276	1192116	47.25 ul/l	75
90)	Dibenz[a,h]anthracene	34.78	278	1034156	48.21 ul/l	89
91)	Benzo[g,h,i]perylene	35.36	276	949167	46.89 ul/l	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\E\DATA15\DEC15\E1229\E9657.D Vial: 6
Acq On : 29 Dec 2015 14:39 Operator: JMM
Sample : B5L2403-MS1 Inst : GC/MS E
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 16:52 2016 Quant Results File: SVE81208.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Wed Jan 06 09:13:41 2016
Response via : Initial Calibration



Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5L2403	Prep Method:	EPA 3550B GCMS
Percent Solids:	93.00	Laboratory ID:	B5L2403-MSD1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Pyridine	1790	905	50		4	30	20 - 160
N-Nitrosodimethylamine	1790	995	55		7	30	20 - 160
Aniline	1790	949	53		8	30	20 - 160
Phenol	1790	1270	71		11	30	20 - 160
bis(2-chloroethyl)ether	1790	1210	67	*	12	30	70 - 130
2-Chlorophenol	1790	1280	71		12	30	70 - 130
1,3-Dichlorobenzene	1790	1250	70		10	30	70 - 130
1,4-Dichlorobenzene	1790	1240	69	*	12	30	70 - 130
Benzyl alcohol	1790	1220	68		10	30	20 - 160
1,2-Dichlorobenzene	1790	1250	70		10	30	70 - 130
2-Methylphenol	1790	1290	72		11	30	20 - 160
bis(2-chloroisopropyl)ether	1790	1180	66	*	8	30	70 - 130
3 & 4-Methylphenol	1790	1310	73		12	30	20 - 160
N-Nitroso-di-n-propylamine	1790	1210	68	*	10	30	70 - 130
Hexachloroethane	1790	1210	67		11	30	20 - 160
Nitrobenzene	1790	1320	74		8	30	70 - 130
Isophorone	1790	1300	73		9	30	70 - 130
2-Nitrophenol	1790	1350	76		10	30	70 - 130
2,4-Dimethylphenol	1790	1450	81		12	30	70 - 130
bis(2-chloroethoxy)methane	1790	1320	73		9	30	70 - 130
2,4-Dichlorophenol	1790	1440	81		10	30	70 - 130
1,2,4-Trichlorobenzene	1790	1360	76		7	30	70 - 130
Naphthalene	1790	1340	75		9	30	70 - 130
4-Chloroaniline	1790	438	24		6	30	20 - 160
Hexachlorobutadiene	1790	1340	75		9	30	70 - 130
4-Chloro-3-methylphenol	1790	1520	85		2	30	70 - 130
2-Methylnaphthylene	1790	1380	77		9	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5L2403	Prep Method:	EPA 3550B GCMS
Percent Solids:	93.00	Laboratory ID:	B5L2403-MSD1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Hexachlorocyclopentadiene	1790	762	42		13	30	20 - 160
2,4,6-Trichlorophenol	1790	1530	85		6	30	70 - 130
2,4,5-Trichlorophenol	1790	1600	89		6	30	70 - 130
2-Chloronaphthalene	1790	1330	74		7	30	70 - 130
2-Nitroaniline	1790	1550	86		2	30	70 - 130
Dimethylphthalate	1790	1590	89		3	30	70 - 130
Acenaphthylene	1790	1480	83		4	30	70 - 130
3-Nitroaniline	1790	1110	62	*	2	30	70 - 130
Acenaphthene	1790	1540	86		11	30	70 - 130
2,4-Dinitrophenol	1790	1020	57		8	30	20 - 160
4-Nitrophenol	1790	1750	97		0.2	30	20 - 160
Dibenzofuran	1790	1630	91		5	30	70 - 130
2,6-Dinitrotoluene	1790	1570	88		3	30	70 - 130
2,4-Dinitrotoluene	1790	1660	93		1	30	70 - 130
2,3,4,6-Tetrachlorophenol	1790	1610	90		2	30	70 - 130
Diethyl phthalate	1790	1520	85		0.8	30	70 - 130
4-Chlorophenyl-phenylether	1790	1490	83		2	30	70 - 130
Fluorene	1790	1560	87		6	30	70 - 130
4-Nitroaniline	1790	1540	86		0.8	30	70 - 130
4,6-Dinitro-2-methylphenol	1790	1290	72		7	30	70 - 130
Carbazole	1790	1720	96		4	30	70 - 130
N-Nitrosodiphenylamine	1790	1650	92		2	30	20 - 160
Azobenzene	1790	1660	92		3	30	70 - 130
4-Bromophenyl-phenylether	1790	1710	95		2	30	70 - 130
Hexachlorobenzene	1790	1700	95		0.7	30	70 - 130
Pentachlorophenol	1790	1510	84		3	30	20 - 160
Phenanthrene	1790	2050	92		22	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8270
Prep Batch:	B5L2403	Prep Method:	EPA 3550B GCMS
Percent Solids:	93.00	Laboratory ID:	B5L2403-MSD1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Anthracene	1790	1740	92	9	30	70 - 130
Di-n-butyl phthalate	1790	1560	87	0.6	30	70 - 130
Fluoranthene	1790	2100	91	24	30	70 - 130
Pyrene	1790	2270	105	20	30	70 - 130
Butylbenzylphthalate	1790	1690	94	0.8	30	70 - 130
Benzo[a]anthracene	1790	1950	97	15	30	70 - 130
bis(2-ethylhexyl)phthalate	1790	1730	97	9	30	70 - 130
Chrysene	1790	2140	107	14	30	70 - 130
Di-n-octyl phthalate	1790	1790	100	4	30	70 - 130
Benzo[b]fluoranthene	1790	2090	106	13	30	70 - 130
Benzo[k]fluoranthene	1790	1830	91	5	30	70 - 130
Benzo[a]pyrene	1790	2080	105	14	30	70 - 130
Indeno(1,2,3-cd)pyrene	1790	1570	82	8	30	70 - 130
Dibenzo(a,h)anthracene	1790	1590	86	8	30	70 - 130
Benzo[ghi]perylene	1790	1430	74	16	30	70 - 130

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1229\E9658.D Vial: 7
Acq On : 29 Dec 2015 15:23 Operator: JMM
Sample : B5L2403-MSD1 Inst : GC/MS E
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 16:55 2016 Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Wed Jan 06 09:13:41 2016
Response via : Initial Calibration
DataAcq Meth : SVE81208

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.66	152	303386	40.00 ul/l	-0.12
21) Naphthalene-d8	13.89	136	1242104	40.00 ul/l	-0.13
37) Acenaphthene-d10	18.45	164	565275	40.00 ul/l	-0.15
61) Phenanthrene-d10	22.21	188	912836	40.00 ul/l	-0.15
75) Chrysene-d12	29.06	240	923724	40.00 ul/l	-0.15
84) Perylene-d12	32.47	264	776446	40.00 ul/l	-0.15

System Monitoring Compounds					
4) 2-Fluorophenol	7.73	112	1009954	87.90 ul/l	-0.06
Spiked Amount 120.000	Range 30 - 130		Recovery = 73.25%		
7) Phenol-d5	10.08	99	1670463	98.57 ul/l	-0.07
Spiked Amount 120.000	Range 30 - 130		Recovery = 82.14%		
22) Nitrobenzene-d5	12.15	82	982847	78.57 ul/l	-0.12
Spiked Amount 100.000	Range 30 - 130		Recovery = 78.57%		
42) 2-Fluorobiphenyl	16.77	172	1491972	80.07 ul/l	-0.13
Spiked Amount 100.000	Range 30 - 130		Recovery = 80.07%		
60) 2,4,6-Tribromophenol	20.52	330	479274	138.54 ul/l	-0.13
Spiked Amount 120.000	Range 30 - 130		Recovery = 115.45%		
78) Terphenyl-d14	26.40	244	1870091	105.85 ul/l	-0.13
Spiked Amount 100.000	Range 30 - 130		Recovery = 105.85%		

Target Compounds					Qvalue
2) Pyridine	4.32	79	317483	25.24 ul/l	95
3) N-Nitrosodimethylamine	4.38	74	292073	27.75 ul/l	96
6) Aniline	9.98	93	598687	26.48 ul/l	91
8) Phenol	10.11	94	655238	35.51 ul/l	91
9) bis(2-Chloroethyl)ether	10.18	93	544637	33.68 ul/l	98
10) 2-Chlorophenol	10.25	128	452227	35.59 ul/l	95
11) 1,3-Dichlorobenzene	10.57	146	424036	34.78 ul/l	98
12) 1,4-Dichlorobenzene	10.71	146	441494	34.59 ul/l	99
13) Benzyl alcohol	11.15	79	413069	34.15 ul/l	90
14) 1,2-Dichlorobenzene	11.16	146	435190	34.88 ul/l	98
15) 2-Methylphenol	11.53	108	461078	36.05 ul/l	100
16) bis(2-chloroisopropyl)ethe	11.54	45	1082737	32.91 ul/l #	73
18) 3&4-Methylphenol	11.91	108	524034	36.59 ul/l	96
19) N-Nitroso-di-n-propylamine	11.91	70	433893	33.80 ul/l	91
20) Hexachloroethane	11.91	117	192372	33.74 ul/l	93
23) Nitrobenzene	12.19	77	524031	36.83 ul/l	93
24) Isophorone	12.80	82	1095256	36.33 ul/l	99
25) 2-Nitrophenol	12.99	139	252777	37.80 ul/l	97
26) 2,4-Dimethylphenol	13.22	107	450602	40.32 ul/l	98
28) bis(2-Chloroethoxy)methane	13.44	93	631383	36.73 ul/l	97
29) 2,4-Dichlorophenol	13.63	162	352346	40.27 ul/l	98
30) 1,2,4-Trichlorobenzene	13.80	180	332842	37.86 ul/l	99
31) Naphthalene	13.94	128	1232831	37.33 ul/l	99
32) 4-Chloroaniline	14.17	127	182851	12.21 ul/l	98
33) Hexachlorobutadiene	14.45	225	175857	37.30 ul/l #	57
35) 4-Chloro-3-methylphenol	15.50	107	402510	42.41 ul/l	99
36) 2-Methylnaphthalene	15.72	142	839485	38.37 ul/l	94
39) Hexachlorocyclopentadiene	16.32	237	100356	21.25 ul/l	95
40) 2,4,6-Trichlorophenol	16.56	196	249734	42.61 ul/l	98
41) 2,4,5-Trichlorophenol	16.65	196	273602	44.65 ul/l	98
44) 2-Chloronaphthalene	16.96	162	728605	37.13 ul/l	98
45) 2-Nitroaniline	17.35	65	312633	43.17 ul/l	90
46) Dimethylphthalate	17.97	163	936709	44.42 ul/l	99
47) Acenaphthylene	18.04	152	1233219	41.26 ul/l	98
48) 3-Nitroaniline	18.44	138	221491	30.84 ul/l	99
49) Acenaphthene	18.54	153	796507	42.88 ul/l	99
50) 2,4-Dinitrophenol	18.69	184	80011	28.32 ul/l	98
51) 4-Nitrophenol	18.96	109	96335	48.72 ul/l #	1
52) Dibenzofuran	18.94	168	1131986	45.50 ul/l #	59
53) 2,6-Dinitrotoluene	18.11	165	233263	43.90 ul/l	98
54) 2,4-Dinitrotoluene	19.11	165	306948	46.34 ul/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1229\E9658.D Vial: 7
Acq On : 29 Dec 2015 15:23 Operator: JMM
Sample : B5L2403-MSD1 Inst : GC/MS E
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 16:55 2016 Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Wed Jan 06 09:13:41 2016
Response via : Initial Calibration
DataAcq Meth : SVE81208

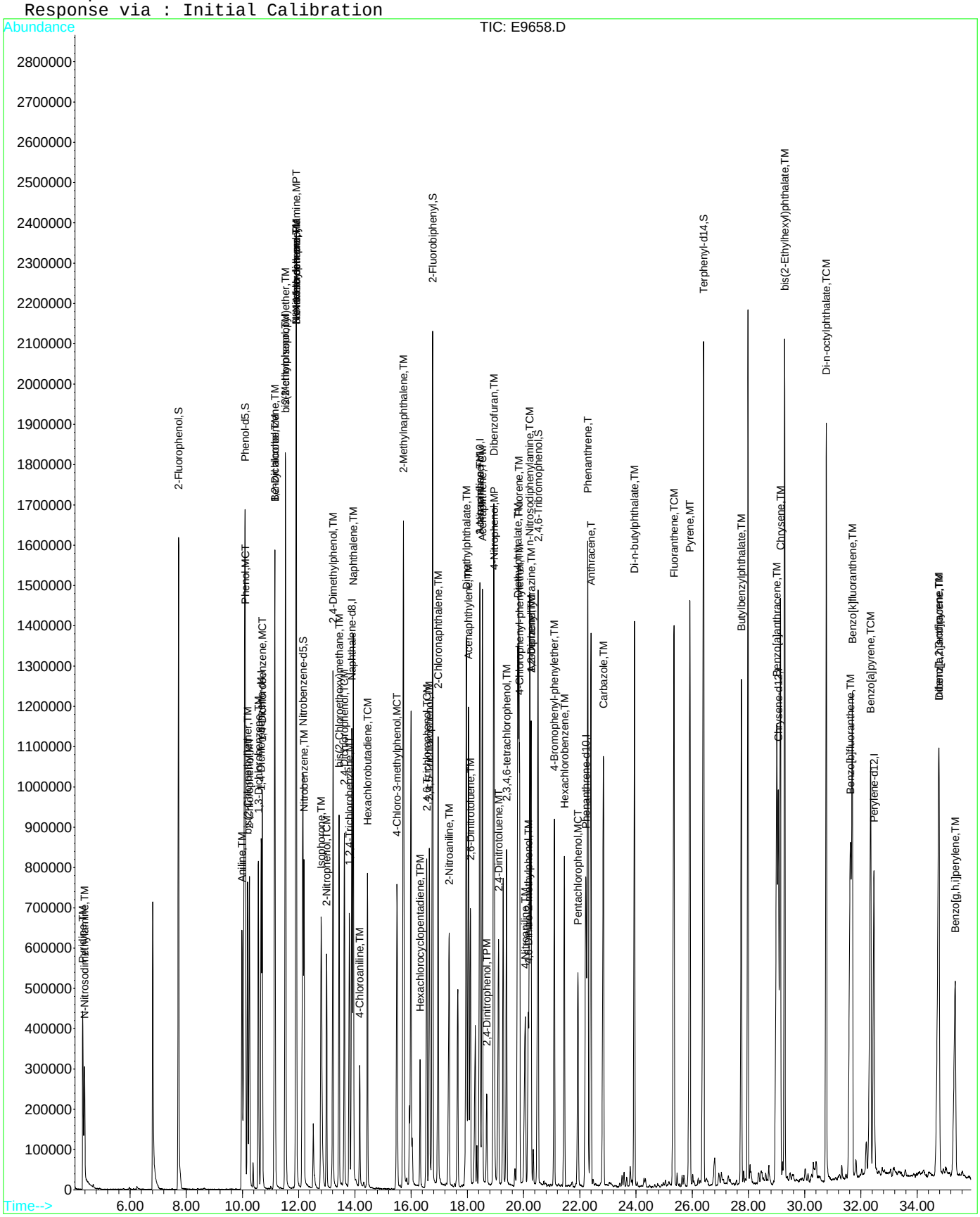
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
55)	2,3,4,6-tetrachlorophenol	19.39	232	241350	44.89 ul/l	97
56)	Diethylphthalate	19.79	149	950026	42.52 ul/l	100
57)	4-Chlorophenyl-phenylether	19.86	204	418622	41.66 ul/l	94
58)	Fluorene	19.83	166	962532	43.63 ul/l	97
59)	4-Nitroaniline	20.06	138	286521	42.98 ul/l	97
62)	4,6-Dinitro-2-methylphenol	20.16	198	157533	36.06 ul/l	98
63)	Carbazole	22.84	167	1221674	47.86 ul/l	99
64)	n-Nitrosodiphenylamine	20.22	169	774226	45.91 ul/l	98
65)	1,2-Diphenylhydrazine	20.27	77	1346671	46.23 ul/l	87
66)	Azobenzene	20.27	77	1346671	46.22 ul/l	87
67)	4-Bromophenyl-phenylether	21.10	248	259341	47.64 ul/l	96
68)	Hexachlorobenzene	21.45	284	293078	47.50 ul/l #	71
70)	Pentachlorophenol	21.94	266	169720	42.16 ul/l	96
71)	Phenanthrene	22.28	178	1525014	57.07 ul/l	99
72)	Anthracene	22.40	178	1302092	48.51 ul/l	98
73)	Di-n-butylphthalate	23.95	149	1583796	43.52 ul/l	99
74)	Fluoranthene	25.35	202	1656768	58.47 ul/l	97
77)	Pyrene	25.92	202	1646940	63.32 ul/l	97
79)	Butylbenzylphthalate	27.75	149	724055	47.10 ul/l	95
81)	Benzo[a]anthracene	29.01	228	1450372	54.51 ul/l	98
82)	bis(2-Ethylhexyl)phthalate	29.29	149	1040300	48.26 ul/l	97
83)	Chrysene	29.14	228	1403081	59.81 ul/l	98
85)	Di-n-octylphthalate	30.77	149	1739899	49.91 ul/l	98
86)	Benzo[b]fluoranthene	31.63	252	1354683	58.25 ul/l	94
87)	Benzo[k]fluoranthene	31.69	252	1221263m	55.89 ul/l	
88)	Benzo[a]pyrene	32.34	252	1287673	58.11 ul/l	93
89)	Indeno[1,2,3-cd]pyrene	34.76	276	1059346	43.68 ul/l	75
90)	Dibenz[a,h]anthracene	34.78	278	916724	44.45 ul/l	90
91)	Benzo[g,h,i]perylene	35.36	276	775921	39.87 ul/l	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\E\DATA15\DEC15\E1229\E9658.D Vial: 7
Acq On : 29 Dec 2015 15:23 Operator: JMM
Sample : B5L2403-MSD1 Inst : GC/MS E
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 16:55 2016 Quant Results File: SVE81208.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Wed Jan 06 09:13:41 2016
Response via : Initial Calibration



Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5L2403	Lab Sample ID:	B5L2403-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.		QC LIMITS REC.
Pyridine	1670	1010	61		20 - 160
N-Nitrosodimethylamine	1670	1050	63		20 - 160
Aniline	1670	1000	60		20 - 160
Phenol	1670	1320	79		20 - 160
bis(2-chloroethyl)ether	1670	1230	74		70 - 130
2-Chlorophenol	1670	1330	80		70 - 130
1,3-Dichlorobenzene	1670	1280	77		70 - 130
1,4-Dichlorobenzene	1670	1280	77		70 - 130
Benzyl alcohol	1670	1290	78		20 - 160
1,2-Dichlorobenzene	1670	1310	78		70 - 130
2-Methylphenol	1670	1320	79		20 - 160
bis(2-chloroisopropyl)ether	1670	1230	74		70 - 130
3 & 4-Methylphenol	1670	1340	81		20 - 160
N-Nitroso-di-n-propylamine	1670	1290	77		70 - 130
Hexachloroethane	1670	1290	78		20 - 160
Nitrobenzene	1670	1390	83		70 - 130
Isophorone	1670	1330	80		70 - 130
2-Nitrophenol	1670	1410	84		70 - 130
2,4-Dimethylphenol	1670	1310	78		70 - 130
bis(2-chloroethoxy)methane	1670	1370	82		70 - 130
2,4-Dichlorophenol	1670	1440	86		70 - 130
1,2,4-Trichlorobenzene	1670	1410	85		70 - 130
Naphthalene	1670	1380	83		70 - 130
4-Chloroaniline	1670	424	25	*	70 - 130
Hexachlorobutadiene	1670	1380	83		70 - 130
4-Chloro-3-methylphenol	1670	1430	86		70 - 130
2-Methylnaphthylene	1670	1380	83		70 - 130
Hexachlorocyclopentadiene	1670	1230	74		20 - 160

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5L2403	Lab Sample ID:	B5L2403-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.		QC LIMITS REC.
2,4,6-Trichlorophenol	1670	1460	87		70 - 130
2,4,5-Trichlorophenol	1670	1470	88		70 - 130
2-Chloronaphthalene	1670	1320	79		70 - 130
2-Nitroaniline	1670	1480	89		70 - 130
Dimethylphthalate	1670	1530	92		70 - 130
Acenaphthylene	1670	1440	87		70 - 130
3-Nitroaniline	1670	1060	64	*	70 - 130
Acenaphthene	1670	1420	85		70 - 130
2,4-Dinitrophenol	1670	891	53		20 - 160
4-Nitrophenol	1670	1660	99		20 - 160
Dibenzofuran	1670	1540	92		70 - 130
2,6-Dinitrotoluene	1670	1500	90		70 - 130
2,4-Dinitrotoluene	1670	1600	96		70 - 130
2,3,4,6-Tetrachlorophenol	1670	1490	89		70 - 130
Diethyl phthalate	1670	1470	88		70 - 130
4-Chlorophenyl-phenylether	1670	1410	85		70 - 130
Fluorene	1670	1440	86		70 - 130
4-Nitroaniline	1670	1460	88		70 - 130
4,6-Dinitro-2-methylphenol	1670	1320	79		70 - 130
Carbazole	1670	1530	92		70 - 130
N-Nitrosodiphenylamine	1670	1510	90		20 - 160
Azobenzene	1670	1480	88		70 - 130
4-Bromophenyl-phenylether	1670	1590	96		70 - 130
Hexachlorobenzene	1670	1580	95		70 - 130
Pentachlorophenol	1670	1360	82		20 - 160
Phenanthrene	1670	1510	90		70 - 130
Anthracene	1670	1510	90		70 - 130
Di-n-butyl phthalate	1670	1470	88		70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Prep Method:	EPA 3550B GCMS
Prep Batch:	B5L2403	Lab Sample ID:	B5L2403-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Fluoranthene	1670	1450	87	70 - 130
Pyrene	1670	1650	99	70 - 130
Butylbenzylphthalate	1670	1640	98	70 - 130
Benzo[a]anthracene	1670	1580	95	70 - 130
bis(2-ethylhexyl)phthalate	1670	1630	98	70 - 130
Chrysene	1670	1720	104	70 - 130
Di-n-octyl phthalate	1670	1630	98	70 - 130
Benzo[b]fluoranthene	1670	1700	102	70 - 130
Benzo[k]fluoranthene	1670	1620	97	70 - 130
Benzo[a]pyrene	1670	1720	103	70 - 130
Indeno(1,2,3-cd)pyrene	1670	1760	106	70 - 130
Dibenzo(a,h)anthracene	1670	1780	107	70 - 130
Benzo[ghi]perylene	1670	1770	106	70 - 130

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1229\E9653.D Vial: 2
Acq On : 29 Dec 2015 11:42 Operator: JMM
Sample : B5L2403-BS1 Inst : GC/MS E
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 7 8:00 2016 Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Wed Jan 06 09:13:41 2016
Response via : Initial Calibration
DataAcq Meth : SVE81208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.67	152	292306	40.00	ul/l	-0.11
21) Naphthalene-d8	13.90	136	1198847	40.00	ul/l	-0.12
37) Acenaphthene-d10	18.46	164	540842	40.00	ul/l	-0.14
61) Phenanthrene-d10	22.22	188	900088	40.00	ul/l	-0.14
75) Chrysene-d12	29.06	240	877431	40.00	ul/l	-0.15
84) Perylene-d12	32.46	264	784411	40.00	ul/l	-0.15

System Monitoring Compounds						
4) 2-Fluorophenol	7.74	112	1083418	97.87	ul/l	-0.05
Spiked Amount 120.000	Range 30 - 130		Recovery = 81.56%			
7) Phenol-d5	10.09	99	1769175	108.35	ul/l	-0.06
Spiked Amount 120.000	Range 30 - 130		Recovery = 90.29%			
22) Nitrobenzene-d5	12.16	82	1113195	92.20	ul/l	-0.11
Spiked Amount 100.000	Range 30 - 130		Recovery = 92.20%			
42) 2-Fluorobiphenyl	16.78	172	1604112	89.98	ul/l	-0.12
Spiked Amount 100.000	Range 30 - 130		Recovery = 89.98%			
60) 2,4,6-Tribromophenol	20.52	330	454057	137.18	ul/l	-0.12
Spiked Amount 120.000	Range 30 - 130		Recovery = 114.32%			
78) Terphenyl-d14	26.41	244	1876233	111.80	ul/l	-0.12
Spiked Amount 100.000	Range 30 - 130		Recovery = 111.80%			

Target Compounds						Qvalue
2) Pyridine	4.34	79	368486	30.41	ul/l	95
3) N-Nitrosodimethylamine	4.41	74	320100	31.57	ul/l	95
5) Benzaldehyde	9.99	77	7665	5.01	ul/l #	1
6) Aniline	9.99	93	656590	30.14	ul/l	91
8) Phenol	10.12	94	704124	39.60	ul/l	90
9) bis(2-Chloroethyl)ether	10.19	93	576910	37.03	ul/l	98
10) 2-Chlorophenol	10.26	128	487229	39.80	ul/l	95
11) 1,3-Dichlorobenzene	10.57	146	451700	38.45	ul/l	98
12) 1,4-Dichlorobenzene	10.72	146	472774	38.45	ul/l	99
13) Benzyl alcohol	11.16	79	452338	38.81	ul/l	89
14) 1,2-Dichlorobenzene	11.17	146	471170	39.20	ul/l	98
15) 2-Methylphenol	11.54	108	488428	39.64	ul/l	99
16) bis(2-chloroisopropyl)ethe	11.54	45	1172231	36.98	ul/l #	73
17) Acetophenone	11.92	105	4711	0.30	ul/l #	1
18) 3&4-Methylphenol	11.92	108	555769	40.28	ul/l	97
19) N-Nitroso-di-n-propylamine	11.92	70	476847	38.56	ul/l	91
20) Hexachloroethane	11.92	117	213222	38.82	ul/l	93
23) Nitrobenzene	12.21	77	570728	41.56	ul/l	93
24) Isophorone	12.81	82	1160873	39.90	ul/l	99
25) 2-Nitrophenol	13.00	139	272315	42.19	ul/l	97
26) 2,4-Dimethylphenol	13.22	107	422760	39.20	ul/l	98
27) Benzoic Acid	13.23	122	433149	71.54	ul/l #	11
28) bis(2-Chloroethoxy)methane	13.45	93	682084	41.11	ul/l	98
29) 2,4-Dichlorophenol	13.64	162	364046	43.11	ul/l	98
30) 1,2,4-Trichlorobenzene	13.81	180	358975	42.30	ul/l	99
31) Naphthalene	13.95	128	1315719	41.28	ul/l	100
32) 4-Chloroaniline	14.18	127	184093	12.73	ul/l	99
33) Hexachlorobutadiene	14.46	225	187912	41.30	ul/l #	59
35) 4-Chloro-3-methylphenol	15.50	107	392653	42.87	ul/l	99
36) 2-Methylnaphthalene	15.73	142	873766	41.38	ul/l	93
39) Hexachlorocyclopentadiene	16.33	237	166334	36.81	ul/l	95
40) 2,4,6-Trichlorophenol	16.56	196	245269	43.74	ul/l	98
41) 2,4,5-Trichlorophenol	16.66	196	258736	44.13	ul/l	98
43) 1,1'-Biphenyl	16.96	154	5987	0.25	ul/l #	1
44) 2-Chloronaphthalene	16.97	162	741296	39.48	ul/l	98
45) 2-Nitroaniline	17.36	65	308550	44.54	ul/l	90
46) Dimethylphthalate	17.98	163	928970	46.04	ul/l	99
47) Acenaphthylene	18.05	152	1237190	43.26	ul/l	98
48) 3-Nitroaniline	18.45	138	218682	31.82	ul/l	97
49) Acenaphthene	18.55	153	755305	42.50	ul/l	98
50) 2,4-Dinitrophenol	18.70	184	70854	26.72	ul/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1229\E9653.D Vial: 2
Acq On : 29 Dec 2015 11:42 Operator: JMM
Sample : B5L2403-BS1 Inst : GC/MS E
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 7 8:00 2016 Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Wed Jan 06 09:13:41 2016
Response via : Initial Calibration
DataAcq Meth : SVE81208

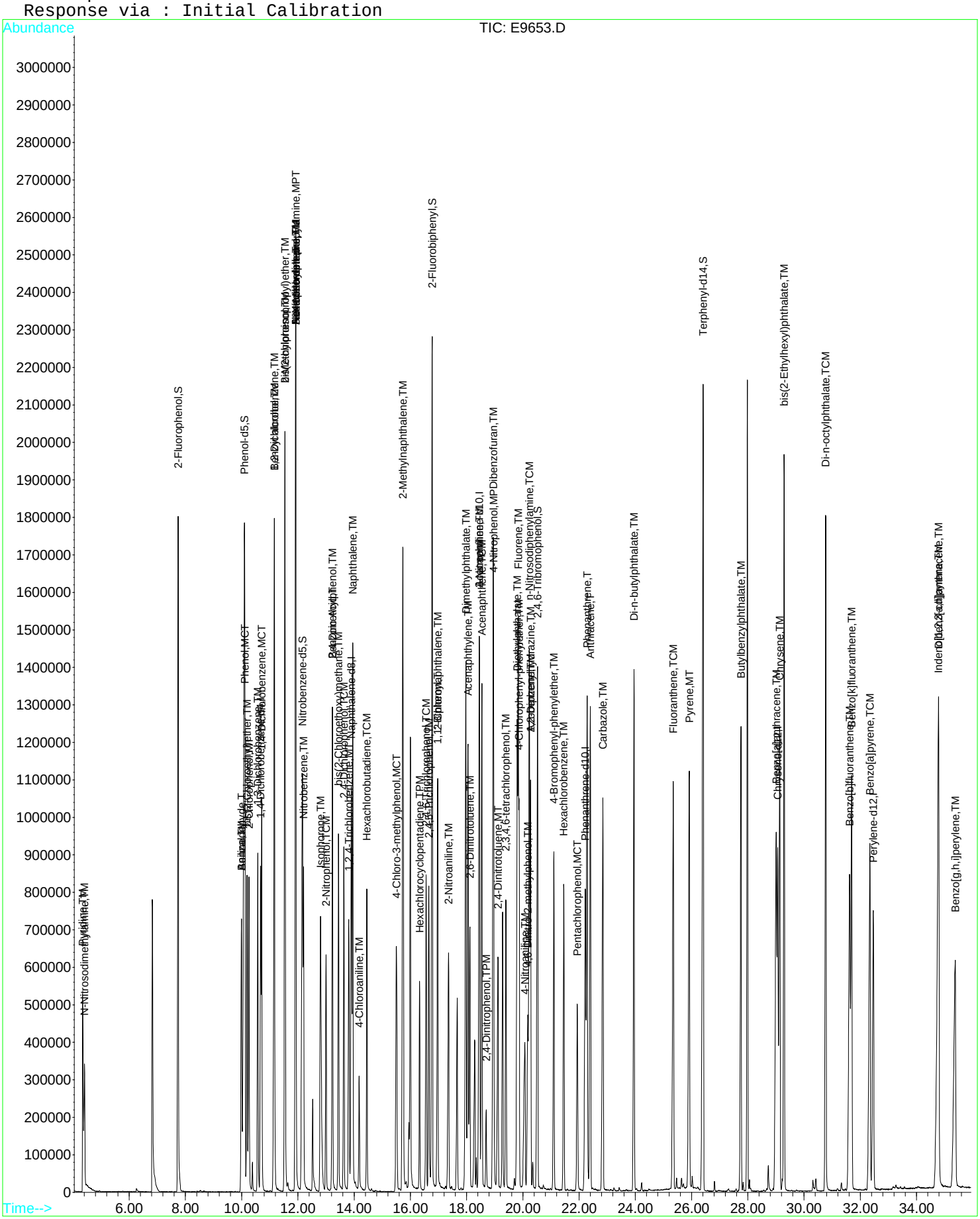
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	4-Nitrophenol	18.96	109	93967	49.67	ul/l	#	1
52)	Dibenzofuran	18.94	168	1097765	46.12	ul/l	#	59
53)	2,6-Dinitrotoluene	18.12	165	229488	45.14	ul/l		98
54)	2,4-Dinitrotoluene	19.12	165	304367	48.03	ul/l		97
55)	2,3,4,6-tetrachlorophenol	19.40	232	229297	44.57	ul/l		97
56)	Diethylphthalate	19.79	149	942868	44.10	ul/l		100
57)	4-Chlorophenyl-phenylether	19.87	204	407048	42.34	ul/l		95
58)	Fluorene	19.83	166	912475	43.23	ul/l		98
59)	4-Nitroaniline	20.07	138	279512	43.82	ul/l		98
62)	4,6-Dinitro-2-methylphenol	20.17	198	173950	39.62	ul/l		98
63)	Carbazole	22.85	167	1155941	45.93	ul/l		99
64)	n-Nitrosodiphenylamine	20.23	169	752187	45.24	ul/l		98
65)	1,2-Diphenylhydrazine	20.27	77	1271324	44.27	ul/l		86
66)	Azobenzene	20.27	77	1271324	44.25	ul/l		86
67)	4-Bromophenyl-phenylether	21.10	248	256618	47.80	ul/l		97
68)	Hexachlorobenzene	21.46	284	289051	47.51	ul/l	#	70
70)	Pentachlorophenol	21.94	266	162152	40.85	ul/l		96
71)	Phenanthrene	22.29	178	1190417	45.18	ul/l		99
72)	Anthracene	22.40	178	1195187	45.16	ul/l		98
73)	Di-n-butylphthalate	23.95	149	1581409	44.07	ul/l		99
74)	Fluoranthene	25.35	202	1215411	43.50	ul/l		96
77)	Pyrene	25.92	202	1222948	49.50	ul/l		95
79)	Butylbenzylphthalate	27.76	149	717616	49.14	ul/l		95
81)	Benzo[a]anthracene	29.01	228	1197917	47.40	ul/l		97
82)	bis(2-Ethylhexyl)phthalate	29.29	149	998463	48.76	ul/l		97
83)	Chrysene	29.13	228	1153144	51.75	ul/l		98
85)	Di-n-octylphthalate	30.77	149	1726477	49.02	ul/l		98
86)	Benzo[b]fluoranthene	31.62	252	1195614	50.89	ul/l		93
87)	Benzo[k]fluoranthene	31.69	252	1074046	48.65	ul/l		93
88)	Benzo[a]pyrene	32.34	252	1156450	51.66	ul/l		93
89)	Indeno[1,2,3-cd]pyrene	34.77	276	1295613	52.88	ul/l		75
90)	Dibenz[a,h]anthracene	34.79	278	1112088	53.38	ul/l		89
91)	Benzo[g,h,i]perylene	35.38	276	1046869	53.24	ul/l		88

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\E\DATA15\DEC15\E1229\E9653.D Vial: 2
Acq On : 29 Dec 2015 11:42 Operator: JMM
Sample : B5L2403-BS1 Inst : GC/MS E
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 7 8:00 2016 Quant Results File: SVE81208.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Thu Jan 07 09:10:48 2016
Response via : Initial Calibration



METHOD BLANK SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Blank ID:	B5L2403-BLK1	Batch:	B5L2403

Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
EP-18	1502323-01	E9636.D	12/28/2015 15:48
LCS	B5L2403-BS1	E9653.D	12/29/2015 11:42
Matrix Spike	B5L2403-MS1	E9657.D	12/29/2015 14:39
Matrix Spike Dup	B5L2403-MSD1	E9658.D	12/29/2015 15:23

INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502323
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Lab File ID:	E9451.D	Injection Date:	12/08/15
Instrument ID:	GC/MS E	Injection Time:	10:44
Sequence:	S5L0816	Lab Sample ID:	S5L0816-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	54.8	PASS
69	Base peak, 100% relative abundance	100	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	0.344	PASS
127	40 - 60% of 198	48.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.39	PASS
275	10 - 30% of 198	19.9	PASS
365	1 - 100% of 198	1.82	PASS
441	0.01 - 100% of 443	74.6	PASS
442	40 - 100% of 198	79.9	PASS
443	17 - 23% of 442	19.1	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Cal Standard	S5L0816-CAL1	E9454.D	12/08/2015	12:37:00
Cal Standard	S5L0816-CAL2	E9455.D	12/08/2015	15:04:00
Cal Standard	S5L0816-CAL3	E9456.D	12/08/2015	15:48:00
Cal Standard	S5L0816-CAL4	E9457.D	12/08/2015	16:33:00
Cal Standard	S5L0816-CAL5	E9458.D	12/08/2015	18:02:00
Cal Standard	S5L0816-CAL6	E9459.D	12/08/2015	18:47:00

INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502323
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Lab File ID:	E9632.D	Injection Date:	12/28/15
Instrument ID:	GC/MS E	Injection Time:	11:52
Sequence:	S5L2803	Lab Sample ID:	S5L2803-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	51	PASS
69	Base peak, 100% relative abundance	100	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	0.0853	PASS
127	40 - 60% of 198	47.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.56	PASS
275	10 - 30% of 198	21	PASS
365	1 - 100% of 198	1.95	PASS
441	0.01 - 100% of 443	69.7	PASS
442	40 - 100% of 198	92	PASS
443	17 - 23% of 442	19.9	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S5L2803-CCV1	E9634.D	12/28/2015	14:20:00
EP-18	1502323-01	E9636.D	12/28/2015	15:48:00

INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502323
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Lab File ID:	E9649.D	Injection Date:	12/29/15
Instrument ID:	GC/MS E	Injection Time:	09:09
Sequence:	S5L2909	Lab Sample ID:	S5L2909-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	57.2	PASS
69	Base peak, 100% relative abundance	100	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	0.431	PASS
127	40 - 60% of 198	49.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.48	PASS
275	10 - 30% of 198	19.8	PASS
365	1 - 100% of 198	1.92	PASS
441	0.01 - 100% of 443	72.1	PASS
442	40 - 100% of 198	81.3	PASS
443	17 - 23% of 442	19.3	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S5L2909-CCV1	E9651.D	12/29/2015	10:13:00
Blank	B5L2403-BLK1	E9652.D	12/29/2015	10:58:00
LCS	B5L2403-BS1	E9653.D	12/29/2015	11:42:00
Matrix Spike	B5L2403-MS1	E9657.D	12/29/2015	14:39:00
Matrix Spike Dup	B5L2403-MSD1	E9658.D	12/29/2015	15:23:00

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Sequence: S5L2803 Instrument: GC/MS E
Calibration: 15L3101

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S5L2803-CCV1)			*Lab File ID: E9634.D*			*Analyzed: 12/28/15 14:20*			
1,4-Dichlorobenzene-d4	320304	10.63	290369	10.77	110	50 - 200	-0.1400	+/-0.50	
Naphthalene-d8	1424146	13.87	1273176	14.01	112	50 - 200	-0.1400	+/-0.50	
Acenaphthene-d10	728932	18.42	607041	18.58	120	50 - 200	-0.1600	+/-0.50	
Phenanthrene-d10	1218561	22.19	1085725	22.35	112	50 - 200	-0.1600	+/-0.50	
Chrysene-d12	1350692	29.03	1193449	29.19	113	50 - 200	-0.1600	+/-0.50	
Perylene-d12	1238986	32.44	1132813	32.6	109	50 - 200	-0.1600	+/-0.50	
EP-18 (1502323-01)			*Lab File ID: E9636.D*			*Analyzed: 12/28/15 15:48*			
1,4-Dichlorobenzene-d4	233809	10.62	320304	10.63	73	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	941338	13.84	1424146	13.87	66	50 - 200	-0.0300	+/-0.50	
Acenaphthene-d10	440251	18.4	728932	18.42	60	50 - 200	-0.0200	+/-0.50	
Phenanthrene-d10	779829	22.17	1218561	22.19	64	50 - 200	-0.0200	+/-0.50	
Chrysene-d12	800841	29	1350692	29.03	59	50 - 200	-0.0300	+/-0.50	
Perylene-d12	693120	32.4	1238986	32.44	56	50 - 200	-0.0400	+/-0.50	

* Values outside of QC limits

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Sequence: S5L2909 Instrument: GC/MS E
Calibration: 15L3101

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S5L2909-CCV1)			*Lab File ID: E9651.D*			*Analyzed: 12/29/15 10:13*			
1,4-Dichlorobenzene-d4	369444	10.67	290369	10.77	127	50 - 200	-0.1000	+/-0.50	
Naphthalene-d8	1558236	13.9	1273176	14.01	122	50 - 200	-0.1100	+/-0.50	
Acenaphthene-d10	770825	18.46	607041	18.58	127	50 - 200	-0.1200	+/-0.50	
Phenanthrene-d10	1251272	22.23	1085725	22.35	115	50 - 200	-0.1200	+/-0.50	
Chrysene-d12	1283080	29.08	1193449	29.19	108	50 - 200	-0.1100	+/-0.50	
Perylene-d12	1155605	32.48	1132813	32.6	102	50 - 200	-0.1200	+/-0.50	
Blank (B5L2403-BLK1)			*Lab File ID: E9652.D*			*Analyzed: 12/29/15 10:58*			
1,4-Dichlorobenzene-d4	285131	10.66	369444	10.67	77	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	1115461	13.88	1558236	13.9	72	50 - 200	-0.0200	+/-0.50	
Acenaphthene-d10	463810	18.43	770825	18.46	60	50 - 200	-0.0300	+/-0.50	
Phenanthrene-d10	790227	22.2	1251272	22.23	63	50 - 200	-0.0300	+/-0.50	
Chrysene-d12	721280	29.03	1283080	29.08	56	50 - 200	-0.0500	+/-0.50	
Perylene-d12	622513	32.44	1155605	32.48	54	50 - 200	-0.0400	+/-0.50	
LCS (B5L2403-BS1)			*Lab File ID: E9653.D*			*Analyzed: 12/29/15 11:42*			
1,4-Dichlorobenzene-d4	292306	10.67	369444	10.67	79	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1198847	13.9	1558236	13.9	77	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	540842	18.46	770825	18.46	70	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	900088	22.22	1251272	22.23	72	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	877431	29.06	1283080	29.08	68	50 - 200	-0.0200	+/-0.50	
Perylene-d12	784411	32.46	1155605	32.48	68	50 - 200	-0.0200	+/-0.50	

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Sequence: S5L2909 Instrument: GC/MS E
Calibration: 15L3101

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (B5L2403-MS1)			*Lab File ID: E9657.D*			*Analyzed: 12/29/15 14:39*			
1,4-Dichlorobenzene-d4	291778	10.66	369444	10.67	79	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	1203542	13.89	1558236	13.9	77	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	560778	18.45	770825	18.46	73	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	922206	22.22	1251272	22.23	74	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	910199	29.06	1283080	29.08	71	50 - 200	-0.0200	+/-0.50	
Perylene-d12	807626	32.46	1155605	32.48	70	50 - 200	-0.0200	+/-0.50	
Matrix Spike Dup (B5L2403-MSD1)			*Lab File ID: E9658.D*			*Analyzed: 12/29/15 15:23*			
1,4-Dichlorobenzene-d4	303386	10.66	369444	10.67	82	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	1242104	13.89	1558236	13.9	80	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	565275	18.45	770825	18.46	73	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	912836	22.21	1251272	22.23	73	50 - 200	-0.0200	+/-0.50	
Chrysene-d12	923724	29.06	1283080	29.08	72	50 - 200	-0.0200	+/-0.50	
Perylene-d12	776446	32.47	1155605	32.48	67	50 - 200	-0.0100	+/-0.50	

* Values outside of QC limits

Accredited Analytical Resources, LLC.

SEMIVOLATILES CALIBRATION DATA

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L3101 Instrument: GC/MS E
Calibration Date: 12/8/2015 11:44:01AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Pyridine	5	1.53915	10	1.703113	20	1.658531	50	1.794804	80	1.635847	120	1.617796
N-Nitrosodimethylamine	5	1.382251	10	1.373187	20	1.365366	50	1.460436	80	1.360997	120	1.38308
Benzaldehyde	5	0.2285503	10	0.2036691	20	0.2060413	50	0.2081595	80	0.2352701	120	0.174864
Aniline	5	3.002193	10	3.122289	20	2.962451	50	3.112116	80	2.861858	120	2.824367
Phenol	5	2.333882	10	2.401207	20	2.328541	50	2.570111	80	2.461024	120	2.502686
bis(2-chloroethyl)ether	5	2.118317	10	2.123967	20	2.054896	50	2.237564	80	2.110608	120	2.145819
2-Chlorophenol	5	1.568865	10	1.601649	20	1.613884	50	1.770726	80	1.722803	120	1.773029
1,3-Dichlorobenzene	5	1.545847	10	1.594737	20	1.605233	50	1.690624	80	1.601359	120	1.606623
1,4-Dichlorobenzene	5	1.619102	10	1.666826	20	1.631806	50	1.781959	80	1.698838	120	1.69728
Benzyl alcohol	5	1.467168	10	1.568421	20	1.554401	50	1.688912	80	1.63631	120	1.653685
1,2-Dichlorobenzene	5	1.552009	10	1.57722	20	1.581319	50	1.734306	80	1.717112	120	1.707284
2-Methylphenol	5	1.517609	10	1.60394	20	1.608395	50	1.800682	80	1.770299	120	1.815733
bis(2-chloroisopropyl)ether	5	4.340521	10	4.365526	20	4.301871	50	4.611999	80	4.246727	120	4.161357
Acetophenone	5	2.133009	10	2.185694	20	2.15906	50	2.307564	80	2.14314	120	2.105208
3 & 4-Methylphenol	5	1.661166	10	1.759491	20	1.745145	50	1.990478	80	2.104287	120	2.068154
N-Nitroso-di-n-propylamine	5	1.61653	10	1.650104	20	1.615565	50	1.847	80	1.730202	120	1.695223
Hexachloroethane	5	0.6411937	10	0.6881093	20	0.7071209	50	0.8187025	80	0.8411522	120	0.8136648
Nitrobenzene	5	0.4547662	10	0.4555441	20	0.4547038	50	0.4794317	80	0.4502055	120	0.454226
Isophorone	5	0.9569958	10	1.00548	20	0.9902543	50	1.00632	80	0.9341171	120	0.9316134
2-Nitrophenol	5	0.1896846	10	0.2077569	20	0.2116518	50	0.2292024	80	0.2232656	120	0.2306483
2,4-Dimethylphenol	5	0.3378736	10	0.35309	20	0.3612525	50	0.382806	80	0.358286	120	0.3659696
Benzoic acid	5	8.172049E-02	10	0.1376852	20	0.1203557	50	0.1780554	80	0.2077277	120	0.2107771
bis(2-chloroethoxy)methane	5	0.5488537	10	0.5541547	20	0.5585324	50	0.583882	80	0.538683	120	0.537148
2,4-Dichlorophenol	5	0.2589855	10	0.2622204	20	0.2735317	50	0.3034988	80	0.2909646	120	0.3013024
1,2,4-Trichlorobenzene	5	0.2682229	10	0.2735765	20	0.2773269	50	0.3007205	80	0.2870618	120	0.2918823
Naphthalene	5	1.048414	10	1.077625	20	1.072037	50	1.128411	80	1.033109	120	1.021522

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L3101 Instrument: GC/MS E
Calibration Date: 12/8/2015 11:44:01AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
4-Chloroaniline	5	0.42041	10	0.4832116	20	0.4881352	50	0.5184541	80	0.4913196	120	0.4923874
Hexachlorobutadiene	5	0.1392722	10	0.1458439	20	0.148179	50	0.1616572	80	0.1552514	120	0.1606732
Caprolactam	5	0.2681355	10	0.276882	20	0.2762132	50	0.2094426	80	0.2562828	120	0.2383658
4-Chloro-3-methylphenol	5	0.2856953	10	0.3027615	20	0.3112233	50	0.3235012	80	0.3045366	120	0.3059183
2-Methylnaphthylene	5	0.6822746	10	0.6973963	20	0.7087975	50	0.7332036	80	0.6953516	120	0.710074
1,2,4,5-Tetrachlorobenzene	5	0.5533766	10	0.5705128	20	0.5760468	50	0.6185676	80	0.5909383	120	0.6554
Hexachlorocyclopentadiene	5	0.2678231	10	0.2884866	20	0.321718	50	0.375815	80	0.3574899	120	0.3940819
2,4,6-Trichlorophenol	5	0.3805615	10	0.3828522	20	0.403037	50	0.4387772	80	0.4204965	120	0.4626009
2,4,5-Trichlorophenol	5	0.3944331	10	0.4111293	20	0.4186406	50	0.4604775	80	0.4303722	120	0.4866561
2-Chloronaphthalene	5	1.266605	10	1.25635	20	1.327446	50	1.470926	80	1.437633	120	1.572915
1,1-Biphenyl	5	1.610129	10	1.632667	20	1.697928	50	1.864173	80	1.802051	120	1.909692
2-Nitroaniline	5	0.4833753	10	0.4966743	20	0.5064436	50	0.5396643	80	0.5059098	120	0.5423209
Dimethylphthalate	5	1.457655	10	1.459411	20	1.463143	50	1.51497	80	1.444333	120	1.61389
Acenaphthylene	5	2.040931	10	2.069056	20	2.073458	50	2.129018	80	2.052242	120	2.32579
3-Nitroaniline	5	0.4685075	10	0.4852433	20	0.5054947	50	0.5423621	80	0.5028059	120	0.5453104
Acenaphthene	5	1.265671	10	1.274217	20	1.298064	50	1.358233	80	1.278044	120	1.411893
2,4-Dinitrophenol	5	5.224555E-02	10	0.1023973	20	0.1589514	50	0.2188146	80	0.2260494	120	0.2574359
4-Nitrophenol	5	0.1108342	10	0.123156	20	0.1362577	50	0.1597199	80	0.1517553	120	0.1577422
Dibenzofuran	5	1.697003	10	1.732773	20	1.758965	50	1.841571	80	1.715308	120	1.817766
2,6-Dinitrotoluene	5	0.3487828	10	0.3638464	20	0.3729402	50	0.3950455	80	0.3718196	120	0.4036998
2,4-Dinitrotoluene	5	0.4231599	10	0.4565592	20	0.4782346	50	0.497287	80	0.4629113	120	0.4940846
2,3,4,6-Tetrachlorophenol	5	0.3484676	10	0.3574172	20	0.3727491	50	0.395116	80	0.3840913	120	0.4250094
Diethyl phthalate	5	1.486533	10	1.511295	20	1.53642	50	1.592293	80	1.602778	120	1.757957
4-Chlorophenyl-phenylether	5	0.6279428	10	0.6474188	20	0.6662449	50	0.7220955	80	0.7485478	120	0.8538235
Fluorene	5	1.395573	10	1.403839	20	1.454772	50	1.591491	80	1.66504	120	1.85634
4-Nitroaniline	5	0.427107	10	0.4799096	20	0.4802048	50	0.4931724	80	0.4555062	120	0.4945033

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L3101 Instrument: GC/MS E
Calibration Date: 12/8/2015 11:44:01AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
4,6-Dinitro-2-methylphenol	5	9.430078E-02	10	0.1220238	20	0.1520919	50	0.1852523	80	0.1961587	120	0.2306814
Carbazole	5	1.093867	10	1.090071	20	1.114708	50	1.174155	80	1.100492	120	1.137229
N-Nitrosodiphenylamine	5	0.6729998	10	0.6619205	20	0.6754454	50	0.7724407	80	0.7881466	120	0.8627605
1,2-Diphenylhydrazine	5	1.170046	10	1.169719	20	1.170088	50	1.34737	80	1.357035	120	1.443677
Azobenzene	5	1.170046	10	1.169719	20	1.170088	50	1.349908	80	1.357035	120	1.443286
4-Bromophenyl-phenylether	5	0.2180538	10	0.2277433	20	0.2304819	50	0.2522573	80	0.2437852	120	0.2590858
Atrazine	5	0.2234693	10	0.2213787	20	0.2246683	50	0.2351469	80	0.2160458	120	0.2197665
Hexachlorobenzene	5	0.257309	10	0.2550757	20	0.2601156	50	0.2873116	80	0.2730381	120	0.2892419
Pentachlorophenol	5	0.1435978	10	0.166351	20	0.169752	50	0.1952226	80	0.1868641	120	0.1966678
Phenanthrene	5	1.130255	10	1.13959	20	1.149652	50	1.245787	80	1.162175	120	1.197804
Anthracene	5	1.118997	10	1.134673	20	1.157588	50	1.249324	80	1.181796	120	1.214611
Di-n-butyl phthalate	5	1.612098	10	1.574532	20	1.628775	50	1.676727	80	1.525947	120	1.549454
Fluoranthene	5	1.210453	10	1.229104	20	1.257582	50	1.302953	80	1.208798	120	1.241518
Benzidine	5	0.3282698	10	0.4551709	20	0.4752511	50	0.5275573	80	0.4647766	120	0.4576975
Pyrene	5	1.192049	10	1.186149	20	1.168838	50	1.196705	80	1.016686	120	0.9974205
Butylbenzylphthalate	5	0.707717	10	0.7041923	20	0.6916978	50	0.707493	80	0.5947493	120	0.5883364
3,3'-Dichlorobenzidine	5	0.4187818	10	0.4132044	20	0.4226942	50	0.4856956	80	0.4659313	120	0.4604398
Benzo[a]anthracene	5	1.152184	10	1.155441	20	1.173027	50	1.254641	80	1.103515	120	1.074586
bis(2-ethylhexyl)phthalate	5	0.9611369	10	0.9529653	20	0.9695747	50	0.9988955	80	0.8676118	120	0.8505036
Chrysene	5	1.031603	10	1.024806	20	1.035007	50	1.098416	80	0.9636753	120	0.941835
Di-n-octyl phthalate	5	1.799082	10	1.818631	20	1.800897	50	1.870236	80	1.697606	120	1.789049
Benzo[b]fluoranthene	5	1.120666	10	1.141941	20	1.140704	50	1.269669	80	1.230567	120	1.28475
Benzo[k]fluoranthene	5	1.029769	10	1.142228	20	1.061033	50	1.201501	80	1.107326	120	1.212838
Benzo[a]pyrene	5	1.084559	10	1.108805	20	1.115577	50	1.214624	80	1.131227	120	1.19479
Indeno(1,2,3-cd)pyrene	5	1.139434	10	1.154822	20	1.229532	50	1.375791	80	1.265644	120	1.331847
Dibenzo(a,h)anthracene	5	0.9407116	10	0.9655654	20	1.024617	50	1.191496	80	1.094383	120	1.157575

INITIAL CALIBRATION DATA

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L3101 Instrument: GC/MS E
Calibration Date: 12/8/2015 11:44:01AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Benzo[ghi]perylene	5	0.9842878	10	0.9624657	20	1.008112	50	1.096071	80	0.9795759	120	0.9852907
2-Fluorophenol	5	1.398929	10	1.449628	20	1.469413	50	1.630143	80	1.553181	120	1.587755
Phenol-d5	5	2.119871	10	2.170036	20	2.145153	50	2.376979	80	2.273034	120	2.321835
Nitrobenzene-d5	5	0.3787688	10	0.3998966	20	0.3975491	50	0.4281087	80	0.404179	120	0.4085052
2-Fluorobiphenyl	5	1.287942	10	1.281723	20	1.282045	50	1.375809	80	1.280685	120	1.402521
2,4,6-Tribromophenol	5	0.215628	10	0.2261293	20	0.243631	50	0.2598498	80	0.2501863	120	0.273346
Terphenyl-d14	5	0.7743981	10	0.7868737	20	0.7887995	50	0.8236989	80	0.7113199	120	0.7053893

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration:	15L3101	Instrument:	GC/MS E
		Calibration Date:	12/8/2015 11:44:01AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Pyridine	1.658207	5.186556		
N-Nitrosodimethylamine	1.387553	2.650753		
Benzaldehyde	0.2094257	10.18397		
Aniline	2.980879	4.154315		
Phenol	2.432909	3.950489	CCC (20)	
bis(2-chloroethyl)ether	2.131862	2.813595		
2-Chlorophenol	1.675159	5.434495		
1,3-Dichlorobenzene	1.607404	2.907		
1,4-Dichlorobenzene	1.682635	3.48689	CCC (20)	
Benzyl alcohol	1.594816	5.068137		
1,2-Dichlorobenzene	1.644875	5.039123		
2-Methylphenol	1.68611	7.417098		
bis(2-chloroisopropyl)ether	4.338	3.521445		
Acetophenone	2.172279	3.290552		
3 & 4-Methylphenol	1.88812	9.996159		
N-Nitroso-di-n-propylamine	1.692437	5.204103	SPCC (0.05)	
Hexachloroethane	0.7516572	11.06284		
Nitrobenzene	0.4581462	2.313149		
Isophorone	0.9707968	3.54282		
2-Nitrophenol	0.2153683	7.24883	CCC (20)	
2,4-Dimethylphenol	0.3598796	4.116802		
Benzoic acid	0.1560536	33.0324		
bis(2-chloroethoxy)methane	0.5535423	3.084191		
2,4-Dichlorophenol	0.2817506	6.932197	CCC (20)	
1,2,4-Trichlorobenzene	0.2831318	4.321808		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration:	15L3101	Instrument:	GC/MS E
		Calibration Date:	12/8/2015 11:44:01AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	1.06352	3.617123		
4-Chloroaniline	0.4823196	6.785465		
Hexachlorobutadiene	0.1518128	5.842394	CCC (20)	
Caprolactam	0.2542203	10.335		
4-Chloro-3-methylphenol	0.305606	4.027731	CCC (20)	
2-Methylnaphthylene	0.7045163	2.459787		
1,2,4,5-Tetrachlorobenzene	0.5941404	6.255619		
Hexachlorocyclopentadiene	0.3342358	14.96636	SPCC (0.05)	
2,4,6-Trichlorophenol	0.4147209	7.793669	CCC (20)	
2,4,5-Trichlorophenol	0.4336181	7.861681		
2-Chloronaphthalene	1.388646	9.067082		
1,1-Biphenyl	1.752773	7.091179		
2-Nitroaniline	0.512398	4.623245		
Dimethylphthalate	1.492234	4.315061		
Acenaphthylene	2.115083	5.087324		
3-Nitroaniline	0.5082873	6.021048		
Acenaphthene	1.314354	4.436869	CCC (20)	
2,4-Dinitrophenol	0.1693157	47.0455	SPCC (0.05)	
4-Nitrophenol	0.1399109	14.25964	SPCC (0.05)	
Dibenzofuran	1.760564	3.282351		
2,6-Dinitrotoluene	0.3760224	5.378757		
2,4-Dinitrotoluene	0.4687061	5.887402		
2,3,4,6-Tetrachlorophenol	0.3804751	7.270998		
Diethyl phthalate	1.581213	6.176164		
4-Chlorophenyl-phenylether	0.7110122	11.74623		

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INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration:	15L3101	Instrument:	GC/MS E
		Calibration Date:	12/8/2015 11:44:01AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Fluorene	1.561176	11.5415		
4-Nitroaniline	0.4717339	5.504687		
4,6-Dinitro-2-methylphenol	0.1634181	30.83046		
Carbazole	1.11842	2.883975		
N-Nitrosodiphenylamine	0.7389522	11.02508	CCC (20)	
1,2-Diphenylhydrazine	1.276323	9.500392		
Azobenzene	1.27668	9.512935		
4-Bromophenyl-phenylether	0.2385679	6.598361		
Atrazine	0.2234126	2.907531		
Hexachlorobenzene	0.2703486	5.633917		
Pentachlorophenol	0.1764092	11.60545	CCC (20)	
Phenanthrene	1.170877	3.72115		
Anthracene	1.176165	4.199275		
Di-n-butyl phthalate	1.594589	3.477304		
Fluoranthene	1.241735	2.840818	CCC (20)	
Benzidine	0.4514539	14.6136		
Pyrene	1.126308	8.261972		
Butylbenzylphthalate	0.6656976	8.678608		
3,3'-Dichlorobenzidine	0.4444578	6.769861		
Benzo[a]anthracene	1.152232	5.396597		
bis(2-ethylhexyl)phthalate	0.933448	6.418901		
Chrysene	1.01589	5.518192		
Di-n-octyl phthalate	1.795917	3.128751	CCC (20)	
Benzo[b]fluoranthene	1.19805	6.033909		
Benzo[k]fluoranthene	1.125783	6.567704		

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration:	15L3101	Instrument:	GC/MS E
		Calibration Date:	12/8/2015 11:44:01AM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Benzo[a]pyrene	1.141597	4.513651	CCC (20)	
Indeno(1,2,3-cd)pyrene	1.249512	7.547432		
Dibenzo(a,h)anthracene	1.062391	9.632255		
Benzo[ghi]perylene	1.002634	4.792182		
2-Fluorophenol	1.514842	5.892087		
Phenol-d5	2.234485	4.680523		
Nitrobenzene-d5	0.4028346	3.984961		
2-Fluorobiphenyl	1.318454	4.207825		
2,4,6-Tribromophenol	0.2447951	8.706718		
Terphenyl-d14	0.7650799	6.134423		

* Values outside of QC limits

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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Instrument ID:	GC/MS E	Calibration:	15L3101
Lab File ID:	E9634.D	Calibration Date:	12/08/15 11:44
Sequence:	S5L2803	Injection Date:	12/28/15
Lab Sample ID:	S5L2803-CCV1	Injection Time:	14:20

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	42.3	1.658207	1.40287		-15.4	
N-Nitrosodimethylamine	A	50.0	40.9	1.387553	1.135157		-18.2	
Benzaldehyde	A	50.0	69.2	0.2094257	0.2896623		38.3	
Aniline	A	50.0	43.2	2.980879	2.577264		-13.5	
Phenol	A	50.0	45.2	2.432909	2.198049		-9.7	20
bis(2-chloroethyl)ether	A	50.0	44.8	2.131862	1.911839		-10.3	
2-Chlorophenol	A	50.0	46.1	1.675159	1.543161		-7.9	
1,3-Dichlorobenzene	A	50.0	46.8	1.607404	1.504686		-6.4	
1,4-Dichlorobenzene	A	50.0	46.4	1.682635	1.560892		-7.2	20
Benzyl alcohol	A	50.0	46.6	1.594816	1.487599		-6.7	
1,2-Dichlorobenzene	A	50.0	47.6	1.644875	1.567331		-4.7	
2-Methylphenol	A	50.0	47.9	1.68611	1.616027		-4.2	
bis(2-chloroisopropyl)ether	A	50.0	45.5	4.338	3.944131		-9.1	
Acetophenone	A	50.0	48.9	2.172279	2.122638		-2.3	
3 & 4-Methylphenol	A	50.0	50.3	1.88812	1.900927		0.7	
N-Nitroso-di-n-propylamine	A	50.0	48.4	1.692437	1.636605	0.05	-3.3	
Hexachloroethane	A	50.0	49.5	0.7516572	0.7444178		-1.0	
Nitrobenzene	A	50.0	47.0	0.4581462	0.4307463		-6.0	
Isophorone	A	50.0	45.7	0.9707968	0.8874079		-8.6	
2-Nitrophenol	A	50.0	48.9	0.2153683	0.2107874		-2.1	20
2,4-Dimethylphenol	A	50.0	47.1	0.3598796	0.3393051		-5.7	
Benzoic acid	L	50.0	41.5	0.1560536	0.1568631		0.5	
bis(2-chloroethoxy)methane	A	50.0	47.2	0.5535423	0.5222796		-5.6	

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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Instrument ID:	GC/MS E	Calibration:	15L3101
Lab File ID:	E9634.D	Calibration Date:	12/08/15 11:44
Sequence:	S5L2803	Injection Date:	12/28/15
Lab Sample ID:	S5L2803-CCV1	Injection Time:	14:20

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.0	49.2	0.2817506	0.277398		-1.5	20
1,2,4-Trichlorobenzene	A	50.0	47.9	0.2831318	0.2713143		-4.2	
Naphthalene	A	50.0	46.6	1.06352	0.9918579		-6.7	
4-Chloroaniline	A	50.0	47.8	0.4823196	0.4606264		-4.5	
Hexachlorobutadiene	A	50.0	47.0	0.1518128	0.1428483		-5.9	20
Caprolactam	A	50.0	51.7	0.2542203	0.2628646		3.4	
4-Chloro-3-methylphenol	A	50.0	48.1	0.305606	0.2941783		-3.7	20
2-Methylnaphthylene	A	50.0	45.6	0.7045163	0.6427116		-8.8	
1,2,4,5-Tetrachlorobenzene	A	50.0	47.0	0.5941404	0.5586222		-6.0	
Hexachlorocyclopentadiene	L	50.0	40.6	0.3342358	0.271256	0.05	-18.8	
2,4,6-Trichlorophenol	A	50.0	45.4	0.4147209	0.3766617		-9.2	20
2,4,5-Trichlorophenol	A	50.0	46.2	0.4336181	0.4008528		-7.6	
2-Chloronaphthalene	A	50.0	44.8	1.388646	1.244981		-10.3	
1,1-Biphenyl	A	50.0	47.7	1.752773	1.673192		-4.5	
2-Nitroaniline	A	50.0	44.9	0.512398	0.4601329		-10.2	
Dimethylphthalate	A	50.0	45.2	1.492234	1.348201		-9.7	
Acenaphthylene	A	50.0	43.2	2.115083	1.825993		-13.7	
3-Nitroaniline	A	50.0	48.0	0.5082873	0.4878381		-4.0	
Acenaphthene	A	50.0	44.3	1.314354	1.163464		-11.5	20
2,4-Dinitrophenol	L	50.0	47.3	0.1693157	0.2134454	0.05	26.1	
4-Nitrophenol	A	50.0	48.8	0.1399109	0.1366174	0.05	-2.4	
Dibenzofuran	A	50.0	45.3	1.760564	1.595759		-9.4	
2,6-Dinitrotoluene	A	50.0	46.7	0.3760224	0.3514435		-6.5	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Instrument ID:	GC/MS E	Calibration:	15L3101
Lab File ID:	E9634.D	Calibration Date:	12/08/15 11:44
Sequence:	S5L2803	Injection Date:	12/28/15
Lab Sample ID:	S5L2803-CCV1	Injection Time:	14:20

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrotoluene	A	50.0	48.4	0.4687061	0.4532867		-3.3	
2,3,4,6-Tetrachlorophenol	A	50.0	46.8	0.3804751	0.3558258		-6.5	
Diethyl phthalate	A	50.0	44.7	1.581213	1.414529		-10.5	
4-Chlorophenyl-phenylether	A	50.0	43.9	0.7110122	0.6248967		-12.1	
Fluorene	A	50.0	44.8	1.561176	1.400301		-10.3	
4-Nitroaniline	A	50.0	46.4	0.4717339	0.4379536		-7.2	
4,6-Dinitro-2-methylphenol	L	50.0	43.1	0.1634181	0.1709301		4.6	
Carbazole	A	50.0	45.7	1.11842	1.021367		-8.7	
N-Nitrosodiphenylamine	A	50.0	46.3	0.7389522	0.6840836		-7.4	20
1,2-Diphenylhydrazine	A	50.0	45.6	1.276323	1.163611		-8.8	
Azobenzene	A	50.0	45.6	1.27668	1.163611		-8.9	
4-Bromophenyl-phenylether	A	50.0	47.5	0.2385679	0.2267461		-5.0	
Atrazine	A	50.0	36.8	0.2234126	0.1644143		-26.4	
Hexachlorobenzene	A	50.0	47.2	0.2703486	0.2553898		-5.5	
Pentachlorophenol	A	50.0	44.9	0.1764092	0.1584236		-10.2	20
Phenanthrene	A	50.0	45.8	1.170877	1.071923		-8.5	
Anthracene	A	50.0	45.8	1.176165	1.077964		-8.3	
Di-n-butyl phthalate	A	50.0	43.6	1.594589	1.391685		-12.7	
Fluoranthene	A	50.0	44.8	1.241735	1.112223		-10.4	20
Benzidine	A	50.0	49.3	0.4514539	0.4449032		-1.5	
Pyrene	A	50.0	45.1	1.126308	1.016443		-9.8	
Butylbenzylphthalate	A	50.0	44.3	0.6656976	0.5892979		-11.5	
3,3'-Dichlorobenzidine	A	50.0	52.0	0.4444578	0.4621128		4.0	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Instrument ID:	GC/MS E	Calibration:	15L3101
Lab File ID:	E9634.D	Calibration Date:	12/08/15 11:44
Sequence:	S5L2803	Injection Date:	12/28/15
Lab Sample ID:	S5L2803-CCV1	Injection Time:	14:20

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzo[a]anthracene	A	50.0	47.3	1.152232	1.090987		-5.3	
bis(2-ethylhexyl)phthalate	A	50.0	46.0	0.933448	0.8593468		-7.9	
Chrysene	A	50.0	49.1	1.01589	0.9967276		-1.9	
Di-n-octyl phthalate	A	50.0	44.2	1.795917	1.589225		-11.5	20
Benzo[b]fluoranthene	A	50.0	47.5	1.19805	1.137615		-5.0	
Benzo[k]fluoranthene	A	50.0	44.3	1.125783	0.9980277		-11.3	
Benzo[a]pyrene	A	50.0	45.9	1.141597	1.047543		-8.2	20
Indeno(1,2,3-cd)pyrene	A	50.0	45.6	1.249512	1.139359		-8.8	
Dibenzo(a,h)anthracene	A	50.0	47.2	1.062391	1.003003		-5.6	
Benzo[ghi]perylene	A	50.0	44.4	1.002634	0.8895268		-11.3	
2-Fluorophenol	A	50.0	49.0	1.514842	1.485789		-1.9	
Phenol-d5	A	50.0	48.5	2.234485	2.165847		-3.1	
Nitrobenzene-d5	A	50.0	50.6	0.4028346	0.4073358		1.1	
2-Fluorobiphenyl	A	50.0	46.7	1.318454	1.231535		-6.6	
2,4,6-Tribromophenol	A	50.0	53.6	0.2447951	0.2623038		7.2	
Terphenyl-d14	A	50.0	49.5	0.7650799	0.7579309		-0.9	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1228\E9634.D Vial: 25
Acq On : 28 Dec 2015 14:20 Operator: JMM
Sample : S5L2803-CCV1 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 10:57 2016 Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Wed Jan 06 09:13:41 2016
Response via : Initial Calibration
DataAcq Meth : SVE81208

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.63	152	320304	40.00 ul/l	-0.15
21) Naphthalene-d8	13.87	136	1424146	40.00 ul/l	-0.16
37) Acenaphthene-d10	18.42	164	728932	40.00 ul/l	-0.17
61) Phenanthrene-d10	22.19	188	1218561	40.00 ul/l	-0.18
75) Chrysene-d12	29.03	240	1350692	40.00 ul/l	-0.18
84) Perylene-d12	32.44	264	1238986	40.00 ul/l	-0.18
System Monitoring Compounds					
4) 2-Fluorophenol	7.66	112	594880	49.04 ul/l	-0.13
Spiked Amount 120.000	Range 15 - 110		Recovery = 40.87%		
7) Phenol-d5	10.04	99	867162	48.46 ul/l	-0.12
Spiked Amount 120.000	Range 15 - 110		Recovery = 40.38%		
22) Nitrobenzene-d5	12.12	82	725132	50.56 ul/l	-0.15
Spiked Amount 100.000	Range 30 - 130		Recovery = 50.56%		
42) 2-Fluorobiphenyl	16.74	172	1122132	46.70 ul/l	-0.16
Spiked Amount 100.000	Range 15 - 110		Recovery = 46.70%		
60) 2,4,6-Tribromophenol	20.48	330	239002	53.58 ul/l	-0.17
Spiked Amount 120.000	Range 15 - 110		Recovery = 44.65%		
78) Terphenyl-d14	26.35	244	1279664	49.53 ul/l	-0.18
Spiked Amount 100.000	Range 30 - 130		Recovery = 49.53%		

Target Compounds					Qvalue
2) Pyridine	4.27	79	561681	42.30 ul/l	94
3) N-Nitrosodimethylamine	4.34	74	454494	40.90 ul/l	94
5) Benzaldehyde	9.57	77	115975	69.16 ul/l	92
6) Aniline	9.96	93	1031885	43.23 ul/l	93
8) Phenol	10.07	94	880055	45.17 ul/l	98
9) bis(2-Chloroethyl)ether	10.16	93	765462	44.84 ul/l	94
10) 2-Chlorophenol	10.21	128	617851	46.06 ul/l	95
11) 1,3-Dichlorobenzene	10.54	146	602446	46.80 ul/l	99
12) 1,4-Dichlorobenzene	10.68	146	624950	46.38 ul/l	99
13) Benzyl alcohol	11.12	79	595605	46.64 ul/l	91
14) 1,2-Dichlorobenzene	11.13	146	627528	47.64 ul/l	99
15) 2-Methylphenol	11.51	108	647025	47.92 ul/l	99
16) bis(2-chloroisopropyl)ethe	11.51	45	1579151	45.46 ul/l #	73
17) Acetophenone	11.77	105	849862	48.86 ul/l	94
18) 3&4-Methylphenol	11.89	108	761093	50.34 ul/l	98
19) N-Nitroso-di-n-propylamine	11.89	70	655264	48.35 ul/l	93
20) Hexachloroethane	11.89	117	298050	49.52 ul/l	94
23) Nitrobenzene	12.17	77	766807	47.01 ul/l	93
24) Isophorone	12.81	82	1579748	45.71 ul/l	98
25) 2-Nitrophenol	12.97	139	375240	48.94 ul/l	98
26) 2,4-Dimethylphenol	13.20	107	604025	47.14 ul/l	98
27) Benzoic Acid	13.75	122	279245m	41.47 ul/l	
28) bis(2-Chloroethoxy)methane	13.42	93	929753	47.18 ul/l	99
29) 2,4-Dichlorophenol	13.61	162	493819	49.23 ul/l	99
30) 1,2,4-Trichlorobenzene	13.78	180	482989	47.91 ul/l	99
31) Naphthalene	13.92	128	1765688	46.63 ul/l	98
32) 4-Chloroaniline	14.16	127	819999	47.75 ul/l	100
33) Hexachlorobutadiene	14.42	225	254296	47.05 ul/l #	60
34) Caprolactam	15.21	55	467947m	51.70 ul/l	
35) 4-Chloro-3-methylphenol	15.52	107	523691	48.13 ul/l	100
36) 2-Methylnaphthalene	15.70	142	1144144	45.61 ul/l	94
38) 1,2,4,5-tetrachlorobenzene	16.24	216	508997	47.01 ul/l	98
39) Hexachlorocyclopentadiene	16.30	237	247159	40.58 ul/l	97
40) 2,4,6-Trichlorophenol	16.54	196	343201	45.41 ul/l	98
41) 2,4,5-Trichlorophenol	16.65	196	365243	46.22 ul/l	99
43) 1,1'-Biphenyl	16.94	154	1524554	47.73 ul/l	96
44) 2-Chloronaphthalene	16.94	162	1134383	44.83 ul/l	98
45) 2-Nitroaniline	17.33	65	419257	44.90 ul/l	92
46) Dimethylphthalate	17.95	163	1228434	45.17 ul/l	99
47) Acenaphthylene	18.02	152	1663781	43.17 ul/l	99
48) 3-Nitroaniline	18.43	138	444501	47.99 ul/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1228\E9634.D Vial: 25
Acq On : 28 Dec 2015 14:20 Operator: JMM
Sample : S5L2803-CCV1 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 10:57 2016 Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Wed Jan 06 09:13:41 2016
Response via : Initial Calibration
DataAcq Meth : SVE81208

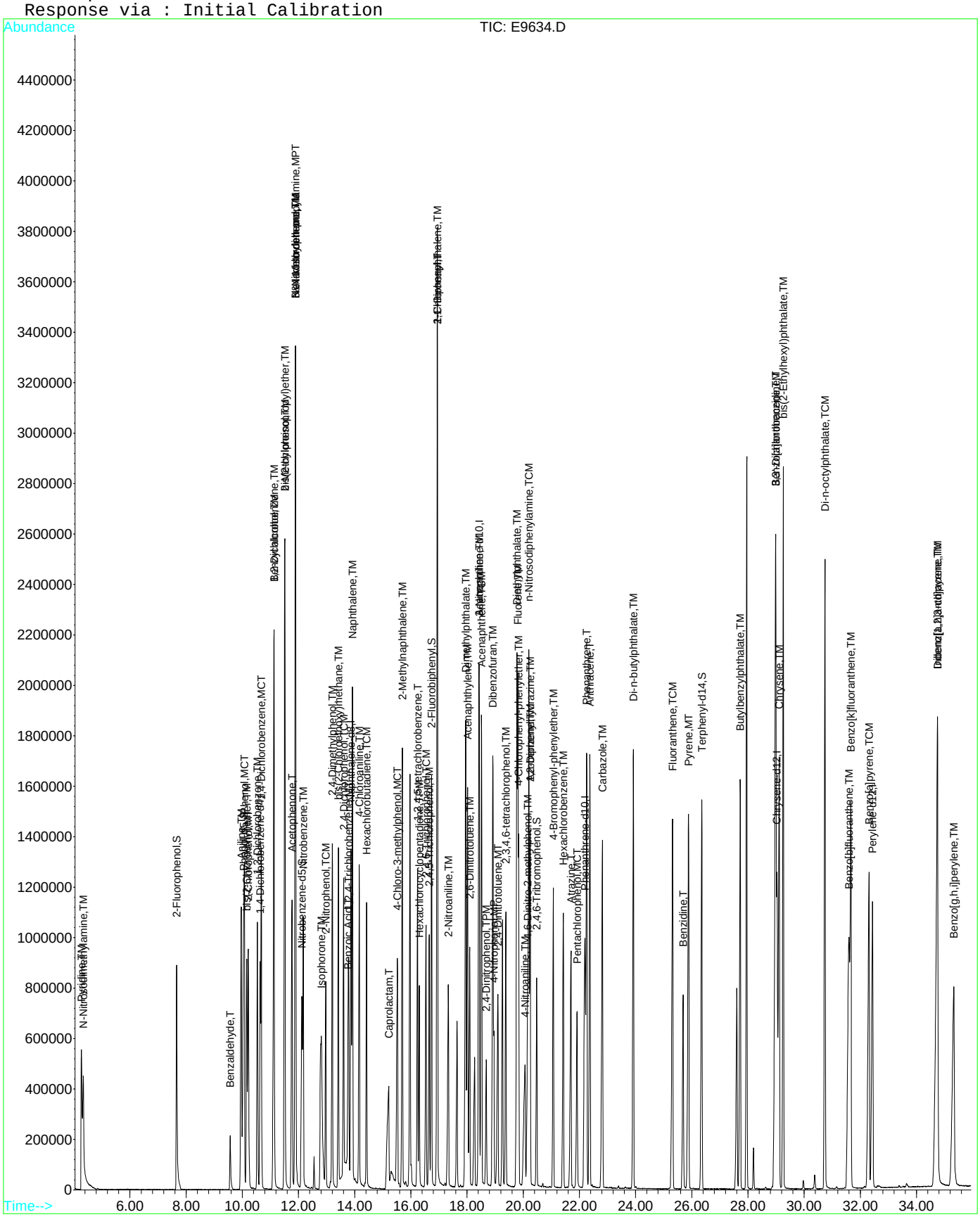
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
49)	Acenaphthene	18.51	153	1060108	44.26	ul/l		99
50)	2,4-Dinitrophenol	18.68	184	194484	47.28	ul/l		95
51)	4-Nitrophenol	18.96	109	124481	48.82	ul/l	#	1
52)	Dibenzofuran	18.92	168	1454000	45.32	ul/l	#	59
53)	2,6-Dinitrotoluene	18.10	165	320223	46.73	ul/l		99
54)	2,4-Dinitrotoluene	19.10	165	413019	48.36	ul/l		99
55)	2,3,4,6-tetrachlorophenol	19.38	232	324216	46.76	ul/l		97
56)	Diethylphthalate	19.77	149	1288869	44.73	ul/l		99
57)	4-Chlorophenyl-phenylether	19.84	204	569384	43.94	ul/l		95
58)	Fluorene	19.80	166	1275905	44.85	ul/l		97
59)	4-Nitroaniline	20.06	138	399048	46.42	ul/l		98
62)	4,6-Dinitro-2-methylphenol	20.15	198	260361	43.13	ul/l		98
63)	Carbazole	22.82	167	1555748	45.66	ul/l		100
64)	n-Nitrosodiphenylamine	20.20	169	1041997	46.29	ul/l		98
65)	1,2-Diphenylhydrazine	20.24	77	1772413	45.58	ul/l		84
66)	Azobenzene	20.24	77	1772413	45.57	ul/l		84
67)	4-Bromophenyl-phenylether	21.07	248	345380	47.52	ul/l		96
68)	Hexachlorobenzene	21.43	284	389010	47.23	ul/l	#	70
69)	Atrazine	21.70	58	250436	36.80	ul/l		95
70)	Pentachlorophenol	21.91	266	241311	44.90	ul/l		98
71)	Phenanthrene	22.26	178	1632755	45.77	ul/l		99
72)	Anthracene	22.37	178	1641956	45.83	ul/l		99
73)	Di-n-butylphthalate	23.92	149	2119817	43.64	ul/l		100
74)	Fluoranthene	25.32	202	1694140	44.79	ul/l		97
76)	Benzidine	25.69	184	751159	49.27	ul/l		99
77)	Pyrene	25.88	202	1716126	45.12	ul/l		96
79)	Butylbenzylphthalate	27.72	149	994950	44.26	ul/l		96
80)	3,3'-Dichlorobenzidine	28.99	252	780215	51.99	ul/l		99
81)	Benzo[a]anthracene	28.98	228	1841984	47.34	ul/l		98
82)	bis(2-Ethylhexyl)phthalate	29.26	149	1450891	46.03	ul/l		98
83)	Chrysene	29.11	228	1682840	49.06	ul/l		98
85)	Di-n-octylphthalate	30.74	149	2461284	44.25	ul/l		98
86)	Benzo[b]fluoranthene	31.60	252	1761861	47.48	ul/l		94
87)	Benzo[k]fluoranthene	31.66	252	1545678m	44.33	ul/l		
88)	Benzo[a]pyrene	32.31	252	1622364	45.88	ul/l		93
89)	Indeno[1,2,3-cd]pyrene	34.74	276	1764562	45.59	ul/l		76
90)	Dibenz[a,h]anthracene	34.75	278	1553383	47.20	ul/l		91
91)	Benzo[g,h,i]perylene	35.33	276	1377639	44.36	ul/l		88

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\E\DATA15\DEC15\E1228\E9634.D Vial: 25
Acq On : 28 Dec 2015 14:20 Operator: JMM
Sample : S5L2803-CCV1 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 10:57 2016 Quant Results File: SVE81208.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Thu Jan 07 09:10:48 2016
Response via : Initial Calibration



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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Instrument ID:	GC/MS E	Calibration:	15L3101
Lab File ID:	E9651.D	Calibration Date:	12/08/15 11:44
Sequence:	S5L2909	Injection Date:	12/29/15
Lab Sample ID:	S5L2909-CCV1	Injection Time:	10:13

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	40.9	1.658207	1.356062		-18.2	
N-Nitrosodimethylamine	A	50.0	40.3	1.387553	1.119349		-19.3	
Benzaldehyde	A	50.0	51.6	0.2094257	0.2161648		3.2	
Aniline	A	50.0	40.7	2.980879	2.425922		-18.6	
Phenol	A	50.0	41.5	2.432909	2.021254		-16.9	20
bis(2-chloroethyl)ether	A	50.0	41.7	2.131862	1.778153		-16.6	
2-Chlorophenol	A	50.0	43.0	1.675159	1.442171		-13.9	
1,3-Dichlorobenzene	A	50.0	44.4	1.607404	1.42849		-11.1	
1,4-Dichlorobenzene	A	50.0	44.9	1.682635	1.5119		-10.1	20
Benzyl alcohol	A	50.0	42.5	1.594816	1.356661		-14.9	
1,2-Dichlorobenzene	A	50.0	45.3	1.644875	1.489161		-9.5	
2-Methylphenol	A	50.0	43.9	1.68611	1.481407		-12.1	
bis(2-chloroisopropyl)ether	A	50.0	41.8	4.338	3.629564		-16.3	
Acetophenone	A	50.0	45.8	2.172279	1.988177		-8.5	
3 & 4-Methylphenol	A	50.0	45.6	1.88812	1.723929		-8.7	
N-Nitroso-di-n-propylamine	A	50.0	44.2	1.692437	1.49582	0.05	-11.6	
Hexachloroethane	A	50.0	46.5	0.7516572	0.6991696		-7.0	
Nitrobenzene	A	50.0	44.6	0.4581462	0.4086		-10.8	
Isophorone	A	50.0	43.7	0.9707968	0.8483336		-12.6	
2-Nitrophenol	A	50.0	46.9	0.2153683	0.2020213		-6.2	20
2,4-Dimethylphenol	A	50.0	44.9	0.3598796	0.3233949		-10.1	
Benzoic acid	L	50.0	38.1	0.1560536	0.142132		-8.9	
bis(2-chloroethoxy)methane	A	50.0	44.4	0.5535423	0.4920061		-11.1	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Instrument ID:	GC/MS E	Calibration:	15L3101
Lab File ID:	E9651.D	Calibration Date:	12/08/15 11:44
Sequence:	S5L2909	Injection Date:	12/29/15
Lab Sample ID:	S5L2909-CCV1	Injection Time:	10:13

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.0	46.0	0.2817506	0.2591335		-8.0	20
1,2,4-Trichlorobenzene	A	50.0	46.2	0.2831318	0.2614141		-7.7	
Naphthalene	A	50.0	44.2	1.06352	0.9402678		-11.6	
4-Chloroaniline	A	50.0	45.1	0.4823196	0.434766		-9.9	
Hexachlorobutadiene	A	50.0	45.4	0.1518128	0.1379334		-9.1	20
Caprolactam	A	50.0	46.9	0.2542203	0.2384881		-6.2	
4-Chloro-3-methylphenol	A	50.0	43.7	0.305606	0.2672935		-12.5	20
2-Methylnaphthylene	A	50.0	42.5	0.7045163	0.5991426		-15.0	
1,2,4,5-Tetrachlorobenzene	A	50.0	45.6	0.5941404	0.5423934		-8.7	
Hexachlorocyclopentadiene	L	50.0	41.5	0.3342358	0.2774337	0.05	-17.0	
2,4,6-Trichlorophenol	A	50.0	43.2	0.4147209	0.3587543		-13.5	20
2,4,5-Trichlorophenol	A	50.0	42.3	0.4336181	0.366944		-15.4	
2-Chloronaphthalene	A	50.0	43.1	1.388646	1.196584		-13.8	
1,1-Biphenyl	A	50.0	46.1	1.752773	1.617576		-7.7	
2-Nitroaniline	A	50.0	42.3	0.512398	0.4332594		-15.4	
Dimethylphthalate	A	50.0	42.2	1.492234	1.260999		-15.5	
Acenaphthylene	A	50.0	41.3	2.115083	1.745326		-17.5	
3-Nitroaniline	A	50.0	44.7	0.5082873	0.4542032		-10.6	
Acenaphthene	A	50.0	41.0	1.314354	1.07803		-18.0	20
2,4-Dinitrophenol	L	50.0	43.3	0.1693157	0.192522	0.05	13.7	
4-Nitrophenol	A	50.0	45.6	0.1399109	0.1276855	0.05	-8.7	
Dibenzofuran	A	50.0	42.7	1.760564	1.504475		-14.5	
2,6-Dinitrotoluene	A	50.0	42.1	0.3760224	0.3166031		-15.8	

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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Instrument ID:	GC/MS E	Calibration:	15L3101
Lab File ID:	E9651.D	Calibration Date:	12/08/15 11:44
Sequence:	S5L2909	Injection Date:	12/29/15
Lab Sample ID:	S5L2909-CCV1	Injection Time:	10:13

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrotoluene	A	50.0	43.8	0.4687061	0.4107443		-12.4	
2,3,4,6-Tetrachlorophenol	A	50.0	43.6	0.3804751	0.3314537		-12.9	
Diethyl phthalate	A	50.0	40.6	1.581213	1.284354		-18.8	
4-Chlorophenyl-phenylether	A	50.0	41.0	0.7110122	0.5833573		-18.0	
Fluorene	A	50.0	40.7	1.561176	1.270108		-18.6	
4-Nitroaniline	A	50.0	42.3	0.4717339	0.3991972		-15.4	
4,6-Dinitro-2-methylphenol	L	50.0	40.5	0.1634181	0.1586597		-2.9	
Carbazole	A	50.0	42.6	1.11842	0.951694		-14.9	
N-Nitrosodiphenylamine	A	50.0	43.3	0.7389522	0.6405175		-13.3	20
1,2-Diphenylhydrazine	A	50.0	43.4	1.276323	1.107012		-13.3	
Azobenzene	A	50.0	43.4	1.27668	1.107012		-13.3	
4-Bromophenyl-phenylether	A	50.0	44.6	0.2385679	0.2130555		-10.7	
Atrazine	A	50.0	42.2	0.2234126	0.1885966		-15.6	
Hexachlorobenzene	A	50.0	44.2	0.2703486	0.2387612		-11.7	
Pentachlorophenol	A	50.0	40.8	0.1764092	0.1439431		-18.4	20
Phenanthrene	A	50.0	42.8	1.170877	1.003108		-14.3	
Anthracene	A	50.0	42.5	1.176165	0.9990416		-15.1	
Di-n-butyl phthalate	A	50.0	40.1	1.594589	1.278383		-19.8	
Fluoranthene	A	50.0	40.7	1.241735	1.011153		-18.6	20
Benzidine	A	50.0	47.9	0.4514539	0.4324862		-4.2	
Pyrene	A	50.0	44.5	1.126308	1.003114		-10.9	
Butylbenzylphthalate	A	50.0	41.9	0.6656976	0.5576993		-16.2	
3,3'-Dichlorobenzidine	A	50.0	47.7	0.4444578	0.4241725		-4.6	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Instrument ID:	GC/MS E	Calibration:	15L3101
Lab File ID:	E9651.D	Calibration Date:	12/08/15 11:44
Sequence:	S5L2909	Injection Date:	12/29/15
Lab Sample ID:	S5L2909-CCV1	Injection Time:	10:13

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzo[a]anthracene	A	50.0	45.5	1.152232	1.047943		-9.1	
bis(2-ethylhexyl)phthalate	A	50.0	43.4	0.933448	0.8098264		-13.2	
Chrysene	A	50.0	46.6	1.01589	0.9473436		-6.7	
Di-n-octyl phthalate	A	50.0	42.3	1.795917	1.517917		-15.5	20
Benzo[b]fluoranthene	A	50.0	44.8	1.19805	1.074393		-10.3	
Benzo[k]fluoranthene	A	50.0	44.2	1.125783	0.9941868		-11.7	
Benzo[a]pyrene	A	50.0	44.5	1.141597	1.016345		-11.0	20
Indeno(1,2,3-cd)pyrene	A	50.0	45.7	1.249512	1.142688		-8.5	
Dibenzo(a,h)anthracene	A	50.0	47.2	1.062391	1.001885		-5.7	
Benzo[ghi]perylene	A	50.0	45.4	1.002634	0.9109002		-9.1	
2-Fluorophenol	A	50.0	48.3	1.514842	1.463715		-3.4	
Phenol-d5	A	50.0	45.9	2.234485	2.05087		-8.2	
Nitrobenzene-d5	A	50.0	48.7	0.4028346	0.3925844		-2.5	
2-Fluorobiphenyl	A	50.0	44.9	1.318454	1.182914		-10.3	
2,4,6-Tribromophenol	A	50.0	49.8	0.2447951	0.2436641		-0.5	
Terphenyl-d14	A	50.0	48.4	0.7650799	0.7398834		-3.3	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1229\E9651.D Vial: 25
Acq On : 29 Dec 2015 10:13 Operator: JMM
Sample : S5L2909-CCV1 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 11:01 2016 Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Wed Jan 06 09:13:41 2016
Response via : Initial Calibration
DataAcq Meth : SVE81208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.67	152	369444	40.00	ul/l	-0.12
21) Naphthalene-d8	13.90	136	1558236	40.00	ul/l	-0.12
37) Acenaphthene-d10	18.46	164	770825	40.00	ul/l	-0.13
61) Phenanthrene-d10	22.23	188	1251272	40.00	ul/l	-0.14
75) Chrysene-d12	29.08	240	1283080	40.00	ul/l	-0.14
84) Perylene-d12	32.48	264	1155605	40.00	ul/l	-0.14

System Monitoring Compounds

4) 2-Fluorophenol	7.69	112	675951	48.31	ul/l	-0.09
Spiked Amount 120.000	Range 15 - 110		Recovery = 40.26%			
7) Phenol-d5	10.08	99	947102	45.89	ul/l	-0.08
Spiked Amount 120.000	Range 15 - 110		Recovery = 38.24%			
22) Nitrobenzene-d5	12.16	82	764674	48.73	ul/l	-0.11
Spiked Amount 100.000	Range 30 - 130		Recovery = 48.73%			
42) 2-Fluorobiphenyl	16.77	172	1139775	44.86	ul/l	-0.13
Spiked Amount 100.000	Range 15 - 110		Recovery = 44.86%			
60) 2,4,6-Tribromophenol	20.52	330	234778	49.77	ul/l	-0.13
Spiked Amount 120.000	Range 15 - 110		Recovery = 41.48%			
78) Terphenyl-d14	26.39	244	1186662	48.35	ul/l	-0.14
Spiked Amount 100.000	Range 30 - 130		Recovery = 48.35%			

Target Compounds

						Qvalue
2) Pyridine	4.31	79	626236	40.89	ul/l	95
3) N-Nitrosodimethylamine	4.39	74	516921m	40.34	ul/l	
5) Benzaldehyde	9.60	77	99826	51.61	ul/l	92
6) Aniline	10.00	93	1120303	40.69	ul/l	93
8) Phenol	10.11	94	933425	41.54	ul/l	97
9) bis(2-Chloroethyl)ether	10.19	93	821160	41.70	ul/l	93
10) 2-Chlorophenol	10.24	128	666002	43.05	ul/l	93
11) 1,3-Dichlorobenzene	10.57	146	659684	44.43	ul/l	99
12) 1,4-Dichlorobenzene	10.71	146	698203	44.93	ul/l	100
13) Benzyl alcohol	11.16	79	626513	42.53	ul/l	92
14) 1,2-Dichlorobenzene	11.16	146	687702	45.27	ul/l	98
15) 2-Methylphenol	11.55	108	684121	43.93	ul/l	99
16) bis(2-chloroisopropyl)ethe	11.54	45	1676151	41.83	ul/l #	73
17) Acetophenone	11.80	105	918150	45.76	ul/l	93
18) 3&4-Methylphenol	11.93	108	796119	45.65	ul/l	98
19) N-Nitroso-di-n-propylamine	11.93	70	690777	44.19	ul/l	93
20) Hexachloroethane	11.92	117	322880	46.51	ul/l	94
23) Nitrobenzene	12.21	77	795869	44.59	ul/l	94
24) Isophorone	12.84	82	1652380	43.69	ul/l	99
25) 2-Nitrophenol	13.01	139	393496	46.90	ul/l	97
26) 2,4-Dimethylphenol	13.24	107	629907	44.93	ul/l	98
27) Benzoic Acid	13.76	122	276844m	38.12	ul/l	
28) bis(2-Chloroethoxy)methane	13.45	93	958327	44.44	ul/l	99
29) 2,4-Dichlorophenol	13.64	162	504739	45.99	ul/l	98
30) 1,2,4-Trichlorobenzene	13.81	180	509181	46.16	ul/l	98
31) Naphthalene	13.95	128	1831449	44.21	ul/l	98
32) 4-Chloroaniline	14.20	127	846835	45.07	ul/l	99
33) Hexachlorobutadiene	14.46	225	268666	45.43	ul/l #	60
34) Caprolactam	15.25	55	464526m	46.91	ul/l	
35) 4-Chloro-3-methylphenol	15.55	107	520633	43.73	ul/l	99
36) 2-Methylnaphthalene	15.73	142	1167007	42.52	ul/l	93
38) 1,2,4,5-tetrachlorobenzene	16.27	216	522613	45.65	ul/l	98
39) Hexachlorocyclopentadiene	16.33	237	267316	41.50	ul/l	97
40) 2,4,6-Trichlorophenol	16.57	196	345671	43.25	ul/l	97
41) 2,4,5-Trichlorophenol	16.69	196	353562	42.31	ul/l	99
43) 1,1'-Biphenyl	16.98	154	1558585	46.14	ul/l	96
44) 2-Chloronaphthalene	16.98	162	1152946	43.08	ul/l	98
45) 2-Nitroaniline	17.37	65	417459	42.28	ul/l	92
46) Dimethylphthalate	17.98	163	1215012	42.25	ul/l	99
47) Acenaphthylene	18.06	152	1681676	41.26	ul/l	98
48) 3-Nitroaniline	18.47	138	437639	44.68	ul/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1229\E9651.D Vial: 25
Acq On : 29 Dec 2015 10:13 Operator: JMM
Sample : S5L2909-CCV1 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 11:01 2016 Quant Results File: SVE81208.RES

Quant Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Wed Jan 06 09:13:41 2016
Response via : Initial Calibration
DataAcq Meth : SVE81208

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
49)	Acenaphthene	18.55	153	1038716	41.01	ul/l		98
50)	2,4-Dinitrophenol	18.71	184	185501	43.32	ul/l		93
51)	4-Nitrophenol	18.99	109	123029	45.63	ul/l	#	1
52)	Dibenzofuran	18.96	168	1449609	42.73	ul/l	#	59
53)	2,6-Dinitrotoluene	18.13	165	305057	42.10	ul/l		98
54)	2,4-Dinitrotoluene	19.13	165	395765	43.82	ul/l		98
55)	2,3,4,6-tetrachlorophenol	19.41	232	319366	43.56	ul/l		96
56)	Diethylphthalate	19.81	149	1237515	40.61	ul/l		99
57)	4-Chlorophenyl-phenylether	19.87	204	562083	41.02	ul/l		93
58)	Fluorene	19.84	166	1223789	40.68	ul/l		98
59)	4-Nitroaniline	20.10	138	384639	42.31	ul/l		97
62)	4,6-Dinitro-2-methylphenol	20.19	198	248158	40.49	ul/l		97
63)	Carbazole	22.86	167	1488535	42.55	ul/l		100
64)	n-Nitrosodiphenylamine	20.23	169	1001827	43.34	ul/l		98
65)	1,2-Diphenylhydrazine	20.28	77	1731466	43.37	ul/l		85
66)	Azobenzene	20.28	77	1731466	43.36	ul/l		85
67)	4-Bromophenyl-phenylether	21.11	248	333238	44.65	ul/l		96
68)	Hexachlorobenzene	21.47	284	373444	44.16	ul/l	#	70
69)	Atrazine	21.74	58	294982	42.21	ul/l		95
70)	Pentachlorophenol	21.95	266	225140	40.80	ul/l		98
71)	Phenanthrene	22.30	178	1568951	42.84	ul/l		99
72)	Anthracene	22.41	178	1562591	42.47	ul/l		99
73)	Di-n-butylphthalate	23.96	149	1999506	40.09	ul/l		100
74)	Fluoranthene	25.36	202	1581534	40.72	ul/l		97
76)	Benzidine	25.73	184	693643	47.90	ul/l		99
77)	Pyrene	25.92	202	1608844	44.53	ul/l		96
79)	Butylbenzylphthalate	27.76	149	894466	41.89	ul/l		94
80)	3,3'-Dichlorobenzidine	29.03	252	680309	47.72	ul/l		99
81)	Benzo[a]anthracene	29.01	228	1680744	45.47	ul/l		98
82)	bis(2-Ethylhexyl)phthalate	29.30	149	1298840	43.38	ul/l		98
83)	Chrysene	29.15	228	1519397	46.63	ul/l		98
85)	Di-n-octylphthalate	30.78	149	2192640	42.26	ul/l		98
86)	Benzo[b]fluoranthene	31.63	252	1551968	44.84	ul/l		94
87)	Benzo[k]fluoranthene	31.70	252	1436109m	44.16	ul/l		
88)	Benzo[a]pyrene	32.35	252	1468116	44.51	ul/l		93
89)	Indeno[1,2,3-cd]pyrene	34.79	276	1650620	45.73	ul/l		76
90)	Dibenz[a,h]anthracene	34.80	278	1447229	47.15	ul/l		92
91)	Benzo[g,h,i]perylene	35.39	276	1315801	45.43	ul/l		88

(#) = qualifier out of range (m) = manual integration

Quantitation Report

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Data File : D:\E\DATA15\DEC15\E1229\E9651.D              Vial: 25
Acq On    : 29 Dec 2015  10:13                       Operator: JMM
Sample    : S5L2909-CCV1                             Inst    : GC/MS E
Misc      :                                          Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan  6 11:01 2016             Quant Results File: SVE81208.RES

Method        : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title         : SEMI-VOA 8270 TCL  HP5971E
Last Update   : Thu Jan 07 09:10:48 2016
Response via  : Initial Calibration
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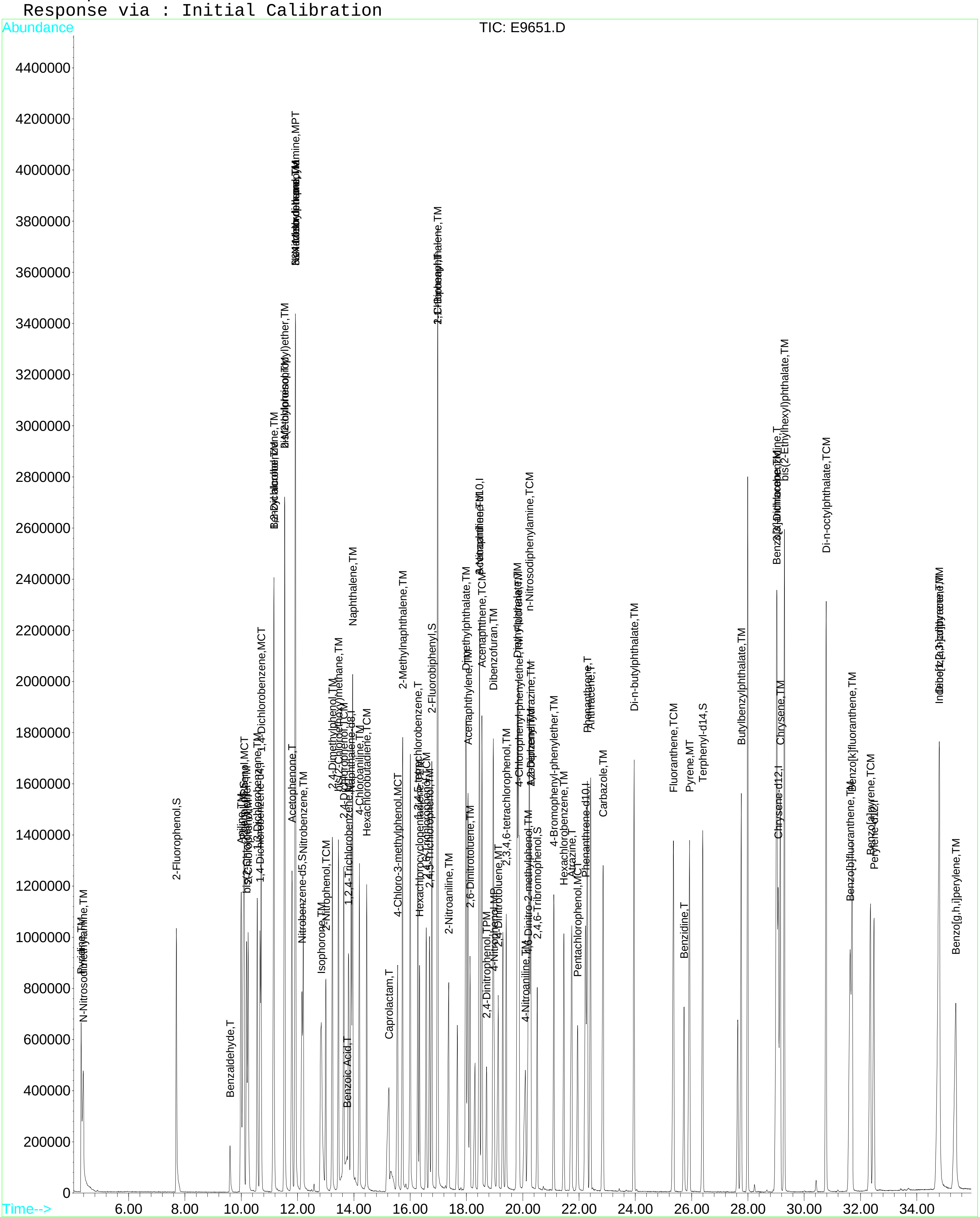

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RAW DATA

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1208\E9454.D Vial: 2
Acq On : 8 Dec 2015 12:37 Operator: JMM
Sample : S5L0816-CAL1 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 5 17:11 2016 Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Mon Dec 07 13:09:48 2015
Response via : Initial Calibration
DataAcq Meth : SVE81207

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.77	152	314189	40.00	ul/l	-0.01
21) Naphthalene-d8	14.01	136	1372679	40.00	ul/l	-0.01
37) Acenaphthene-d10	18.57	164	634389	40.00	ul/l	-0.02
61) Phenanthrene-d10	22.35	188	1104975	40.00	ul/l	-0.01
75) Chrysene-d12	29.19	240	1160509	40.00	ul/l	-0.02
84) Perylene-d12	32.60	264	1125752	40.00	ul/l	-0.02

System Monitoring Compounds						
4) 2-Fluorophenol	7.77	112	54941	4.73	ul/l	-0.01
Spiked Amount 120.000	Range 15 - 110		Recovery	=	3.94%#	
7) Phenol-d5	10.11	99	83255	5.08	ul/l	-0.04
Spiked Amount 120.000	Range 15 - 110		Recovery	=	4.23%#	
22) Nitrobenzene-d5	12.24	82	64991	5.08	ul/l	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery	=	5.08%#	
42) 2-Fluorobiphenyl	16.87	172	102132	4.78	ul/l	-0.04
Spiked Amount 100.000	Range 15 - 110		Recovery	=	4.78%#	
60) 2,4,6-Tribromophenol	20.61	330	17099	3.17	ul/l	-0.04
Spiked Amount 120.000	Range 15 - 110		Recovery	=	2.64%#	
78) Terphenyl-d14	26.51	244	112337	4.98	ul/l	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery	=	4.98%#	

Target Compounds						Qvalue
2) Pyridine	4.44	79	60448	4.62	ul/l	98
3) N-Nitrosodimethylamine	4.47	74	54286	5.71	ul/l	95
5) Benzaldehyde	9.72	77	8976	4.30	ul/l	90
6) Aniline	10.08	93	117907	5.61	ul/l	96
8) Phenol	10.13	94	91660	5.29	ul/l	95
9) bis(2-Chloroethyl)ether	10.28	93	83194	5.49	ul/l	93
10) 2-Chlorophenol	10.33	128	61615	5.10	ul/l	92
11) 1,3-Dichlorobenzene	10.68	146	60711	5.07	ul/l	100
12) 1,4-Dichlorobenzene	10.81	146	63588	5.12	ul/l	99
13) Benzyl alcohol	11.22	79	57621	5.21	ul/l	86
14) 1,2-Dichlorobenzene	11.27	146	60953	4.98	ul/l	98
15) 2-Methylphenol	11.60	108	59602	4.93	ul/l	95
16) bis(2-chloroisopropyl)ethe	11.65	45	170468	7.86	ul/l	89
17) Acetophenone	11.87	105	83771	4.53	ul/l	92
18) 3&4-Methylphenol	11.97	108	65240	4.88	ul/l	98
19) N-Nitroso-di-n-propylamine	11.98	70	63487	5.82	ul/l	87
20) Hexachloroethane	12.04	117	25182	4.86	ul/l	96
23) Nitrobenzene	12.28	77	78031	5.50	ul/l	90
24) Isophorone	12.88	82	164206	5.38	ul/l	98
25) 2-Nitrophenol	13.10	139	32547	4.61	ul/l	91
26) 2,4-Dimethylphenol	13.29	107	57974	4.76	ul/l	98
27) Benzoic Acid	13.61	122	14022m	2.11	ul/l	
28) bis(2-Chloroethoxy)methane	13.54	93	94175	5.29	ul/l	97
29) 2,4-Dichlorophenol	13.70	162	44438	4.39	ul/l	95
30) 1,2,4-Trichlorobenzene	13.92	180	46023	4.44	ul/l	99
31) Naphthalene	14.05	128	179892	5.11	ul/l	99
32) 4-Chloroaniline	14.29	127	72136	4.57	ul/l	99
33) Hexachlorobutadiene	14.57	225	23897	4.01	ul/l #	56
34) Caprolactam	15.06	55	46008	5.22	ul/l #	76
35) 4-Chloro-3-methylphenol	15.59	107	49021	4.54	ul/l	99
36) 2-Methylnaphthalene	15.83	142	117068	4.89	ul/l	97
38) 1,2,4,5-tetrachlorobenzene	16.38	216	43882	3.74	ul/l	98
39) Hexachlorocyclopentadiene	16.46	237	21238	8.11	ul/l	91
40) 2,4,6-Trichlorophenol	16.66	196	30178	4.44	ul/l	97
41) 2,4,5-Trichlorophenol	16.75	196	31278	4.31	ul/l	97
43) 1,1'-Biphenyl	17.08	154	127681	4.25	ul/l	94
44) 2-Chloronaphthalene	17.07	162	100440	4.81	ul/l	97
45) 2-Nitroaniline	17.45	65	38331	5.55	ul/l	88
46) Dimethylphthalate	18.05	163	115590	4.78	ul/l	99
47) Acenaphthylene	18.15	152	161843	4.92	ul/l	98
48) 3-Nitroaniline	18.52	138	37152	5.22	ul/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1208\E9454.D Vial: 2
Acq On : 8 Dec 2015 12:37 Operator: JMM
Sample : S5L0816-CAL1 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 5 17:11 2016 Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Mon Dec 07 13:09:48 2015
Response via : Initial Calibration
DataAcq Meth : SVE81207

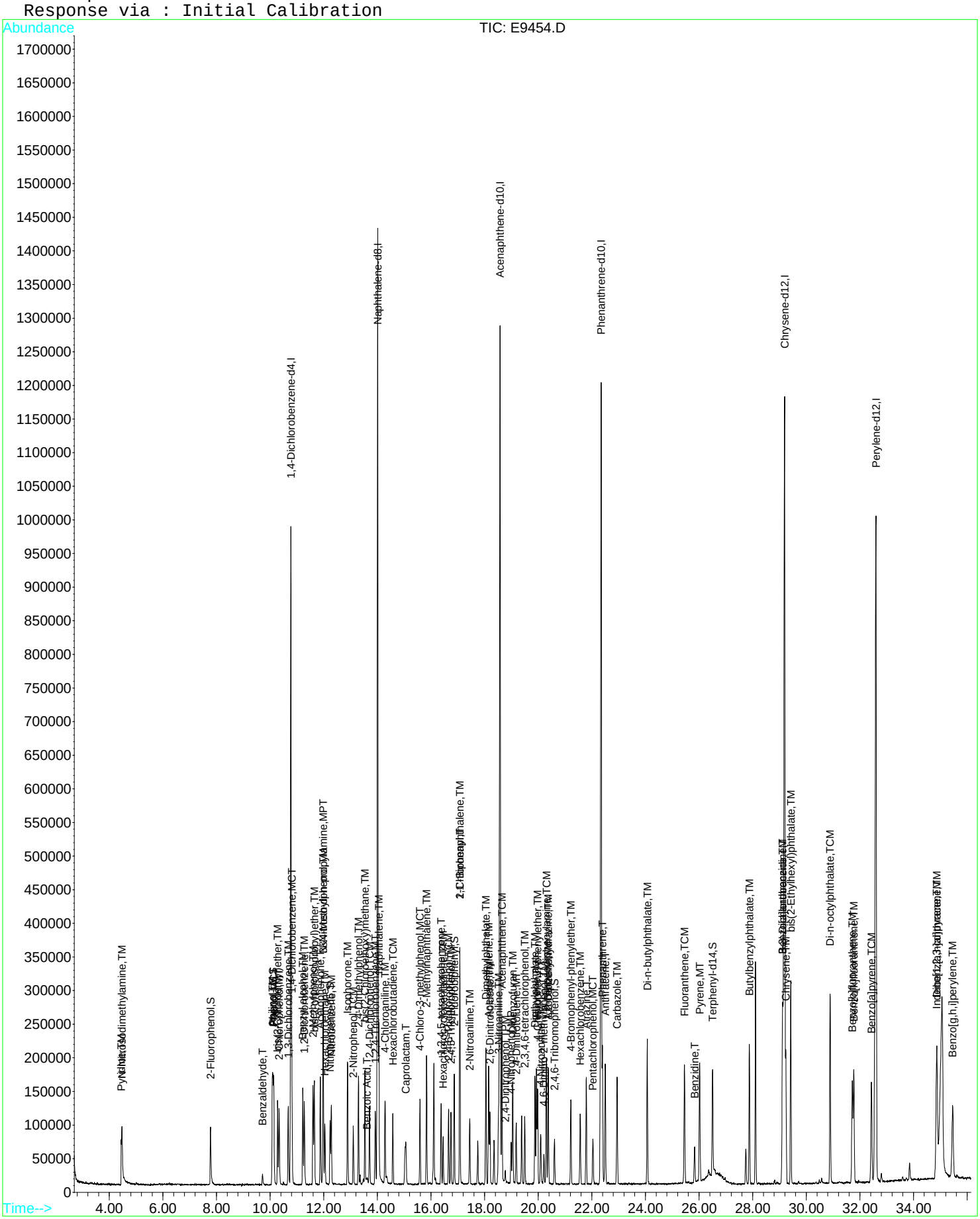
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
49)	Acenaphthene	18.65	153	100366	5.12 ul/l	100
50)	2,4-Dinitrophenol	18.77	184	4143	7.82 ul/l #	58
51)	4-Nitrophenol	18.99	109	8789	3.80 ul/l	88
52)	Dibenzofuran	19.05	168	134570	4.76 ul/l	98
53)	2,6-Dinitrotoluene	18.20	165	27658	4.86 ul/l	92
54)	2,4-Dinitrotoluene	19.18	165	33556	4.57 ul/l	89
55)	2,3,4,6-tetrachlorophenol	19.50	232	27633	4.25 ul/l	97
56)	Diethylphthalate	19.88	149	117880	4.80 ul/l	98
57)	4-Chlorophenyl-phenylether	19.98	204	49795	4.34 ul/l	96
58)	Fluorene	19.94	166	110667	4.49 ul/l	98
59)	4-Nitroaniline	20.09	138	33869	5.34 ul/l	97
62)	4,6-Dinitro-2-methylphenol	20.21	198	13025	3.67 ul/l	94
63)	Carbazole	22.94	167	151087	5.31 ul/l	100
64)	n-Nitrosodiphenylamine	20.30	169	92956	4.85 ul/l	98
65)	1,2-Diphenylhydrazine	20.37	77	161609	6.01 ul/l	98
66)	Azobenzene	20.37	77	161609	6.01 ul/l	98
67)	4-Bromophenyl-phenylether	21.22	248	30118	4.37 ul/l	97
68)	Hexachlorobenzene	21.57	284	35540	4.14 ul/l #	71
69)	Atrazine	21.79	58	30866	7.09 ul/l	91
70)	Pentachlorophenol	22.04	266	19834	3.89 ul/l	97
71)	Phenanthrene	22.40	178	156113	5.14 ul/l	96
72)	Anthracene	22.50	178	154558	5.01 ul/l	96
73)	Di-n-butylphthalate	24.07	149	222666	5.44 ul/l	98
74)	Fluoranthene	25.46	202	167190	4.89 ul/l	97
76)	Benzidine	25.83	184	47620	4.04 ul/l	98
77)	Pyrene	26.02	202	172923	5.73 ul/l	95
79)	Butylbenzylphthalate	27.88	149	102664	6.37 ul/l	94
80)	3,3'-Dichlorobenzidine	29.11	252	60750	4.71 ul/l	99
81)	Benzo[a]anthracene	29.11	228	167140	5.28 ul/l	97
82)	bis(2-Ethylhexyl)phthalate	29.42	149	139426	6.20 ul/l	94
83)	Chrysene	29.24	228	149648	5.72 ul/l	96
85)	Di-n-octylphthalate	30.89	149	253165m	6.09 ul/l	
86)	Benzo[b]fluoranthene	31.72	252	157699m	4.87 ul/l	
87)	Benzo[k]fluoranthene	31.77	252	144908	4.82 ul/l	93
88)	Benzo[a]pyrene	32.43	252	152618	5.03 ul/l	94
89)	Indeno[1,2,3-cd]pyrene	34.86	276	160340	4.80 ul/l	77
90)	Dibenz[a,h]anthracene	34.87	278	132376	4.55 ul/l	91
91)	Benzo[g,h,i]perylene	35.46	276	138508	5.37 ul/l	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\E\DATA15\DEC15\E1208\E9454.D Vial: 2
Acq On : 8 Dec 2015 12:37 Operator: JMM
Sample : S5L0816-CAL1 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 5 17:11 2016 Quant Results File: SVE81207.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Thu Jan 07 09:10:48 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1208\E9455.D Vial: 3
Acq On : 8 Dec 2015 15:04 Operator: JMM
Sample : S5L0816-CAL2 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 9:12 2016 Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Mon Dec 07 13:09:48 2015
Response via : Initial Calibration
DataAcq Meth : SVE81207

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.78	152	296854	40.00	ul/l	0.00
21) Naphthalene-d8	14.01	136	1331094	40.00	ul/l	-0.01
37) Acenaphthene-d10	18.57	164	638962	40.00	ul/l	-0.02
61) Phenanthrene-d10	22.35	188	1135647	40.00	ul/l	-0.01
75) Chrysene-d12	29.19	240	1223927	40.00	ul/l	-0.02
84) Perylene-d12	32.59	264	1169143	40.00	ul/l	-0.02

System Monitoring Compounds						
4) 2-Fluorophenol	7.78	112	107582	9.80	ul/l	0.00
Spiked Amount 120.000	Range 15 - 110		Recovery = 8.17%#			
7) Phenol-d5	10.12	99	161046	10.40	ul/l	-0.04
Spiked Amount 120.000	Range 15 - 110		Recovery = 8.67%#			
22) Nitrobenzene-d5	12.24	82	133075	10.72	ul/l	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 10.72%#			
42) 2-Fluorobiphenyl	16.87	172	204743	9.51	ul/l	-0.03
Spiked Amount 100.000	Range 15 - 110		Recovery = 9.51%#			
60) 2,4,6-Tribromophenol	20.61	330	36122	6.65	ul/l	-0.04
Spiked Amount 120.000	Range 15 - 110		Recovery = 5.54%#			
78) Terphenyl-d14	26.51	244	240769	10.11	ul/l	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 10.11%#			

Target Compounds						Qvalue
2) Pyridine	4.43	79	126394	10.22	ul/l	93
3) N-Nitrosodimethylamine	4.47	74	101909	11.35	ul/l	90
5) Benzaldehyde	9.72	77	15115	7.67	ul/l	94
6) Aniline	10.09	93	231716	11.68	ul/l	93
8) Phenol	10.15	94	178202	10.88	ul/l	97
9) bis(2-Chloroethyl)ether	10.28	93	157627	11.00	ul/l	94
10) 2-Chlorophenol	10.34	128	118864	10.41	ul/l	93
11) 1,3-Dichlorobenzene	10.68	146	118351	10.46	ul/l	99
12) 1,4-Dichlorobenzene	10.82	146	123701	10.54	ul/l	100
13) Benzyl alcohol	11.23	79	116398	11.15	ul/l	87
14) 1,2-Dichlorobenzene	11.27	146	117051	10.13	ul/l	99
15) 2-Methylphenol	11.61	108	119034	10.42	ul/l	99
16) bis(2-chloroisopropyl)ethe	11.65	45	323981	15.81	ul/l	89
17) Acetophenone	11.88	105	162208	9.28	ul/l	92
18) 3&4-Methylphenol	11.98	108	130578	10.33	ul/l	97
19) N-Nitroso-di-n-propylamine	11.99	70	122460	11.89	ul/l	87
20) Hexachloroethane	12.04	117	51067	10.42	ul/l	98
23) Nitrobenzene	12.29	77	151593	11.02	ul/l	89
24) Isophorone	12.89	82	334597	11.31	ul/l	96
25) 2-Nitrophenol	13.10	139	69136	10.11	ul/l	95
26) 2,4-Dimethylphenol	13.30	107	117499	9.96	ul/l	96
27) Benzoic Acid	13.56	122	45818m	7.11	ul/l	
28) bis(2-Chloroethoxy)methane	13.54	93	184408	10.67	ul/l	98
29) 2,4-Dichlorophenol	13.71	162	87260	8.89	ul/l	99
30) 1,2,4-Trichlorobenzene	13.92	180	91039	9.06	ul/l	99
31) Naphthalene	14.06	128	358605	10.51	ul/l	99
32) 4-Chloroaniline	14.29	127	160800	10.50	ul/l	98
33) Hexachlorobutadiene	14.58	225	48533	8.41	ul/l #	58
34) Caprolactam	15.12	55	92139	10.79	ul/l	94
35) 4-Chloro-3-methylphenol	15.60	107	100751	9.63	ul/l	100
36) 2-Methylnaphthalene	15.83	142	232075	10.00	ul/l	93
38) 1,2,4,5-tetrachlorobenzene	16.38	216	91134	7.72	ul/l	96
39) Hexachlorocyclopentadiene	16.46	237	46083	11.74	ul/l	96
40) 2,4,6-Trichlorophenol	16.66	196	61157	8.93	ul/l	98
41) 2,4,5-Trichlorophenol	16.75	196	65674	8.99	ul/l	99
43) 1,1'-Biphenyl	17.08	154	260803	8.62	ul/l	94
44) 2-Chloronaphthalene	17.08	162	200690	9.53	ul/l	98
45) 2-Nitroaniline	17.45	65	79339	11.41	ul/l	88
46) Dimethylphthalate	18.06	163	233127	9.57	ul/l	99
47) Acenaphthylene	18.16	152	330512	9.97	ul/l	97
48) 3-Nitroaniline	18.53	138	77513	10.82	ul/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1208\E9455.D Vial: 3
Acq On : 8 Dec 2015 15:04 Operator: JMM
Sample : S5L0816-CAL2 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 9:12 2016 Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Mon Dec 07 13:09:48 2015
Response via : Initial Calibration
DataAcq Meth : SVE81207

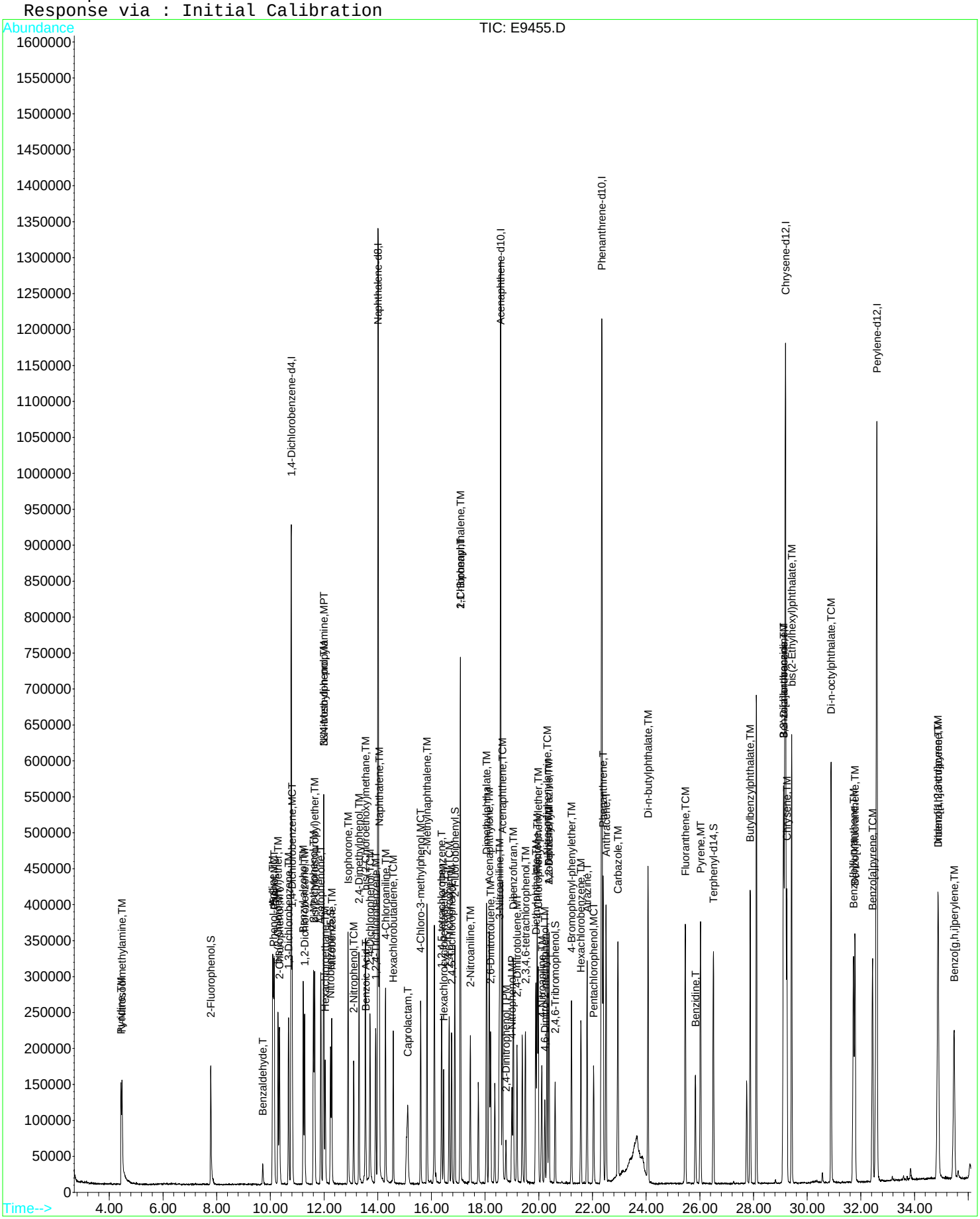
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
49)	Acenaphthene	18.65	153	203544	10.30 ul/l	99
50)	2,4-Dinitrophenol	18.77	184	16357	10.68 ul/l	89
51)	4-Nitrophenol	19.00	109	19673	8.45 ul/l	77
52)	Dibenzofuran	19.05	168	276794	9.73 ul/l	99
53)	2,6-Dinitrotoluene	18.21	165	58121	10.14 ul/l	95
54)	2,4-Dinitrotoluene	19.19	165	72931	9.86 ul/l	94
55)	2,3,4,6-tetrachlorophenol	19.50	232	57094	8.71 ul/l	98
56)	Diethylphthalate	19.89	149	241415	9.76 ul/l	98
57)	4-Chlorophenyl-phenylether	19.99	204	103419	8.95 ul/l	96
58)	Fluorene	19.94	166	224250	9.04 ul/l	100
59)	4-Nitroaniline	20.11	138	76661	11.99 ul/l	100
62)	4,6-Dinitro-2-methylphenol	20.23	198	34644	9.47 ul/l	98
63)	Carbazole	22.95	167	309484	10.58 ul/l	100
64)	n-Nitrosodiphenylamine	20.31	169	187927	9.55 ul/l	100
65)	1,2-Diphenylhydrazine	20.38	77	332097	12.02 ul/l	97
66)	Azobenzene	20.38	77	332097	12.02 ul/l	97
67)	4-Bromophenyl-phenylether	21.22	248	64659	9.14 ul/l	98
68)	Hexachlorobenzene	21.57	284	72419	8.21 ul/l #	72
69)	Atrazine	21.80	58	62852	14.05 ul/l	93
70)	Pentachlorophenol	22.04	266	47229	9.02 ul/l	94
71)	Phenanthrene	22.40	178	323543	10.36 ul/l	97
72)	Anthracene	22.51	178	322147	10.15 ul/l	97
73)	Di-n-butylphthalate	24.07	149	447028	10.63 ul/l	99
74)	Fluoranthene	25.46	202	348957	9.94 ul/l	98
76)	Benzidine	25.84	184	139274	11.63 ul/l	98
77)	Pyrene	26.02	202	362940	11.41 ul/l	95
79)	Butylbenzylphthalate	27.88	149	215470	12.67 ul/l	96
80)	3,3'-Dichlorobenzidine	29.12	252	126433	9.29 ul/l	99
81)	Benzo[a]anthracene	29.12	228	353544	10.60 ul/l	97
82)	bis(2-Ethylhexyl)phthalate	29.42	149	291590	12.29 ul/l	95
83)	Chrysene	29.24	228	313572	11.36 ul/l	97
85)	Di-n-octylphthalate	30.89	149	531560m	12.30 ul/l	
86)	Benzo[b]fluoranthene	31.72	252	333773m	9.93 ul/l	
87)	Benzo[k]fluoranthene	31.78	252	333857m	10.69 ul/l	
88)	Benzo[a]pyrene	32.44	252	324088	10.29 ul/l	94
89)	Indeno[1,2,3-cd]pyrene	34.87	276	337538	9.73 ul/l	76
90)	Dibenz[a,h]anthracene	34.89	278	282221	9.35 ul/l	90
91)	Benzo[g,h,i]perylene	35.48	276	281315	10.49 ul/l	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\E\DATA15\DEC15\E1208\E9455.D Vial: 3
Acq On : 8 Dec 2015 15:04 Operator: JMM
Sample : S5L0816-CAL2 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 9:12 2016 Quant Results File: SVE81207.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Thu Jan 07 09:10:48 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1208\E9456.D Vial: 4
Acq On : 8 Dec 2015 15:48 Operator: JMM
Sample : S5L0816-CAL3 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 9:12 2016 Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Mon Dec 07 13:09:48 2015
Response via : Initial Calibration
DataAcq Meth : SVE81207

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.77	152	290369	40.00	ul/l	-0.01
21) Naphthalene-d8	14.01	136	1273176	40.00	ul/l	-0.01
37) Acenaphthene-d10	18.58	164	607041	40.00	ul/l	-0.01
61) Phenanthrene-d10	22.35	188	1085725	40.00	ul/l	-0.01
75) Chrysene-d12	29.19	240	1193449	40.00	ul/l	-0.02
84) Perylene-d12	32.60	264	1132813	40.00	ul/l	-0.02

System Monitoring Compounds						
4) 2-Fluorophenol	7.78	112	213336	19.86	ul/l	-0.01
Spiked Amount 120.000	Range 15 - 110		Recovery = 16.55%			
7) Phenol-d5	10.12	99	311443	20.56	ul/l	-0.03
Spiked Amount 120.000	Range 15 - 110		Recovery = 17.13%			
22) Nitrobenzene-d5	12.25	82	253075	21.32	ul/l	-0.02
Spiked Amount 100.000	Range 30 - 130		Recovery = 21.32%#			
42) 2-Fluorobiphenyl	16.88	172	389127	19.01	ul/l	-0.02
Spiked Amount 100.000	Range 15 - 110		Recovery = 19.01%			
60) 2,4,6-Tribromophenol	20.62	330	73947	14.33	ul/l	-0.03
Spiked Amount 120.000	Range 15 - 110		Recovery = 11.94%#			
78) Terphenyl-d14	26.51	244	470696	20.27	ul/l	-0.02
Spiked Amount 100.000	Range 30 - 130		Recovery = 20.27%#			

Target Compounds						Qvalue
2) Pyridine	4.42	79	240793	19.91	ul/l	93
3) N-Nitrosodimethylamine	4.48	74	198230	22.58	ul/l	91
5) Benzaldehyde	9.71	77	29914	15.51	ul/l	96
6) Aniline	10.09	93	430102	22.16	ul/l	95
8) Phenol	10.15	94	338068	21.11	ul/l	95
9) bis(2-Chloroethyl)ether	10.29	93	298339	21.29	ul/l	93
10) 2-Chlorophenol	10.34	128	234311	20.98	ul/l	93
11) 1,3-Dichlorobenzene	10.68	146	233055	21.06	ul/l	100
12) 1,4-Dichlorobenzene	10.82	146	236913	20.65	ul/l	98
13) Benzyl alcohol	11.23	79	225675	22.09	ul/l	86
14) 1,2-Dichlorobenzene	11.27	146	229583	20.31	ul/l	98
15) 2-Methylphenol	11.61	108	233514	20.90	ul/l	100
16) bis(2-chloroisopropyl)ethe	11.65	45	624565	31.16	ul/l	93
17) Acetophenone	11.89	105	313462	18.34	ul/l	92
18) 3&4-Methylphenol	11.99	108	253368	20.49	ul/l	95
19) N-Nitroso-di-n-propylamine	12.00	70	234555	23.27	ul/l	87
20) Hexachloroethane	12.04	117	102663	21.42	ul/l	99
23) Nitrobenzene	12.29	77	289459	22.00	ul/l	92
24) Isophorone	12.90	82	630384	22.27	ul/l	98
25) 2-Nitrophenol	13.11	139	134735	20.60	ul/l	96
26) 2,4-Dimethylphenol	13.31	107	229969	20.38	ul/l	96
27) Benzoic Acid	13.66	122	76617m	12.44	ul/l	
28) bis(2-Chloroethoxy)methane	13.55	93	355555	21.51	ul/l	98
29) 2,4-Dichlorophenol	13.72	162	174127	18.55	ul/l	99
30) 1,2,4-Trichlorobenzene	13.93	180	176543	18.37	ul/l	98
31) Naphthalene	14.06	128	682446	20.91	ul/l	100
32) 4-Chloroaniline	14.30	127	310741	21.22	ul/l	98
33) Hexachlorobutadiene	14.58	225	94329	17.08	ul/l #	57
34) Caprolactam	15.19	55	175834	21.52	ul/l	92
35) 4-Chloro-3-methylphenol	15.61	107	198121	19.79	ul/l	98
36) 2-Methylnaphthalene	15.84	142	451212	20.33	ul/l	94
38) 1,2,4,5-tetrachlorobenzene	16.38	216	174842	15.59	ul/l	97
39) Hexachlorocyclopentadiene	16.46	237	97648	20.08	ul/l	96
40) 2,4,6-Trichlorophenol	16.67	196	122330	18.80	ul/l	96
41) 2,4,5-Trichlorophenol	16.76	196	127066	18.32	ul/l	97
43) 1,1'-Biphenyl	17.09	154	515356	17.93	ul/l	94
44) 2-Chloronaphthalene	17.08	162	402907	20.15	ul/l	97
45) 2-Nitroaniline	17.46	65	153716	23.26	ul/l	91
46) Dimethylphthalate	18.07	163	444094	19.20	ul/l	99
47) Acenaphthylene	18.16	152	629337	19.98	ul/l	98
48) 3-Nitroaniline	18.54	138	153428	22.54	ul/l #	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1208\E9456.D Vial: 4
Acq On : 8 Dec 2015 15:48 Operator: JMM
Sample : S5L0816-CAL3 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 9:12 2016 Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Mon Dec 07 13:09:48 2015
Response via : Initial Calibration
DataAcq Meth : SVE81207

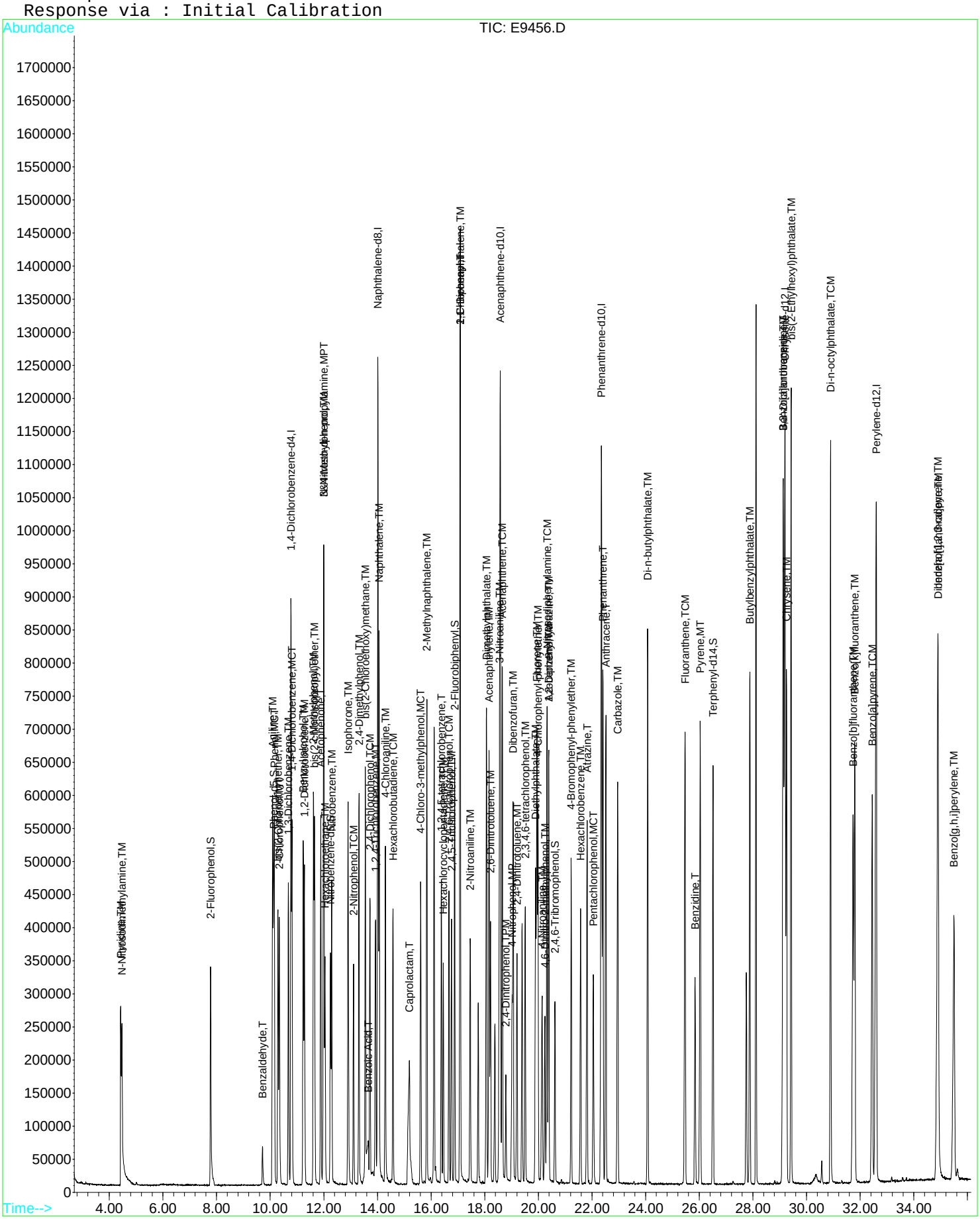
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
49)	Acenaphthene	18.65	153	393989	20.99	ul/l		99
50)	2,4-Dinitrophenol	18.79	184	48245	18.75	ul/l		95
51)	4-Nitrophenol	19.02	109	41357	18.71	ul/l		78
52)	Dibenzofuran	19.06	168	533882	19.75	ul/l		99
53)	2,6-Dinitrotoluene	18.22	165	113195	20.80	ul/l		94
54)	2,4-Dinitrotoluene	19.21	165	145154	20.66	ul/l		92
55)	2,3,4,6-tetrachlorophenol	19.51	232	113137	18.17	ul/l		98
56)	Diethylphthalate	19.89	149	466335	19.84	ul/l		98
57)	4-Chlorophenyl-phenylether	19.99	204	202219	18.41	ul/l		96
58)	Fluorene	19.95	166	441553	18.74	ul/l		98
59)	4-Nitroaniline	20.14	138	145752	24.00	ul/l		99
62)	4,6-Dinitro-2-methylphenol	20.25	198	82565	21.98	ul/l		99
63)	Carbazole	22.96	167	605133	21.63	ul/l		100
64)	n-Nitrosodiphenylamine	20.32	169	366674	19.49	ul/l		100
65)	1,2-Diphenylhydrazine	20.39	77	635197	24.05	ul/l		97
66)	Azobenzene	20.39	77	635197	24.05	ul/l		97
67)	4-Bromophenyl-phenylether	21.23	248	125120	18.49	ul/l		98
68)	Hexachlorobenzene	21.58	284	141207	16.74	ul/l	#	39
69)	Atrazine	21.82	58	121964	28.53	ul/l		93
70)	Pentachlorophenol	22.05	266	92152	18.41	ul/l		97
71)	Phenanthrene	22.40	178	624103	20.91	ul/l		98
72)	Anthracene	22.52	178	628411	20.71	ul/l		97
73)	Di-n-butylphthalate	24.08	149	884201	21.99	ul/l		99
74)	Fluoranthene	25.47	202	682694	20.34	ul/l		97
76)	Benzidine	25.84	184	283594	24.55	ul/l		97
77)	Pyrene	26.04	202	697474	22.48	ul/l		96
79)	Butylbenzylphthalate	27.89	149	412753	24.89	ul/l		97
80)	3,3'-Dichlorobenzidine	29.13	252	252232	19.00	ul/l		99
81)	Benzo[a]anthracene	29.12	228	699974	21.52	ul/l		97
82)	bis(2-Ethylhexyl)phthalate	29.43	149	578569	25.00	ul/l		95
83)	Chrysene	29.25	228	617614	22.95	ul/l		97
85)	Di-n-octylphthalate	30.90	149	1020040m	24.37	ul/l		
86)	Benzo[b]fluoranthene	31.74	252	646102	19.83	ul/l		94
87)	Benzo[k]fluoranthene	31.80	252	600976	19.86	ul/l		93
88)	Benzo[a]pyrene	32.45	252	631870	20.71	ul/l		94
89)	Indeno[1,2,3-cd]pyrene	34.89	276	696415	20.71	ul/l		76
90)	Dibenz[a,h]anthracene	34.91	278	580350	19.84	ul/l		90
91)	Benzo[g,h,i]perylene	35.50	276	571001	21.98	ul/l		89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\E\DATA15\DEC15\E1208\E9456.D Vial: 4
Acq On : 8 Dec 2015 15:48 Operator: JMM
Sample : S5L0816-CAL3 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 9:12 2016 Quant Results File: SVE81207.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Thu Jan 07 09:10:48 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1208\E9457.D Vial: 5
Acq On : 8 Dec 2015 16:33 Operator: JMM
Sample : S5L0816-CAL4 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 9:12 2016 Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Mon Dec 07 13:09:48 2015
Response via : Initial Calibration
DataAcq Meth : SVE81207

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.78	152	278594	40.00	ul/l	0.00
21) Naphthalene-d8	14.03	136	1237013	40.00	ul/l	0.00
37) Acenaphthene-d10	18.59	164	589522	40.00	ul/l	0.00
61) Phenanthrene-d10	22.36	188	982841	40.00	ul/l	0.00
75) Chrysene-d12	29.21	240	1101149	40.00	ul/l	0.00
84) Perylene-d12	32.61	264	1017361	40.00	ul/l	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	7.79	112	567685	55.09	ul/l	0.00
Spiked Amount 120.000	Range 15 - 110		Recovery = 45.91%			
7) Phenol-d5	10.16	99	827765	56.96	ul/l	0.00
Spiked Amount 120.000	Range 15 - 110		Recovery = 47.47%			
22) Nitrobenzene-d5	12.26	82	661970	57.41	ul/l	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 57.41%			
42) 2-Fluorobiphenyl	16.90	172	1013837	51.01	ul/l	0.00
Spiked Amount 100.000	Range 15 - 110		Recovery = 51.01%			
60) 2,4,6-Tribromophenol	20.64	330	191484	38.20	ul/l	0.00
Spiked Amount 120.000	Range 15 - 110		Recovery = 31.83%			
78) Terphenyl-d14	26.53	244	1133769	52.92	ul/l	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 52.92%			

Target Compounds						Qvalue
2) Pyridine	4.41	79	625027	53.86	ul/l	93
3) N-Nitrosodimethylamine	4.48	74	508586	60.38	ul/l	92
5) Benzaldehyde	9.71	77	72490	39.17	ul/l	92
6) Aniline	10.10	93	1083771	58.20	ul/l	95
8) Phenol	10.19	94	895022	58.25	ul/l	97
9) bis(2-Chloroethyl)ether	10.30	93	779215	57.96	ul/l	76
10) 2-Chlorophenol	10.35	128	616642	57.56	ul/l	91
11) 1,3-Dichlorobenzene	10.69	146	588747	55.44	ul/l	98
12) 1,4-Dichlorobenzene	10.82	146	620554	56.37	ul/l	99
13) Benzyl alcohol	11.26	79	588151	60.01	ul/l	88
14) 1,2-Dichlorobenzene	11.28	146	603959	55.69	ul/l	98
15) 2-Methylphenol	11.64	108	627074	58.51	ul/l	100
16) bis(2-chloroisopropyl)ethe	11.66	45	1606094	83.51	ul/l #	74
17) Acetophenone	11.91	105	803592	49.01	ul/l	93
18) 3&4-Methylphenol	12.03	108	693169	58.42	ul/l	95
19) N-Nitroso-di-n-propylamine	12.05	70	643204	66.52	ul/l	90
20) Hexachloroethane	12.05	117	285107	62.01	ul/l	95
23) Nitrobenzene	12.32	77	741329	57.99	ul/l	93
24) Isophorone	12.95	82	1556039	56.59	ul/l	97
25) 2-Nitrophenol	13.13	139	354408	55.76	ul/l	96
26) 2,4-Dimethylphenol	13.34	107	591920	53.98	ul/l	97
27) Benzoic Acid	13.84	122	275321m	46.00	ul/l	
28) bis(2-Chloroethoxy)methane	13.57	93	902837	56.23	ul/l	99
29) 2,4-Dichlorophenol	13.75	162	469290	51.45	ul/l	98
30) 1,2,4-Trichlorobenzene	13.93	180	464994	49.80	ul/l	98
31) Naphthalene	14.08	128	1744824	55.03	ul/l	99
32) 4-Chloroaniline	14.31	127	801668	56.35	ul/l	99
33) Hexachlorobutadiene	14.59	225	249965	46.59	ul/l #	60
34) Caprolactam	15.33	55	323854	40.80	ul/l	95
35) 4-Chloro-3-methylphenol	15.65	107	500219	51.42	ul/l	98
36) 2-Methylnaphthalene	15.86	142	1133728	52.56	ul/l	92
38) 1,2,4,5-tetrachlorobenzene	16.40	216	455824	41.86	ul/l	97
39) Hexachlorocyclopentadiene	16.46	237	276939	49.12	ul/l	96
40) 2,4,6-Trichlorophenol	16.69	196	323336	51.16	ul/l	98
41) 2,4,5-Trichlorophenol	16.79	196	339327	50.37	ul/l	99
43) 1,1'-Biphenyl	17.11	154	1373714	49.21	ul/l	95
44) 2-Chloronaphthalene	17.10	162	1083929	55.81	ul/l	98
45) 2-Nitroaniline	17.49	65	397680	61.97	ul/l	90
46) Dimethylphthalate	18.10	163	1116385	49.70	ul/l	99
47) Acenaphthylene	18.18	152	1568879	51.28	ul/l	99
48) 3-Nitroaniline	18.59	138	399668	60.45	ul/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1208\E9457.D Vial: 5
Acq On : 8 Dec 2015 16:33 Operator: JMM
Sample : S5L0816-CAL4 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 9:12 2016 Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Mon Dec 07 13:09:48 2015
Response via : Initial Calibration
DataAcq Meth : SVE81207

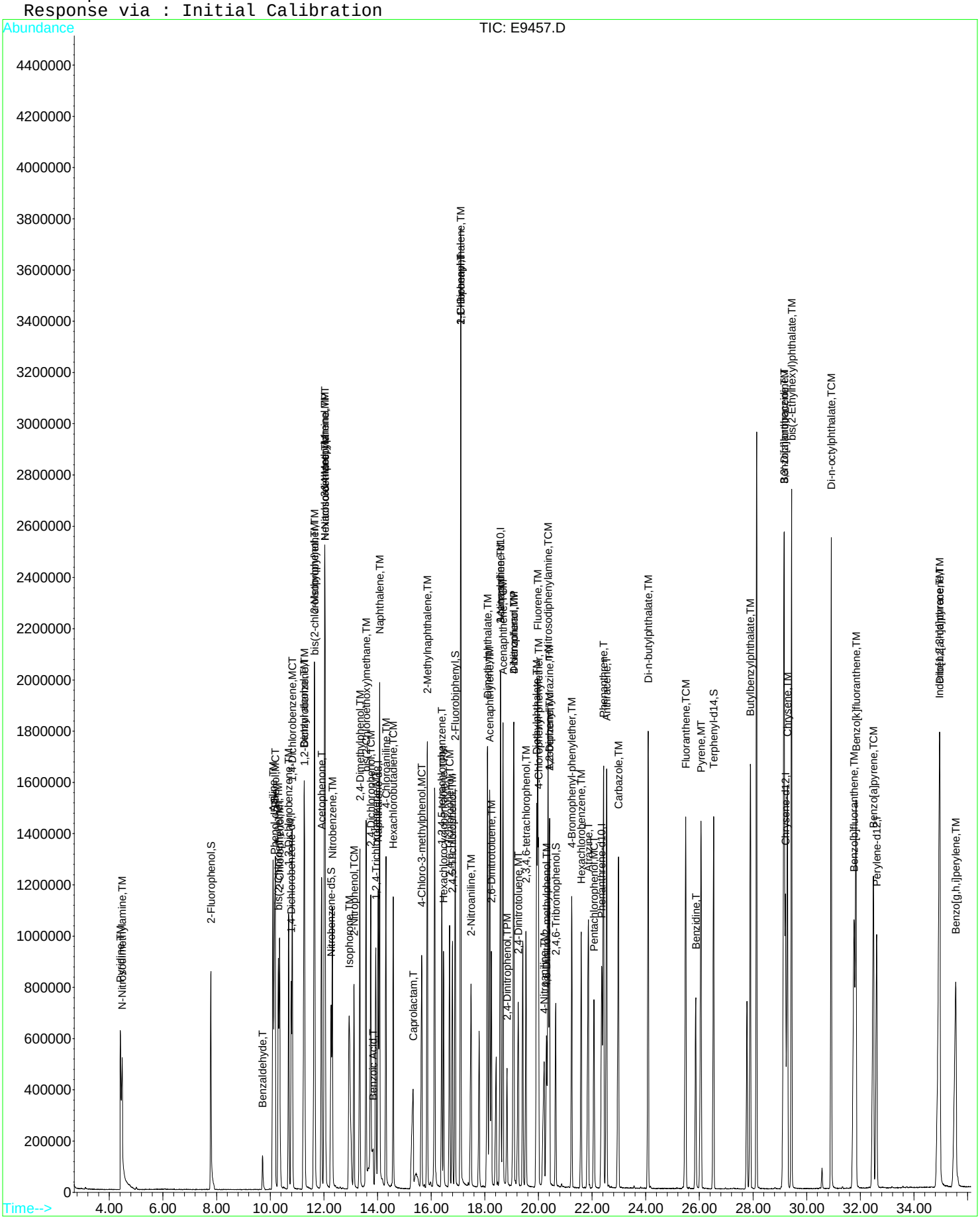
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
49)	Acenaphthene	18.68	153	1000885	54.91 ul/l	98
50)	2,4-Dinitrophenol	18.83	184	161245	47.81 ul/l	98
51)	4-Nitrophenol	19.07	109	117698	54.82 ul/l #	1
52)	Dibenzofuran	19.09	168	1357058	51.69 ul/l #	59
53)	2,6-Dinitrotoluene	18.25	165	291110	55.07 ul/l	96
54)	2,4-Dinitrotoluene	19.25	165	366452	53.71 ul/l	96
55)	2,3,4,6-tetrachlorophenol	19.53	232	291162	48.14 ul/l	97
56)	Diethylphthalate	19.93	149	1173365	51.40 ul/l	100
57)	4-Chlorophenyl-phenylether	20.00	204	532114	49.89 ul/l	95
58)	Fluorene	19.97	166	1172774	51.26 ul/l	99
59)	4-Nitroaniline	20.21	138	363420	61.61 ul/l	98
62)	4,6-Dinitro-2-methylphenol	20.30	198	227592	55.26 ul/l	99
63)	Carbazole	22.98	167	1442509	56.97 ul/l	100
64)	n-Nitrosodiphenylamine	20.36	169	948983	55.71 ul/l	98
65)	1,2-Diphenylhydrazine	20.41	77	1655313m	69.22 ul/l	
66)	Azobenzene	20.41	77	1658431m	69.35 ul/l	
67)	4-Bromophenyl-phenylether	21.25	248	309911	50.59 ul/l	97
68)	Hexachlorobenzene	21.60	284	352977	46.24 ul/l #	72
69)	Atrazine	21.86	58	288890	74.64 ul/l	94
70)	Pentachlorophenol	22.07	266	239841	52.92 ul/l	97
71)	Phenanthrene	22.43	178	1530513	56.64 ul/l	99
72)	Anthracene	22.54	178	1534858	55.88 ul/l	99
73)	Di-n-butylphthalate	24.09	149	2059945	56.60 ul/l	100
74)	Fluoranthene	25.49	202	1600745	52.68 ul/l	98
76)	Benzidine	25.87	184	726149	68.54 ul/l	98
77)	Pyrene	26.06	202	1647188	57.54 ul/l	98
79)	Butylbenzylphthalate	27.91	149	973819	63.65 ul/l	97
80)	3,3'-Dichlorobenzidine	29.16	252	668529	54.59 ul/l	98
81)	Benzo[a]anthracene	29.16	228	1726933	57.53 ul/l	99
82)	bis(2-Ethylhexyl)phthalate	29.44	149	1374916	64.40 ul/l	98
83)	Chrysene	29.28	228	1511899	60.89 ul/l	98
85)	Di-n-octylphthalate	30.92	149	2378381m	63.27 ul/l	
86)	Benzo[b]fluoranthene	31.77	252	1614640	55.19 ul/l	95
87)	Benzo[k]fluoranthene	31.84	252	1527950m	56.22 ul/l	
88)	Benzo[a]pyrene	32.49	252	1544639	56.38 ul/l	94
89)	Indeno[1,2,3-cd]pyrene	34.95	276	1749595	57.94 ul/l	78
90)	Dibenz[a,h]anthracene	34.97	278	1515227	57.67 ul/l	92
91)	Benzo[g,h,i]perylene	35.56	276	1393875	59.75 ul/l	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\E\DATA15\DEC15\E1208\E9457.D Vial: 5
Acq On : 8 Dec 2015 16:33 Operator: JMM
Sample : S5L0816-CAL4 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 9:12 2016 Quant Results File: SVE81207.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Thu Jan 07 09:10:48 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1208\E9458.D Vial: 6
Acq On : 8 Dec 2015 18:02 Operator: JMM
Sample : S5L0816-CAL5 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 9:13 2016 Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Mon Dec 07 13:09:48 2015
Response via : Initial Calibration
DataAcq Meth : SVE81207

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.79	152	345658	40.00	ul/l	0.00
21) Naphthalene-d8	14.04	136	1543133	40.00	ul/l	0.01
37) Acenaphthene-d10	18.60	164	736653	40.00	ul/l	0.00
61) Phenanthrene-d10	22.37	188	1201935	40.00	ul/l	0.01
75) Chrysene-d12	29.23	240	1488286	40.00	ul/l	0.01
84) Perylene-d12	32.63	264	1267770	40.00	ul/l	0.01

System Monitoring Compounds						
4) 2-Fluorophenol	7.80	112	1073739	83.98	ul/l	0.01
Spiked Amount 120.000	Range 15 - 110		Recovery = 69.98%			
7) Phenol-d5	10.19	99	1571385	87.15	ul/l	0.04
Spiked Amount 120.000	Range 15 - 110		Recovery = 72.63%			
22) Nitrobenzene-d5	12.29	82	1247404	86.72	ul/l	0.02
Spiked Amount 100.000	Range 30 - 130		Recovery = 86.72%			
42) 2-Fluorobiphenyl	16.91	172	1886841	75.98	ul/l	0.01
Spiked Amount 100.000	Range 15 - 110		Recovery = 75.98%			
60) 2,4,6-Tribromophenol	20.67	330	368601	58.85	ul/l	0.02
Spiked Amount 120.000	Range 15 - 110		Recovery = 49.04%			
78) Terphenyl-d14	26.55	244	2117295	73.12	ul/l	0.01
Spiked Amount 100.000	Range 30 - 130		Recovery = 73.12%			

Target Compounds						Qvalue
2) Pyridine	4.41	79	1130887	78.55	ul/l	94
3) N-Nitrosodimethylamine	4.49	74	940879	90.03	ul/l	89
5) Benzaldehyde	9.71	77	162646	70.84	ul/l	95
6) Aniline	10.12	93	1978448	85.63	ul/l	96
8) Phenol	10.22	94	1701345	89.24	ul/l	97
9) bis(2-Chloroethyl)ether	10.31	93	1459097	87.48	ul/l	76
10) 2-Chlorophenol	10.36	128	1191001	89.60	ul/l	90
11) 1,3-Dichlorobenzene	10.69	146	1107045	84.02	ul/l	98
12) 1,4-Dichlorobenzene	10.83	146	1174434	85.98	ul/l	99
13) Benzyl alcohol	11.29	79	1131207	93.02	ul/l	92
14) 1,2-Dichlorobenzene	11.29	146	1187067	88.22	ul/l	100
15) 2-Methylphenol	11.67	108	1223836	92.03	ul/l	100
16) bis(2-chloroisopropyl)ethe	11.67	45	2935830	123.04	ul/l #	72
17) Acetophenone	11.94	105	1481587	72.82	ul/l	93
18) 3&4-Methylphenol	12.06	108	1454727	98.82	ul/l	99
19) N-Nitroso-di-n-propylamine	12.08	70	1196116	99.70	ul/l	92
20) Hexachloroethane	12.05	117	581502	101.93	ul/l	94
23) Nitrobenzene	12.34	77	1389454	87.13	ul/l	94
24) Isophorone	13.01	82	2882934	84.04	ul/l	95
25) 2-Nitrophenol	13.14	139	689057	86.90	ul/l	96
26) 2,4-Dimethylphenol	13.38	107	1105766	80.84	ul/l	99
27) Benzoic Acid	13.95	122	641103m	85.86	ul/l	
28) bis(2-Chloroethoxy)methane	13.60	93	1662519	83.00	ul/l	100
29) 2,4-Dichlorophenol	13.78	162	897994	78.92	ul/l	99
30) 1,2,4-Trichlorobenzene	13.95	180	885949	76.06	ul/l	99
31) Naphthalene	14.10	128	3188450	80.61	ul/l	96
32) 4-Chloroaniline	14.33	127	1516343	85.44	ul/l	99
33) Hexachlorobutadiene	14.59	225	479147	71.58	ul/l #	60
34) Caprolactam	15.44	55	790957m	79.88	ul/l	
35) 4-Chloro-3-methylphenol	15.68	107	939881	77.45	ul/l	99
36) 2-Methylnaphthalene	15.87	142	2146040	79.76	ul/l	92
38) 1,2,4,5-tetrachlorobenzene	16.41	216	870633	63.98	ul/l	99
39) Hexachlorocyclopentadiene	16.47	237	526692	72.17	ul/l	98
40) 2,4,6-Trichlorophenol	16.71	196	619520	78.44	ul/l	98
41) 2,4,5-Trichlorophenol	16.83	196	634070	75.32	ul/l	99
43) 1,1'-Biphenyl	17.13	154	2654972	76.12	ul/l	94
44) 2-Chloronaphthalene	17.12	162	2118073	87.27	ul/l	96
45) 2-Nitroaniline	17.52	65	745360	92.95	ul/l	90
46) Dimethylphthalate	18.15	163	2127944	75.81	ul/l	99
47) Acenaphthylene	18.21	152	3023581	79.10	ul/l	99
48) 3-Nitroaniline	18.63	138	740787	89.67	ul/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1208\E9458.D Vial: 6
Acq On : 8 Dec 2015 18:02 Operator: JMM
Sample : S5L0816-CAL5 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 9:13 2016 Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Mon Dec 07 13:09:48 2015
Response via : Initial Calibration
DataAcq Meth : SVE81207

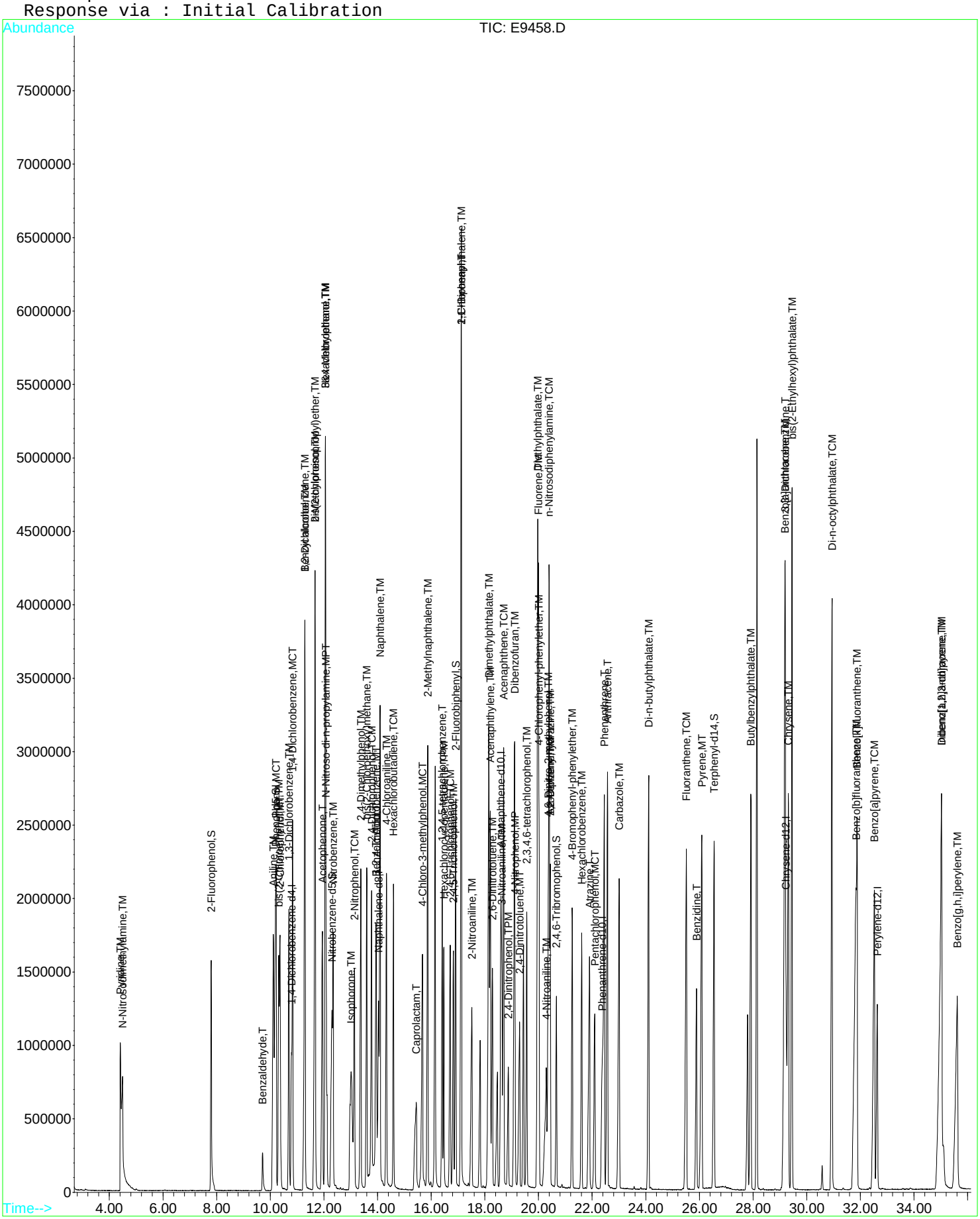
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
49)	Acenaphthene	18.71	153	1882950	82.68	ul/l		99
50)	2,4-Dinitrophenol	18.87	184	333040	74.56	ul/l		98
51)	4-Nitrophenol	19.13	109	223582	83.34	ul/l	#	1
52)	Dibenzofuran	19.10	168	2527174	77.03	ul/l	#	55
53)	2,6-Dinitrotoluene	18.28	165	547804	82.93	ul/l		97
54)	2,4-Dinitrotoluene	19.30	165	682010	80.00	ul/l		96
55)	2,3,4,6-tetrachlorophenol	19.56	232	565884	74.88	ul/l		97
56)	Diethylphthalate	19.97	149	2361382	82.78	ul/l		98
57)	4-Chlorophenyl-phenylether	20.02	204	1102840	82.74	ul/l		93
58)	Fluorene	19.99	166	2453113	85.80	ul/l		98
59)	4-Nitroaniline	20.29	138	671100	91.05	ul/l		98
62)	4,6-Dinitro-2-methylphenol	20.36	198	471540	81.94	ul/l		98
63)	Carbazole	23.01	167	2645439	85.43	ul/l		99
64)	n-Nitrosodiphenylamine	20.39	169	1894602	90.95	ul/l		97
65)	1,2-Diphenylhydrazine	20.44	77	3262136	111.55	ul/l		75
66)	Azobenzene	20.44	77	3262136	111.55	ul/l		75
67)	4-Bromophenyl-phenylether	21.26	248	586028	78.23	ul/l		97
68)	Hexachlorobenzene	21.61	284	656348	70.31	ul/l	#	72
69)	Atrazine	21.90	58	519346	109.73	ul/l		93
70)	Pentachlorophenol	22.10	266	449197	81.05	ul/l		98
71)	Phenanthrene	22.45	178	2793717	84.54	ul/l		99
72)	Anthracene	22.57	178	2840885	84.58	ul/l		99
73)	Di-n-butylphthalate	24.11	149	3668179	82.41	ul/l		99
74)	Fluoranthene	25.52	202	2905794	78.20	ul/l		99
76)	Benzidine	25.89	184	1383441	96.72	ul/l		97
77)	Pyrene	26.09	202	3026238	78.21	ul/l		100
79)	Butylbenzylphthalate	27.92	149	1770314	85.61	ul/l		96
80)	3,3'-Dichlorobenzidine	29.20	252	1386878	83.79	ul/l		98
81)	Benzo[a]anthracene	29.18	228	3284691	80.97	ul/l		99
82)	bis(2-Ethylhexyl)phthalate	29.46	149	2582509	89.50	ul/l		98
83)	Chrysene	29.32	228	2868449	85.47	ul/l		98
85)	Di-n-octylphthalate	30.95	149	4304347m	91.89	ul/l		
86)	Benzo[b]fluoranthene	31.83	252	3120152m	85.59	ul/l		
87)	Benzo[k]fluoranthene	31.88	252	2807670m	82.90	ul/l		
88)	Benzo[a]pyrene	32.52	252	2868271	84.02	ul/l		95
89)	Indeno[1,2,3-cd]pyrene	35.03	276	3209090	85.29	ul/l		79
90)	Dibenz[a,h]anthracene	35.02	278	2774852	84.75	ul/l		94
91)	Benzo[g,h,i]perylene	35.62	276	2483754	85.43	ul/l		90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\E\DATA15\DEC15\E1208\E9458.D Vial: 6
Acq On : 8 Dec 2015 18:02 Operator: JMM
Sample : S5L0816-CAL5 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 9:13 2016 Quant Results File: SVE81207.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Thu Jan 07 09:10:48 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1208\E9459.D Vial: 7
Acq On : 8 Dec 2015 18:47 Operator: JMM
Sample : S5L0816-CAL6 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 9:13 2016 Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Mon Dec 07 13:09:48 2015
Response via : Initial Calibration
DataAcq Meth : SVE81207

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.79	152	306564	40.00	ul/l	0.00
21) Naphthalene-d8	14.04	136	1349489	40.00	ul/l	0.01
37) Acenaphthene-d10	18.60	164	598637	40.00	ul/l	0.00
61) Phenanthrene-d10	22.38	188	1007028	40.00	ul/l	0.02
75) Chrysene-d12	29.23	240	1316783	40.00	ul/l	0.02
84) Perylene-d12	32.64	264	1034490	40.00	ul/l	0.02

System Monitoring Compounds						
4) 2-Fluorophenol	7.80	112	1460246	128.78	ul/l	0.02
Spiked Amount 120.000	Range 15 - 110		Recovery = 107.32%			
7) Phenol-d5	10.21	99	2135373	133.53	ul/l	0.05
Spiked Amount 120.000	Range 15 - 110		Recovery = 111.27%#			
22) Nitrobenzene-d5	12.30	82	1653820	131.47	ul/l	0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 131.47%#			
42) 2-Fluorobiphenyl	16.93	172	2518803	124.81	ul/l	0.02
Spiked Amount 100.000	Range 15 - 110		Recovery = 124.81%#			
60) 2,4,6-Tribromophenol	20.68	330	490905	96.45	ul/l	0.04
Spiked Amount 120.000	Range 15 - 110		Recovery = 80.38%			
78) Terphenyl-d14	26.56	244	2786534	108.77	ul/l	0.02
Spiked Amount 100.000	Range 30 - 130		Recovery = 108.77%			

Target Compounds						Qvalue
2) Pyridine	4.40	79	1487874	116.53	ul/l	93
3) N-Nitrosodimethylamine	4.49	74	1272008	137.24	ul/l	90
5) Benzaldehyde	9.70	77	160821	78.98	ul/l	93
6) Aniline	10.12	93	2597548	126.76	ul/l	95
8) Phenol	10.24	94	2301700	136.13	ul/l	98
9) bis(2-Chloroethyl)ether	10.33	93	1973493	133.40	ul/l	77
10) 2-Chlorophenol	10.38	128	1630641	138.32	ul/l	90
11) 1,3-Dichlorobenzene	10.69	146	1477598	126.44	ul/l	97
12) 1,4-Dichlorobenzene	10.84	146	1560975	128.85	ul/l	98
13) Benzyl alcohol	11.32	79	1520881	141.02	ul/l	91
14) 1,2-Dichlorobenzene	11.29	146	1570175	131.58	ul/l	99
15) 2-Methylphenol	11.68	108	1669915	141.59	ul/l	100
16) bis(2-chloroisopropyl)ethe	11.68	45	3827167	180.85	ul/l #	70
17) Acetophenone	11.96	105	1936143	107.30	ul/l	93
18) 3&4-Methylphenol	12.08	108	1902065	145.68	ul/l	98
19) N-Nitroso-di-n-propylamine	12.14	70	1559083m	146.52	ul/l	
20) Hexachloroethane	12.05	117	748321	147.90	ul/l	94
23) Nitrobenzene	12.36	77	1838919	131.86	ul/l	94
24) Isophorone	13.05	82	3771606m	125.72	ul/l	
25) 2-Nitrophenol	13.15	139	933772	134.66	ul/l	96
26) 2,4-Dimethylphenol	13.40	107	1481616	123.86	ul/l	98
27) Benzoic Acid	14.08	122	853324m	130.68	ul/l	
28) bis(2-Chloroethoxy)methane	13.61	93	2174626	124.15	ul/l	99
29) 2,4-Dichlorophenol	13.79	162	1219813	122.58	ul/l	99
30) 1,2,4-Trichlorobenzene	13.95	180	1181676	116.01	ul/l	100
31) Naphthalene	14.10	128	4135597	119.56	ul/l	95
32) 4-Chloroaniline	14.35	127	1993414	128.44	ul/l	100
33) Hexachlorobutadiene	14.60	225	650480	111.13	ul/l #	59
34) Caprolactam	15.51	55	965016m	111.44	ul/l	
35) 4-Chloro-3-methylphenol	15.70	107	1238500	116.70	ul/l	99
36) 2-Methylnaphthalene	15.88	142	2874711	122.17	ul/l	92
38) 1,2,4,5-tetrachlorobenzene	16.42	216	1177040	106.44	ul/l	98
39) Hexachlorocyclopentadiene	16.48	237	707736	116.09	ul/l	98
40) 2,4,6-Trichlorophenol	16.72	196	830790	129.44	ul/l	98
41) 2,4,5-Trichlorophenol	16.85	196	873991	127.75	ul/l	99
43) 1,1'-Biphenyl	17.14	154	3429637	121.00	ul/l	92
44) 2-Chloronaphthalene	17.13	162	2824816	143.23	ul/l	96
45) 2-Nitroaniline	17.53	65	973960	149.46	ul/l	91
46) Dimethylphthalate	18.17	163	2898403	127.06	ul/l	98
47) Acenaphthylene	18.22	152	4176912	134.46	ul/l	98
48) 3-Nitroaniline	18.66	138	979329	145.87	ul/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\E\DATA15\DEC15\E1208\E9459.D Vial: 7
Acq On : 8 Dec 2015 18:47 Operator: JMM
Sample : S5L0816-CAL6 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 9:13 2016 Quant Results File: SVE81207.RES

Quant Method : D:\E\METHODS\SVE81207.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Mon Dec 07 13:09:48 2015
Response via : Initial Calibration
DataAcq Meth : SVE81207

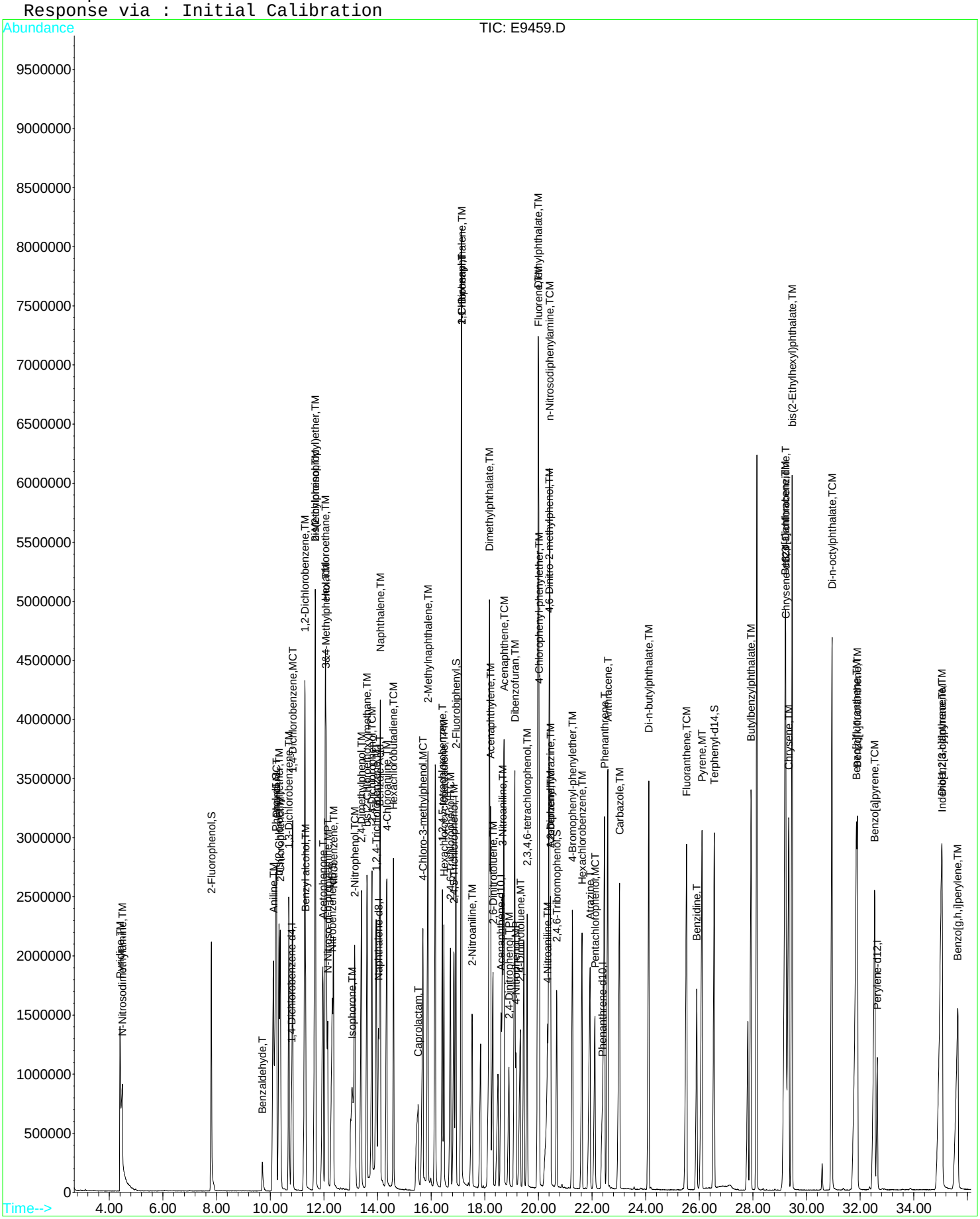
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
49)	Acenaphthene	18.72	153	2535635	137.00 ul/l	99
50)	2,4-Dinitrophenol	18.90	184	462332	122.52 ul/l	98
51)	4-Nitrophenol	19.16	109	283291	129.95 ul/l #	1
52)	Dibenzofuran	19.12	168	3264546	122.45 ul/l	75
53)	2,6-Dinitrotoluene	18.31	165	725009	135.07 ul/l	99
54)	2,4-Dinitrotoluene	19.33	165	887332	128.08 ul/l	97
55)	2,3,4,6-tetrachlorophenol	19.58	232	763279	124.29 ul/l	96
56)	Diethylphthalate	19.99	149	3157135	136.19 ul/l	95
57)	4-Chlorophenyl-phenylether	20.03	204	1533391	141.57 ul/l	92
58)	Fluorene	20.01	166	3333822	143.49 ul/l	97
59)	4-Nitroaniline	20.33	138	888084	148.27 ul/l	97
62)	4,6-Dinitro-2-methylphenol	20.39	198	696908	121.76 ul/l	83
63)	Carbazole	23.03	167	3435665	132.42 ul/l	98
64)	n-Nitrosodiphenylamine	20.42	169	2606472	149.34 ul/l	96
65)	1,2-Diphenylhydrazine	20.46	77	4361468m	178.01 ul/l	
66)	Azobenzene	20.46	77	4360288m	177.96 ul/l	
67)	4-Bromophenyl-phenylether	21.27	248	782720	124.71 ul/l	97
68)	Hexachlorobenzene	21.63	284	873824	111.72 ul/l #	71
69)	Atrazine	21.93	58	663933	167.43 ul/l	92
70)	Pentachlorophenol	22.11	266	594150	127.95 ul/l	98
71)	Phenanthrene	22.47	178	3618667	130.70 ul/l	98
72)	Anthracene	22.59	178	3669442	130.40 ul/l	98
73)	Di-n-butylphthalate	24.12	149	4681032	125.52 ul/l	98
74)	Fluoranthene	25.53	202	3750729	120.48 ul/l	98
76)	Benzidine	25.91	184	1808065	142.98 ul/l	98
77)	Pyrene	26.10	202	3940159	115.10 ul/l	99
79)	Butylbenzylphthalate	27.94	149	2324134	127.02 ul/l	96
80)	3,3'-Dichlorobenzidine	29.22	252	1818898	124.20 ul/l	98
81)	Benzo[a]anthracene	29.20	228	4244989	118.27 ul/l	99
82)	bis(2-Ethylhexyl)phthalate	29.46	149	3359786	131.60 ul/l	96
83)	Chrysene	29.34	228	3720577	125.30 ul/l	98
85)	Di-n-octylphthalate	30.95	149	5552260m	145.25 ul/l	
86)	Benzo[b]fluoranthene	31.85	252	3987182m	134.03 ul/l	
87)	Benzo[k]fluoranthene	31.90	252	3764006m	136.20 ul/l	
88)	Benzo[a]pyrene	32.54	252	3707994	133.11 ul/l	95
89)	Indeno[1,2,3-cd]pyrene	35.06	276	4133348	134.62 ul/l	80
90)	Dibenz[a,h]anthracene	35.05	278	3592498	134.46 ul/l	94
91)	Benzo[g,h,i]perylene	35.63	276	3057820	128.90 ul/l	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\E\DATA15\DEC15\E1208\E9459.D Vial: 7
Acq On : 8 Dec 2015 18:47 Operator: JMM
Sample : S5L0816-CAL6 Inst : GC/MS E
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 6 9:13 2016 Quant Results File: SVE81207.RES

Method : D:\E\METHODS\SVE81208.M (RTE Integrator)
Title : SEMI-VOA 8270 TCL HP5971E
Last Update : Thu Jan 07 09:10:48 2016
Response via : Initial Calibration



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VOLATILES SAMPLE DATA

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VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/23/15 23:47	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 5035A	File ID:	D13585.D
Prep Batch:	B5L2319	Sequence:	S5L2311	Analyzed:	12/23/15 23:47
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	8.42	14.0	U
107-13-1	Acrylonitrile	ND	2.81	14.0	U
67-64-1	Acetone	20.8	1.40	2.81	
75-71-8	Dichlorodifluoromethane	ND	1.40	2.81	U
74-87-3	Chloromethane	ND	1.40	2.81	U
75-01-4	Vinyl chloride	ND	1.40	2.81	U
74-83-9	Bromomethane	ND	1.40	2.81	U
75-00-3	Chloroethane	ND	1.40	2.81	U
75-69-4	Trichlorofluoromethane	ND	1.40	2.81	U
75-35-4	1,1-Dichloroethene	ND	1.40	2.81	U
75-15-0	Carbon disulfide	ND	1.40	2.81	U
75-09-2	Methylene Chloride	ND	1.40	2.81	U
156-60-5	trans-1,2-Dichloroethene	ND	1.40	2.81	U
75-34-3	1,1-Dichloroethane	ND	1.40	2.81	U
108-05-4	Vinyl acetate	ND	1.40	2.81	U
590-20-7	2,2-Dichloropropane	ND	1.40	2.81	U
78-93-3	2-Butanone	ND	1.40	2.81	U
156-59-4	cis-1,2-Dichloroethene	ND	1.40	2.81	U
67-66-3	Chloroform	ND	1.40	2.81	U
74-97-5	Bromochloromethane	ND	1.40	2.81	U
71-55-6	1,1,1-Trichloroethane	ND	1.40	2.81	U
563-58-6	1,1-Dichloropropene	ND	1.40	2.81	U
56-23-5	Carbon Tetrachloride	ND	1.40	2.81	U
107-06-2	1,2-Dichloroethane	ND	1.40	2.81	U
71-43-2	Benzene	ND	1.40	2.81	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/23/15 23:47	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 5035A	File ID:	D13585.D
Prep Batch:	B5L2319	Sequence:	S5L2311	Analyzed:	12/23/15 23:47
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
79-01-6	Trichloroethene	ND	1.40	2.81	U
78-87-5	1,2-Dichloropropane	ND	1.40	2.81	U
75-27-4	Bromodichloromethane	ND	1.40	2.81	U
74-95-3	Dibromomethane	ND	1.40	2.81	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.40	2.81	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.40	2.81	U
108-88-3	Toluene	ND	1.40	2.81	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.40	2.81	U
79-00-5	1,1,2-Trichloroethane	ND	1.40	2.81	U
108-10-1	4-Methyl-2-pentanone	ND	1.40	2.81	U
106-93-4	1,2-Dibromoethane	ND	1.40	2.81	U
591-78-6	2-Hexanone	ND	1.40	2.81	U
142-28-9	1,3-Dichloropropane	ND	1.40	2.81	U
127-18-4	Tetrachloroethene	ND	1.40	2.81	U
124-48-1	Dibromochloromethane	ND	1.40	2.81	U
100-41-4	Ethylbenzene	ND	1.40	2.81	U
108-90-7	Chlorobenzene	ND	1.40	2.81	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.40	2.81	U
108-38-3/106-42	m,p-Xylenes	ND	2.81	5.61	U
95-47-6	o-Xylene	ND	2.81	5.61	U
100-42-5	Styrene	ND	1.40	5.61	U
75-25-2	Bromoform	ND	1.40	2.81	U
98-82-8	Isopropylbenzene	ND	1.40	2.81	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.40	2.81	U
96-18-4	1,2,3-Trichloropropane	ND	1.40	2.81	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Prep Date:	12/23/15 23:47	Matrix:	Soil
Percent Solids:	71.30	Prep Method:	EPA 5035A	File ID:	D13585.D
Prep Batch:	B5L2319	Sequence:	S5L2311	Analyzed:	12/23/15 23:47
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
103-65-1	n-Propyl Benzene	ND	1.40	2.81	U
108-86-1	Bromobenzene	ND	1.40	2.81	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.40	2.81	U
95-49-8	2-Chlorotoluene	ND	1.40	2.81	U
106-43-4	4-Chlorotoluene	ND	1.40	2.81	U
98-06-6	tert-Butylbenzene	ND	1.40	2.81	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.40	2.81	U
135-98-8	sec-Butylbenzene	ND	1.40	2.81	U
99-87-6	p-Isopropyltoluene	1.73	1.40	2.81	J
541-73-1	1,3-Dichlorobenzene	ND	1.40	2.81	U
106-46-7	1,4-Dichlorobenzene	ND	1.40	2.81	U
104-51-8	n-Butyl Benzene	ND	1.40	2.81	U
95-50-1	1,2-Dichlorobenzene	ND	1.40	2.81	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.40	2.81	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.40	2.81	U
87-68-3	Hexachlorobutadiene	ND	1.40	2.81	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.40	2.81	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	111%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	79%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1223\D13585.D Vial: 22
Acq On : 23 Dec 2015 23:47 Operator: SG
Sample : 1502323-01 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 24 11:19 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

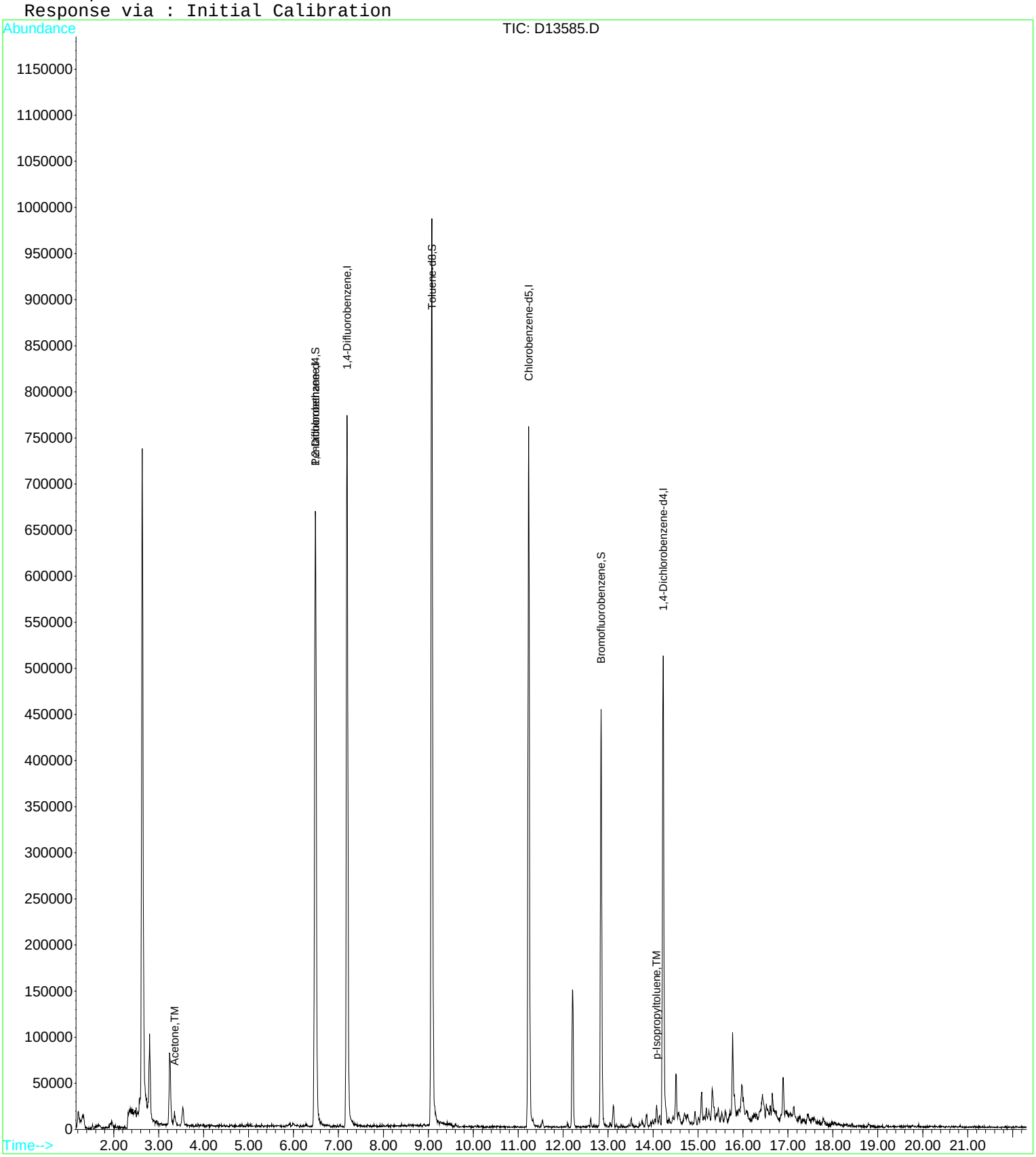
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.49	168	470992	50.00	ug/l	0.01
27) 1,4-Difluorobenzene	7.19	114	872380	50.00	ug/l	0.00
48) Chlorobenzene-d5	11.23	117	612565	50.00	ug/l	0.01
60) 1,4-Dichlorobenzene-d4	14.23	152	191112	50.00	ug/l	0.00
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	6.48	65	189130	55.31	ug/l	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 110.62%			
41) Toluene-d8	9.08	98	873223	49.29	ug/l	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.58%			
47) Bromofluorobenzene	12.84	95	203073	39.28	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 78.56%			
Target Compounds						Qvalue
4) Acetone	3.35	43	20668	14.81	ug/l	76
72) p-Isopropyltoluene	14.08	119	17924	1.23	ug/l	94

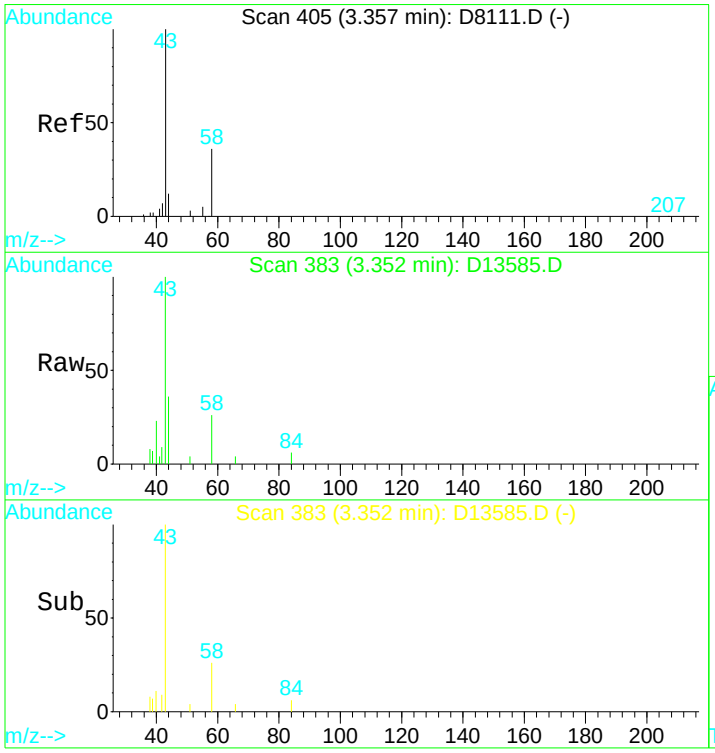
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\D\DATA15\DEC15\D1223\D13585.D Vial: 22
Acq On : 23 Dec 2015 23:47 Operator: SG
Sample : 1502323-01 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 24 11:19 2015 Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration

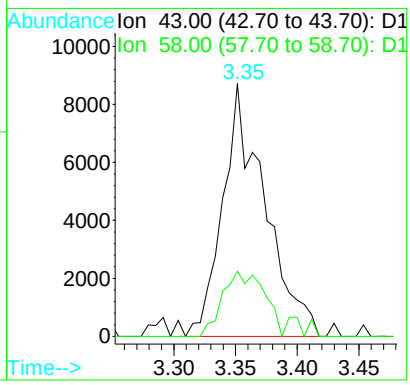


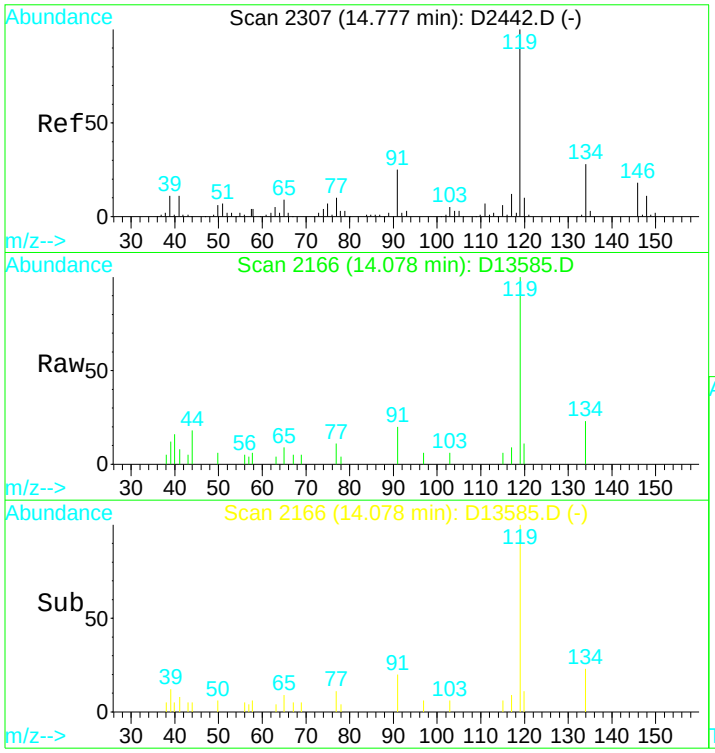


#4
Acetone
Concen: 14.81 ug/l
RT: 3.35 min Scan# 383
Delta R.T. 0.01 min
Lab File: D13585.D
Acq: 23 Dec 2015 23:47

Tgt Ion: 43 Resp: 20668

Ion	Ratio	Lower	Upper
43	100		
58	25.8	20.5	60.5

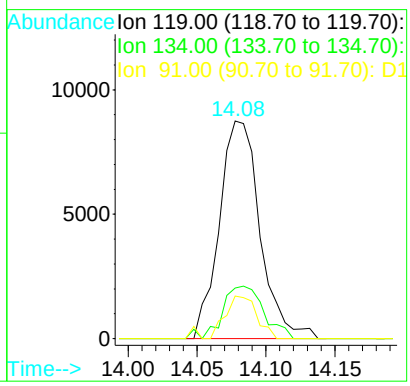




#72
p-Isopropyltoluene
Concen: 1.23 ug/l
RT: 14.08 min Scan# 2166
Delta R.T. -0.00 min
Lab File: D13585.D
Acq: 23 Dec 2015 23:47

Tgt Ion:119 Resp: 17924

Ion	Ratio	Lower	Upper
119	100		
134	23.2	0.0	77.6
91	19.6	0.0	68.8



Accredited Analytical Resources, LLC.

VOLATILES QC DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2319-BLK1	File ID:	D13566.D
Batch:	B5L2319	Prepared:	12/23/15 13:57	Analyzed:	12/23/15 13:57
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5L2311	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND	1.00	2.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	2.00	U
74-87-3	Chloromethane	ND	1.00	2.00	U
75-01-4	Vinyl chloride	ND	1.00	2.00	U
74-83-9	Bromomethane	ND	1.00	2.00	U
75-00-3	Chloroethane	ND	1.00	2.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	2.00	U
75-35-4	1,1-Dichloroethene	ND	1.00	2.00	U
75-15-0	Carbon disulfide	ND	1.00	2.00	U
75-09-2	Methylene Chloride	2.71	1.00	2.00	
156-60-5	trans-1,2-Dichloroethene	ND	1.00	2.00	U
75-34-3	1,1-Dichloroethane	ND	1.00	2.00	U
108-05-4	Vinyl acetate	ND	1.00	2.00	U
590-20-7	2,2-Dichloropropane	ND	1.00	2.00	U
78-93-3	2-Butanone	ND	1.00	2.00	U
156-59-4	cis-1,2-Dichloroethene	ND	1.00	2.00	U
67-66-3	Chloroform	ND	1.00	2.00	U
74-97-5	Bromochloromethane	ND	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane	ND	1.00	2.00	U
563-58-6	1,1-Dichloropropene	ND	1.00	2.00	U
56-23-5	Carbon Tetrachloride	ND	1.00	2.00	U
107-06-2	1,2-Dichloroethane	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2319-BLK1	File ID:	D13566.D
Batch:	B5L2319	Prepared:	12/23/15 13:57	Analyzed:	12/23/15 13:57
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5L2311	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
71-43-2	Benzene	ND	1.00	2.00	U
79-01-6	Trichloroethene	ND	1.00	2.00	U
78-87-5	1,2-Dichloropropane	ND	1.00	2.00	U
75-27-4	Bromodichloromethane	ND	1.00	2.00	U
74-95-3	Dibromomethane	ND	1.00	2.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.00	2.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.00	2.00	U
108-88-3	Toluene	ND	1.00	2.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.00	2.00	U
79-00-5	1,1,2-Trichloroethane	ND	1.00	2.00	U
108-10-1	4-Methyl-2-pentanone	ND	1.00	2.00	U
106-93-4	1,2-Dibromoethane	ND	1.00	2.00	U
591-78-6	2-Hexanone	ND	1.00	2.00	U
142-28-9	1,3-Dichloropropane	ND	1.00	2.00	U
127-18-4	Tetrachloroethene	ND	1.00	2.00	U
124-48-1	Dibromochloromethane	ND	1.00	2.00	U
100-41-4	Ethylbenzene	ND	1.00	2.00	U
108-90-7	Chlorobenzene	ND	1.00	2.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.00	2.00	U
108-38-3/106-42-3	m,p-Xylenes	ND	2.00	4.00	U
95-47-6	o-Xylene	ND	2.00	4.00	U
100-42-5	Styrene	ND	1.00	4.00	U
75-25-2	Bromoform	ND	1.00	2.00	U
98-82-8	Isopropylbenzene	ND	1.00	2.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Laboratory ID:	B5L2319-BLK1	File ID:	D13566.D
Batch:	B5L2319	Prepared:	12/23/15 13:57	Analyzed:	12/23/15 13:57
Column:	1	Preparation:	EPA 5035A	Dilution:	
		Sequence:	S5L2311	Instrument:	GC/MS D

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane	ND	1.00	2.00	U
103-65-1	n-Propyl Benzene	ND	1.00	2.00	U
108-86-1	Bromobenzene	ND	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.00	2.00	U
95-49-8	2-Chlorotoluene	ND	1.00	2.00	U
106-43-4	4-Chlorotoluene	ND	1.00	2.00	U
98-06-6	tert-Butylbenzene	ND	1.00	2.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.00	2.00	U
135-98-8	sec-Butylbenzene	ND	1.00	2.00	U
99-87-6	p-Isopropyltoluene	ND	1.00	2.00	U
541-73-1	1,3-Dichlorobenzene	ND	1.00	2.00	U
106-46-7	1,4-Dichlorobenzene	ND	1.00	2.00	U
104-51-8	n-Butyl Benzene	ND	1.00	2.00	U
95-50-1	1,2-Dichlorobenzene	ND	1.00	2.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.00	2.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.00	2.00	U
87-68-3	Hexachlorobutadiene	ND	1.00	2.00	U
91-20-3	Naphthalene	ND	1.00	2.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.00	2.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	102%	70-130
Toluene-d8	102%	70-130
Bromofluorobenzene	98%	70-130

Accredited Analytical Resources, LLC.

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1223\D13566.D Vial: 3
Acq On : 23 Dec 2015 13:57 Operator: SG
Sample : B5L2319-BLK1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 24 9:10 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

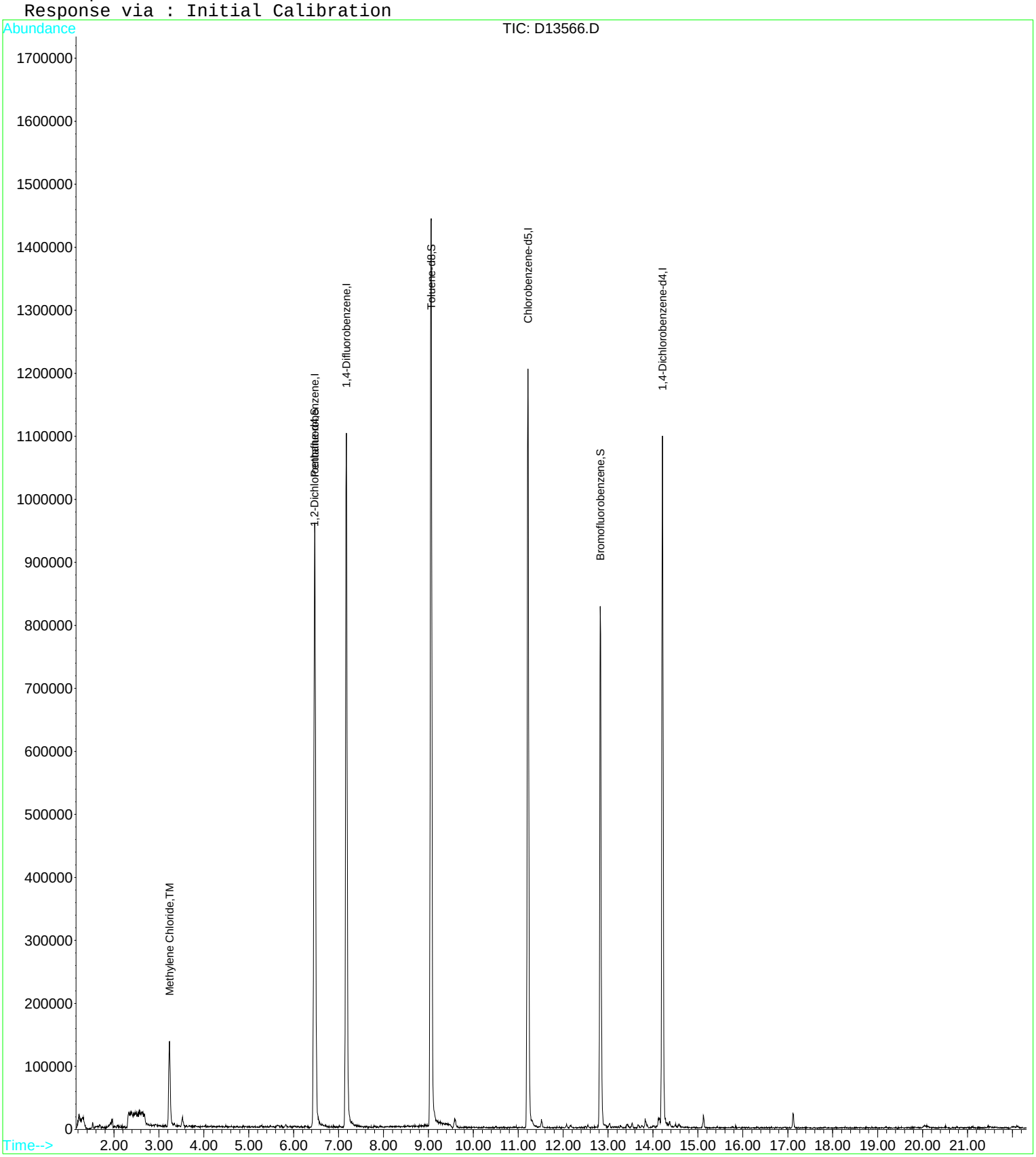
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	706240	50.00	ug/l	0.00
27) 1,4-Difluorobenzene	7.17	114	1268218	50.00	ug/l	-0.01
48) Chlorobenzene-d5	11.21	117	976039	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.21	152	400217	50.00	ug/l	-0.01
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	6.46	65	254282	51.15	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.30%			
41) Toluene-d8	9.06	98	1314615	51.05	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.10%			
47) Bromofluorobenzene	12.83	95	369078	49.10	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.20%			
Target Compounds						Qvalue
15) Methylene Chloride	3.24	49	121003	2.71	ug/l	92

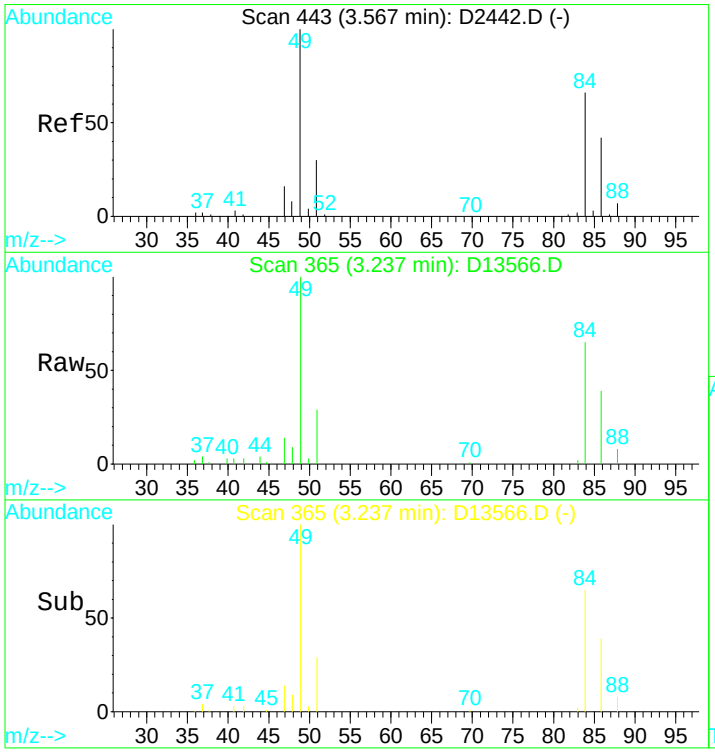
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\D\DATA15\DEC15\D1223\D13566.D Vial: 3
Acq On : 23 Dec 2015 13:57 Operator: SG
Sample : B5L2319-BLK1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 24 9:10 2015 Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration

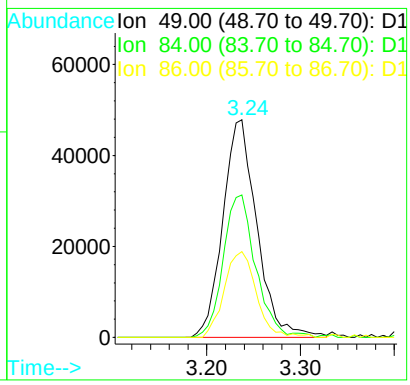




#15
Methylene Chloride
Concen: 2.71 ug/l
RT: 3.24 min Scan# 365
Delta R.T. -0.00 min
Lab File: D13566.D
Acq: 23 Dec 2015 13:57

Tgt Ion: 49 Resp: 121003

Ion	Ratio	Lower	Upper
49	100		
84	65.4	30.7	110.7
86	39.4	6.5	86.5



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VOLATILES QC SUMMARY

SYSTEM MONITORING COMPOUND SUMMARY

EPA 8260

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix: Solid
Instrument: GC/MS D

Lab Sample ID:	1,2-DCE-d4 (70% - 130%)	BFB (70% - 130%)	TOL-d8 (70% - 130%)
1502323-01	111	79	99
B5L2319-BLK1	102	98	102
B5L2319-BS1	107	106	104
B5L2319-MS1	108	113	108
B5L2319-MSD1	111	110	104

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2319	Prep Method:	EPA 5035A
Percent Solids:	71.30	Laboratory ID:	B5L2319-MS1
		Client Sample ID:	1502322-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Acrolein	351	ND	251	72	40 - 160
Acrylonitrile	351	ND	289	83	70 - 130
Acetone	70.1	ND	56.4	80	40 - 160
Dichlorodifluoromethane	70.1	ND	41.9	60	40 - 160
Chloromethane	70.1	ND	50.0	71	40 - 160
Vinyl chloride	70.1	ND	52.8	75	70 - 130
Bromomethane	70.1	ND	55.8	80	40 - 160
Chloroethane	70.1	ND	55.5	79	40 - 160
Trichlorofluoromethane	70.1	ND	59.2	84	40 - 160
Freon 113	70.1	ND	52.3	75	70 - 130
1,1-Dichloroethene	70.1	ND	60.6	86	70 - 130
Carbon disulfide	70.1	ND	68.2	97	70 - 130
Methyl Acetate	70.1	ND	65.3	93	70 - 130
Methylene Chloride	70.1	ND	68.8	98	70 - 130
trans-1,2-Dichloroethene	70.1	ND	61.2	87	70 - 130
1,1-Dichloroethane	70.1	ND	65.1	93	70 - 130
2,2-Dichloropropane	70.1	ND	65.1	93	70 - 130
2-Butanone	70.1	ND	54.2	77	40 - 160
cis-1,2-Dichloroethene	70.1	ND	63.2	90	70 - 130
Chloroform	70.1	ND	67.1	96	70 - 130
Bromochloromethane	70.1	ND	67.2	96	70 - 130
Cyclohexane	70.1	ND	55.2	79	70 - 130
1,1,1-Trichloroethane	70.1	ND	64.5	92	70 - 130
t-Butyl alcohol	701	ND	649	93	40 - 160
1,1-Dichloropropene	70.1	ND	63.5	91	70 - 130
Carbon Tetrachloride	70.1	ND	65.4	93	70 - 130
1,2-Dichloroethane	70.1	ND	69.7	99	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2319	Prep Method:	EPA 5035A
Percent Solids:	71.30	Laboratory ID:	B5L2319-MS1
		Client Sample ID:	1502322-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
Benzene	70.1	ND	64.6	92	70 - 130
Trichloroethene	70.1	ND	64.8	92	70 - 130
Methylcyclohexane	70.1	ND	55.7	79	70 - 130
1,2-Dichloropropane	70.1	ND	66.1	94	70 - 130
Bromodichloromethane	70.1	ND	66.0	94	70 - 130
Dibromomethane	70.1	ND	71.5	102	70 - 130
2-Chloroethyl vinyl ether	70.1	ND	65.5	93	40 - 160
cis-1,3-Dichloropropene	70.1	ND	69.1	99	70 - 130
Toluene	70.1	ND	67.8	97	70 - 130
trans-1,3-Dichloropropene	70.1	ND	70.1	100	70 - 130
1,1,2-Trichloroethane	70.1	ND	67.9	97	70 - 130
4-Methyl-2-pentanone	70.1	ND	66.3	95	40 - 160
1,2-Dibromoethane	70.1	ND	71.4	102	70 - 130
2-Hexanone	70.1	ND	57.9	83	40 - 160
1,3-Dichloropropane	70.1	ND	65.4	93	70 - 130
Tetrachloroethene	70.1	ND	63.9	91	70 - 130
Dibromochloromethane	70.1	ND	66.5	95	70 - 130
Ethylbenzene	70.1	ND	63.1	90	70 - 130
Chlorobenzene	70.1	ND	62.2	89	70 - 130
1,1,1,2-Tetrachloroethane	70.1	ND	64.2	92	70 - 130
m,p-Xylenes	140	ND	125	89	70 - 130
o-Xylene	140	ND	122	87	70 - 130
Styrene	140	ND	124	88	70 - 130
Bromoform	70.1	ND	63.5	91	70 - 130
Isopropylbenzene	70.1	ND	61.0	87	70 - 130
1,1,2,2-Tetrachloroethane	70.1	ND	63.8	91	70 - 130
1,2,3-Trichloropropane	70.1	ND	63.2	90	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2319	Prep Method:	EPA 5035A
Percent Solids:	71.30	Laboratory ID:	B5L2319-MS1
		Client Sample ID:	1502322-01

ANALYTE	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC.	QC LIMITS REC.
n-Propyl Benzene	70.1	ND	58.9	84	70 - 130
Bromobenzene	70.1	ND	59.4	85	70 - 130
1,3,5-Trimethylbenzene	70.1	ND	59.7	85	70 - 130
2-Chlorotoluene	70.1	ND	59.1	84	70 - 130
4-Chlorotoluene	70.1	ND	60.2	86	70 - 130
tert-Butylbenzene	70.1	ND	59.0	84	70 - 130
1,2,4-Trimethylbenzene	70.1	ND	60.7	87	70 - 130
sec-Butylbenzene	70.1	ND	59.7	85	70 - 130
p-Isopropyltoluene	70.1	ND	60.2	86	70 - 130
1,3-Dichlorobenzene	70.1	ND	59.0	84	70 - 130
1,4-Dichlorobenzene	70.1	ND	60.9	87	70 - 130
n-Butyl Benzene	70.1	ND	58.4	83	70 - 130
1,2-Dichlorobenzene	70.1	ND	62.0	88	70 - 130
1,2-Dibromo-3-chloropropane	70.1	ND	63.5	90	40 - 160
1,2,4-Trichlorobenzene	70.1	ND	64.8	92	70 - 130
Hexachlorobutadiene	70.1	ND	58.6	83	70 - 130
Naphthalene	70.1	ND	66.3	94	40 - 160
1,2,3-Trichlorobenzene	70.1	ND	64.5	92	70 - 130
Methyl tert-Butyl Ether	140	ND	108	77	70 - 130

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1223\D13568.D Vial: 5
Acq On : 23 Dec 2015 15:09 Operator: SG
Sample : B5L2319-MS1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 15:31 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	651593	50.00	ug/l	0.00
27) 1,4-Difluorobenzene	7.17	114	1136307	50.00	ug/l	-0.01
48) Chlorobenzene-d5	11.22	117	940546	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.21	152	418173	50.00	ug/l	-0.01
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	6.46	65	240458	53.98	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 107.96%			
41) Toluene-d8	9.06	98	1248475	54.11	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 108.22%			
47) Bromofluorobenzene	12.83	95	381131	56.59	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 113.18%			

Target Compounds						Qvalue
2) Acrolein	2.96	56	23987	179.06	ug/l	94
3) Acrylonitrile	4.39	53	260174	206.40	ug/l	93
4) Acetone	3.33	43	65459	40.22	ug/l	90
5) Dichlorodifluoromethane	1.34	85	193138	29.84	ug/l	98
6) Chloromethane	1.50	50	523278	35.64	ug/l	100
7) Vinyl Chloride	1.56	62	578605	37.65	ug/l	98
8) Bromomethane	1.84	94	383971	39.81	ug/l	98
9) Chloroethane	1.94	64	535394	39.58	ug/l	98
10) Trichoroflouromethane	2.05	101	493591	42.23	ug/l	100
11) Freon-113	2.61	101	380501	37.29	ug/l	98
12) 1,1-Dichloroethene	2.55	61	608504	43.20	ug/l	88
13) Carbon disulfide	2.56	76	1076405	48.63	ug/l	97
14) Methyl Acetate	3.50	43	156363	46.59	ug/l	96
15) Methylene Chloride	3.23	49	566811	49.05	ug/l	96
16) trans-1,2-Dichloroethene	3.41	61	535155	43.65	ug/l	90
17) 1,1-Dichloroethane	4.27	63	721233	46.41	ug/l	98
18) Vinyl acetate	4.73	43	474929	43.67	ug/l	97
19) 2,2-Dichloropropane	5.19	77	467396	46.41	ug/l	91
20) 2-Butanone	5.97	43	87308	38.67	ug/l	85
21) cis-1,2-Dichloroethene	5.06	61	512527	45.08	ug/l	87
22) Chloroform	5.49	83	516344	47.86	ug/l	98
23) Bromochloromethane	5.33	130	187136	47.90	ug/l	99
24) Cyclohexane	5.28	56	743793	39.38	ug/l	88
25) 1,1,1-Trichloroethane	5.71	97	380740	45.96	ug/l	90
26) T-butyl alcohol	3.86	59	152071	462.87	ug/l	89
29) 1,1-Dichloropropene	5.89	110	176186	45.26	ug/l	94
30) Carbon Tetrachloride	5.60	117	327684	46.65	ug/l	100
31) 1,2-Dichloroethane	6.55	62	270159	49.73	ug/l	90
32) Benzene	6.25	78	1368234	46.05	ug/l	94
33) Trichloroethene	7.08	95	311060	46.19	ug/l	99
34) Methylcyclohexane	7.02	83	573759	39.69	ug/l	89
35) 1,2-Dichloropropane	7.80	63	376763	47.15	ug/l	100
37) Bromodichloromethane	7.93	83	319305	47.06	ug/l	96
38) Dibromomethane	7.66	174	139694	50.98	ug/l	97
39) 2-Chloroethylvinylether	8.80	63	140664	46.72	ug/l	97
40) cis-1,3-dichloropropene	8.82	75	489168	49.25	ug/l	96
42) Toluene	9.13	91	1369030	48.31	ug/l	96
43) trans-1,3-Dichloropropene	9.76	75	360154	49.99	ug/l	96
44) 1,1,2-Trichloroethane	9.97	97	192841	48.39	ug/l	98
45) 4-Methyl-2-pentanone	9.73	43	181807	47.30	ug/l	96
46) 1,2-Dibromoethane	10.49	107	196018	50.91	ug/l	90
49) 2-Hexanone	10.93	43	131965	41.26	ug/l	97
50) 1,3-dichloropropane	10.34	76	375507	46.60	ug/l	93
51) Tetrachloroethene	9.64	166	349302	45.55	ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1223\D13568.D Vial: 5
Acq On : 23 Dec 2015 15:09 Operator: SG
Sample : B5L2319-MS1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 15:31 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

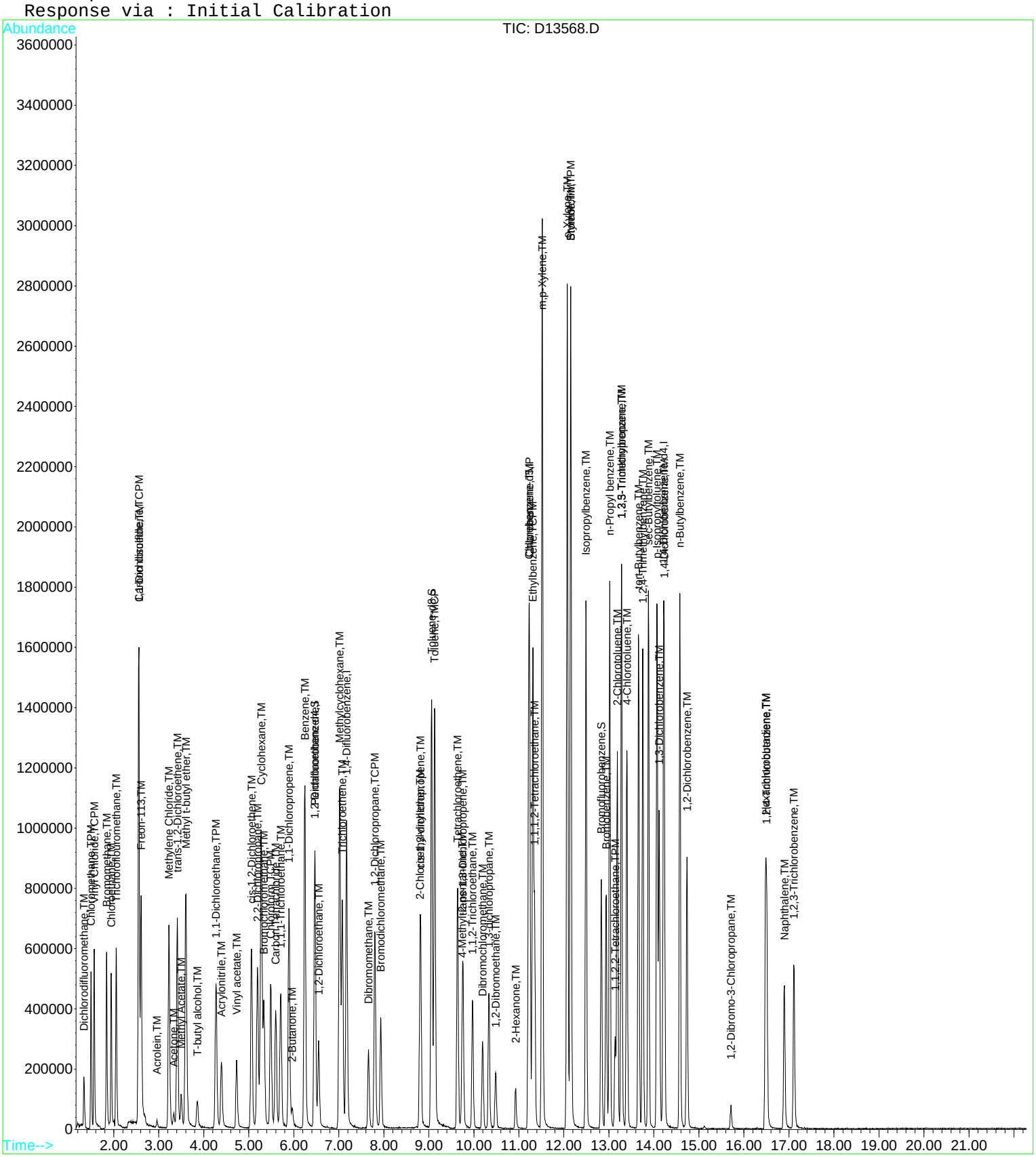
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
52)	Dibromochloromethane	10.20	129	224025	47.45 ug/l		95
53)	Ethylbenzene	11.31	91	1469021	45.00 ug/l		97
54)	Chlorobenzene	11.24	112	852327	44.36 ug/l		97
55)	1,1,1,2-Tetrachloroethane	11.35	131	251108	45.77 ug/l		97
56)	m,p-Xylene	11.52	91	2099414	89.21 ug/l		98
57)	o-Xylene	12.07	91	1987298	87.28 ug/l		98
58)	Styrene	12.15	104	1735326	88.18 ug/l		98
59)	Bromoform	12.16	173	102890	45.31 ug/l		88
61)	Isopropylbenzene	12.49	105	1541713	43.50 ug/l		99
62)	1,1,2,2-Tetrachloroethane	13.14	83	216458	45.52 ug/l		97
63)	1,2,3-Trichloropropane	13.28	75	159391	45.07 ug/l		98
64)	n-Propyl benzene	13.02	91	1776301	42.01 ug/l		95
65)	Bromobenzene	12.94	77	470326	42.32 ug/l		96
66)	1,3,5-Trimethylbenzene	13.28	105	1107984	42.59 ug/l		100
67)	2-Chlorotoluene	13.19	91	894307	42.12 ug/l		94
68)	4-Chlorotoluene	13.40	91	926211	42.95 ug/l		90
69)	tert-Butylbenzene	13.66	119	1054946	42.10 ug/l		96
70)	1,2,4-Trimethylbenzene	13.75	105	1107853	43.28 ug/l		98
71)	sec-Butylbenzene	13.88	105	1666033	42.55 ug/l		100
72)	p-Isopropyltoluene	14.07	119	1368871	42.89 ug/l		99
73)	1,3-Dichlorobenzene	14.12	146	599246	42.07 ug/l		100
74)	1,4-Dichlorobenzene	14.23	146	600271	43.41 ug/l		99
75)	n-Butylbenzene	14.58	91	1253215	41.67 ug/l		93
76)	1,2-Dichlorobenzene	14.73	146	522258	44.19 ug/l		99
77)	1,2-Dibromo-3-Chloropropan	15.71	157	30782	45.24 ug/l	#	83
78)	1,2,4-Trichlorobenzene	16.51	180	320112	46.18 ug/l		94
79)	Hexachlorobutadiene	16.48	225	170675	41.75 ug/l		99
80)	Naphthalene	16.90	128	579056	47.25 ug/l		100
81)	1,2,3-Trichlorobenzene	17.11	180	260187	46.02 ug/l		97
82)	Methyl t-butyl ether	3.60	73	1052440	77.34 ug/l		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\D\DATA15\DEC15\D1223\D13568.D Vial: 5
Acq On : 23 Dec 2015 15:09 Operator: SG
Sample : B5L2319-MS1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 15:31 2015 Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration



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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2319	Prep Method:	EPA 5035A
Percent Solids:	71.30	Laboratory ID:	B5L2319-MSD1
		Client Sample ID:	1502322-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Acrolein	351	263	75	5	30	40 - 160
Acrylonitrile	351	303	87	5	30	70 - 130
Acetone	70.1	55.9	80	0.9	30	40 - 160
Dichlorodifluoromethane	70.1	34.5	49	19	30	40 - 160
Chloromethane	70.1	46.5	66	7	30	40 - 160
Vinyl chloride	70.1	52.5	75	0.7	30	70 - 130
Bromomethane	70.1	55.0	78	2	30	40 - 160
Chloroethane	70.1	52.6	75	5	30	40 - 160
Trichlorofluoromethane	70.1	53.2	76	11	30	40 - 160
Freon 113	70.1	49.0	70	6	30	70 - 130
1,1-Dichloroethene	70.1	58.8	84	3	30	70 - 130
Carbon disulfide	70.1	63.2	90	8	30	70 - 130
Methyl Acetate	70.1	72.1	103	10	30	70 - 130
Methylene Chloride	70.1	67.4	96	2	30	70 - 130
trans-1,2-Dichloroethene	70.1	59.3	85	3	30	70 - 130
1,1-Dichloroethane	70.1	62.2	89	5	30	70 - 130
2,2-Dichloropropane	70.1	61.7	88	5	30	70 - 130
2-Butanone	70.1	60.1	86	10	30	40 - 160
cis-1,2-Dichloroethene	70.1	62.1	89	2	30	70 - 130
Chloroform	70.1	63.4	90	6	30	70 - 130
Bromochloromethane	70.1	65.5	93	3	30	70 - 130
Cyclohexane	70.1	52.1	74	6	30	70 - 130
1,1,1-Trichloroethane	70.1	62.1	89	4	30	70 - 130
t-Butyl alcohol	701	660	94	2	30	40 - 160
1,1-Dichloropropene	70.1	59.9	85	6	30	70 - 130
Carbon Tetrachloride	70.1	60.3	86	8	30	70 - 130
1,2-Dichloroethane	70.1	65.4	93	6	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2319	Prep Method:	EPA 5035A
Percent Solids:	71.30	Laboratory ID:	B5L2319-MSD1
		Client Sample ID:	1502322-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	70.1	60.3	86	7	30	70 - 130
Trichloroethene	70.1	59.8	85	8	30	70 - 130
Methylcyclohexane	70.1	51.6	74	8	30	70 - 130
1,2-Dichloropropane	70.1	62.3	89	6	30	70 - 130
Bromodichloromethane	70.1	62.2	89	6	30	70 - 130
Dibromomethane	70.1	69.4	99	3	30	70 - 130
2-Chloroethyl vinyl ether	70.1	64.5	92	2	30	40 - 160
cis-1,3-Dichloropropene	70.1	63.7	91	8	30	70 - 130
Toluene	70.1	59.7	85	13	30	70 - 130
trans-1,3-Dichloropropene	70.1	65.0	93	8	30	70 - 130
1,1,2-Trichloroethane	70.1	63.5	91	7	30	70 - 130
4-Methyl-2-pentanone	70.1	67.7	97	2	30	40 - 160
1,2-Dibromoethane	70.1	65.8	94	8	30	70 - 130
2-Hexanone	70.1	58.6	84	1	30	40 - 160
1,3-Dichloropropane	70.1	63.8	91	2	30	70 - 130
Tetrachloroethene	70.1	57.6	82	10	30	70 - 130
Dibromochloromethane	70.1	64.0	91	4	30	70 - 130
Ethylbenzene	70.1	57.5	82	9	30	70 - 130
Chlorobenzene	70.1	58.9	84	6	30	70 - 130
1,1,1,2-Tetrachloroethane	70.1	60.9	87	5	30	70 - 130
m,p-Xylenes	140	113	81	10	30	70 - 130
o-Xylene	140	113	81	8	30	70 - 130
Styrene	140	114	81	8	30	70 - 130
Bromoform	70.1	65.8	94	3	30	70 - 130
Isopropylbenzene	70.1	57.8	82	5	30	70 - 130
1,1,2,2-Tetrachloroethane	70.1	65.5	93	2	30	70 - 130
1,2,3-Trichloropropane	70.1	65.8	94	4	30	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Analysis Method:	EPA 8260
Prep Batch:	B5L2319	Prep Method:	EPA 5035A
Percent Solids:	71.30	Laboratory ID:	B5L2319-MSD1
		Client Sample ID:	1502322-01

ANALYTE	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
n-Propyl Benzene	70.1	56.4	80	4	30	70 - 130
Bromobenzene	70.1	59.2	84	0.3	30	70 - 130
1,3,5-Trimethylbenzene	70.1	57.8	82	3	30	70 - 130
2-Chlorotoluene	70.1	57.0	81	4	30	70 - 130
4-Chlorotoluene	70.1	57.2	82	5	30	70 - 130
tert-Butylbenzene	70.1	56.5	81	4	30	70 - 130
1,2,4-Trimethylbenzene	70.1	58.1	83	4	30	70 - 130
sec-Butylbenzene	70.1	56.9	81	5	30	70 - 130
p-Isopropyltoluene	70.1	56.4	80	6	30	70 - 130
1,3-Dichlorobenzene	70.1	58.0	83	2	30	70 - 130
1,4-Dichlorobenzene	70.1	57.9	83	5	30	70 - 130
n-Butyl Benzene	70.1	54.7	78	7	30	70 - 130
1,2-Dichlorobenzene	70.1	59.5	85	4	30	70 - 130
1,2-Dibromo-3-chloropropane	70.1	64.5	92	2	30	40 - 160
1,2,4-Trichlorobenzene	70.1	59.9	85	8	30	70 - 130
Hexachlorobutadiene	70.1	53.1	76	10	30	70 - 130
Naphthalene	70.1	63.0	90	5	30	40 - 160
1,2,3-Trichlorobenzene	70.1	57.3	82	12	30	70 - 130
Methyl tert-Butyl Ether	140	113	80	4	30	70 - 130

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1223\D13569.D Vial: 6
Acq On : 23 Dec 2015 15:38 Operator: SG
Sample : B5L2319-MSD1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 24 9:15 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	615017	50.00	ug/l	0.00
27) 1,4-Difluorobenzene	7.18	114	1110593	50.00	ug/l	0.00
48) Chlorobenzene-d5	11.22	117	906740	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.21	152	385932	50.00	ug/l	-0.01
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	6.46	65	242526	55.71	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 111.42%			
41) Toluene-d8	9.06	98	1169722	51.87	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.74%			
47) Bromofluorobenzene	12.83	95	361276	54.89	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 109.78%			

Target Compounds						Qvalue
2) Acrolein	2.97	56	23718	187.58	ug/l	82
3) Acrylonitrile	4.40	53	257295	216.26	ug/l	97
4) Acetone	3.33	43	61298	39.86	ug/l	98
5) Dichlorodifluoromethane	1.35	85	150222	24.59	ug/l	97
6) Chloromethane	1.50	50	459824	33.18	ug/l	99
7) Vinyl Chloride	1.57	62	542457m	37.40	ug/l	
8) Bromomethane	1.85	94	356851	39.20	ug/l	100
9) Chloroethane	1.95	64	478579	37.49	ug/l	93
10) Trichoroflouromethane	2.06	101	418746	37.96	ug/l	91
11) Freon-113	2.61	101	336609	34.95	ug/l	99
12) 1,1-Dichloroethene	2.56	61	556904	41.89	ug/l	89
13) Carbon disulfide	2.56	76	942114	45.09	ug/l	94
14) Methyl Acetate	3.51	43	162745	51.38	ug/l	98
15) Methylene Chloride	3.23	49	525584	48.04	ug/l	91
16) trans-1,2-Dichloroethene	3.42	61	488901	42.25	ug/l	93
17) 1,1-Dichloroethane	4.28	63	650697	44.36	ug/l	99
18) Vinyl acetate	4.73	43	416537	40.58	ug/l	99
19) 2,2-Dichloropropane	5.20	77	417876	43.96	ug/l	94
20) 2-Butanone	5.96	43	91290	42.84	ug/l	95
21) cis-1,2-Dichloroethene	5.07	61	475139	44.28	ug/l	92
22) Chloroform	5.49	83	460185	45.19	ug/l	99
23) Bromochloromethane	5.34	130	172237	46.71	ug/l	98
24) Cyclohexane	5.28	56	662344	37.15	ug/l	88
25) 1,1,1-Trichloroethane	5.72	97	346228	44.28	ug/l	91
26) T-butyl alcohol	3.86	59	145837	470.29	ug/l	99
29) 1,1-Dichloropropene	5.90	110	162461	42.70	ug/l	97
30) Carbon Tetrachloride	5.60	117	295103	42.98	ug/l	94
31) 1,2-Dichloroethane	6.56	62	247731	46.65	ug/l	89
32) Benzene	6.24	78	1247636	42.96	ug/l	97
33) Trichloroethene	7.07	95	280687	42.65	ug/l	94
34) Methylcyclohexane	7.02	83	519467	36.76	ug/l	91
35) 1,2-Dichloropropane	7.80	63	347013	44.43	ug/l	96
37) Bromodichloromethane	7.94	83	294166	44.36	ug/l	96
38) Dibromomethane	7.66	174	132440	49.45	ug/l	92
39) 2-Chloroethylvinylether	8.80	63	135311	45.98	ug/l	99
40) cis-1,3-dichloropropene	8.82	75	441164	45.44	ug/l	96
42) Toluene	9.13	91	1178898	42.56	ug/l	95
43) trans-1,3-Dichloropropene	9.75	75	326306	46.34	ug/l	91
44) 1,1,2-Trichloroethane	9.97	97	176317	45.26	ug/l	99
45) 4-Methyl-2-pentanone	9.73	43	181421	48.29	ug/l	90
46) 1,2-Dibromoethane	10.49	107	176467	46.90	ug/l	95
49) 2-Hexanone	10.92	43	128918	41.81	ug/l	90
50) 1,3-dichloropropane	10.34	76	353605	45.52	ug/l	97
51) Tetrachloroethene	9.64	166	303864	41.10	ug/l	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1223\D13569.D Vial: 6
Acq On : 23 Dec 2015 15:38 Operator: SG
Sample : B5L2319-MSD1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 24 9:15 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

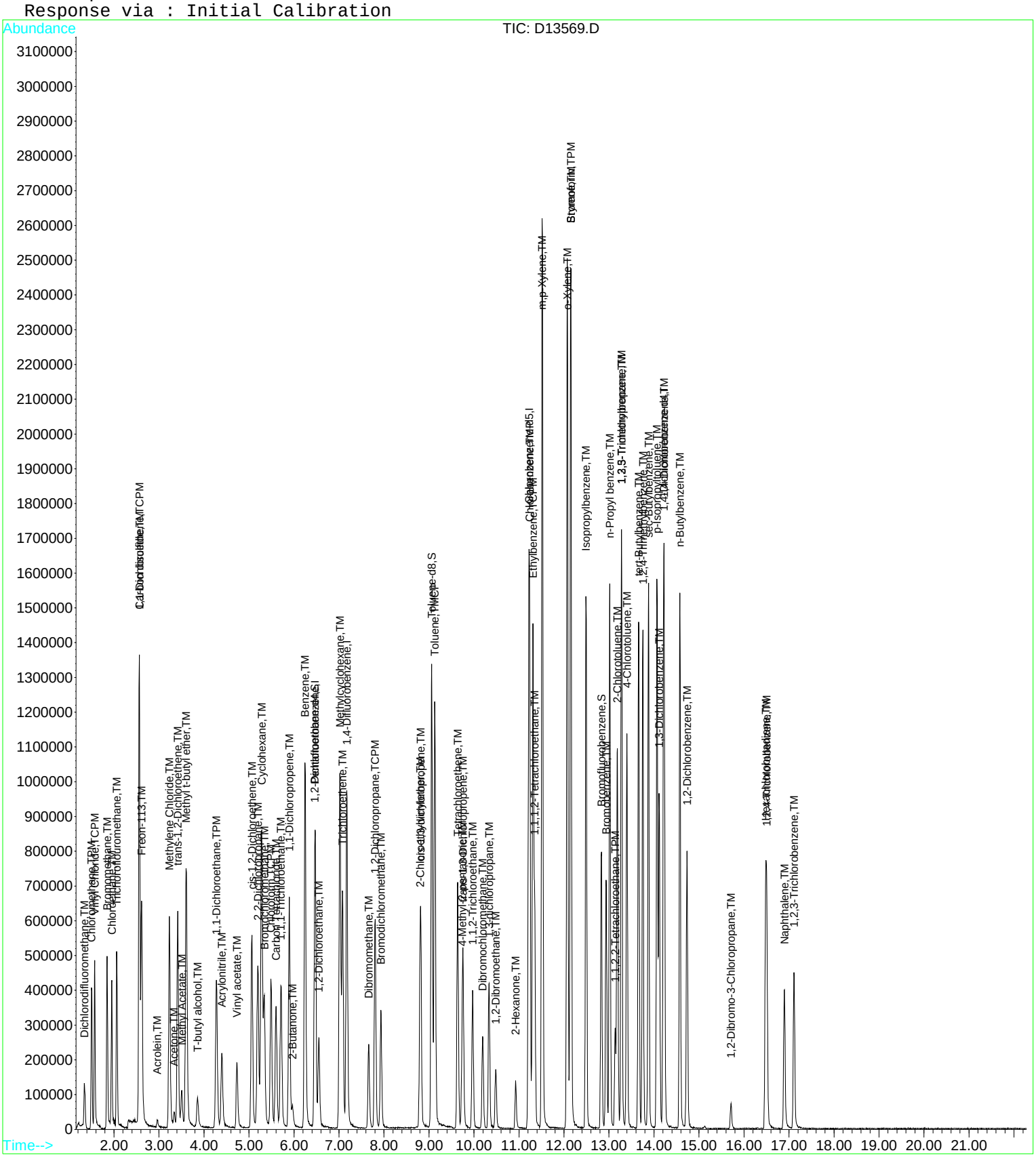
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
52)	Dibromochloromethane	10.19	129	207692	45.63 ug/l	97
53)	Ethylbenzene	11.31	91	1290618	41.01 ug/l	100
54)	Chlorobenzene	11.24	112	777386	41.97 ug/l	98
55)	1,1,1,2-Tetrachloroethane	11.35	131	229828	43.45 ug/l	90
56)	m,p-Xylene	11.51	91	1833386	80.81 ug/l	99
57)	o-Xylene	12.07	91	1773989	80.82 ug/l	98
58)	Styrene	12.15	104	1545729	81.47 ug/l	97
59)	Bromoform	12.15	173	102705	46.91 ug/l	86
61)	Isopropylbenzene	12.49	105	1348085	41.21 ug/l	100
62)	1,1,2,2-Tetrachloroethane	13.14	83	204808	46.67 ug/l	100
63)	1,2,3-Trichloropropane	13.28	75	153108	46.91 ug/l	97
64)	n-Propyl benzene	13.02	91	1568900	40.21 ug/l	94
65)	Bromobenzene	12.93	77	432793	42.19 ug/l	99
66)	1,3,5-Trimethylbenzene	13.28	105	988880	41.19 ug/l	99
67)	2-Chlorotoluene	13.18	91	796045	40.62 ug/l	95
68)	4-Chlorotoluene	13.40	91	811133	40.76 ug/l	91
69)	tert-Butylbenzene	13.66	119	931099	40.26 ug/l	98
70)	1,2,4-Trimethylbenzene	13.75	105	979527	41.46 ug/l	99
71)	sec-Butylbenzene	13.88	105	1466483	40.58 ug/l	99
72)	p-Isopropyltoluene	14.07	119	1184786	40.22 ug/l	98
73)	1,3-Dichlorobenzene	14.11	146	543363	41.34 ug/l	98
74)	1,4-Dichlorobenzene	14.23	146	526518	41.26 ug/l	99
75)	n-Butylbenzene	14.58	91	1083057	39.02 ug/l	94
76)	1,2-Dichlorobenzene	14.73	146	462630	42.41 ug/l	100
77)	1,2-Dibromo-3-Chloropropan	15.71	157	28891	46.01 ug/l	99
78)	1,2,4-Trichlorobenzene	16.51	180	273249	42.71 ug/l	96
79)	Hexachlorobutadiene	16.48	225	142855	37.87 ug/l	94
80)	Naphthalene	16.90	128	508253	44.94 ug/l	98
81)	1,2,3-Trichlorobenzene	17.11	180	213215	40.86 ug/l	98
82)	Methyl t-butyl ether	3.61	73	1009066	80.34 ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\D\DATA15\DEC15\D1223\D13569.D Vial: 6
Acq On : 23 Dec 2015 15:38 Operator: SG
Sample : B5L2319-MSD1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 24 9:15 2015 Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration



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LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Prep Method:	EPA 5035A
Prep Batch:	B5L2319	Lab Sample ID:	B5L2319-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Acrolein	250	204	82	40 - 160
Acrylonitrile	250	233	93	70 - 130
Acetone	50.0	44.6	89	40 - 160
Dichlorodifluoromethane	50.0	34.6	69	40 - 160
Chloromethane	50.0	40.6	81	40 - 160
Vinyl chloride	50.0	42.1	84	70 - 130
Bromomethane	50.0	45.8	92	40 - 160
Chloroethane	50.0	44.3	89	40 - 160
Trichlorofluoromethane	50.0	45.3	91	40 - 160
Freon 113	50.0	44.1	88	70 - 130
1,1-Dichloroethene	50.0	51.5	103	70 - 130
Carbon disulfide	50.0	58.0	116	70 - 130
Methyl Acetate	50.0	54.3	109	70 - 130
Methylene Chloride	50.0	63.6	127	70 - 130
trans-1,2-Dichloroethene	50.0	51.1	102	70 - 130
1,1-Dichloroethane	50.0	53.4	107	70 - 130
2,2-Dichloropropane	50.0	52.3	105	70 - 130
2-Butanone	50.0	45.5	91	40 - 160
cis-1,2-Dichloroethene	50.0	52.7	105	70 - 130
Chloroform	50.0	53.6	107	70 - 130
Bromochloromethane	50.0	53.4	107	70 - 130
Cyclohexane	50.0	47.6	95	70 - 130
1,1,1-Trichloroethane	50.0	53.6	107	70 - 130
t-Butyl alcohol	500	541	108	40 - 160
1,1-Dichloropropene	50.0	53.2	106	70 - 130
Carbon Tetrachloride	50.0	55.4	111	70 - 130
1,2-Dichloroethane	50.0	54.5	109	70 - 130
Benzene	50.0	52.1	104	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Prep Method:	EPA 5035A
Prep Batch:	B5L2319	Lab Sample ID:	B5L2319-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
Trichloroethene	50.0	52.6	105	70 - 130
Methylcyclohexane	50.0	47.4	95	70 - 130
1,2-Dichloropropane	50.0	52.0	104	70 - 130
Bromodichloromethane	50.0	53.2	106	70 - 130
Dibromomethane	50.0	53.8	108	70 - 130
2-Chloroethyl vinyl ether	50.0	53.0	106	40 - 160
cis-1,3-Dichloropropene	50.0	52.0	104	70 - 130
Toluene	50.0	52.0	104	70 - 130
trans-1,3-Dichloropropene	50.0	51.9	104	70 - 130
1,1,2-Trichloroethane	50.0	52.3	105	70 - 130
4-Methyl-2-pentanone	50.0	51.8	104	40 - 160
1,2-Dibromoethane	50.0	54.0	108	70 - 130
2-Hexanone	50.0	46.3	93	40 - 160
1,3-Dichloropropane	50.0	51.1	102	70 - 130
Tetrachloroethene	50.0	50.2	100	70 - 130
Dibromochloromethane	50.0	53.6	107	70 - 130
Ethylbenzene	50.0	51.4	103	70 - 130
Chlorobenzene	50.0	51.2	102	70 - 130
1,1,1,2-Tetrachloroethane	50.0	50.1	100	70 - 130
m,p-Xylenes	100	102	102	70 - 130
o-Xylene	100	98.7	99	70 - 130
Styrene	100	100	100	70 - 130
Bromoform	50.0	52.6	105	70 - 130
Isopropylbenzene	50.0	50.7	101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.9	102	70 - 130
1,2,3-Trichloropropane	50.0	51.2	102	70 - 130
n-Propyl Benzene	50.0	50.2	100	70 - 130
Bromobenzene	50.0	49.3	99	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Prep Method:	EPA 5035A
Prep Batch:	B5L2319	Lab Sample ID:	B5L2319-BS1

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.0	49.8	100	70 - 130
2-Chlorotoluene	50.0	49.1	98	70 - 130
4-Chlorotoluene	50.0	49.4	99	70 - 130
tert-Butylbenzene	50.0	49.9	100	70 - 130
1,2,4-Trimethylbenzene	50.0	49.8	100	70 - 130
sec-Butylbenzene	50.0	51.4	103	70 - 130
p-Isopropyltoluene	50.0	51.0	102	70 - 130
1,3-Dichlorobenzene	50.0	49.0	98	70 - 130
1,4-Dichlorobenzene	50.0	49.6	99	70 - 130
n-Butyl Benzene	50.0	50.2	100	70 - 130
1,2-Dichlorobenzene	50.0	49.4	99	70 - 130
1,2-Dibromo-3-chloropropane	50.0	50.2	100	40 - 160
1,2,4-Trichlorobenzene	50.0	52.5	105	70 - 130
Hexachlorobutadiene	50.0	53.4	107	70 - 130
Naphthalene	50.0	51.9	104	40 - 160
1,2,3-Trichlorobenzene	50.0	51.3	103	70 - 130
Methyl tert-Butyl Ether	100	91.1	91	70 - 130

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1223\D13567.D Vial: 4
Acq On : 23 Dec 2015 14:37 Operator: SG
Sample : B5L2319-BS1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 15:00 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	607398	50.00	ug/l	-0.01
27) 1,4-Difluorobenzene	7.17	114	1066750	50.00	ug/l	-0.02
48) Chlorobenzene-d5	11.22	117	857646	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.22	152	378590	50.00	ug/l	0.00
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	6.44	65	223637	53.48	ug/l	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 106.96%			
41) Toluene-d8	9.06	98	1123395	51.86	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.72%			
47) Bromofluorobenzene	12.83	95	336672	53.25	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 106.50%			

Target Compounds						Qvalue
2) Acrolein	2.96	56	25466	203.93	ug/l	82
3) Acrylonitrile	4.38	53	273206	232.51	ug/l	96
4) Acetone	3.33	43	66909	44.57	ug/l	92
5) Dichlorodifluoromethane	1.34	85	208970	34.63	ug/l	97
6) Chloromethane	1.50	50	556028	40.62	ug/l	100
7) Vinyl Chloride	1.56	62	602661	42.07	ug/l	100
8) Bromomethane	1.84	94	412004	45.83	ug/l	98
9) Chloroethane	1.95	64	558460	44.29	ug/l	99
10) Trichoroflouromethane	2.05	101	493465	45.30	ug/l	92
11) Freon-113	2.61	101	419678	44.13	ug/l	95
12) 1,1-Dichloroethene	2.55	61	675816	51.47	ug/l	90
13) Carbon disulfide	2.56	76	1196202	57.97	ug/l	97
14) Methyl Acetate	3.50	43	169919	54.32	ug/l	96
15) Methylene Chloride	3.22	49	661879	63.64	ug/l	90
16) trans-1,2-Dichloroethene	3.41	61	583996	51.10	ug/l #	86
17) 1,1-Dichloroethane	4.27	63	773714	53.41	ug/l	99
18) Vinyl acetate	4.72	43	510944	50.40	ug/l	99
19) 2,2-Dichloropropane	5.19	77	490968	52.30	ug/l	94
20) 2-Butanone	5.96	43	95709	45.48	ug/l	92
21) cis-1,2-Dichloroethene	5.05	61	558151	52.66	ug/l	84
22) Chloroform	5.48	83	538904	53.58	ug/l	98
23) Bromochloromethane	5.33	130	194492	53.40	ug/l	99
24) Cyclohexane	5.27	56	838047	47.59	ug/l	86
25) 1,1,1-Trichloroethane	5.70	97	414207	53.63	ug/l	93
26) T-butyl alcohol	3.84	59	165632	540.83	ug/l	93
29) 1,1-Dichloropropene	5.89	110	194302	53.17	ug/l	99
30) Carbon Tetrachloride	5.59	117	364998	55.35	ug/l	93
31) 1,2-Dichloroethane	6.55	62	278073	54.52	ug/l	93
32) Benzene	6.24	78	1454465	52.14	ug/l	95
33) Trichloroethene	7.07	95	332652	52.62	ug/l	94
34) Methylcyclohexane	7.02	83	642764	47.36	ug/l	89
35) 1,2-Dichloropropane	7.80	63	389685	51.95	ug/l	96
37) Bromodichloromethane	7.92	83	338875	53.21	ug/l	97
38) Dibromomethane	7.65	174	138491	53.84	ug/l	94
39) 2-Chloroethylvinylether	8.79	63	149877	53.02	ug/l	92
40) cis-1,3-dichloropropene	8.81	75	485011	52.01	ug/l	96
42) Toluene	9.13	91	1382431	51.96	ug/l	95
43) trans-1,3-Dichloropropene	9.75	75	351064	51.90	ug/l	97
44) 1,1,2-Trichloroethane	9.97	97	195817	52.34	ug/l	91
45) 4-Methyl-2-pentanone	9.73	43	186819	51.77	ug/l	95
46) 1,2-Dibromoethane	10.48	107	195230	54.02	ug/l	89
49) 2-Hexanone	10.92	43	135030	46.30	ug/l	92
50) 1,3-dichloropropane	10.33	76	375754	51.14	ug/l	97
51) Tetrachloroethene	9.63	166	350870	50.18	ug/l	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1223\D13567.D Vial: 4
Acq On : 23 Dec 2015 14:37 Operator: SG
Sample : B5L2319-BS1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 15:00 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

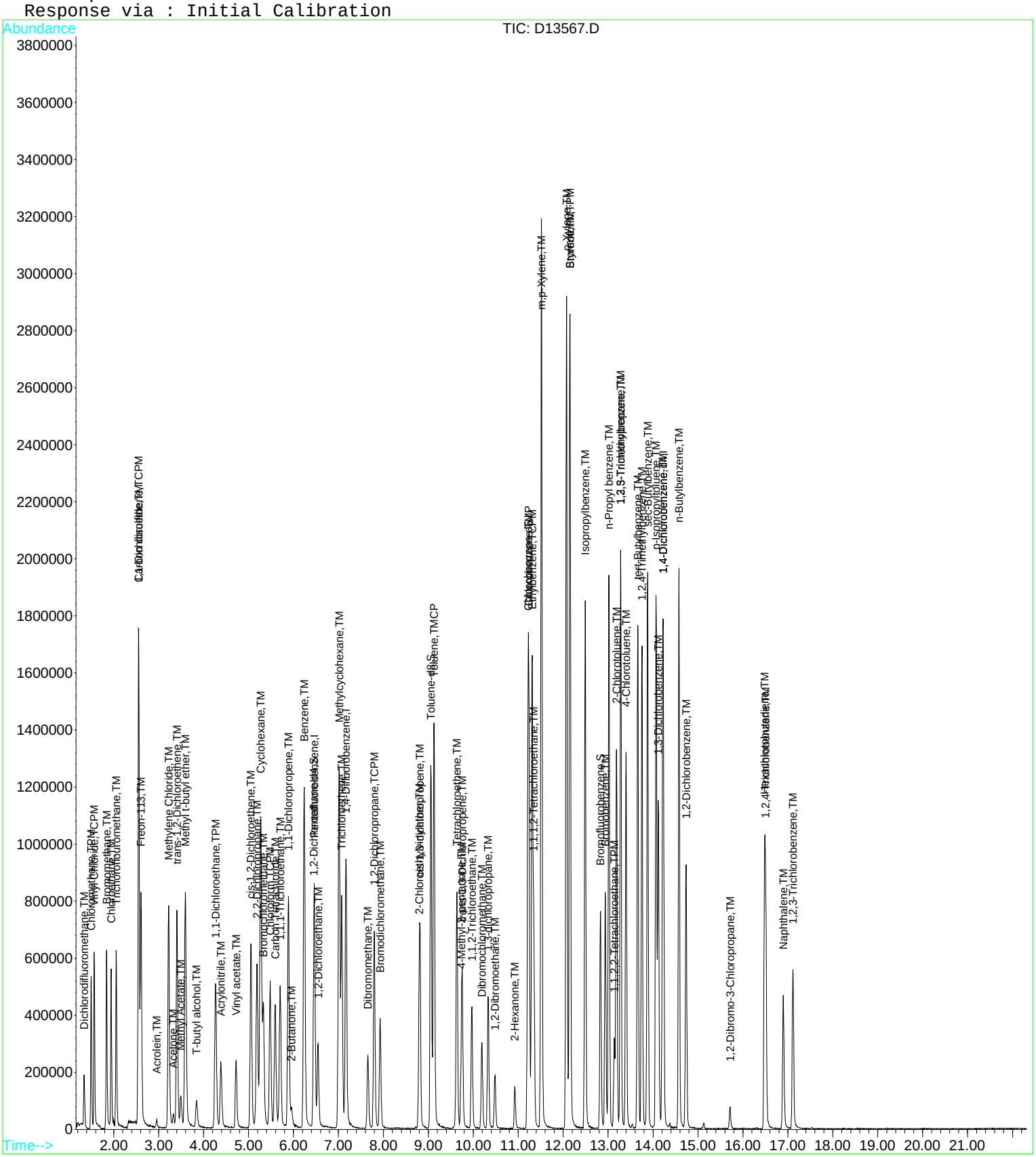
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	Dibromochloromethane	10.19	129	230587	53.56	ug/l		96
53)	Ethylbenzene	11.31	91	1528701	51.36	ug/l		97
54)	Chlorobenzene	11.24	112	897695	51.24	ug/l		97
55)	1,1,1,2-Tetrachloroethane	11.35	131	250515	50.08	ug/l		98
56)	m,p-Xylene	11.52	91	2197686	102.41	ug/l		98
57)	o-Xylene	12.08	91	2049060	98.69	ug/l		100
58)	Styrene	12.15	104	1796310	100.10	ug/l		99
59)	Bromoform	12.15	173	108880	52.58	ug/l		81
61)	Isopropylbenzene	12.49	105	1627576	50.72	ug/l		100
62)	1,1,2,2-Tetrachloroethane	13.14	83	218953	50.86	ug/l		93
63)	1,2,3-Trichloropropane	13.28	75	163915	51.20	ug/l		96
64)	n-Propyl benzene	13.02	91	1921606	50.20	ug/l		94
65)	Bromobenzene	12.94	77	495681	49.26	ug/l		95
66)	1,3,5-Trimethylbenzene	13.28	105	1173039	49.80	ug/l		97
67)	2-Chlorotoluene	13.19	91	944550	49.13	ug/l		92
68)	4-Chlorotoluene	13.40	91	964584	49.41	ug/l		93
69)	tert-Butylbenzene	13.66	119	1132513	49.92	ug/l		96
70)	1,2,4-Trimethylbenzene	13.75	105	1153846	49.79	ug/l		98
71)	sec-Butylbenzene	13.88	105	1822182	51.40	ug/l		100
72)	p-Isopropyltoluene	14.07	119	1473595	51.00	ug/l		99
73)	1,3-Dichlorobenzene	14.11	146	632512	49.05	ug/l		99
74)	1,4-Dichlorobenzene	14.23	146	620626	49.58	ug/l		99
75)	n-Butylbenzene	14.58	91	1368367	50.25	ug/l		96
76)	1,2-Dichlorobenzene	14.73	146	528624	49.40	ug/l		99
77)	1,2-Dibromo-3-Chloropropan	15.72	157	30895	50.20	ug/l	#	85
78)	1,2,4-Trichlorobenzene	16.51	180	329628	52.52	ug/l		98
79)	Hexachlorobutadiene	16.48	225	197469	53.36	ug/l		95
80)	Naphthalene	16.90	128	575493	51.87	ug/l		98
81)	1,2,3-Trichlorobenzene	17.12	180	262831	51.34	ug/l		99
82)	Methyl t-butyl ether	3.59	73	1122026	91.07	ug/l		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\D\DATA15\DEC15\D1223\D13567.D Vial: 4
Acq On : 23 Dec 2015 14:37 Operator: SG
Sample : B5L2319-BS1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 15:00 2015 Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration



Accredited Analytical Resources, LLC.

METHOD BLANK SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Blank ID:	B5L2319-BLK1	Batch:	B5L2319

Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B5L2319-BS1	D13567.D	12/23/2015 14:37
Matrix Spike	B5L2319-MS1	D13568.D	12/23/2015 15:09
Matrix Spike Dup	B5L2319-MSD1	D13569.D	12/23/2015 15:38
EP-18	1502323-01RE1	D13572.D	12/23/2015 17:11
EP-18	1502323-01	D13585.D	12/23/2015 23:47

INSTRUMENT PERFORMANCE CHECK

EPA 8260

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502323
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Lab File ID:	D13255.D	Injection Date:	12/01/15
Instrument ID:	GC/MS D	Injection Time:	14:25
Sequence:	S5L0109	Lab Sample ID:	S5L0109-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	21.2	PASS
75	30 - 60% of 95	46.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.81	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	81.1	PASS
175	5 - 9% of 174	6.73	PASS
176	95 - 101% of 174	95	PASS
177	5 - 9% of 176	6.66	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
2 ppb 8260	S5L0109-CAL1	D13256.D	12/01/2015	14:40:00
10 ppb 8260	S5L0109-CAL2	D13257.D	12/01/2015	15:11:00
20 ppb 8260	S5L0109-CAL3	D13258.D	12/01/2015	15:47:00
50 ppb 8260	S5L0109-CAL4	D13259.D	12/01/2015	16:17:00
100 ppb 8260	S5L0109-CAL5	D13260.D	12/01/2015	17:09:00
200 ppb 8260	S5L0109-CAL6	D13261.D	12/01/2015	17:39:00

INSTRUMENT PERFORMANCE CHECK

EPA 8260

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502323
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Lab File ID:	D13563.D	Injection Date:	12/23/15
Instrument ID:	GC/MS D	Injection Time:	12:20
Sequence:	S5L2311	Lab Sample ID:	S5L2311-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	21.3	PASS
75	30 - 60% of 95	45.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.37	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	84.7	PASS
175	5 - 9% of 174	7.17	PASS
176	95 - 101% of 174	96.5	PASS
177	5 - 9% of 176	6.49	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S5L2311-CCV1	D13564.D	12/23/2015	12:35:00
Blank	B5L2319-BLK1	D13566.D	12/23/2015	13:57:00
LCS	B5L2319-BS1	D13567.D	12/23/2015	14:37:00
Matrix Spike	B5L2319-MS1	D13568.D	12/23/2015	15:09:00
Matrix Spike Dup	B5L2319-MSD1	D13569.D	12/23/2015	15:38:00
INTSUP	1502323-01RE1	D13572.D	12/23/2015	17:11:00
EP-18	1502323-01	D13585.D	12/23/2015	23:47:00

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Sequence: S5L2311 Instrument: GC/MS D
Calibration: 15L1401

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S5L2311-CCV1)			*Lab File ID: D13564.D*			*Analyzed: 12/23/15 12:35*			
Pentafluorobenzene	733275	6.47	721379	6.46	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1316145	7.17	1264794	7.17	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1058444	11.21	980805	11.21	108	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	459230	14.2	427639	14.21	107	50 - 200	-0.0100	+/-0.50	
Blank (B5L2319-BLK1)			*Lab File ID: D13566.D*			*Analyzed: 12/23/15 13:57*			
Pentafluorobenzene	706240	6.47	733275	6.47	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1268218	7.17	1316145	7.17	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	976039	11.21	1058444	11.21	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	400217	14.21	459230	14.2	87	50 - 200	0.0100	+/-0.50	
LCS (B5L2319-BS1)			*Lab File ID: D13567.D*			*Analyzed: 12/23/15 14:37*			
Pentafluorobenzene	607398	6.47	733275	6.47	83	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1066750	7.17	1316145	7.17	81	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	857646	11.22	1058444	11.21	81	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	378590	14.22	459230	14.2	82	50 - 200	0.0200	+/-0.50	
Matrix Spike (B5L2319-MS1)			*Lab File ID: D13568.D*			*Analyzed: 12/23/15 15:09*			
Pentafluorobenzene	651593	6.47	733275	6.47	89	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1136307	7.17	1316145	7.17	86	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	940546	11.22	1058444	11.21	89	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	418173	14.21	459230	14.2	91	50 - 200	0.0100	+/-0.50	
Matrix Spike Dup (B5L2319-MSD1)			*Lab File ID: D13569.D*			*Analyzed: 12/23/15 15:38*			
Pentafluorobenzene	615017	6.47	733275	6.47	84	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1110593	7.18	1316145	7.17	84	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	906740	11.22	1058444	11.21	86	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	385932	14.21	459230	14.2	84	50 - 200	0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Sequence: S5L2311 Instrument: GC/MS D
Calibration: 15L1401

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EP-18 (1502323-01RE1)			*Lab File ID: D13572.D*			*Analyzed: 12/23/15 17:11*			
Pentafluorobenzene	419703	6.47	733275	6.47	57	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	785502	7.18	1316145	7.17	60	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	513029	11.22	1058444	11.21	48	50 - 200	0.0100	+/-0.50	*
1,4-Dichlorobenzene-d4	154489	14.21	459230	14.2	34	50 - 200	0.0100	+/-0.50	*
EP-18 (1502323-01)			*Lab File ID: D13585.D*			*Analyzed: 12/23/15 23:47*			
Pentafluorobenzene	470992	6.49	733275	6.47	64	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	872380	7.19	1316145	7.17	66	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	612565	11.23	1058444	11.21	58	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	191112	14.23	459230	14.2	42	50 - 200	0.0300	+/-0.50	*

* Values outside of QC limits

Accredited Analytical Resources, LLC.

VOLATILES CALIBRATION DATA

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L1401 Instrument: GC/MS D
Calibration Date: 12/1/2015 7:29:13PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Acrolein	10	8.821141E-03	50	0.0120828	100	1.015763E-02	250	1.001526E-02	500	1.090093E-02	1000	9.698984E-03
Acrylonitrile	10	0.1030059	50	0.1040353	100	9.534724E-02	250	9.243501E-02	500	9.794981E-02	1000	8.758337E-02
Acetone	2	0.2881964	10	0.163567	20	0.1362807	50	0.1192144	100	0.1240989	200	0.1124785
Dichlorodifluoromethane	2	0.3807089	10	0.4970919	20	0.5052961	50	0.4666862	100	0.5698982	200	0.5606093
Chloromethane	2	1.106623	10	1.116062	20	1.168668	50	1.064564	100	1.154713	200	1.149998
Vinyl chloride	2	1.148511	10	1.203369	20	1.202107	50	1.113249	100	1.197416	200	1.210045
Bromomethane	2	0.7302954	10	0.7469323	20	0.7213822	50	0.7340515	100	0.7696532	200	0.7379234
Chloroethane	2	1.092331	10	1.081891	20	1.058067	50	1.01579	100	1.030954	200	0.9482162
Trichlorofluoromethane	2	0.8805646	10	0.954794	20	0.9028403	50	0.8954467	100	0.9044264	200	0.8426897
Freon 113	2	0.8165833	10	0.8787367	20	0.808157	50	0.7496651	100	0.7556287	200	0.6886622
1,1-Dichloroethene	2	1.157194	10	1.186124	20	1.124918	50	1.037837	100	1.043331	200	0.9359493
Carbon disulfide	2	1.806597	10	1.865694	20	1.725002	50	1.652411	100	1.657518	200	1.484813
Methyl Acetate	2	0.2712594	10	0.2907278	20	0.2672659	50	0.2447085	100	0.2467158	200	0.22443
Methylene Chloride	2	2.616235	10	1.335092	20	1.08993	50	0.8915854	100	0.8786063	200	0.7711456
trans-1,2-Dichloroethene	2	0.9811449	10	1.038136	20	0.9455016	50	0.9036393	100	0.9198471	200	0.8560454
1,1-Dichloroethane	2	1.182786	10	1.327552	20	1.221099	50	1.167827	100	1.17609	200	1.080165
Vinyl acetate	2	0.830555	10	0.9237047	20	0.8205534	50	0.8106323	100	0.8418503	200	0.779817
2,2-Dichloropropane	2	0.7923799	10	0.839968	20	0.7646119	50	0.7522655	100	0.7687295	200	0.7188003
2-Butanone	2	0.1931995	10	0.1868724	20	0.160013	50	0.1667439	100	0.173902	200	0.1586938
cis-1,2-Dichloroethene	2	0.8852397	10	0.9554383	20	0.8845004	50	0.8550231	100	0.86518	200	0.7892956
Chloroform	2	0.8532891	10	0.905995	20	0.8164571	50	0.8110659	100	0.812196	200	0.7682898
Bromochloromethane	2	0.3093811	10	0.3291657	20	0.2976002	50	0.2863475	100	0.2978677	200	0.2784187
Cyclohexane	2	1.597636	10	1.614333	20	1.461302	50	1.379457	100	1.385563	200	1.258481
1,1,1-Trichloroethane	2	0.6170257	10	0.6966995	20	0.6587765	50	0.622373	100	0.6289029	200	0.5905465
t-Butyl alcohol	20	2.610545E-02	100	2.787181E-02	200	2.403244E-02	500	2.450123E-02	1000	2.541485E-02	2000	2.333736E-02
1,1-Dichloropropene	2	0.1788583	10	0.1895883	20	0.1662109	50	0.1667225	100	0.1698093	200	0.1565209

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L1401 Instrument: GC/MS D
Calibration Date: 12/1/2015 7:29:13PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Carbon Tetrachloride	2	0.3068186	10	0.3298264	20	0.317528	50	0.3053304	100	0.3085796	200	0.2864644
1,2-Dichloroethane	2	0.2410018	10	0.2538409	20	0.2453324	50	0.2318278	100	0.2420106	200	0.2203384
Benzene	2	1.418492	10	1.3777	20	1.323777	50	1.264174	100	1.293646	200	1.167396
Trichloroethene	2	0.3018507	10	0.3138439	20	0.2945539	50	0.2905467	100	0.2985951	200	0.2785111
Methylcyclohexane	2	0.6811249	10	0.6797495	20	0.6434447	50	0.6146638	100	0.62616	200	0.5718805
1,2-Dichloropropane	2	0.3846636	10	0.368298	20	0.3424846	50	0.3398694	100	0.3493031	200	0.3250045
1,4-Dioxane	80	0	160	0	320	0	640	0	2000	0	5000	0
Bromodichloromethane	2	0.2862998	10	0.3248128	20	0.297161	50	0.2898399	100	0.3028213	200	0.290225
Dibromomethane	2	0.1108286	10	0.1308846	20	0.1255283	50	0.1208229	100	0.1203697	200	0.1150022
2-Chloroethyl vinyl ether	2	0.1089017	10	0.1474185	20	0.1314344	50	0.1332495	100	0.1408939	200	0.1330203
cis-1,3-Dichloropropene	2	0.4507513	10	0.4536403	20	0.4370751	50	0.4276605	100	0.4410257	200	0.4122343
Toluene	2	1.370018	10	1.308372	20	1.267052	50	1.20837	100	1.213888	200	1.114299
trans-1,3-Dichloropropene	2	0.309724	10	0.3428717	20	0.3077794	50	0.3116305	100	0.3235293	200	0.3067378
1,1,2-Trichloroethane	2	0.1868521	10	0.1931221	20	0.1726842	50	0.1672119	100	0.1700975	200	0.1622578
4-Methyl-2-pentanone	2	0.1629762	10	0.1886275	20	0.1637579	50	0.1687178	100	0.1697326	200	0.1609569
1,2-Dibromoethane	2	0.1643913	10	0.1877763	20	0.1647501	50	0.1682631	100	0.1692794	200	0.1619819
2-Hexanone	2	0.1648101	10	0.1911862	20	0.1618186	50	0.1665849	100	0.176052	200	0.1596074
1,3-Dichloropropane	2	0.4361324	10	0.4858041	20	0.4241337	50	0.4202049	100	0.4236961	200	0.3802333
Tetrachloroethene	2	0.4322031	10	0.4288974	20	0.4132549	50	0.39521	100	0.4088314	200	0.3675576
Dibromochloromethane	2	0.23235	10	0.2748823	20	0.2456656	50	0.2497696	100	0.264189	200	0.2391804
Ethylbenzene	2	1.869526	10	1.823298	20	1.788442	50	1.702567	100	1.726048	200	1.502551
Chlorobenzene	2	1.114699	10	1.065524	20	1.009849	50	1.015502	100	1.018584	200	0.9045536
1,1,1,2-Tetrachloroethane	2	0.2848944	10	0.321508	20	0.2826148	50	0.2865337	100	0.296715	200	0.2776071
m,p-Xylenes	4	1.37699	20	1.29328	40	1.305728	100	1.224042	200	1.240305	400	1.066145
o-Xylene	4	1.333868	20	1.239083	40	1.266614	100	1.190795	200	1.198178	400	1.033824
Styrene	4	1.113907	20	1.040939	40	1.062321	100	1.048095	200	1.061784	400	0.9500761

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration: 15L1401 Instrument: GC/MS D
Calibration Date: 12/1/2015 7:29:13PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Bromoform	2	0.1062916	10	0.1278204	20	0.1193917	50	0.1189715	100	0.1280197	200	0.1238804
Isopropylbenzene	2	4.611445	10	4.647934	20	4.257236	50	4.126275	100	4.138955	200	3.644435
1,1,2,2-Tetrachloroethane	2	0.5704098	10	0.6760906	20	0.5513061	50	0.5473392	100	0.5450345	200	0.5209393
1,2,3-Trichloropropane	2	0.4375767	10	0.4907402	20	0.4085806	50	0.404159	100	0.4133488	200	0.3825147
n-Propyl Benzene	2	5.489223	10	5.484817	20	5.23331	50	4.918011	100	4.964946	200	4.240355
Bromobenzene	2	1.474385	10	1.424591	20	1.325183	50	1.253594	100	1.314239	200	1.181528
1,3,5-Trimethylbenzene	2	3.332105	10	3.422204	20	3.109919	50	3.042326	100	3.055033	200	2.702833
2-Chlorotoluene	2	2.706142	10	2.796716	20	2.581488	50	2.4354	100	2.488127	200	2.225954
4-Chlorotoluene	2	2.881454	10	2.689321	20	2.624457	50	2.495672	100	2.524666	200	2.254751
tert-Butylbenzene	2	3.295799	10	3.193461	20	3.045828	50	2.878314	100	2.972506	200	2.590389
1,2,4-Trimethylbenzene	2	3.301339	10	3.406298	20	3.081045	50	2.956998	100	2.990922	200	2.628709
sec-Butylbenzene	2	5.158768	10	5.014775	20	4.812371	50	4.541909	100	4.652462	200	3.911833
p-Isopropyltoluene	2	3.88667	10	4.122464	20	4.000302	50	3.753845	100	3.854112	200	3.278738
1,3-Dichlorobenzene	2	1.905011	10	1.794726	20	1.704849	50	1.636908	100	1.670119	200	1.506117
1,4-Dichlorobenzene	2	1.905011	10	1.683804	20	1.64149	50	1.585571	100	1.63423	200	1.469191
n-Butyl Benzene	2	3.832623	10	3.8869	20	3.763998	50	3.499649	100	3.587822	200	3.005716
1,2-Dichlorobenzene	2	1.600122	10	1.45708	20	1.44653	50	1.347046	100	1.395014	200	1.233807
1,2-Dibromo-3-chloropropane	2	4.874924E-02	10	7.154456E-02	20	7.590514E-02	50	7.946066E-02	100	8.903614E-02	200	0.0789066
1,2,4-Trichlorobenzene	2	0.8787986	10	0.8170278	20	0.8691385	50	0.7925035	100	0.859437	200	0.7565337
Hexachlorobutadiene	2	0.5029969	10	0.4786609	20	0.530009	50	0.4710129	100	0.506233	200	0.4437102
Naphthalene	2	1.678082	10	1.455882	20	1.522815	50	1.368258	100	1.496067	200	1.271203
1,2,3-Trichlorobenzene	2	0.7667191	10	0.6714097	20	0.7159485	50	0.6357586	100	0.6852085	200	0.581361
Methyl tert-Butyl Ether	4	1.757233	20	2.042803	40	1.55241	100	1.524045	200	1.550158	400	1.336198
1,2-Dichloroethane-d4	2	0.2069795	10	0.2069379	20	0.1961308	50	0.1900853	100	0.1958876	200	0.1799649
Toluene-d8	2	1.091682	10	1.064714	20	1.030377	50	0.9825928	100	1.003772	200	0.9187683
Bromofluorobenzene	2	0.3358279	10	0.2822432	20	0.2975069	50	0.2882341	100	0.2963155	200	0.277855

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration:	15L1401	Instrument:	GC/MS D
		Calibration Date:	12/1/2015 7:29:13PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	1.027946E-02	10.82104		
Acrylonitrile	9.672611E-02	6.510138		
Acetone	0.157306	42.33686		
Dichlorodifluoromethane	0.4967151	13.91056		
Chloromethane	1.126771	3.429468	SPCC (0.1)	
Vinyl chloride	1.179116	3.32457	CCC (20)	
Bromomethane	0.7400397	2.267457		
Chloroethane	1.037875	5.077389		
Trichlorofluoromethane	0.8967936	4.06701		
Freon 113	0.7829055	8.411971		
1,1-Dichloroethene	1.080892	8.590248	CCC (20)	
Carbon disulfide	1.698673	7.889689		
Methyl Acetate	0.2575179	9.127351		
Methylene Chloride	1.263766	54.75354		
trans-1,2-Dichloroethene	0.9407191	6.744489		
1,1-Dichloroethane	1.192587	6.775722	SPCC (0.1)	
Vinyl acetate	0.8345188	5.816735		
2,2-Dichloropropane	0.7727925	5.27732		
2-Butanone	0.1732374	8.217978		
cis-1,2-Dichloroethene	0.8724462	6.165484		
Chloroform	0.8278822	5.654662	CCC (20)	
Bromochloromethane	0.2997968	5.968461		
Cyclohexane	1.449462	9.49653		
1,1,1-Trichloroethane	0.6357207	5.828603		
t-Butyl alcohol	2.521052E-02	6.475355		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration:	15L1401	Instrument:	GC/MS D
		Calibration Date:	12/1/2015 7:29:13PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
1,1-Dichloropropene	0.171285	6.702949		
Carbon Tetrachloride	0.3090912	4.649522		
1,2-Dichloroethane	0.2390586	4.853429		
Benzene	1.307531	6.772749		
Trichloroethene	0.2963169	3.982943		
Methylcyclohexane	0.6361706	6.545202		
1,2-Dichloropropane	0.3516039	6.106969	CCC (20)	
1,4-Dioxane	0	0		
Bromodichloromethane	0.2985266	4.749495		
Dibromomethane	0.1205727	5.945825		
2-Chloroethyl vinyl ether	0.1324864	9.852093		
cis-1,3-Dichloropropene	0.4370645	3.518954		
Toluene	1.247	7.127683	CCC (20)	
trans-1,3-Dichloropropene	0.3170455	4.42491		
1,1,2-Trichloroethane	0.1753709	6.844895		
4-Methyl-2-pentanone	0.1691282	5.996129		
1,2-Dibromoethane	0.169407	5.542053		
2-Hexanone	0.1700099	6.954817		
1,3-Dichloropropane	0.4283674	7.938849		
Tetrachloroethene	0.4076591	5.855779		
Dibromochloromethane	0.2510061	6.328892		
Ethylbenzene	1.735405	7.465008	CCC (20)	
Chlorobenzene	1.021452	6.850318	SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.2916455	5.459912		
m,p-Xylenes	1.251082	8.43402		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration:	15L1401	Instrument:	GC/MS D
		Calibration Date:	12/1/2015 7:29:13PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
o-Xylene	1.210394	8.339062		
Styrene	1.046187	5.122184		
Bromoform	0.1207292	6.695315	SPCC (0.1)	
Isopropylbenzene	4.237713	8.718285		
1,1,2,2-Tetrachloroethane	0.5685199	9.67757	SPCC (0.3)	
1,2,3-Trichloropropane	0.42282	8.909843		
n-Propyl Benzene	5.05511	9.260016		
Bromobenzene	1.32892	8.100456		
1,3,5-Trimethylbenzene	3.110737	8.1349		
2-Chlorotoluene	2.538971	8.023123		
4-Chlorotoluene	2.578387	8.149177		
tert-Butylbenzene	2.99605	8.314579		
1,2,4-Trimethylbenzene	3.060885	9.006546		
sec-Butylbenzene	4.68202	9.401038		
p-Isopropyltoluene	3.816022	7.656689		
1,3-Dichlorobenzene	1.702955	8.027357		
1,4-Dichlorobenzene	1.653216	8.693287		
n-Butyl Benzene	3.596118	9.024649		
1,2-Dichlorobenzene	1.413266	8.658258		
1,2-Dibromo-3-chloropropane	7.393372E-02	18.41883		
1,2,4-Trichlorobenzene	0.8289065	5.84681		
Hexachlorobutadiene	0.4887705	6.24326		
Naphthalene	1.465385	9.49072		
1,2,3-Trichlorobenzene	0.6760676	9.472887		
Methyl tert-Butyl Ether	1.627141	14.96554		

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Calibration:	15L1401	Instrument:	GC/MS D
		Calibration Date:	12/1/2015 7:29:13PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
1,2-Dichloroethane-d4	0.1959977	5.264448		
Toluene-d8	1.015318	6.075297		
Bromofluorobenzene	0.2963304	7.025003		

* Values outside of QC limits

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Instrument ID:	GC/MS D	Calibration:	15L1401
Lab File ID:	D13564.D	Calibration Date:	12/01/15 19:29
Sequence:	S5L2311	Injection Date:	12/23/15
Lab Sample ID:	S5L2311-CCV1	Injection Time:	12:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	L	250	214	1.027946E-02	8.790699E-03		-14.5	
Acrylonitrile	A	250	256	9.672611E-02	9.914398E-02		2.5	
Acetone	L	50.0	52.2	0.157306	0.1271665		-19.2	
Dichlorodifluoromethane	A	50.0	49.2	0.4967151	0.4888412		-1.6	
Chloromethane	A	50.0	48.2	1.126771	1.086967	0.1	-3.5	
Vinyl chloride	A	50.0	49.6	1.179116	1.169421		-0.8	20
Bromomethane	A	50.0	52.6	0.7400397	0.7787992		5.2	
Chloroethane	A	50.0	51.2	1.037875	1.063638		2.5	
Trichlorofluoromethane	A	50.0	55.9	0.8967936	1.002899		11.8	
Freon 113	A	50.0	44.2	0.7829055	0.6918141		-11.6	
1,1-Dichloroethene	A	50.0	47.1	1.080892	1.017384		-5.9	20
Carbon disulfide	A	50.0	41.0	1.698673	1.392985		-18.0	
Methyl Acetate	A	50.0	52.7	0.2575179	0.2715775		5.5	
Methylene Chloride	L	50.0	64.3	1.263766	1.100273		-12.9	
trans-1,2-Dichloroethene	A	50.0	48.6	0.9407191	0.9133449		-2.9	
1,1-Dichloroethane	A	50.0	51.6	1.192587	1.230949	0.1	3.2	
Vinyl acetate	A	50.0	48.9	0.8345188	0.8161208		-2.2	
2,2-Dichloropropane	A	50.0	52.0	0.7727925	0.802857		3.9	
2-Butanone	A	50.0	55.7	0.1732374	0.1929099		11.4	
cis-1,2-Dichloroethene	A	50.0	51.0	0.8724462	0.8891616		1.9	
Chloroform	A	50.0	51.3	0.8278822	0.8495421		2.6	20
Bromochloromethane	A	50.0	52.4	0.2997968	0.3141318		4.8	
Cyclohexane	A	50.0	46.6	1.449462	1.349664		-6.9	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Instrument ID:	GC/MS D	Calibration:	15L1401
Lab File ID:	D13564.D	Calibration Date:	12/01/15 19:29
Sequence:	S5L2311	Injection Date:	12/23/15
Lab Sample ID:	S5L2311-CCV1	Injection Time:	12:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1-Trichloroethane	A	50.0	52.0	0.6357207	0.6614858		4.1	
t-Butyl alcohol	A	500	577	2.521052E-02	2.911213E-02		15.5	
1,1-Dichloropropene	A	50.0	50.8	0.171285	0.1739147		1.5	
Carbon Tetrachloride	A	50.0	52.4	0.3090912	0.3239658		4.8	
1,2-Dichloroethane	A	50.0	51.6	0.2390586	0.246754		3.2	
Benzene	A	50.0	50.3	1.307531	1.314856		0.6	
Trichloroethene	A	50.0	51.6	0.2963169	0.3060651		3.3	
Methylcyclohexane	A	50.0	48.1	0.6361706	0.6119037		-3.8	
1,2-Dichloropropane	A	50.0	51.2	0.3516039	0.3597818		2.3	20
Bromodichloromethane	A	50.0	53.1	0.2985266	0.3168405		6.1	
Dibromomethane	A	50.0	54.9	0.1205727	0.1324421		9.8	
2-Chloroethyl vinyl ether	A	50.0	56.9	0.1324864	0.1506756		13.7	
cis-1,3-Dichloropropene	A	50.0	53.7	0.4370645	0.4692355		7.4	
Toluene	A	50.0	50.1	1.247	1.250203		0.3	20
trans-1,3-Dichloropropene	A	50.0	54.1	0.3170455	0.343064		8.2	
1,1,2-Trichloroethane	A	50.0	52.6	0.1753709	0.184561		5.2	
4-Methyl-2-pentanone	A	50.0	54.0	0.1691282	0.1828256		8.1	
1,2-Dibromoethane	A	50.0	53.3	0.169407	0.1804497		6.5	
2-Hexanone	A	50.0	54.9	0.1700099	0.1866617		9.8	
1,3-Dichloropropane	A	50.0	51.2	0.4283674	0.4384861		2.4	
Tetrachloroethene	A	50.0	49.7	0.4076591	0.4049548		-0.7	
Dibromochloromethane	A	50.0	54.0	0.2510061	0.2709184		7.9	
Ethylbenzene	A	50.0	50.0	1.735405	1.736608		0.07	20

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Instrument ID:	GC/MS D	Calibration:	15L1401
Lab File ID:	D13564.D	Calibration Date:	12/01/15 19:29
Sequence:	S5L2311	Injection Date:	12/23/15
Lab Sample ID:	S5L2311-CCV1	Injection Time:	12:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Chlorobenzene	A	50.0	49.4	1.021452	1.008615	0.3	-1.3	
1,1,1,2-Tetrachloroethane	A	50.0	51.8	0.2916455	0.3021747		3.6	
m,p-Xylenes	A	100	99.0	1.251082	1.238642		-1.0	
o-Xylene	A	100	97.6	1.210394	1.181021		-2.4	
Styrene	A	100	98.8	1.046187	1.034156		-1.1	
Bromoform	A	50.0	54.0	0.1207292	0.1303716	0.1	8.0	
Isopropylbenzene	A	50.0	49.4	4.237713	4.190133		-1.1	
1,1,2,2-Tetrachloroethane	A	50.0	50.6	0.5685199	0.5749276	0.3	1.1	
1,2,3-Trichloropropane	A	50.0	49.7	0.42282	0.4199464		-0.7	
n-Propyl Benzene	A	50.0	48.1	5.05511	4.864719		-3.8	
Bromobenzene	A	50.0	47.4	1.32892	1.260484		-5.1	
1,3,5-Trimethylbenzene	A	50.0	48.4	3.110737	3.011861		-3.2	
2-Chlorotoluene	A	50.0	48.2	2.538971	2.445025		-3.7	
4-Chlorotoluene	A	50.0	47.5	2.578387	2.448607		-5.0	
tert-Butylbenzene	A	50.0	47.5	2.99605	2.84565		-5.0	
1,2,4-Trimethylbenzene	A	50.0	48.4	3.060885	2.964569		-3.1	
sec-Butylbenzene	A	50.0	48.8	4.68202	4.57074		-2.4	
p-Isopropyltoluene	A	50.0	48.8	3.816022	3.723507		-2.4	
1,3-Dichlorobenzene	A	50.0	47.1	1.702955	1.604902		-5.8	
1,4-Dichlorobenzene	A	50.0	46.8	1.653216	1.545716		-6.5	
n-Butyl Benzene	A	50.0	47.8	3.596118	3.437328		-4.4	
1,2-Dichlorobenzene	A	50.0	47.6	1.413266	1.346608		-4.7	
1,2-Dibromo-3-chloropropane	L	50.0	53.1	7.393372E-02	0.0862509		16.7	

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client:	**BRINKERHOFF ENVIRONMENTAL**		
Work Order:	**1502323**		
Project:	**255 East 138th Street, Bronx, NY**		
Instrument ID:	GC/MS D	Calibration:	15L1401
Lab File ID:	D13564.D	Calibration Date:	12/01/15 19:29
Sequence:	S5L2311	Injection Date:	12/23/15
Lab Sample ID:	S5L2311-CCV1	Injection Time:	12:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	**TYPE**	**STD**	**CCV**	**ICAL**	**CCV**	**MIN (#)**	**CCV**	**LIMIT (#)**
1,2,4-Trichlorobenzene	A	50.0	48.5	0.8289065	0.8035189		-3.1	
Hexachlorobutadiene	A	50.0	49.4	0.4887705	0.483174		-1.1	
Naphthalene	A	50.0	48.4	1.465385	1.41739		-3.3	
1,2,3-Trichlorobenzene	A	50.0	47.4	0.6760676	0.6402587		-5.3	
Methyl tert-Butyl Ether	A	100	85.6	1.627141	1.393285		-14.4	
1,2-Dichloroethane-d4	A	50.0	50.8	0.1959977	0.1992417		1.7	
Toluene-d8	A	50.0	50.6	1.015318	1.027716		1.2	
Bromofluorobenzene	A	50.0	52.3	0.2963304	0.3098564		4.6	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1223\D13564.D Vial: 1
Acq On : 23 Dec 2015 12:35 Operator: SG
Sample : S5L2311-CCV1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 24 9:07 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	733275	50.00	ug/l	-0.01
27) 1,4-Difluorobenzene	7.17	114	1316145	50.00	ug/l	-0.02
48) Chlorobenzene-d5	11.21	117	1058444	50.00	ug/l	-0.01
60) 1,4-Dichlorobenzene-d4	14.20	152	459230	50.00	ug/l	-0.02
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	6.45	65	262231	50.83	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.66%			
41) Toluene-d8	9.05	98	1352623	50.61	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.22%			
47) Bromofluorobenzene	12.83	95	407816	52.28	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.56%			

Target Compounds						Qvalue
2) Acrolein	2.96	56	32230	213.79	ug/l	95
3) Acrylonitrile	4.39	53	363499	256.25	ug/l	96
4) Acetone	3.33	43	93248	52.21	ug/l	94
5) Dichlorodifluoromethane	1.34	85	358455	49.21	ug/l	95
6) Chloromethane	1.50	50	797046	48.23	ug/l	98
7) Vinyl Chloride	1.57	62	857507	49.59	ug/l	97
8) Bromomethane	1.84	94	571074	52.62	ug/l	96
9) Chloroethane	1.95	64	779939	51.24	ug/l	98
10) Trichoroflouromethane	2.06	101	735401	55.92	ug/l	95
11) Freon-113	2.61	101	507290	44.18	ug/l	98
12) 1,1-Dichloroethene	2.56	61	746022	47.06	ug/l	90
13) Carbon disulfide	2.56	76	1021441	41.00	ug/l	97
14) Methyl Acetate	3.50	43	199141	52.73	ug/l	100
15) Methylene Chloride	3.22	49	806803m	64.34	ug/l	
16) trans-1,2-Dichloroethene	3.41	61	669733	48.55	ug/l	87
17) 1,1-Dichloroethane	4.27	63	902624	51.61	ug/l	99
18) Vinyl acetate	4.72	43	598441	48.90	ug/l	95
19) 2,2-Dichloropropane	5.19	77	588715	51.95	ug/l	94
20) 2-Butanone	5.96	43	141456	55.68	ug/l	99
21) cis-1,2-Dichloroethene	5.05	61	652000	50.96	ug/l	91
22) Chloroform	5.48	83	622948	51.31	ug/l	98
23) Bromochloromethane	5.34	130	230345	52.39	ug/l	92
24) Cyclohexane	5.27	56	989675	46.56	ug/l	92
25) 1,1,1-Trichloroethane	5.70	97	485051	52.03	ug/l	93
26) T-butyl alcohol	3.86	59	213472	577.38	ug/l	94
29) 1,1-Dichloropropene	5.89	110	228897	50.77	ug/l	96
30) Carbon Tetrachloride	5.59	117	426386	52.41	ug/l	99
31) 1,2-Dichloroethane	6.54	62	324764	51.61	ug/l	91
32) Benzene	6.24	78	1730541	50.28	ug/l	97
33) Trichloroethene	7.07	95	402826	51.64	ug/l	97
34) Methylcyclohexane	7.01	83	805354	48.09	ug/l	90
35) 1,2-Dichloropropane	7.79	63	473525	51.16	ug/l	93
37) Bromodichloromethane	7.92	83	417008	53.07	ug/l	97
38) Dibromomethane	7.65	174	174313	54.92	ug/l	95
39) 2-Chloroethylvinylether	8.78	63	198311	56.86	ug/l	97
40) cis-1,3-dichloropropene	8.81	75	617582	53.68	ug/l	97
42) Toluene	9.12	91	1645449	50.13	ug/l	99
43) trans-1,3-Dichloropropene	9.75	75	451522	54.10	ug/l	96
44) 1,1,2-Trichloroethane	9.96	97	242909	52.62	ug/l	98
45) 4-Methyl-2-pentanone	9.73	43	240625	54.05	ug/l	91
46) 1,2-Dibromoethane	10.47	107	237498	53.26	ug/l	84
49) 2-Hexanone	10.92	43	197571	54.90	ug/l	98
50) 1,3-dichloropropane	10.32	76	464113	51.18	ug/l	99
51) Tetrachloroethene	9.63	166	428622	49.67	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1223\D13564.D Vial: 1
Acq On : 23 Dec 2015 12:35 Operator: SG
Sample : S5L2311-CCV1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 24 9:07 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

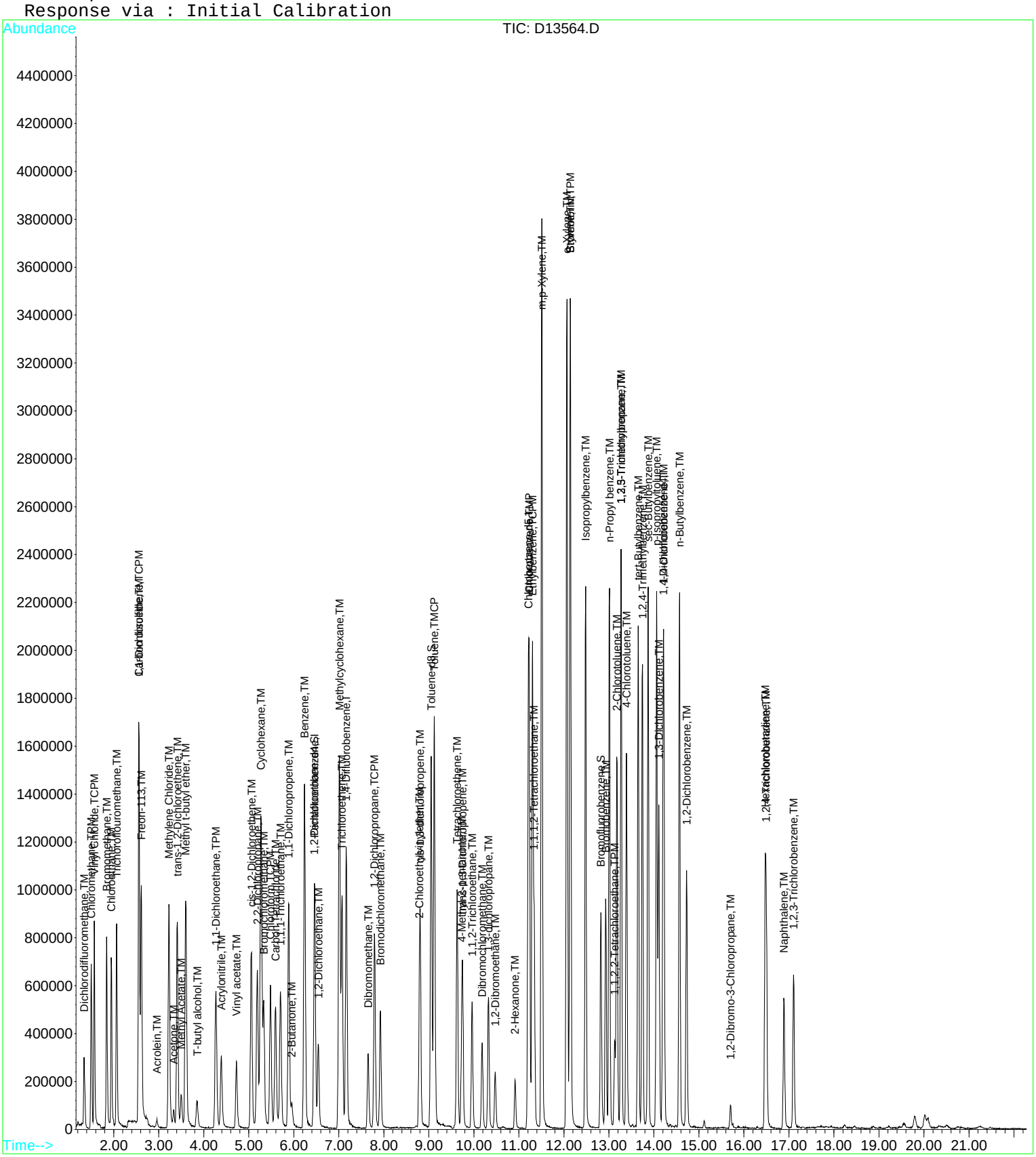
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	Dibromochloromethane	10.18	129	286752	53.97	ug/l		92
53)	Ethylbenzene	11.30	91	1838102	50.03	ug/l		97
54)	Chlorobenzene	11.23	112	1067562	49.37	ug/l		99
55)	1,1,1,2-Tetrachloroethane	11.34	131	319835	51.81	ug/l		99
56)	m,p-Xylene	11.51	91	2622066	99.01	ug/l		97
57)	o-Xylene	12.07	91	2500089	97.57	ug/l		99
58)	Styrene	12.14	104	2189192	98.85	ug/l		99
59)	Bromoform	12.15	173	137991	53.99	ug/l		82
61)	Isopropylbenzene	12.48	105	1924235	49.44	ug/l		98
62)	1,1,2,2-Tetrachloroethane	13.13	83	264024	50.56	ug/l		96
63)	1,2,3-Trichloropropane	13.27	75	192852	49.66	ug/l		94
64)	n-Propyl benzene	13.01	91	2234025	48.12	ug/l		94
65)	Bromobenzene	12.93	77	578852	47.43	ug/l		97
66)	1,3,5-Trimethylbenzene	13.27	105	1383137	48.41	ug/l		98
67)	2-Chlorotoluene	13.17	91	1122829	48.15	ug/l		93
68)	4-Chlorotoluene	13.39	91	1124474	47.48	ug/l		91
69)	tert-Butylbenzene	13.65	119	1306808	47.49	ug/l		97
70)	1,2,4-Trimethylbenzene	13.75	105	1361419	48.43	ug/l		99
71)	sec-Butylbenzene	13.87	105	2099021	48.81	ug/l		99
72)	p-Isopropyltoluene	14.06	119	1709946	48.79	ug/l		99
73)	1,3-Dichlorobenzene	14.11	146	737019	47.12	ug/l		96
74)	1,4-Dichlorobenzene	14.22	146	709839	46.75	ug/l		97
75)	n-Butylbenzene	14.57	91	1578524	47.79	ug/l		96
76)	1,2-Dichlorobenzene	14.73	146	618403	47.64	ug/l		97
77)	1,2-Dibromo-3-Chloropropan	15.70	157	39609	53.08	ug/l	#	83
78)	1,2,4-Trichlorobenzene	16.50	180	369000	48.47	ug/l		97
79)	Hexachlorobutadiene	16.47	225	221888	49.43	ug/l		95
80)	Naphthalene	16.89	128	650908	48.36	ug/l		98
81)	1,2,3-Trichlorobenzene	17.10	180	294026	47.35	ug/l		99
82)	Methyl t-butyl ether	3.60	73	1279677	85.63	ug/l		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\D\DATA15\DEC15\D1223\D13564.D Vial: 1
Acq On : 23 Dec 2015 12:35 Operator: SG
Sample : S5L2311-CCV1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 24 9:07 2015 Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration



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VOLATILES SAMPLE DATA

RAW DATA

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1201\D13256.D Vial: 1
Acq On : 1 Dec 2015 14:40 Operator: SG
Sample : S5L0109-CAL1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:05 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Tue Dec 01 14:59:37 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	935820	50.00	ug/l	-0.01
27) 1,4-Difluorobenzene	7.17	114	1660672	50.00	ug/l	-0.02
48) Chlorobenzene-d5	11.21	117	1247041	50.00	ug/l	-0.01
60) 1,4-Dichlorobenzene-d4	14.21	152	514367	50.00	ug/l	-0.02
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	6.45	65	13749	2.16	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 4.32%#			
41) Toluene-d8	9.06	98	72517	2.24	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 4.48%#			
47) Bromofluorobenzene	12.83	95	22308	2.32	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 4.64%#			

Target Compounds						Qvalue
2) Acrolein	2.96	56	1651	12.43	ug/l	90
3) Acrylonitrile	4.40	53	19279	12.03	ug/l	99
4) Acetone	3.33	43	10788	6.88	ug/l #	63
5) Dichlorodifluoromethane	1.34	85	14251	Below Cal		82
6) Chloromethane	1.51	50	41424	2.80	ug/l	89
7) Vinyl Chloride	1.57	62	42992	2.54	ug/l	88
8) Bromomethane	1.85	94	27337	2.38	ug/l	90
9) Chloroethane	1.95	64	40889	2.40	ug/l	94
10) Trichoroflouromethane	2.08	101	32962	2.20	ug/l	84
11) Freon-113	2.62	101	30567	2.28	ug/l	92
12) 1,1-Dichloroethene	2.56	61	43317	2.19	ug/l #	79
13) Carbon disulfide	2.56	76	67626	1.96	ug/l #	21
14) Methyl Acetate	3.51	43	10154m	2.21	ug/l	
15) Methylene Chloride	3.23	49	97933	4.34	ug/l	100
16) trans-1,2-Dichloroethene	3.41	61	36727	2.28	ug/l	90
17) 1,1-Dichloroethane	4.27	63	44275	2.17	ug/l	95
18) Vinyl acetate	4.74	43	31090	2.24	ug/l	87
19) 2,2-Dichloropropane	5.19	77	29661	2.19	ug/l	86
20) 2-Butanone	5.99	43	7232	2.66	ug/l	92
21) cis-1,2-Dichloroethene	5.06	61	33137	2.28	ug/l	98
22) Chloroform	5.48	83	31941	2.28	ug/l	84
23) Bromochloromethane	5.34	130	11581	2.19	ug/l	92
24) Cyclohexane	5.28	56	59804	2.38	ug/l	87
25) 1,1,1-Trichloroethane	5.71	97	23097	2.13	ug/l	83
26) T-butyl alcohol	3.85	59	9772m	24.15	ug/l	
29) 1,1-Dichloropropene	5.90	110	11881	2.29	ug/l #	74
30) Carbon Tetrachloride	5.60	117	20381	2.07	ug/l	85
31) 1,2-Dichloroethane	6.54	62	16009	2.20	ug/l	92
32) Benzene	6.25	78	94226	2.29	ug/l	95
33) Trichloroethene	7.07	95	20051	2.18	ug/l	90
34) Methylcyclohexane	7.02	83	45245	2.25	ug/l	93
35) 1,2-Dichloropropane	7.80	63	25552	2.41	ug/l	97
37) Bromodichloromethane	7.93	83	19018	2.21	ug/l	88
38) Dibromomethane	7.67	174	7362	1.92	ug/l	94
39) 2-Chloroethylvinylether	8.80	63	7234	1.73	ug/l	82
40) cis-1,3-dichloropropene	8.81	75	29942	2.27	ug/l	90
42) Toluene	9.13	91	91006	2.39	ug/l	92
43) trans-1,3-Dichloropropene	9.75	75	20574	2.16	ug/l	95
44) 1,1,2-Trichloroethane	9.96	97	12412	2.42	ug/l #	73
45) 4-Methyl-2-pentanone	9.74	43	10826	2.03	ug/l	85
46) 1,2-Dibromoethane	10.48	107	10920	2.22	ug/l	94
49) 2-Hexanone	10.93	43	8221	2.22	ug/l	77
50) 1,3-dichloropropane	10.33	76	21755	2.21	ug/l	87
51) Tetrachloroethene	9.63	166	21559	2.23	ug/l	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1201\D13256.D Vial: 1
Acq On : 1 Dec 2015 14:40 Operator: SG
Sample : S5L0109-CAL1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:05 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Tue Dec 01 14:59:37 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

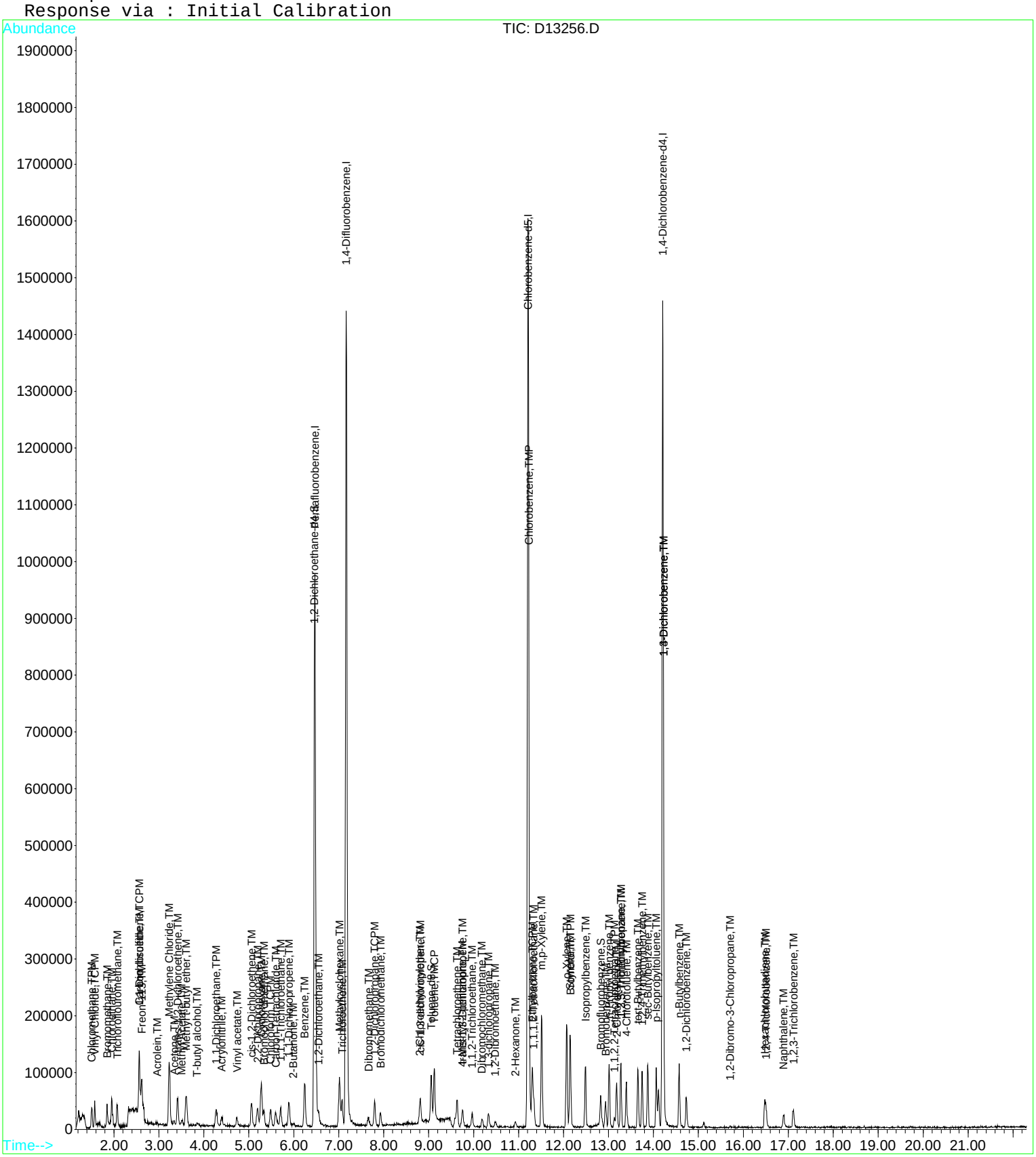
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
52)	Dibromochloromethane	10.18	129	11590	2.01 ug/l #	64
53)	Ethylbenzene	11.31	91	93255	2.37 ug/l	90
54)	Chlorobenzene	11.23	112	55603	2.43 ug/l	92
55)	1,1,1,2-Tetrachloroethane	11.34	131	14211	2.16 ug/l #	78
56)	m,p-Xylene	11.52	91	137373	4.83 ug/l	99
57)	o-Xylene	12.07	91	133071	4.77 ug/l	95
58)	Styrene	12.15	104	111127	4.75 ug/l	100
59)	Bromoform	12.16	173	5302	1.98 ug/l	97
61)	Isopropylbenzene	12.48	105	94879	2.40 ug/l	99
62)	1,1,2,2-Tetrachloroethane	13.13	83	11736	2.27 ug/l	93
63)	1,2,3-Trichloropropane	13.27	75	9003	2.32 ug/l	83
64)	n-Propyl benzene	13.01	91	112939	2.38 ug/l	98
65)	Bromobenzene	12.94	77	30335	2.46 ug/l	98
66)	1,3,5-Trimethylbenzene	13.27	105	68557	2.40 ug/l	93
67)	2-Chlorotoluene	13.18	91	55678	2.34 ug/l	86
68)	4-Chlorotoluene	13.40	91	59285	2.49 ug/l	94
69)	tert-Butylbenzene	13.65	119	67810	2.42 ug/l	97
70)	1,2,4-Trimethylbenzene	13.75	105	67924	2.41 ug/l	97
71)	sec-Butylbenzene	13.87	105	106140	2.49 ug/l	98
72)	p-Isopropyltoluene	14.06	119	79967	2.24 ug/l	95
73)	1,3-Dichlorobenzene	14.23	146	39195	2.47 ug/l	100
74)	1,4-Dichlorobenzene	14.23	146	39195	2.55 ug/l	97
75)	n-Butylbenzene	14.57	91	78855	2.37 ug/l	98
76)	1,2-Dichlorobenzene	14.73	146	32922	2.55 ug/l	84
77)	1,2-Dibromo-3-Chloropropan	15.71	157	1003	4.25 ug/l #	74
78)	1,2,4-Trichlorobenzene	16.51	180	18081	2.45 ug/l	98
79)	Hexachlorobutadiene	16.48	225	10349	2.50 ug/l	95
80)	Naphthalene	16.89	128	34526	2.69 ug/l	95
81)	1,2,3-Trichlorobenzene	17.11	180	15775	2.78 ug/l	98
82)	Methyl t-butyl ether	3.61	73	72309	4.55 ug/l	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\D\DATA15\DEC15\D1201\D13256.D Vial: 1
Acq On : 1 Dec 2015 14:40 Operator: SG
Sample : S5L0109-CAL1 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:05 2015 Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1201\D13257.D Vial: 2
Acq On : 1 Dec 2015 15:11 Operator: SG
Sample : S5L0109-CAL2 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:09 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Tue Dec 01 14:59:37 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	861390	50.00	ug/l	-0.01
27) 1,4-Difluorobenzene	7.17	114	1550755	50.00	ug/l	-0.02
48) Chlorobenzene-d5	11.21	117	1143362	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.21	152	450768	50.00	ug/l	-0.01
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	6.45	65	64182	10.80	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 21.60%#			
41) Toluene-d8	9.05	98	330222	10.92	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 21.84%#			
47) Bromofluorobenzene	12.83	95	87538	9.76	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 19.52%#			
Target Compounds						Qvalue
2) Acrolein	2.95	56	10408m	53.39	ug/l	
3) Acrylonitrile	4.39	53	89615	60.76	ug/l	97
4) Acetone	3.35	43	28179	19.52	ug/l	77
5) Dichlorodifluoromethane	1.35	85	85638	24.75	ug/l	97
6) Chloromethane	1.51	50	192273	14.12	ug/l	100
7) Vinyl Chloride	1.57	62	207314	13.29	ug/l	97
8) Bromomethane	1.85	94	128680	12.16	ug/l	98
9) Chloroethane	1.95	64	186386	11.89	ug/l	99
10) Trichoroflouromethane	2.07	101	164490	11.95	ug/l	90
11) Freon-113	2.61	101	151387	12.24	ug/l	97
12) 1,1-Dichloroethene	2.56	61	204343	11.23	ug/l	88
13) Carbon disulfide	2.57	76	321418	10.14	ug/l	89
14) Methyl Acetate	3.50	43	50086	11.86	ug/l	99
15) Methylene Chloride	3.23	49	230007	15.58	ug/l	93
16) trans-1,2-Dichloroethene	3.41	61	178848	12.07	ug/l	85
17) 1,1-Dichloroethane	4.28	63	228708	12.20	ug/l	97
18) Vinyl acetate	4.73	43	159134	12.46	ug/l	100
19) 2,2-Dichloropropane	5.19	77	144708	11.63	ug/l	89
20) 2-Butanone	5.97	43	32194m	12.86	ug/l	
21) cis-1,2-Dichloroethene	5.05	61	164601	12.28	ug/l	85
22) Chloroform	5.49	83	156083	12.11	ug/l	96
23) Bromochloromethane	5.33	130	56708	11.67	ug/l	97
24) Cyclohexane	5.27	56	278114	12.05	ug/l	86
25) 1,1,1-Trichloroethane	5.70	97	120026	12.04	ug/l	89
26) T-butyl alcohol	3.86	59	48017	128.91	ug/l	89
29) 1,1-Dichloropropene	5.88	110	58801	12.15	ug/l	91
30) Carbon Tetrachloride	5.60	117	102296	11.11	ug/l	96
31) 1,2-Dichloroethane	6.55	62	78729	11.61	ug/l	89
32) Benzene	6.24	78	427295	11.14	ug/l	92
33) Trichloroethene	7.08	95	97339	11.31	ug/l	96
34) Methylcyclohexane	7.02	83	210825	11.23	ug/l	97
35) 1,2-Dichloropropane	7.80	63	114228	11.53	ug/l	95
37) Bromodichloromethane	7.93	83	100741	12.56	ug/l	99
38) Dibromomethane	7.66	174	40594	11.36	ug/l	93
39) 2-Chloroethylvinylether	8.80	63	45722	11.74	ug/l	97
40) cis-1,3-dichloropropene	8.81	75	140697	11.44	ug/l	93
42) Toluene	9.12	91	405793	11.41	ug/l	92
43) trans-1,3-Dichloropropene	9.75	75	106342	11.94	ug/l	93
44) 1,1,2-Trichloroethane	9.97	97	59897	12.52	ug/l	93
45) 4-Methyl-2-pentanone	9.73	43	58503	11.76	ug/l	88
46) 1,2-Dibromoethane	10.48	107	58239	12.67	ug/l	80
49) 2-Hexanone	10.93	43	43719	12.89	ug/l	98
50) 1,3-dichloropropane	10.33	76	111090	12.32	ug/l	100
51) Tetrachloroethene	9.63	166	98077	11.06	ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1201\D13257.D Vial: 2
Acq On : 1 Dec 2015 15:11 Operator: SG
Sample : S5L0109-CAL2 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:09 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Tue Dec 01 14:59:37 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

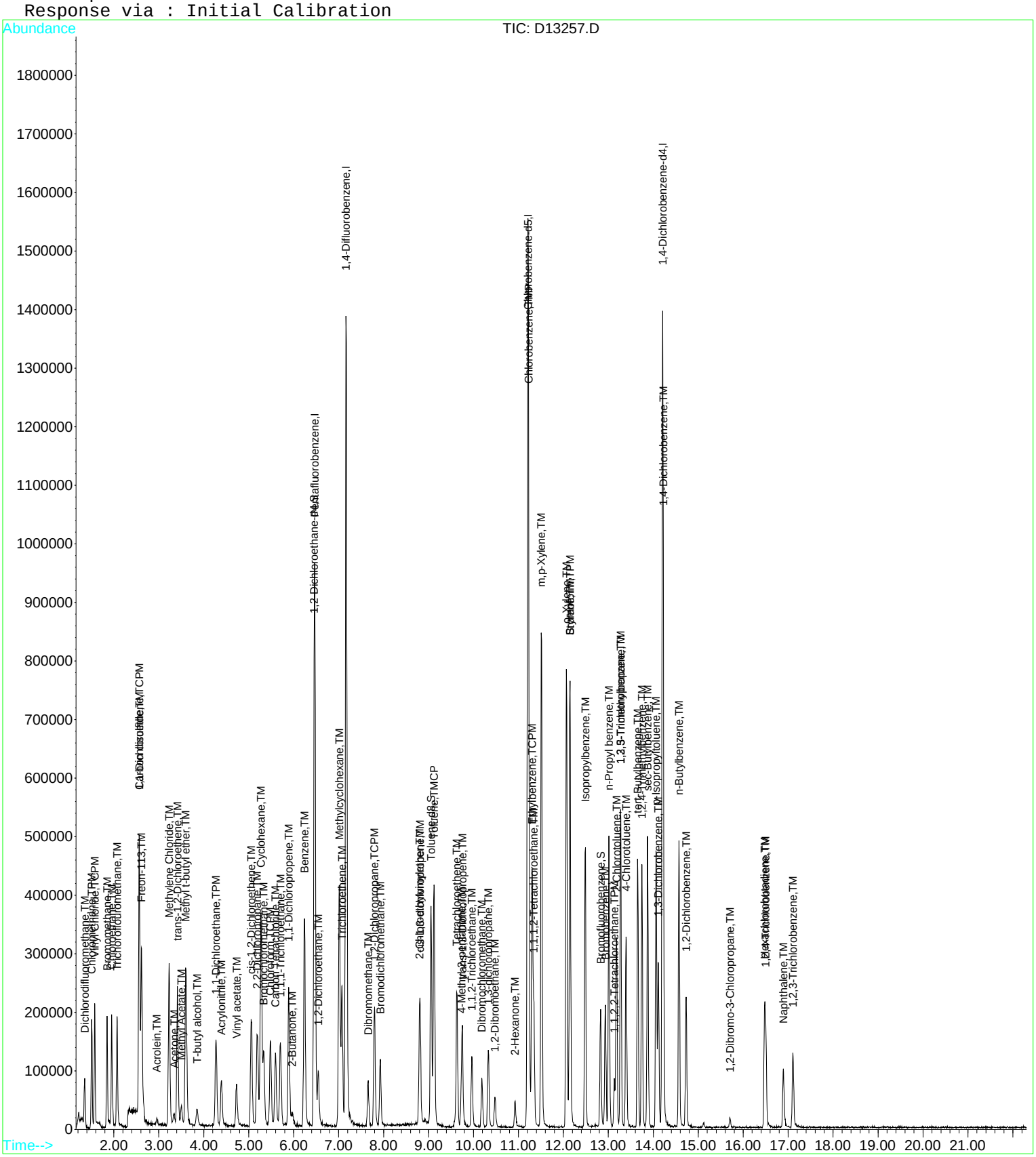
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
52)	Dibromochloromethane	10.19	129	62858	11.87 ug/l	93
53)	Ethylbenzene	11.30	91	416938	11.56 ug/l	98
54)	Chlorobenzene	11.23	112	243656	11.62 ug/l	96
55)	1,1,1,2-Tetrachloroethane	11.35	131	73520	12.16 ug/l	93
56)	m,p-Xylene	11.51	91	591475	22.67 ug/l	97
57)	o-Xylene	12.07	91	566688	22.14 ug/l	94
58)	Styrene	12.15	104	476068	22.20 ug/l	99
59)	Bromoform	12.15	173	29229	11.91 ug/l	92
61)	Isopropylbenzene	12.49	105	419028	12.09 ug/l	96
62)	1,1,2,2-Tetrachloroethane	13.13	83	60952	13.45 ug/l	90
63)	1,2,3-Trichloropropane	13.27	75	44242	13.01 ug/l	94
64)	n-Propyl benzene	13.01	91	494476	11.91 ug/l	97
65)	Bromobenzene	12.93	77	128432	11.87 ug/l	98
66)	1,3,5-Trimethylbenzene	13.28	105	308524	12.33 ug/l	97
67)	2-Chlorotoluene	13.18	91	252134	12.07 ug/l	100
68)	4-Chlorotoluene	13.39	91	242452	11.62 ug/l	95
69)	tert-Butylbenzene	13.65	119	287902	11.72 ug/l	97
70)	1,2,4-Trimethylbenzene	13.75	105	307090	12.43 ug/l	98
71)	sec-Butylbenzene	13.87	105	452100	12.09 ug/l	98
72)	p-Isopropyltoluene	14.07	119	371655	11.87 ug/l	96
73)	1,3-Dichlorobenzene	14.11	146	161801	11.64 ug/l	97
74)	1,4-Dichlorobenzene	14.23	146	151801	11.25 ug/l	92
75)	n-Butylbenzene	14.57	91	350418	12.03 ug/l	89
76)	1,2-Dichlorobenzene	14.73	146	131361	11.61 ug/l	96
77)	1,2-Dibromo-3-Chloropropan	15.71	157	6450	11.96 ug/l	87
78)	1,2,4-Trichlorobenzene	16.50	180	73658	11.39 ug/l	95
79)	Hexachlorobutadiene	16.47	225	43153	11.89 ug/l	94
80)	Naphthalene	16.89	128	131253	11.69 ug/l	93
81)	1,2,3-Trichlorobenzene	17.10	180	60530	12.18 ug/l	90
82)	Methyl t-butyl ether	3.60	73	368332m	26.47 ug/l	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\D\DATA15\DEC15\D1201\D13257.D Vial: 2
Acq On : 1 Dec 2015 15:11 Operator: SG
Sample : S5L0109-CAL2 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:09 2015 Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1201\D13258.D Vial: 3
Acq On : 1 Dec 2015 15:47 Operator: SG
Sample : S5L0109-CAL3 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:06 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Tue Dec 01 14:59:37 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.46	168	721379	50.00 ug/l	-0.02
27) 1,4-Difluorobenzene	7.17	114	1264794	50.00 ug/l	-0.02
48) Chlorobenzene-d5	11.21	117	980805	50.00 ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.21	152	427639	50.00 ug/l	-0.01
System Monitoring Compounds					
28) 1,2-Dichloroethane-d4	6.45	65	99226	20.48 ug/l	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	40.96%#	
41) Toluene-d8	9.05	98	521286	21.14 ug/l	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	42.28%#	
47) Bromofluorobenzene	12.83	95	150514	20.58 ug/l	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	41.16%#	

Target Compounds					Qvalue
2) Acrolein	2.95	56	14655	86.06 ug/l	77
3) Acrylonitrile	4.39	53	137563	111.37 ug/l	96
4) Acetone	3.33	43	39324	32.52 ug/l	81
5) Dichlorodifluoromethane	1.34	85	145804	50.83 ug/l	96
6) Chloromethane	1.50	50	337221	29.57 ug/l	97
7) Vinyl Chloride	1.57	62	346870	26.56 ug/l	97
8) Bromomethane	1.84	94	208156	23.48 ug/l	98
9) Chloroethane	1.94	64	305307	23.25 ug/l	100
10) Trichoroflouromethane	2.06	101	260516	22.59 ug/l	99
11) Freon-113	2.61	101	233195	22.52 ug/l	97
12) 1,1-Dichloroethene	2.55	61	324597	21.30 ug/l	83
13) Carbon disulfide	2.56	76	497752	18.75 ug/l	91
14) Methyl Acetate	3.49	43	77120	21.81 ug/l	99
15) Methylene Chloride	3.23	49	314501	27.28 ug/l	87
16) trans-1,2-Dichloroethene	3.41	61	272826	21.98 ug/l	88
17) 1,1-Dichloroethane	4.27	63	352350	22.45 ug/l	99
18) Vinyl acetate	4.72	43	236772	22.14 ug/l	98
19) 2,2-Dichloropropane	5.19	77	220630	21.16 ug/l	94
20) 2-Butanone	5.96	43	46172	22.02 ug/l	84
21) cis-1,2-Dichloroethene	5.05	61	255224	22.74 ug/l	91
22) Chloroform	5.48	83	235590	21.83 ug/l	98
23) Bromochloromethane	5.33	130	85873	21.10 ug/l	97
24) Cyclohexane	5.26	56	421661	21.81 ug/l	90
25) 1,1,1-Trichloroethane	5.70	97	190091	22.77 ug/l	93
26) T-butyl alcohol	3.85	59	69346	222.30 ug/l	81
29) 1,1-Dichloropropene	5.88	110	84089	21.30 ug/l	97
30) Carbon Tetrachloride	5.59	117	160643	21.40 ug/l	99
31) 1,2-Dichloroethane	6.55	62	124118	22.44 ug/l	94
32) Benzene	6.23	78	669722	21.41 ug/l	96
33) Trichloroethene	7.08	95	149020	21.23 ug/l	94
34) Methylcyclohexane	7.02	83	325530	21.26 ug/l	88
35) 1,2-Dichloropropane	7.79	63	173269	21.45 ug/l	87
37) Bromodichloromethane	7.92	83	150339	22.98 ug/l	96
38) Dibromomethane	7.66	174	63507	21.78 ug/l	89
39) 2-Chloroethylvinylether	8.78	63	66495	20.93 ug/l	95
40) cis-1,3-dichloropropene	8.81	75	221124	22.04 ug/l	90
42) Toluene	9.12	91	641024	22.09 ug/l	94
43) trans-1,3-Dichloropropene	9.76	75	155711	21.43 ug/l	91
44) 1,1,2-Trichloroethane	9.97	97	87364	22.39 ug/l	94
45) 4-Methyl-2-pentanone	9.73	43	82848	20.41 ug/l	94
46) 1,2-Dibromoethane	10.47	107	83350	22.24 ug/l	91
49) 2-Hexanone	10.92	43	63485	21.83 ug/l	96
50) 1,3-dichloropropane	10.33	76	166397	21.51 ug/l	93
51) Tetrachloroethene	9.63	166	162129	21.32 ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1201\D13258.D Vial: 3
Acq On : 1 Dec 2015 15:47 Operator: SG
Sample : S5L0109-CAL3 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:06 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Tue Dec 01 14:59:37 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

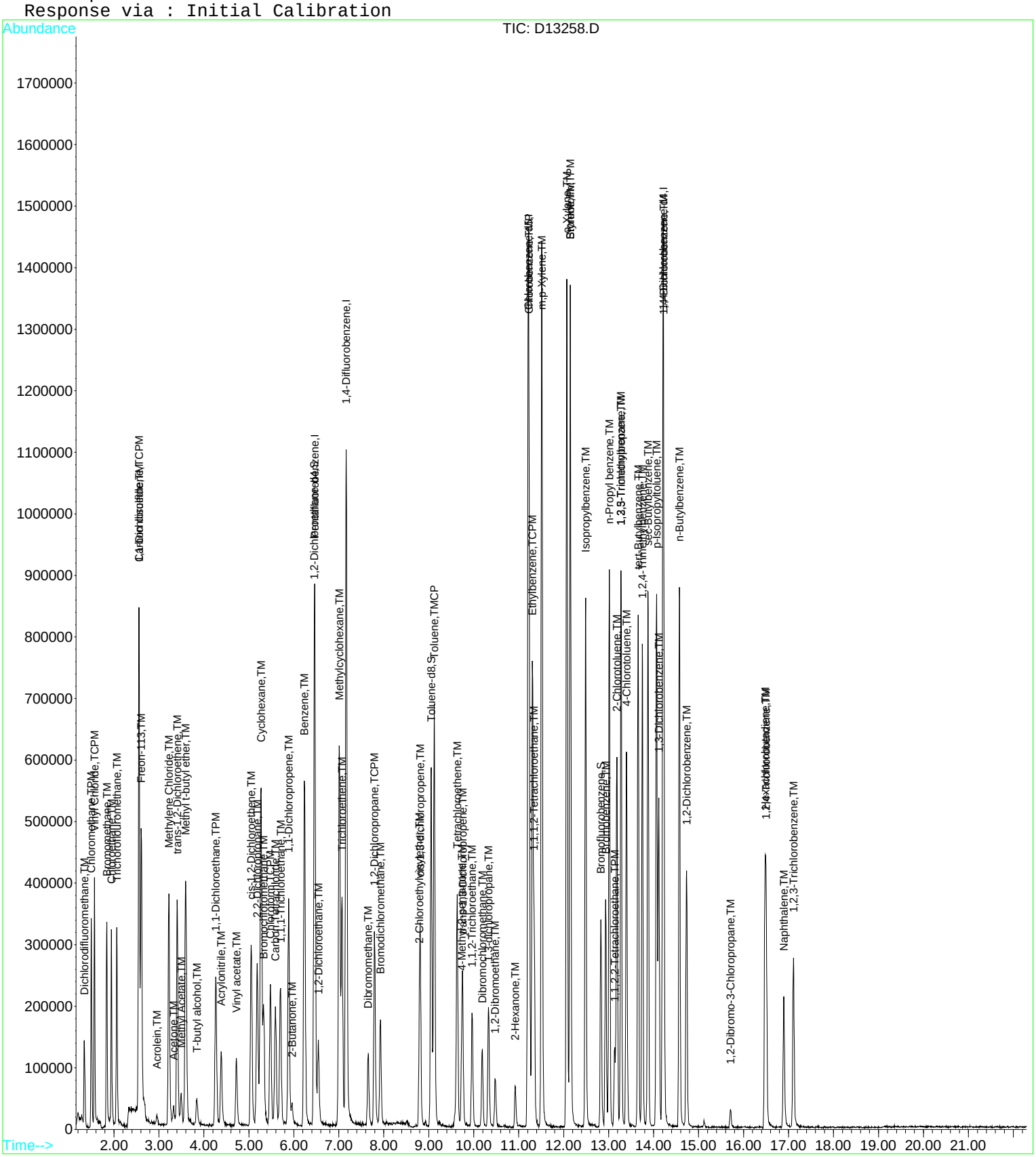
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
52)	Dibromochloromethane	10.19	129	96380	21.22 ug/l	84
53)	Ethylbenzene	11.30	91	701645	22.68 ug/l	100
54)	Chlorobenzene	11.23	112	396186	22.02 ug/l	98
55)	1,1,1,2-Tetrachloroethane	11.34	131	110876	21.38 ug/l	95
56)	m,p-Xylene	11.51	91	1024532	45.77 ug/l	99
57)	o-Xylene	12.07	91	993841	45.26 ug/l	98
58)	Styrene	12.15	104	833544	45.31 ug/l	99
59)	Bromoform	12.15	173	46840	22.24 ug/l	88
61)	Isopropylbenzene	12.49	105	728224	22.14 ug/l	98
62)	1,1,2,2-Tetrachloroethane	13.13	83	94304	21.94 ug/l	97
63)	1,2,3-Trichloropropane	13.27	75	69890	21.66 ug/l	94
64)	n-Propyl benzene	13.01	91	895187	22.73 ug/l	97
65)	Bromobenzene	12.93	77	226680	22.08 ug/l	99
66)	1,3,5-Trimethylbenzene	13.28	105	531969	22.42 ug/l	98
67)	2-Chlorotoluene	13.18	91	441578	22.28 ug/l	96
68)	4-Chlorotoluene	13.40	91	448928	22.69 ug/l	88
69)	tert-Butylbenzene	13.66	119	521006	22.36 ug/l	99
70)	1,2,4-Trimethylbenzene	13.75	105	527030	22.49 ug/l	99
71)	sec-Butylbenzene	13.87	105	823183	23.21 ug/l	100
72)	p-Isopropyltoluene	14.07	119	684274	23.03 ug/l	98
73)	1,3-Dichlorobenzene	14.11	146	291624	22.12 ug/l	100
74)	1,4-Dichlorobenzene	14.23	146	280786	21.93 ug/l	92
75)	n-Butylbenzene	14.58	91	643853	23.30 ug/l	96
76)	1,2-Dichlorobenzene	14.73	146	247437	23.05 ug/l	92
77)	1,2-Dibromo-3-Chloropropan	15.71	157	12984	21.99 ug/l	89
78)	1,2,4-Trichlorobenzene	16.50	180	148671	24.23 ug/l	91
79)	Hexachlorobutadiene	16.48	225	90661	26.33 ug/l	98
80)	Naphthalene	16.89	128	260486	24.45 ug/l	98
81)	1,2,3-Trichlorobenzene	17.11	180	122467	25.98 ug/l	94
82)	Methyl t-butyl ether	3.59	73	531097	40.23 ug/l	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\D\DATA15\DEC15\D1201\D13258.D Vial: 3
Acq On : 1 Dec 2015 15:47 Operator: SG
Sample : S5L0109-CAL3 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:06 2015 Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1201\D13259.D Vial: 4
Acq On : 1 Dec 2015 16:17 Operator: SG
Sample : S5L0109-CAL4 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:06 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Tue Dec 01 14:59:37 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	878719	50.00	ug/l	0.00
27) 1,4-Difluorobenzene	7.17	114	1550625	50.00	ug/l	-0.01
48) Chlorobenzene-d5	11.21	117	1202204	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.21	152	517816	50.00	ug/l	-0.01
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	6.46	65	294751	49.61	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.22%			
41) Toluene-d8	9.06	98	1523633	50.39	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.78%			
47) Bromofluorobenzene	12.83	95	446943	49.85	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.70%			

Target Compounds						Qvalue
2) Acrolein	2.97	56	44003	204.19	ug/l	93
3) Acrylonitrile	4.39	53	406122	269.93	ug/l	99
4) Acetone	3.34	43	104756	71.10	ug/l	86
5) Dichlorodifluoromethane	1.35	85	410086	97.68	ug/l	97
6) Chloromethane	1.51	50	935453	67.33	ug/l	97
7) Vinyl Chloride	1.57	62	978233	61.48	ug/l	96
8) Bromomethane	1.85	94	645025	59.74	ug/l	97
9) Chloroethane	1.95	64	892594	55.81	ug/l	97
10) Trichoroflouromethane	2.06	101	786846	56.02	ug/l	95
11) Freon-113	2.62	101	658745	52.22	ug/l	99
12) 1,1-Dichloroethene	2.56	61	911967	49.13	ug/l	89
13) Carbon disulfide	2.56	76	1452005	44.90	ug/l	96
14) Methyl Acetate	3.51	43	215030	49.92	ug/l	99
15) Methylene Chloride	3.23	49	783453	58.83	ug/l	91
16) trans-1,2-Dichloroethene	3.42	61	794045	52.53	ug/l	87
17) 1,1-Dichloroethane	4.28	63	1026192	53.67	ug/l	97
18) Vinyl acetate	4.74	43	712318	54.67	ug/l	94
19) 2,2-Dichloropropane	5.20	77	661030	52.06	ug/l	94
20) 2-Butanone	5.96	43	146521	57.36	ug/l	97
21) cis-1,2-Dichloroethene	5.06	61	751325	54.97	ug/l	87
22) Chloroform	5.49	83	712699	54.21	ug/l	98
23) Bromochloromethane	5.34	130	251619	50.76	ug/l	95
24) Cyclohexane	5.28	56	1212155	51.48	ug/l	89
25) 1,1,1-Trichloroethane	5.71	97	546891	53.79	ug/l	92
26) T-butyl alcohol	3.87	59	215297	566.59	ug/l	91
29) 1,1-Dichloropropene	5.90	110	258524	53.41	ug/l	97
30) Carbon Tetrachloride	5.60	117	473453	51.44	ug/l	91
31) 1,2-Dichloroethane	6.55	62	359478	53.01	ug/l	86
32) Benzene	6.25	78	1960260	51.10	ug/l	95
33) Trichloroethene	7.08	95	450529	52.35	ug/l	98
34) Methylcyclohexane	7.02	83	953113	50.78	ug/l	90
35) 1,2-Dichloropropane	7.80	63	527010	53.22	ug/l	91
37) Bromodichloromethane	7.93	83	449433	56.04	ug/l	98
38) Dibromomethane	7.66	174	187351	52.41	ug/l	98
39) 2-Chloroethylvinylether	8.80	63	206620	53.04	ug/l	97
40) cis-1,3-dichloropropene	8.81	75	663141	53.92	ug/l	98
42) Toluene	9.13	91	1873729	52.68	ug/l	95
43) trans-1,3-Dichloropropene	9.76	75	483222	54.25	ug/l	96
44) 1,1,2-Trichloroethane	9.96	97	259283	54.19	ug/l	96
45) 4-Methyl-2-pentanone	9.73	43	261618	52.57	ug/l	98
46) 1,2-Dibromoethane	10.48	107	260913	56.78	ug/l	95
49) 2-Hexanone	10.93	43	200269	56.17	ug/l	91
50) 1,3-dichloropropane	10.33	76	505172	53.27	ug/l	99
51) Tetrachloroethene	9.64	166	475123	50.97	ug/l	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1201\D13259.D Vial: 4
Acq On : 1 Dec 2015 16:17 Operator: SG
Sample : S5L0109-CAL4 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:06 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Tue Dec 01 14:59:37 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

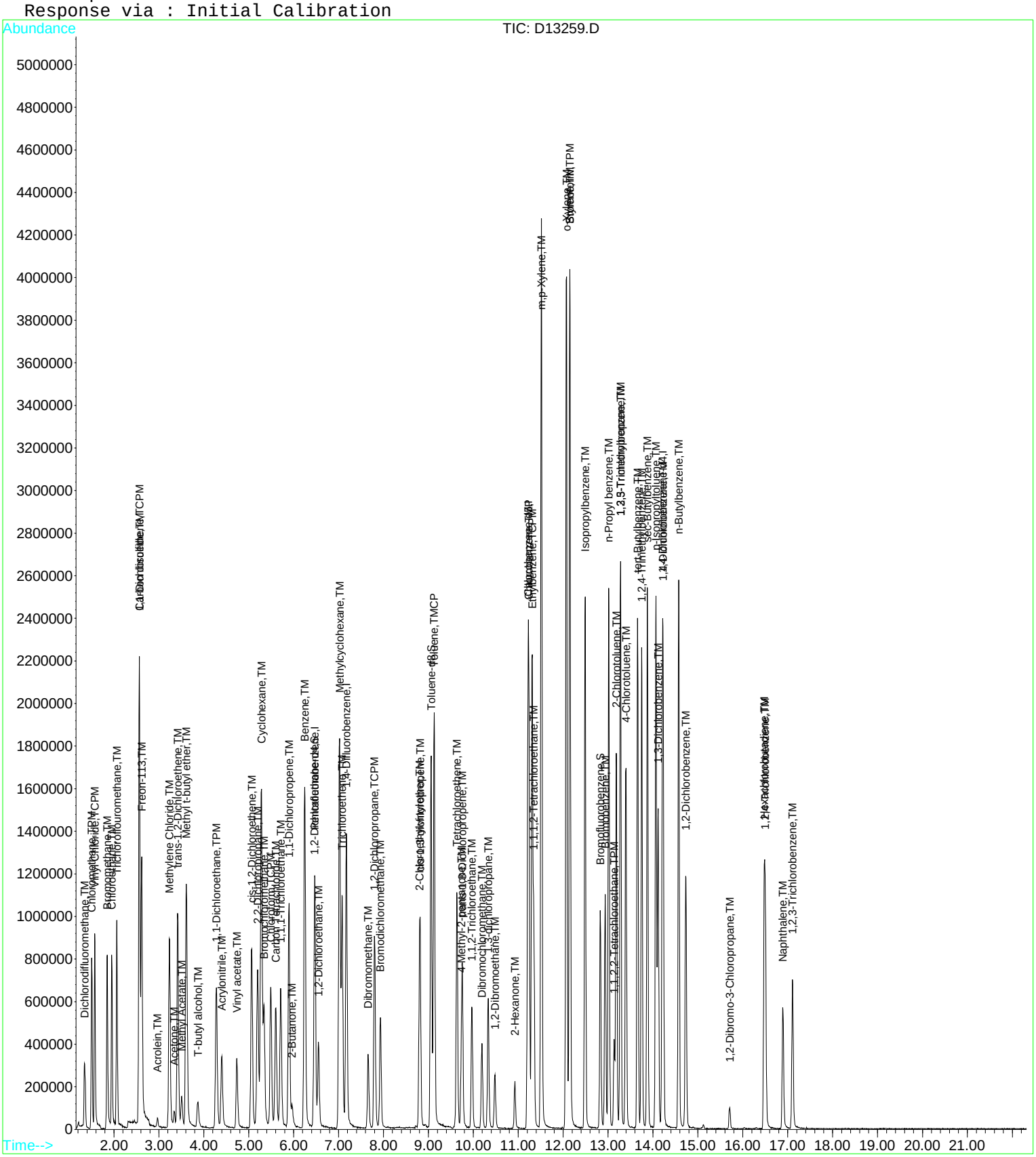
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52)	Dibromochloromethane	10.19	129	300274	53.93	ug/l	88
53)	Ethylbenzene	11.31	91	2046833	53.98	ug/l	100
54)	Chlorobenzene	11.24	112	1220841	55.36	ug/l	99
55)	1,1,1,2-Tetrachloroethane	11.35	131	344472	54.20	ug/l	96
56)	m,p-Xylene	11.52	91	2943096	107.28	ug/l	99
57)	o-Xylene	12.08	91	2863156	106.38	ug/l	99
58)	Styrene	12.15	104	2520047	111.76	ug/l	99
59)	Bromoform	12.15	173	143028	55.41	ug/l	81
61)	Isopropylbenzene	12.49	105	2136651	53.66	ug/l	99
62)	1,1,2,2-Tetrachloroethane	13.13	83	283421	54.46	ug/l	99
63)	1,2,3-Trichloropropane	13.27	75	209280	53.57	ug/l	98
64)	n-Propyl benzene	13.01	91	2546625	53.41	ug/l	95
65)	Bromobenzene	12.94	77	649131	52.22	ug/l	95
66)	1,3,5-Trimethylbenzene	13.28	105	1575365	54.82	ug/l	98
67)	2-Chlorotoluene	13.18	91	1261089	52.56	ug/l	92
68)	4-Chlorotoluene	13.40	91	1292299	53.94	ug/l	88
69)	tert-Butylbenzene	13.66	119	1490437	52.82	ug/l	97
70)	1,2,4-Trimethylbenzene	13.75	105	1531181	53.96	ug/l	98
71)	sec-Butylbenzene	13.87	105	2351873	54.76	ug/l	98
72)	p-Isopropyltoluene	14.07	119	1943801	54.04	ug/l	99
73)	1,3-Dichlorobenzene	14.11	146	847617	53.09	ug/l	100
74)	1,4-Dichlorobenzene	14.23	146	821034	52.97	ug/l	95
75)	n-Butylbenzene	14.57	91	1812174	54.17	ug/l	98
76)	1,2-Dichlorobenzene	14.73	146	697522	53.67	ug/l	98
77)	1,2-Dibromo-3-Chloropropan	15.71	157	41146	52.64	ug/l	97
78)	1,2,4-Trichlorobenzene	16.50	180	410371	55.23	ug/l	96
79)	Hexachlorobutadiene	16.47	225	243898	58.50	ug/l	99
80)	Naphthalene	16.89	128	708506	54.91	ug/l	99
81)	1,2,3-Trichlorobenzene	17.10	180	329206	57.68	ug/l	100
82)	Methyl t-butyl ether	3.61	73	1578350	98.74	ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\D\DATA15\DEC15\D1201\D13259.D Vial: 4
Acq On : 1 Dec 2015 16:17 Operator: SG
Sample : S5L0109-CAL4 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:06 2015 Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1201\D13260.D Vial: 5
Acq On : 1 Dec 2015 17:09 Operator: SG
Sample : S5L0109-CAL5 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:06 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Tue Dec 01 14:59:37 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.46	168	791437	50.00	ug/l	-0.02
27) 1,4-Difluorobenzene	7.16	114	1387995	50.00	ug/l	-0.02
48) Chlorobenzene-d5	11.21	117	1066793	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.22	152	458926	50.00	ug/l	0.00
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	6.44	65	543782	102.26	ug/l	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 204.52%#			
41) Toluene-d8	9.05	98	2786461	102.96	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 205.92%#			
47) Bromofluorobenzene	12.83	95	822569	102.49	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 204.98%#			

Target Compounds						Qvalue
2) Acrolein	2.94	56	86274	438.12	ug/l	93
3) Acrylonitrile	4.38	53	775211	572.07	ug/l	98
4) Acetone	3.31	43	196433	148.03	ug/l	95
5) Dichlorodifluoromethane	1.34	85	902077	176.10	ug/l	100
6) Chloromethane	1.49	50	1827765	146.06	ug/l	100
7) Vinyl Chloride	1.56	62	1895358	132.27	ug/l	99
8) Bromomethane	1.83	94	1218264	125.27	ug/l	100
9) Chloroethane	1.93	64	1631870	113.29	ug/l	99
10) Trichoroflouromethane	2.05	101	1431593	113.17	ug/l	92
11) Freon-113	2.60	101	1196065	105.27	ug/l	97
12) 1,1-Dichloroethene	2.54	61	1651462	98.77	ug/l	92
13) Carbon disulfide	2.55	76	2623642	90.09	ug/l	99
14) Methyl Acetate	3.48	43	390520	100.66	ug/l	99
15) Methylene Chloride	3.21	49	1390723	118.78	ug/l	91
16) trans-1,2-Dichloroethene	3.40	61	1456002	106.94	ug/l	91
17) 1,1-Dichloroethane	4.26	63	1861602	108.10	ug/l	100
18) Vinyl acetate	4.72	43	1332543	113.55	ug/l	100
19) 2,2-Dichloropropane	5.18	77	1216802	106.39	ug/l	97
20) 2-Butanone	5.94	43	275265	119.64	ug/l	89
21) cis-1,2-Dichloroethene	5.05	61	1369471	111.24	ug/l	89
22) Chloroform	5.47	83	1285604	108.57	ug/l	98
23) Bromochloromethane	5.32	130	471487	105.61	ug/l	98
24) Cyclohexane	5.26	56	2193172	103.41	ug/l	90
25) 1,1,1-Trichloroethane	5.70	97	995474	108.71	ug/l	89
26) T-butyl alcohol	3.84	59	402285	1175.43	ug/l	96
29) 1,1-Dichloropropene	5.88	110	471389	108.79	ug/l	99
30) Carbon Tetrachloride	5.59	117	856614	103.98	ug/l	95
31) 1,2-Dichloroethane	6.54	62	671819	110.68	ug/l	90
32) Benzene	6.23	78	3591149	104.59	ug/l	95
33) Trichloroethene	7.07	95	828897	107.59	ug/l	94
34) Methylcyclohexane	7.01	83	1738214	103.46	ug/l	93
35) 1,2-Dichloropropane	7.79	63	969662	109.39	ug/l	95
37) Bromodichloromethane	7.92	83	840629	117.11	ug/l	99
38) Dibromomethane	7.65	174	334145	104.43	ug/l	95
39) 2-Chloroethylvinylether	8.79	63	391120	112.16	ug/l	96
40) cis-1,3-dichloropropene	8.81	75	1224283	111.21	ug/l	94
42) Toluene	9.12	91	3369740	105.83	ug/l	98
43) trans-1,3-Dichloropropene	9.75	75	898114	112.65	ug/l	99
44) 1,1,2-Trichloroethane	9.96	97	472189	110.25	ug/l	96
45) 4-Methyl-2-pentanone	9.72	43	471176	105.78	ug/l	98
46) 1,2-Dibromoethane	10.48	107	469918	114.25	ug/l	96
49) 2-Hexanone	10.92	43	375622	118.73	ug/l	90
50) 1,3-dichloropropane	10.33	76	903992	107.43	ug/l	99
51) Tetrachloroethene	9.63	166	872277	105.45	ug/l	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1201\D13260.D Vial: 5
Acq On : 1 Dec 2015 17:09 Operator: SG
Sample : S5L0109-CAL5 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:06 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Tue Dec 01 14:59:37 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

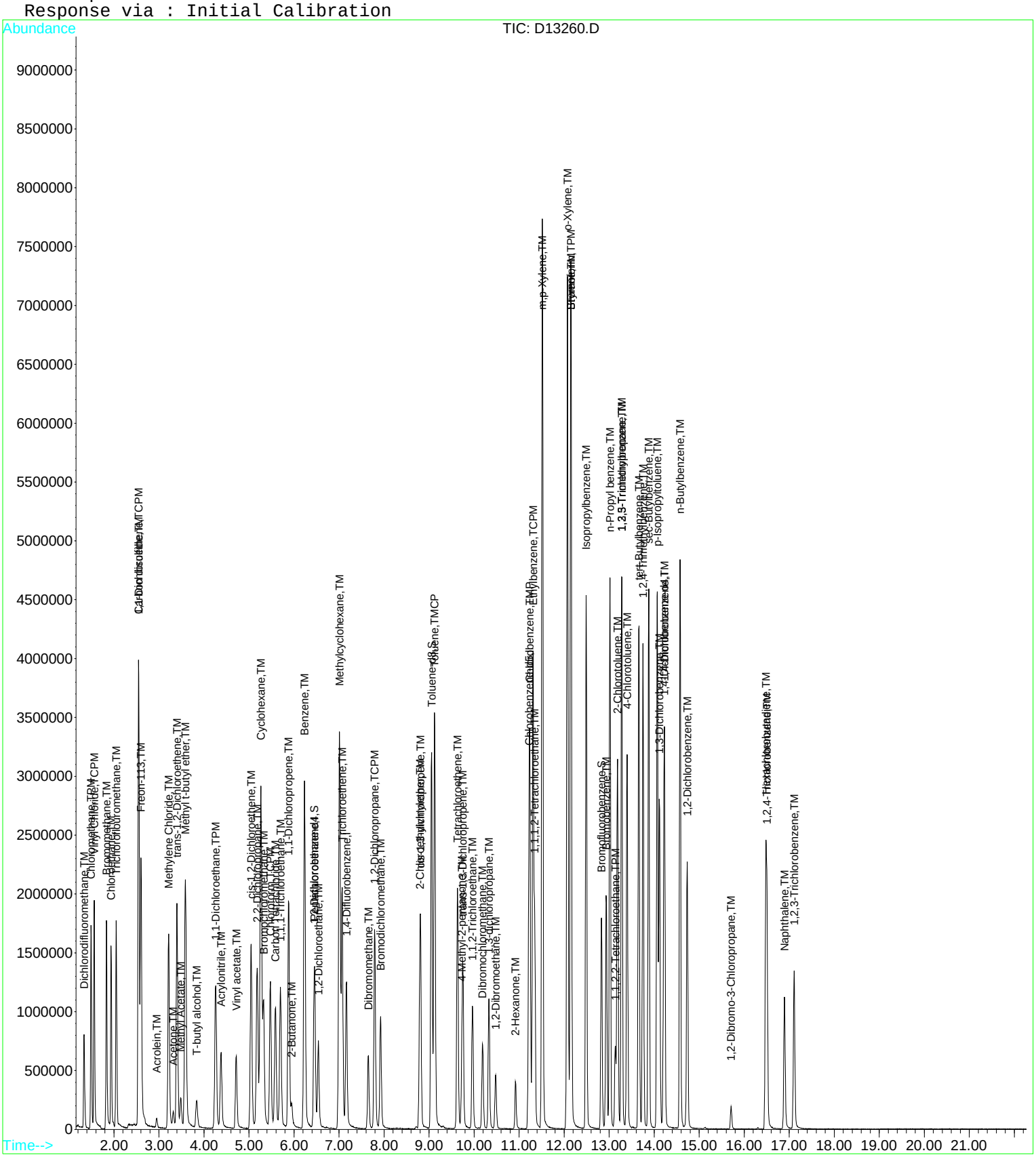
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
52)	Dibromochloromethane	10.18	129	563670	114.09 ug/l	94
53)	Ethylbenzene	11.31	91	3682672	109.44 ug/l	98
54)	Chlorobenzene	11.24	112	2173237	111.05 ug/l	99
55)	1,1,1,2-Tetrachloroethane	11.35	131	633067	112.26 ug/l	92
56)	m,p-Xylene	11.51	91	5292596	217.41 ug/l	96
57)	o-Xylene	12.07	91	5112833	214.08 ug/l	98
58)	Styrene	12.15	104	4530815	226.43 ug/l	99
59)	Bromoform	12.15	173	273141	119.25 ug/l	78
61)	Isopropylbenzene	12.49	105	3798948	107.64 ug/l	97
62)	1,1,2,2-Tetrachloroethane	13.13	83	500261	108.46 ug/l	97
63)	1,2,3-Trichloropropane	13.28	75	379393	109.58 ug/l	100
64)	n-Propyl benzene	13.02	91	4557086	107.84 ug/l	94
65)	Bromobenzene	12.93	77	1206277	109.49 ug/l	99
66)	1,3,5-Trimethylbenzene	13.28	105	2804068	110.11 ug/l	97
67)	2-Chlorotoluene	13.19	91	2283732	107.39 ug/l	89
68)	4-Chlorotoluene	13.40	91	2317270	109.12 ug/l	92
69)	tert-Butylbenzene	13.66	119	2728321	109.10 ug/l	96
70)	1,2,4-Trimethylbenzene	13.75	105	2745224	109.17 ug/l	96
71)	sec-Butylbenzene	13.88	105	4270272	112.19 ug/l	98
72)	p-Isopropyltoluene	14.07	119	3537504	110.96 ug/l	99
73)	1,3-Dichlorobenzene	14.11	146	1532922	108.33 ug/l	100
74)	1,4-Dichlorobenzene	14.23	146	1499981	109.18 ug/l	97
75)	n-Butylbenzene	14.58	91	3293090	111.06 ug/l	98
76)	1,2-Dichlorobenzene	14.73	146	1280416	111.16 ug/l	99
77)	1,2-Dibromo-3-Chloropropan	15.71	157	81722	114.19 ug/l	87
78)	1,2,4-Trichlorobenzene	16.51	180	788836	119.78 ug/l	98
79)	Hexachlorobutadiene	16.48	225	464647	125.76 ug/l	98
80)	Naphthalene	16.89	128	1373168	120.08 ug/l	98
81)	1,2,3-Trichlorobenzene	17.11	180	628920	124.34 ug/l	98
82)	Methyl t-butyl ether	3.59	73	2845631	200.87 ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\D\DATA15\DEC15\D1201\D13260.D Vial: 5
Acq On : 1 Dec 2015 17:09 Operator: SG
Sample : S5L0109-CAL5 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:06 2015 Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1201\D13261.D Vial: 6
Acq On : 1 Dec 2015 17:39 Operator: SG
Sample : S5L0109-CAL6 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:06 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Tue Dec 01 14:59:37 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	946130	50.00	ug/l	0.00
27) 1,4-Difluorobenzene	7.18	114	1681702	50.00	ug/l	0.00
48) Chlorobenzene-d5	11.22	117	1362683	50.00	ug/l	0.00
60) 1,4-Dichlorobenzene-d4	14.22	152	573146	50.00	ug/l	0.00
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	6.46	65	1210589	187.89	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 375.78%#			
41) Toluene-d8	9.07	98	6180378	188.48	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 376.96%#			
47) Bromofluorobenzene	12.83	95	1869077	192.21	ug/l	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 384.42%#			

Target Compounds						Qvalue
2) Acrolein	2.97	56	183530	775.39	ug/l	88
3) Acrylonitrile	4.40	53	1657305	1023.04	ug/l	96
4) Acetone	3.34	43	425677	268.32	ug/l	94
5) Dichlorodifluoromethane	1.35	85	2121637	264.37	ug/l	100
6) Chloromethane	1.51	50	4352192	290.93	ug/l	95
7) Vinyl Chloride	1.57	62	4579440	267.32	ug/l	94
8) Bromomethane	1.85	94	2792686	240.22	ug/l	99
9) Chloroethane	1.96	64	3588543	208.40	ug/l	99
10) Trichoroflouromethane	2.07	101	3189176	210.89	ug/l	93
11) Freon-113	2.62	101	2606256	191.88	ug/l	98
12) 1,1-Dichloroethene	2.56	61	3542119	177.21	ug/l	94
13) Carbon disulfide	2.57	76	5619305	161.40	ug/l	97
14) Methyl Acetate	3.51	43	849360	183.14	ug/l	96
15) Methylene Chloride	3.24	49	2918416	210.70	ug/l	96
16) trans-1,2-Dichloroethene	3.42	61	3239721	199.05	ug/l	92
17) 1,1-Dichloroethane	4.28	63	4087907	198.57	ug/l	99
18) Vinyl acetate	4.74	43	2951233	210.37	ug/l	99
19) 2,2-Dichloropropane	5.20	77	2720314	198.97	ug/l	96
20) 2-Butanone	5.96	43	600580	218.35	ug/l	89
21) cis-1,2-Dichloroethene	5.07	61	2987105	202.96	ug/l	91
22) Chloroform	5.49	83	2907608	205.40	ug/l	98
23) Bromochloromethane	5.35	130	1053681	197.42	ug/l	96
24) Cyclohexane	5.29	56	4762747	187.85	ug/l	93
25) 1,1,1-Trichloroethane	5.72	97	2234935	204.15	ug/l	89
26) T-butyl alcohol	3.86	59	883207	2158.70	ug/l	94
29) 1,1-Dichloropropene	5.90	110	1052886	200.56	ug/l	99
30) Carbon Tetrachloride	5.61	117	1926991	193.05	ug/l	95
31) 1,2-Dichloroethane	6.55	62	1482174	201.54	ug/l	91
32) Benzene	6.25	78	7852846	188.77	ug/l	92
33) Trichloroethene	7.08	95	1873491	200.71	ug/l	94
34) Methylcyclohexane	7.03	83	3846930	188.98	ug/l	93
35) 1,2-Dichloropropane	7.80	63	2186243	203.56	ug/l	94
37) Bromodichloromethane	7.94	83	1952288	224.47	ug/l	98
38) Dibromomethane	7.66	174	773598	199.55	ug/l	97
39) 2-Chloroethylvinylether	8.80	63	894802	211.78	ug/l	99
40) cis-1,3-dichloropropene	8.82	75	2773021	207.89	ug/l	98
42) Toluene	9.13	91	7495678	194.30	ug/l	98
43) trans-1,3-Dichloropropene	9.76	75	2063366	213.61	ug/l	99
44) 1,1,2-Trichloroethane	9.97	97	1091477	210.34	ug/l	98
45) 4-Methyl-2-pentanone	9.73	43	1082726	200.63	ug/l	96
46) 1,2-Dibromoethane	10.48	107	1089621	218.65	ug/l	97
49) 2-Hexanone	10.93	43	869977	215.27	ug/l	93
50) 1,3-dichloropropane	10.34	76	2072550	192.83	ug/l	99
51) Tetrachloroethene	9.64	166	2003458	189.61	ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\D\DATA15\DEC15\D1201\D13261.D Vial: 6
Acq On : 1 Dec 2015 17:39 Operator: SG
Sample : S5L0109-CAL6 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:06 2015 Quant Results File: VD8S1201.RES

Quant Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Tue Dec 01 14:59:37 2015
Response via : Initial Calibration
DataAcq Meth : VD8S1201

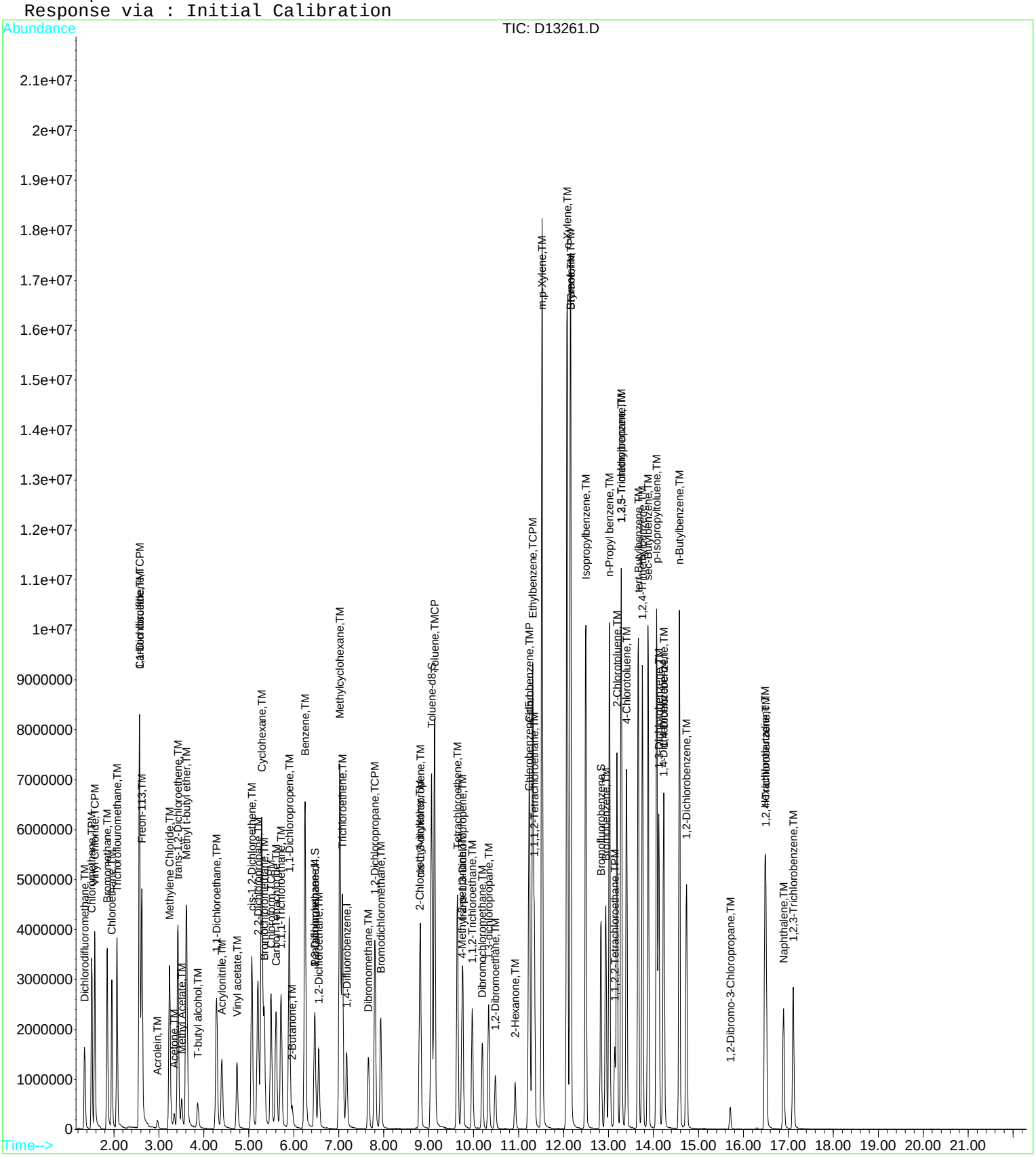
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52)	Dibromochloromethane	10.19	129	1303708	206.58	ug/l	96
53)	Ethylbenzene	11.32	91	8190005	190.54	ug/l	92
54)	Chlorobenzene	11.24	112	4930479	197.23	ug/l	99
55)	1,1,1,2-Tetrachloroethane	11.35	131	1513162	210.06	ug/l	97
56)	m,p-Xylene	11.52	91	11622541	373.76	ug/l	91
57)	o-Xylene	12.08	91	11270190	369.44	ug/l	90
58)	Styrene	12.16	104	10357217	405.22	ug/l	95
59)	Bromoform	12.16	173	675239	230.80	ug/l	79
61)	Isopropylbenzene	12.50	105	8355174	189.56	ug/l	92
62)	1,1,2,2-Tetrachloroethane	13.14	83	1194297	207.33	ug/l	99
63)	1,2,3-Trichloropropane	13.28	75	876947	202.81	ug/l	100
64)	n-Propyl benzene	13.02	91	9721370	184.20	ug/l	89
65)	Bromobenzene	12.93	77	2708753	196.87	ug/l	98
66)	1,3,5-Trimethylbenzene	13.28	105	6196472	194.82	ug/l	95
67)	2-Chlorotoluene	13.19	91	5103187	192.16	ug/l	91
68)	4-Chlorotoluene	13.40	91	5169207	194.91	ug/l	90
69)	tert-Butylbenzene	13.66	119	5938684	190.15	ug/l	97
70)	1,2,4-Trimethylbenzene	13.75	105	6026537	191.89	ug/l	94
71)	sec-Butylbenzene	13.88	105	8968206	188.66	ug/l	94
72)	p-Isopropyltoluene	14.07	119	7516782	188.78	ug/l	95
73)	1,3-Dichlorobenzene	14.12	146	3452899	195.39	ug/l	100
74)	1,4-Dichlorobenzene	14.23	146	3368244	196.32	ug/l	93
75)	n-Butylbenzene	14.58	91	6890856	186.09	ug/l	98
76)	1,2-Dichlorobenzene	14.73	146	2828607	196.63	ug/l	99
77)	1,2-Dibromo-3-Chloropropan	15.71	157	180900	200.06	ug/l	93
78)	1,2,4-Trichlorobenzene	16.50	180	1734417	210.88	ug/l	97
79)	Hexachlorobutadiene	16.48	225	1017243	220.45	ug/l	98
80)	Naphthalene	16.89	128	2914340	204.06	ug/l	98
81)	1,2,3-Trichlorobenzene	17.11	180	1332819	210.99	ug/l	99
82)	Methyl t-butyl ether	3.61	73	6126691	346.29	ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\D\DATA15\DEC15\D1201\D13261.D Vial: 6
Acq On : 1 Dec 2015 17:39 Operator: SG
Sample : S5L0109-CAL6 Inst : GC/MS D
Misc : SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 18:06 2015 Quant Results File: VD8S1201.RES

Method : D:\D\METHODS\VD8S1201.M (RTE Integrator)
Title : VOA 8260 SOIL TCL METHOD
Last Update : Mon Dec 07 10:21:05 2015
Response via : Initial Calibration



Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

METALS SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Matrix:	Soil
Percent Solids:	71.30	File ID:	122815A-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	7830	28.1	28.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7439-97-6	Mercury	0.108	0.105	0.105	1		12/24/15 07:47	EPA 7471A	12/24/15 11:01 PRT	EPA 7471
7440-36-0	Antimony	ND	5.61	5.61	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-38-2	Arsenic	2.77	1.40	1.40	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-39-3	Barium	60.3	28.1	28.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.701	0.701	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.701	0.701	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-70-2	Calcium	12900	35.1	35.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-47-3	Chromium	16.1	2.81	2.81	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-48-4	Cobalt	ND	7.01	7.01	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-50-8	Copper	24.4	4.21	4.21	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7439-89-6	Iron	13800	35.1	35.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7439-92-1	Lead	48.5	1.40	1.40	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7439-95-4	Magnesium	8720	70.1	70.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7439-96-5	Manganese	319	2.81	2.81	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-02-0	Nickel	10.5	5.61	5.61	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-09-7	Potassium	1640	70.1	70.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7782-49-2	Selenium	ND	5.61	5.61	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-22-4	Silver	ND	0.701	0.701	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-23-5	Sodium	209	70.1	70.1	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-28-0	Thallium	ND	2.10	4.21	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-62-2	Vanadium	22.0	7.01	7.01	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010
7440-66-6	Zinc	64.4	8.42	8.42	1		12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS QC SUMMARY

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 7471
Batch:	B5L2401	Preparation:	EPA 7471A
% Solids:	92.10	Laboratory ID:	B5L2401-MS1
		Client Sample ID:	1502315-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Mercury	2.17	ND	2.10	96.8	75 - 125

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Mercury	2.17	2.09	96.1	0.765	20	75 - 125

* Values outside of QC limits

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5L2404	Preparation:	EPA 3050B
% Solids:	93.00	Laboratory ID:	B5L2404-MS1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)		MS % REC.		QC LIMITS REC.
Aluminum	269	1510	3660	*	801	*	75 - 125
Antimony	269	ND	272		101		75 - 125
Arsenic	269	1.23	279		103		75 - 125
Barium	269	ND	302		112		75 - 125
Beryllium	269	ND	285		106		75 - 125
Cadmium	269	ND	283		105		75 - 125
Calcium	269	2350	1000	*	-503	*	75 - 125
Chromium	269	5.58	281		102		75 - 125
Cobalt	269	ND	274		102		75 - 125
Copper	269	6.66	285		104		75 - 125
Iron	269	3080	3750	*	249	*	75 - 125
Lead	269	14.2	293		104		75 - 125
Magnesium	269	255	484		85.0		75 - 125
Manganese	269	13.4	296		105		75 - 125
Nickel	269	ND	276		103		75 - 125
Potassium	269	139	605	*	173	*	75 - 125
Selenium	269	ND	266		98.8		75 - 125
Silver	26.9	ND	23.8		88.5		75 - 125
Sodium	269	ND	331		123		75 - 125
Thallium	269	ND	270		100		75 - 125
Vanadium	269	ND	294		109		75 - 125
Zinc	269	22.8	296		102		75 - 125

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 6010
Batch:	B5L2404	Preparation:	EPA 3050B
% Solids:	93.00	Laboratory ID:	B5L2404-MSD1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Aluminum	269	3870	878	*	5.51	20	75 - 125
Antimony	269	268	99.7		1.59	20	75 - 125
Arsenic	269	275	102		1.34	20	75 - 125
Barium	269	299	111		0.966	20	75 - 125
Beryllium	269	278	104		2.29	20	75 - 125
Cadmium	269	279	104		1.38	20	75 - 125
Calcium	269	984	-509	*	1.68	20	75 - 125
Chromium	269	280	102		0.268	20	75 - 125
Cobalt	269	270	100		1.54	20	75 - 125
Copper	269	281	102		1.50	20	75 - 125
Iron	269	3790	266	*	1.24	20	75 - 125
Lead	269	286	101		2.23	20	75 - 125
Magnesium	269	473	81.1		2.21	20	75 - 125
Manganese	269	291	103		1.72	20	75 - 125
Nickel	269	272	101		1.26	20	75 - 125
Potassium	269	604	173	*	0.178	20	75 - 125
Selenium	269	262	97.3		1.51	20	75 - 125
Silver	26.9	23.4	87.0		1.71	20	75 - 125
Sodium	269	326	121		1.44	20	75 - 125
Thallium	269	265	98.7		1.69	20	75 - 125
Vanadium	269	285	106		2.93	20	75 - 125
Zinc	269	290	99.4		2.13	20	75 - 125

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 7471

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix:	Solid	Prep Method:	EPA 7471A
Prep Batch:	B5L2401	Lab Sample ID:	B5L2401-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Mercury	2.00	1.97	98.4	85 - 115

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Matrix:	Solid	Prep Method:	EPA 3050B
Prep Batch:	B5L2404	Lab Sample ID:	B5L2404-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Aluminum	250	260	104	85 - 115
Antimony	250	258	103	85 - 115
Arsenic	250	256	102	85 - 115
Barium	250	263	105	85 - 115
Beryllium	250	261	105	85 - 115
Cadmium	250	261	104	85 - 115
Calcium	250	257	103	85 - 115
Chromium	250	256	102	85 - 115
Cobalt	250	258	103	85 - 115
Copper	250	261	104	85 - 115
Iron	250	261	104	85 - 115
Lead	250	261	104	85 - 115
Magnesium	250	258	103	85 - 115
Manganese	250	263	105	85 - 115
Nickel	250	258	103	85 - 115
Potassium	250	255	102	85 - 115
Selenium	250	251	100	85 - 115
Silver	25.0	22.8	91.2	85 - 115
Sodium	250	261	104	85 - 115
Thallium	250	263	105	85 - 115
Vanadium	250	262	105	85 - 115
Zinc	250	257	103	85 - 115

* Values outside of QC limits

POST DIGEST SPIKE SAMPLE RECOVERY

1502322-02

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502323
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Matrix:	Solid	Laboratory ID:	B5L2404-PS1
Batch:	B5L2404	Analysis:	EPA 6010
Preparation:	EPA 3050B	Initial/Final:	0.2 g / 10 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Aluminum	31200	28100	5000	61.8	80 - 120
Antimony	4940	ND	5000	98.8	80 - 120
Arsenic	4990	22.9	5000	99.3	80 - 120
Barium	5210	ND	5000	101	80 - 120
Beryllium	4920	ND	5000	98.4	80 - 120
Cadmium	4960	ND	5000	99.2	80 - 120
Calcium	45800	43800	5000	40.0	80 - 120
Chromium	4970	104	5000	97.3	80 - 120
Cobalt	4830	ND	5000	96.4	80 - 120
Copper	5070	124	5000	99.0	80 - 120
Iron	58600	57200	5000	27.4	80 - 120
Lead	5120	264	5000	97.0	80 - 120
Magnesium	9260	4750	5000	90.3	80 - 120
Manganese	5220	249	5000	99.4	80 - 120
Nickel	4860	ND	5000	96.8	80 - 120
Potassium	7410	2590	5000	96.4	80 - 120
Selenium	4830	ND	5000	96.6	80 - 120
Silver	433	ND	500	86.4	80 - 120
Sodium	6010	ND	5000	101	80 - 120
Thallium	4880	ND	5000	97.7	80 - 120
Vanadium	5090	ND	5000	99.8	80 - 120
Zinc	5190	424	5000	95.3	80 - 120

SAMPLE EXTRACTION DATA

Prep Method: EPA 7471A-EPA 7471

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [g]	Final [mL]	Dilution	% Solids	Notes	Date
1502323-01 [EP-18]	B5L2401	0.10/25.00	0.100	25.0	1.00	71.30		12/24/2015

SAMPLE EXTRACTION DATA

Prep Method: EPA 3050B-EPA 6010

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [g]	Final [mL]	Dilution	% Solids	Notes	Date
1502323-01 [EP-18]	B5L2404	1.00/50.00	1.00	50.0	1.00	71.30		12/24/2015

Accredited Analytical Resources, LLC.

METALS CALIBRATION DATA

METHOD DETECTION AND REPORTING LIMITS

EPA 7471

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323

Matrix:	Solid	Instrument:	Cetac

Analyte	MDL	MRL	Units	Method
Mercury	0.0750	0.0750	mg/kg	EPA 7471

Accredited Analytical Resources, LLC.

METHOD DETECTION AND REPORTING LIMITS

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323

Matrix:	Solid	Instrument:	Thermo iTEVA

Analyte	MDL	MRL	Units	Method
Aluminum	20.0	20.0	mg/kg	EPA 6010
Antimony	4.00	4.00	mg/kg	EPA 6010
Arsenic	1.00	1.00	mg/kg	EPA 6010
Barium	20.0	20.0	mg/kg	EPA 6010
Beryllium	0.500	0.500	mg/kg	EPA 6010
Cadmium	0.500	0.500	mg/kg	EPA 6010
Calcium	25.0	25.0	mg/kg	EPA 6010
Chromium	2.00	2.00	mg/kg	EPA 6010
Cobalt	5.00	5.00	mg/kg	EPA 6010
Copper	3.00	3.00	mg/kg	EPA 6010
Iron	25.0	25.0	mg/kg	EPA 6010
Lead	1.00	1.00	mg/kg	EPA 6010
Magnesium	50.0	50.0	mg/kg	EPA 6010
Manganese	2.00	2.00	mg/kg	EPA 6010
Nickel	4.00	4.00	mg/kg	EPA 6010
Potassium	50.0	50.0	mg/kg	EPA 6010
Selenium	4.00	4.00	mg/kg	EPA 6010
Silver	0.500	0.500	mg/kg	EPA 6010
Sodium	50.0	50.0	mg/kg	EPA 6010
Thallium	1.50	3.00	mg/kg	EPA 6010
Vanadium	5.00	5.00	mg/kg	EPA 6010
Zinc	6.00	6.00	mg/kg	EPA 6010

ANALYSIS SEQUENCE SUMMARY

EPA 7471

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY

Sequence:	S5L2403	Instrument:	Cetac
Calibration:	UNASSIGNED		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	S5L2403-ICV1	HG151224A-008	12/24/15 10:40
Initial Cal Blank	S5L2403-ICB1	HG151224A-009	12/24/15 10:42
Instrument RL Check	S5L2403-CRL1	HG151224A-010	12/24/15 10:44
Blank	B5L2401-BLK1	HG151224A-011	12/24/15 10:46
LCS	B5L2401-BS1	HG151224A-012	12/24/15 10:48
Matrix Spike	B5L2401-MS1	HG151224A-014	12/24/15 10:53
Matrix Spike Dup	B5L2401-MSD1	HG151224A-015	12/24/15 10:55
EP-18	1502323-01	HG151224A-018	12/24/15 11:01
Instrument RL Check	S5L2403-CRL2	HG151224A-020	12/24/15 11:05
Calibration Check	S5L2403-CCV1	HG151224A-021	12/24/15 11:07
Calibration Blank	S5L2403-CCB1	HG151224A-022	12/24/15 11:10

Accredited Analytical Resources, LLC.

ANALYSIS SEQUENCE SUMMARY

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY

Sequence:	S5L2802	Instrument:	Thermo iTEVA
Calibration:	UNASSIGNED		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	S5L2802-ICV1	122815A-005	12/28/15 10:11
Initial Cal Blank	S5L2802-ICB1	122815A-006	12/28/15 10:16
Instrument RL Check	S5L2802-CRL1	122815A-007	12/28/15 10:22
Interference Check A	S5L2802-IFA1	122815A-008	12/28/15 10:27
Interference Check B	S5L2802-IFB1	122815A-009	12/28/15 10:32
Blank	B5L2404-BLK1	122815A-010	12/28/15 10:37
LCS	B5L2404-BS1	122815A-011	12/28/15 10:42
Serial Dilution	S5L2802-SRD1	122815A-013	12/28/15 10:52
Matrix Spike	B5L2404-MS1	122815A-014	12/28/15 10:57
Matrix Spike Dup	B5L2404-MSD1	122815A-015	12/28/15 11:02
Post Spike	B5L2404-PS1	122815A-016	12/28/15 11:07
EP-18	1502323-01	122815A-019	12/28/15 11:22
Calibration Check	S5L2802-CCV1	122815A-020	12/28/15 11:27
Calibration Blank	S5L2802-CCB1	122815A-021	12/28/15 11:32
Calibration Check	S5L2802-CCV2	122815A-027	12/28/15 12:02
Calibration Blank	S5L2802-CCB2	122815A-028	12/28/15 12:07
Instrument RL Check	S5L2802-CRL2	122815A-029	12/28/15 12:12
Interference Check A	S5L2802-IFA2	122815A-030	12/28/15 12:18
Interference Check B	S5L2802-IFB2	122815A-031	12/28/15 12:23

Accredited Analytical Resources, LLC.

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 7471

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Sequence: S5L2403
Instrument Cetac

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S5L2403-ICV1	Mercury	5.00	4.95	99.0	ug/L	+/- 10.00%
S5L2403-CCV1	Mercury	5.00	5.14	103	ug/L	+/- 10.00%

Accredited Analytical Resources, LLC.

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S5L2802-ICV1	Aluminum	8000	7660	95.8	ug/L	+/- 10.00%
	Antimony	7500	7370	98.3	ug/L	+/- 10.00%
	Arsenic	7500	7350	98.0	ug/L	+/- 10.00%
	Barium	7500	7040	93.8	ug/L	+/- 10.00%
	Beryllium	7500	7350	98.0	ug/L	+/- 10.00%
	Cadmium	7500	7420	98.9	ug/L	+/- 10.00%
	Calcium	7500	7420	99.0	ug/L	+/- 10.00%
	Chromium	7500	7350	98.0	ug/L	+/- 10.00%
	Cobalt	7500	7380	98.4	ug/L	+/- 10.00%
	Copper	7500	7450	99.3	ug/L	+/- 10.00%
	Iron	7500	7450	99.4	ug/L	+/- 10.00%
	Lead	7500	7400	98.7	ug/L	+/- 10.00%
	Magnesium	7500	7330	97.8	ug/L	+/- 10.00%
	Manganese	7500	7360	98.2	ug/L	+/- 10.00%
	Nickel	7500	7370	98.2	ug/L	+/- 10.00%
	Potassium	7500	7260	96.8	ug/L	+/- 10.00%
	Selenium	7500	7380	98.4	ug/L	+/- 10.00%
	Silver	750	724	96.5	ug/L	+/- 10.00%
	Sodium	7500	7430	99.1	ug/L	+/- 10.00%
	Thallium	7500	7460	99.5	ug/L	+/- 10.00%
	Vanadium	7500	7430	99.1	ug/L	+/- 10.00%
	Zinc	7500	7440	99.2	ug/L	+/- 10.00%
S5L2802-CCV1	Aluminum	5000	4850	97.1	ug/L	+/- 10.00%
	Antimony	5000	4930	98.5	ug/L	+/- 10.00%
	Arsenic	5000	4920	98.5	ug/L	+/- 10.00%
	Barium	5000	4890	97.9	ug/L	+/- 10.00%
	Beryllium	5000	4950	99.1	ug/L	+/- 10.00%
	Cadmium	5000	5010	100	ug/L	+/- 10.00%

Accredited Analytical Resources, LLC.

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S5L2802-CCV1	Calcium	5000	4910	98.1	ug/L	+/- 10.00%
	Chromium	5000	4880	97.7	ug/L	+/- 10.00%
	Cobalt	5000	4970	99.3	ug/L	+/- 10.00%
	Copper	5000	5000	100	ug/L	+/- 10.00%
	Iron	5000	4890	97.8	ug/L	+/- 10.00%
	Lead	5000	5020	100	ug/L	+/- 10.00%
	Magnesium	5000	4940	98.8	ug/L	+/- 10.00%
	Manganese	5000	5010	100	ug/L	+/- 10.00%
	Nickel	5000	4990	99.8	ug/L	+/- 10.00%
	Potassium	5000	4820	96.4	ug/L	+/- 10.00%
	Selenium	5000	4990	99.7	ug/L	+/- 10.00%
	Silver	500	479	95.7	ug/L	+/- 10.00%
	Sodium	5000	4840	96.8	ug/L	+/- 10.00%
	Thallium	5000	5030	101	ug/L	+/- 10.00%
	Vanadium	5000	4980	99.7	ug/L	+/- 10.00%
	Zinc	5000	5020	100	ug/L	+/- 10.00%
S5L2802-CCV2	Aluminum	5000	4860	97.3	ug/L	+/- 10.00%
	Antimony	5000	4920	98.4	ug/L	+/- 10.00%
	Arsenic	5000	4950	98.9	ug/L	+/- 10.00%
	Barium	5000	4930	98.7	ug/L	+/- 10.00%
	Beryllium	5000	4910	98.1	ug/L	+/- 10.00%
	Cadmium	5000	5010	100	ug/L	+/- 10.00%
	Calcium	5000	4900	98.1	ug/L	+/- 10.00%
	Chromium	5000	4980	99.5	ug/L	+/- 10.00%
	Cobalt	5000	4950	99.0	ug/L	+/- 10.00%
	Copper	5000	4960	99.3	ug/L	+/- 10.00%
	Iron	5000	4880	97.5	ug/L	+/- 10.00%
	Lead	5000	5040	101	ug/L	+/- 10.00%

Accredited Analytical Resources, LLC.

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S5L2802-CCV2	Magnesium	5000	4920	98.3	ug/L	+/- 10.00%
	Manganese	5000	5000	100	ug/L	+/- 10.00%
	Nickel	5000	5010	100	ug/L	+/- 10.00%
	Potassium	5000	4810	96.2	ug/L	+/- 10.00%
	Selenium	5000	5020	100	ug/L	+/- 10.00%
	Silver	500	486	97.1	ug/L	+/- 10.00%
	Sodium	5000	4860	97.1	ug/L	+/- 10.00%
	Thallium	5000	5010	100	ug/L	+/- 10.00%
	Vanadium	5000	4910	98.1	ug/L	+/- 10.00%
	Zinc	5000	4980	99.6	ug/L	+/- 10.00%

BLANKS

EPA 7471

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2403
Instrument Cetac

Lab Sample ID	Analyte	Found	Units	RL	Q
S5L2403-ICB1	Mercury	0.00300	ug/L	0.300	U
B5L2401-BLK1	Mercury	ND	mg/kg wet	0.0750	U
S5L2403-CCB1	Mercury	0.00500	ug/L	0.300	U

BLANKS

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
S5L2802-ICB1	Aluminum	4.32	ug/L	400	U
	Antimony	-0.464	ug/L	80.0	U
	Arsenic	0.870	ug/L	20.0	U
	Barium	-0.00550	ug/L	400	U
	Beryllium	-0.0115	ug/L	10.0	U
	Cadmium	-0.0498	ug/L	10.0	U
	Calcium	1.56	ug/L	500	U
	Chromium	-0.268	ug/L	40.0	U
	Cobalt	0.274	ug/L	100	U
	Copper	3.71	ug/L	60.0	U
	Iron	-1.54	ug/L	500	U
	Lead	-0.0685	ug/L	20.0	U
	Magnesium	9.74	ug/L	1000	U
	Manganese	0.778	ug/L	40.0	U
	Nickel	-0.489	ug/L	80.0	U
	Potassium	2.28	ug/L	1000	U
	Selenium	0.817	ug/L	80.0	U
	Silver	-0.292	ug/L	10.0	U
	Sodium	-6.81	ug/L	1000	U
	Thallium	0.215	ug/L	60.0	U
	Vanadium	-0.644	ug/L	100	U
	Zinc	0.0188	ug/L	120	U
B5L2404-BLK1	Aluminum	ND	mg/kg wet	20.0	U
	Antimony	ND	mg/kg wet	4.00	U
	Arsenic	ND	mg/kg wet	1.00	U
	Barium	ND	mg/kg wet	20.0	U
	Beryllium	ND	mg/kg wet	0.500	U

BLANKS

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
B5L2404-BLK1	Cadmium	ND	mg/kg wet	0.500	U
	Calcium	ND	mg/kg wet	25.0	U
	Chromium	ND	mg/kg wet	2.00	U
	Cobalt	ND	mg/kg wet	5.00	U
	Copper	ND	mg/kg wet	3.00	U
	Iron	ND	mg/kg wet	25.0	U
	Lead	ND	mg/kg wet	1.00	U
	Magnesium	ND	mg/kg wet	50.0	U
	Manganese	ND	mg/kg wet	2.00	U
	Nickel	ND	mg/kg wet	4.00	U
	Potassium	ND	mg/kg wet	50.0	U
	Selenium	ND	mg/kg wet	4.00	U
	Silver	ND	mg/kg wet	0.500	U
	Sodium	ND	mg/kg wet	50.0	U
	Thallium	ND	mg/kg wet	3.00	U
	Vanadium	ND	mg/kg wet	5.00	U
	Zinc	ND	mg/kg wet	6.00	U
S5L2802-CCB1	Aluminum	10.7	ug/L	400	U
	Antimony	-0.540	ug/L	80.0	U
	Arsenic	-0.389	ug/L	20.0	U
	Barium	-0.0540	ug/L	400	U
	Beryllium	0.192	ug/L	10.0	U
	Cadmium	-0.187	ug/L	10.0	U
	Calcium	-2.53	ug/L	500	U
	Chromium	-0.275	ug/L	40.0	U
	Cobalt	-0.137	ug/L	100	U
	Copper	1.98	ug/L	60.0	U

BLANKS

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
S5L2802-CCB1	Iron	-1.76	ug/L	500	U
	Lead	-0.847	ug/L	20.0	U
	Magnesium	-2.43	ug/L	1000	U
	Manganese	0.564	ug/L	40.0	U
	Nickel	-0.487	ug/L	80.0	U
	Potassium	-17.6	ug/L	1000	U
	Selenium	-0.348	ug/L	80.0	U
	Silver	-0.136	ug/L	10.0	U
	Sodium	-5.26	ug/L	1000	U
	Thallium	-2.45	ug/L	60.0	U
	Vanadium	0.0414	ug/L	100	U
	Zinc	0.00650	ug/L	120	U
S5L2802-CCB2	Aluminum	1.37	ug/L	400	U
	Antimony	0.432	ug/L	80.0	U
	Arsenic	-0.730	ug/L	20.0	U
	Barium	-0.00290	ug/L	400	U
	Beryllium	0.139	ug/L	10.0	U
	Cadmium	-0.0513	ug/L	10.0	U
	Calcium	-0.673	ug/L	500	U
	Chromium	-0.221	ug/L	40.0	U
	Cobalt	0.0907	ug/L	100	U
	Copper	1.54	ug/L	60.0	U
	Iron	-1.45	ug/L	500	U
	Lead	-0.431	ug/L	20.0	U
	Magnesium	11.8	ug/L	1000	U
	Manganese	0.102	ug/L	40.0	U
	Nickel	-0.543	ug/L	80.0	U

BLANKS

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	Found	Units	RL	Q
S5L2802-CCB2	Potassium	1.85	ug/L	1000	U
	Selenium	1.42	ug/L	80.0	U
	Silver	-0.156	ug/L	10.0	U
	Sodium	18.6	ug/L	1000	U
	Thallium	-3.43	ug/L	60.0	U
	Vanadium	1.87	ug/L	100	U
	Zinc	0.0337	ug/L	120	U

CRDL STANDARD

EPA 7471

Client:	**BRINKERHOFF ENVIRONMENTAL**	**Calibration:**	UNASSIGNED
Project:	**255 East 138th Street, Bronx, NY**	**Sequence:**	S5L2403
Work Order:	**1502323**	**Instrument**	Cetac

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S5L2403-CRL1	Mercury	0.0750	0.0840	112	ug/L	70 - 130
S5L2403-CRL2	Mercury	0.0750	0.0800	107	ug/L	70 - 130

Accredited Analytical Resources, LLC.

CRDL STANDARD

EPA 6010

Client:	**BRINKERHOFF ENVIRONMENTAL**	**Calibration:**	UNASSIGNED
Project:	**255 East 138th Street, Bronx, NY**	**Sequence:**	S5L2802
Work Order:	**1502323**	**Instrument**	Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S5L2802-CRL1	Aluminum	400	408	102	ug/L	70 - 130
	Antimony	80.0	77.7	97.2	ug/L	70 - 130
	Arsenic	20.0	20.7	104	ug/L	70 - 130
	Barium	400	400	100	ug/L	70 - 130
	Beryllium	10.0	10.0	100	ug/L	70 - 130
	Cadmium	10.0	10.2	102	ug/L	70 - 130
	Calcium	1000	1030	103	ug/L	70 - 130
	Chromium	40.0	39.5	98.8	ug/L	70 - 130
	Cobalt	100	99.8	99.8	ug/L	70 - 130
	Copper	60.0	62.0	103	ug/L	70 - 130
	Iron	500	508	102	ug/L	70 - 130
	Lead	20.0	20.7	103	ug/L	70 - 130
	Magnesium	1000	993	99.3	ug/L	70 - 130
	Manganese	40.0	41.3	103	ug/L	70 - 130
	Nickel	80.0	82.0	102	ug/L	70 - 130
	Potassium	1000	983	98.3	ug/L	70 - 130
	Selenium	80.0	85.1	106	ug/L	70 - 130
	Silver	10.0	10.2	102	ug/L	70 - 130
	Sodium	1000	976	97.6	ug/L	70 - 130
	Thallium	30.0	27.2	90.7	ug/L	70 - 130
	Vanadium	100	102	102	ug/L	70 - 130
	Zinc	120	121	101	ug/L	70 - 130
S5L2802-CRL2	Aluminum	400	418	105	ug/L	70 - 130
	Antimony	80.0	78.7	98.3	ug/L	70 - 130
	Arsenic	20.0	19.4	97.2	ug/L	70 - 130
	Barium	400	411	103	ug/L	70 - 130

Accredited Analytical Resources, LLC.

CRDL STANDARD

EPA 6010

Client:	**BRINKERHOFF ENVIRONMENTAL**	**Calibration:**	UNASSIGNED
Project:	**255 East 138th Street, Bronx, NY**	**Sequence:**	S5L2802
Work Order:	**1502323**	**Instrument**	Thermo iTEVA

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S5L2802-CRL2	Beryllium	10.0	9.98	99.8	ug/L	70 - 130
	Cadmium	10.0	10.1	101	ug/L	70 - 130
	Calcium	1000	1030	103	ug/L	70 - 130
	Chromium	40.0	38.8	97.1	ug/L	70 - 130
	Cobalt	100	100	100	ug/L	70 - 130
	Copper	60.0	62.0	103	ug/L	70 - 130
	Iron	500	519	104	ug/L	70 - 130
	Lead	20.0	20.9	105	ug/L	70 - 130
	Magnesium	1000	988	98.8	ug/L	70 - 130
	Manganese	40.0	41.7	104	ug/L	70 - 130
	Nickel	80.0	82.7	103	ug/L	70 - 130
	Potassium	1000	982	98.2	ug/L	70 - 130
	Selenium	80.0	82.3	103	ug/L	70 - 130
	Silver	10.0	10.2	102	ug/L	70 - 130
	Sodium	1000	990	99.0	ug/L	70 - 130
	Thallium	30.0	25.0	83.5	ug/L	70 - 130
	Vanadium	100	102	102	ug/L	70 - 130
	Zinc	120	121	101	ug/L	70 - 130

SERIAL DILUTION

EPA 6010

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502323
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Matrix:	Solid	Laboratory ID:	S5L2802-SRD1
Sequence:	S5L2802	Source:	ZZZZZZZ

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Lead	14.2	13.6	4.35		10.00
Antimony	ND	ND	N/A		10.00
Arsenic	1.23	ND	N/A		10.00
Barium	ND	ND	N/A		10.00
Beryllium	ND	ND	N/A		10.00
Cadmium	ND	ND	N/A		10.00
Calcium	2350	2230	5.35		10.00
Chromium	5.58	ND	N/A		10.00
Cobalt	ND	ND	N/A		10.00
Aluminum	1510	1400	7.54		10.00
Iron	3080	2930	5.01		10.00
Zinc	22.8	ND	N/A		10.00
Magnesium	255	ND	N/A		10.00
Manganese	13.4	12.7	5.36		10.00
Nickel	ND	ND	N/A		10.00
Potassium	139	ND	N/A		10.00
Selenium	ND	ND	N/A		10.00
Silver	ND	ND	N/A		10.00
Sodium	ND	ND	N/A		10.00
Thallium	ND	ND	N/A		10.00
Vanadium	ND	ND	N/A		10.00
Copper	6.66	ND	N/A		10.00

* Values outside of QC limits

Accredited Analytical Resources, LLC.

INTERFERENCE CHECK SAMPLE

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Calibration: UNASSIGNED
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S5L2802-IFA1	Aluminum	20.00	250000	251,100.00	100	ug/L
	Antimony	4.00		3.68		ug/L
	Arsenic	1.00		3.95		ug/L
	Barium	20.00		0.41		ug/L
	Beryllium	0.50		0.65		ug/L
	Cadmium	0.50		-0.49		ug/L
	Calcium	25.00	250000	241,400.00	96.6	ug/L
	Chromium	2.00		-0.33		ug/L
	Cobalt	5.00		0.47		ug/L
	Copper	3.00		1.82		ug/L
	Iron	25.00	100000	97,530.00	97.5	ug/L
	Lead	1.00		1.81		ug/L
	Magnesium	50.00	250000	256,600.00	103	ug/L
	Manganese	2.00		-1.54		ug/L
	Nickel	4.00		-1.86		ug/L
	Potassium	50.00		-4.77		ug/L
	Selenium	4.00		1.41		ug/L
	Silver	0.50		0.53		ug/L
	Sodium	50.00		-5.18		ug/L
	Thallium	3.00		-3.27		ug/L
	Vanadium	5.00		-2.79		ug/L
	Zinc	6.00		2.43		ug/L
S5L2802-IFB1	Aluminum	20.00	250000	251,600.00	101	ug/L
	Antimony	4.00	250	252.10	101	ug/L
	Arsenic	1.00	250	257.20	103	ug/L
	Barium	20.00	250	257.60	103	ug/L
	Beryllium	0.50	250	256.50	103	ug/L
	Cadmium	0.50	250	242.60	97.0	ug/L

Accredited Analytical Resources, LLC.

INTERFERENCE CHECK SAMPLE

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Calibration: UNASSIGNED
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S5L2802-IFB1	Calcium	25.00	250000	238,400.00	95.4	ug/L
	Chromium	2.00	250	247.20	98.9	ug/L
	Cobalt	5.00	250	235.00	94.0	ug/L
	Copper	3.00	250	261.40	105	ug/L
	Iron	25.00	100000	96,840.00	96.8	ug/L
	Lead	1.00	250	229.00	91.6	ug/L
	Magnesium	50.00	250000	254,300.00	102	ug/L
	Manganese	2.00	250	247.30	98.9	ug/L
	Nickel	4.00	250	231.30	92.5	ug/L
	Potassium	50.00	1000	1,046.00	105	ug/L
	Selenium	4.00	250	237.40	95.0	ug/L
	Silver	0.50	240	242.40	101	ug/L
	Sodium	50.00	1000	1,023.00	102	ug/L
	Thallium	3.00	250	207.60	83.0	ug/L
	Vanadium	5.00	250	256.20	102	ug/L
	Zinc	6.00	250	243.40	97.4	ug/L
S5L2802-IFA2	Aluminum	20.00	250000	252,200.00	101	ug/L
	Antimony	4.00		2.25		ug/L
	Arsenic	1.00		3.76		ug/L
	Barium	20.00		0.43		ug/L
	Beryllium	0.50		0.55		ug/L
	Cadmium	0.50		-0.86		ug/L
	Calcium	25.00	250000	242,300.00	96.9	ug/L
	Chromium	2.00		-0.74		ug/L
	Cobalt	5.00		0.48		ug/L
	Copper	3.00		-1.11		ug/L
	Iron	25.00	100000	97,860.00	97.9	ug/L
	Lead	1.00		2.92		ug/L

Accredited Analytical Resources, LLC.

INTERFERENCE CHECK SAMPLE

EPA 6010

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Calibration: UNASSIGNED
Sequence: S5L2802
Instrument Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S5L2802-IFA2	Magnesium	50.00	250000	255,700.00	102	ug/L
	Manganese	2.00		-1.44		ug/L
	Nickel	4.00		-1.61		ug/L
	Potassium	50.00		-8.86		ug/L
	Selenium	4.00		-1.67		ug/L
	Silver	0.50		0.64		ug/L
	Sodium	50.00		36.11		ug/L
	Thallium	3.00		-3.52		ug/L
	Vanadium	5.00		2.12		ug/L
	Zinc	6.00		2.12		ug/L
S5L2802-IFB2	Aluminum	20.00	250000	250,300.00	100	ug/L
	Antimony	4.00	250	246.80	98.7	ug/L
	Arsenic	1.00	250	260.20	104	ug/L
	Barium	20.00	250	257.20	103	ug/L
	Beryllium	0.50	250	256.30	103	ug/L
	Cadmium	0.50	250	244.70	97.9	ug/L
	Calcium	25.00	250000	241,100.00	96.4	ug/L
	Chromium	2.00	250	250.60	100	ug/L
	Cobalt	5.00	250	235.90	94.4	ug/L
	Copper	3.00	250	260.80	104	ug/L
	Iron	25.00	100000	96,850.00	96.8	ug/L
	Lead	1.00	250	230.90	92.4	ug/L
	Magnesium	50.00	250000	254,400.00	102	ug/L
	Manganese	2.00	250	249.30	99.7	ug/L
	Nickel	4.00	250	232.70	93.1	ug/L
	Potassium	50.00	1000	1,008.00	101	ug/L
	Selenium	4.00	250	239.00	95.6	ug/L
	Silver	0.50	240	242.00	101	ug/L

INTERFERENCE CHECK SAMPLE

EPA 6010

Client:	BRINKERHOFF ENVIRONMENTAL	**Calibration:**	UNASSIGNED
Project:	255 East 138th Street, Bronx, NY	**Sequence:**	S5L2802
Work Order:	1502323	**Instrument**	Thermo iTEVA

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S5L2802-IFB2	Sodium	50.00	1000	1,070.00	107	ug/L
	Thallium	3.00	250	209.90	84.0	ug/L
	Vanadium	5.00	250	256.40	103	ug/L
	Zinc	6.00	250	246.50	98.6	ug/L

Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

WET CHEMISTRY SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Matrix:	Soil
Percent Solids:	71.30	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	16.1	2.00	2.00	1		12/28/15 08:56	[CALC]	12/29/15 16:01 HTW	[CALC]
1854-02-99	Chromium, Hexava	ND	2.81	2.81	1	U	12/28/15 08:56	SW 846 3060A	12/29/15 16:01 HTW	EPA 7196A
NA	Cyanide (total)	ND	1.40	1.40	1	U	12/28/15 08:20	EPA 9010C	12/28/15 11:54 RMK	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	71.3	0.100	0.100	1		12/28/15 10:00	Percent Solids	12/28/15 13:59 CLD	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

WET CHEMISTRY QC DATA

Accredited Analytical Resources, LLC.

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9014

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Sequence: S5L2807
Instrument Hach

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S5L2807-CCV1	Cyanide (total)	0.200	0.206	103	mg/L	+/- 10.00%
S5L2807-ICV1	Cyanide (total)	0.100	0.0987	98.7	mg/L	+/- 10.00%

Accredited Analytical Resources, LLC.

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 7196A

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Sequence: S5L2916
Instrument Hach

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S5L2916-CCV1	Chromium, Hexavalent	1.00	0.966	96.6	mg/L	+/- 10.00%
S5L2916-ICV1	Chromium, Hexavalent	1.00	0.963	96.3	mg/L	+/- 10.00%

BLANKS

EPA 9014

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2807
Instrument Hach

Lab Sample ID	Analyte	Found	Units	RL	Q
B5L2803-BLK1	Cyanide (total)	ND	mg/kg wet	1.00	U
S5L2807-CCB1	Cyanide (total)	-0.000541	mg/L	0.00500	U
S5L2807-ICB1	Cyanide (total)	-0.000541	mg/L	0.00500	U

BLANKS

EPA 7196A

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323
Sequence: S5L2916
Instrument Hach

Lab Sample ID	Analyte	Found	Units	RL	Q
B5L2804-BLK1	Chromium, Hexavalent	ND	mg/kg wet	2.00	U
S5L2916-CCB1	Chromium, Hexavalent	0.0101	mg/L	0.0500	U
S5L2916-ICB1	Chromium, Hexavalent	0.0101	mg/L	0.0500	U

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 9014
Batch:	B5L2803	Preparation:	EPA 9010C
% Solids:	93.00	Laboratory ID:	B5L2803-MS1
		Client Sample ID:	1502322-02

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Cyanide (total)	43.0	ND	43.9	102	75 - 125

ANALYTE	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Cyanide (total)	43.0	46.4	108	5.58	20	75 - 125

* Values outside of QC limits

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 7196A
Batch:	B5L2804	Preparation:	SW 846 3060A
% Solids:	81.20	Laboratory ID:	B5L2804-MS1
		Client Sample ID:	1502312-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)		MS % REC.		QC LIMITS REC.
Chromium, Hexavalent	49.3	ND	13.7	*	27.8	*	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1502323
Project: 255 East 138th Street, Bronx, NY

Matrix:	Solid	Analysis:	EPA 7196A
Batch:	B5L2804	Preparation:	SW 846 3060A
% Solids:	81.20	Laboratory ID:	B5L2804-MS2
		Client Sample ID:	1502312-01

ANALYTE	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC.	QC LIMITS REC.
Chromium, Hexavalent	983	ND	898	91.3	75 - 125

* Values outside of QC limits

DUPLICATES

Duplicate

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix:	Solid	Laboratory ID:	B5L2803-DUP1
Prep Batch:	B5L2803	Initial/Final:	1 g / 200 mL
Prep Method:	EPA 9010C	Analysis:	EPA 9014
% Solids:	93.00		

ANALYTE	SAMPLE CONCENTRATION (mg/kg dry)	DUPLICATE CONCENTRATION (mg/kg dry)	RPD %	Q	CONTROL LIMIT
Cyanide (total)	ND	1.08 U			20

* Values outside of QC limits

DUPLICATES

Duplicate

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix:	Solid	Laboratory ID:	B5L2804-DUP1
Prep Batch:	B5L2804	Initial/Final:	2.5 g / 100 mL
Prep Method:	SW 846 3060A	Analysis:	EPA 7196A
% Solids:	81.20		

ANALYTE	SAMPLE CONCENTRATION (mg/kg dry)	DUPLICATE CONCENTRATION (mg/kg dry)	RPD %	Q	CONTROL LIMIT
Chromium, Hexavalent	ND	2.46 U			20

* Values outside of QC limits

DUPLICATES

Duplicate

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix:	Solid	Laboratory ID:	B5L2807-DUP1
Prep Batch:	B5L2807	Initial/Final:	10 g / 10 g
Prep Method:	Percent Solids	Analysis:	SM 2540 G
% Solids:	93.00		

ANALYTE	SAMPLE CONCENTRATION (%)	DUPLICATE CONCENTRATION (%)	RPD %	Q	CONTROL LIMIT
Percent Solids	93.0	93.0	0.00		20

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 9014

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix:	Solid	Prep Method:	EPA 9010C
Prep Batch:	B5L2803	Lab Sample ID:	B5L2803-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Cyanide (total)	40.0	45.5	114	85 - 115

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 7196A

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Matrix:	Solid	Prep Method:	SW 846 3060A
Prep Batch:	B5L2804	Lab Sample ID:	B5L2804-BS1

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	QC LIMITS REC.
Chromium, Hexavalent	40.0	36.1	90.3	80 - 120

* Values outside of QC limits

POST DIGEST SPIKE SAMPLE RECOVERY

1502312-01

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1502323
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street, Bronx, NY
Matrix:	Solid	Laboratory ID:	B5L2804-PS1
Batch:	B5L2804	Analysis:	EPA 7196A
Preparation:	SW 846 3060A	Initial/Final:	2.5 g / 100 mL

Analyte	Spike Sample Result (SSR) (mg/L)	Sample Result (SR) (mg/L)	Spike Added (SA) (mg/L)	%R	Control Limit %R
Chromium, Hexavalent	0.243	ND	1.00	23.2	85 - 115

Accredited Analytical Resources, LLC.

WET CHEMISTRY

RAW DATA

PROJECT Cr6-soil

Notebook No. 953

Continued from Page

1ppm = 1ml of 100ppm → 100ml in DI H_2O
10ppm = 10ml of 100ppm → 100ml in DI H_2O

	ml of 10ppm	ml of 1ppm	conc (ppm)
B	—	0	0.00
1	—	1	0.02
2	1	—	0.20
3	2.5	—	0.50
4	5	—	1.00
5	10	—	2.00

Wavelength = 540

INITIAL TEMP = 91°C
Mid TEMP = 90°C
FINAL TEMP = 90°C

pH digestion soln = 13.04
Start digestion = 1030 12/28
End digestion = 1130 12/28
Start pH HNO_3 = 1130 12/29
End pH HNO_3 = 1300 12/29
Start pH H_2SO_4 = 1500 12/29
End pH H_2SO_4 = 1550 12/29
Time of Analysis = 1601 12/29

Color reagent AAR B11P68G
1000 ppm Cr6 Std AAR B11P29A
1000 ppm Cr6 ICV AAR B11P29B
100 ppm Cr6 Std = 10ml of 1000ppm + 100ml
pbCr4 sigma 23184606
Digestion soln AAR B11P71A
Magnesium Chloride Baker 113694
phosphate Buffer AAR B10P68B

SAMPLE	wt gs
MB	2.5
LCS	
1502312-01	
1502312-01 dup	
1502312-01 MS	
1502312-01 INS	
1502312-01 P	
1502312-02	
1502312-03	
1502323-01	

Continued on Page

Read and Understood By

[signature] 12/29/15 R Kopler 12/29/15

Signed Date Signed Date

PROJECT Cr6-soil

Notebook No. 953 7

Continued from Page

SAMPLE	pH HNO_3	pH H_2CrO_4	BG H_2SO_4	ABS	BG ABS	CORR ABS	DIL	
0.00 ppm		<2		0.001			1	
0.02 ppm				0.044				
0.20 ppm				0.381				
0.50 ppm				1.018				Curve
1.00 ppm				1.905				55L2914
2.00 ppm				4.081				15L2903
ICV				1.935				
ICB				0.001				
MB	7.79	2.02	1.95	0.004	0.003	0.001		
LCS	7.70	2.03	1.99	1.824	0.011	1.813		
1502312-01	7.88	1.98	2.02	0.011	0.008	0.003		B5L2804
1502312-01 dup	7.55	1.96	1.90	0.023	0.021	0.002		55L2916
1502312-01 ms	7.26	1.98	1.97	0.560	0.015	0.545		
1502312-01 MS	7.91	1.97	1.97	1.832	0.003	1.829	2	
1502312-01 P	7.99	1.98	1.92	0.487	0.013	0.474	1	
1502312-02	7.64	1.91	1.97	0.026	0.023	0.003		
1502312-03	7.85	1.98	2.01	0.012	0.010	0.002		
1502323-01	7.31	1.95	1.96	0.173	0.164	0.009		
CCV		<2		1.940				
CCB				0.001				

Continued on Page

Read and Understood By

Signed: [illegible] Date: 12/29/15

Signed: R Koplin Date: 12/29/15

Accredited Analytical Resources, LLC.

30 December 2015 AAR Work Order: 1502323

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

Enclosed are the results of analyses for samples received by the laboratory on 12/23/2015 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/30/2015 14:23

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-18	1502323-01	Soil	12/23/2015 10:10	12/23/2015 12:00

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
E	Concentration exceeds calibration range
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/30/2015 14:23

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/30/2015 14:23

Client ID: EP-18

Lab ID: 1502323-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	8.42	14.0	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.81	14.0	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
67-64-1	**Acetone**	**20.8**	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
71-43-2	Benzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/30/2015 14:23

Client ID: EP-18

Lab ID: 1502323-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
108-88-3	Toluene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.81	5.61	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.81	5.61	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
100-42-5	Styrene	ND	1.40	5.61	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/30/2015 14:23

Client ID: EP-18

Lab ID: 1502323-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
99-87-6	**p-Isopropyltoluene**	**1.73**	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	J
541-73-1	1,3-Dichlorobenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.40	2.81	ug/kg dry	1	12/23/15 23:47	12/23/15 23:47/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*111 %*	*70-130*		*12/23/15 23:47*	*12/23/15 23:47/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*99 %*	*70-130*		*12/23/15 23:47*	*12/23/15 23:47/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*79 %*	*70-130*		*12/23/15 23:47*	*12/23/15 23:47/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
108-95-2	Phenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/30/2015 14:23

Client ID: EP-18

Lab ID: 1502323-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
78-59-1	Isophorone	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	116	467	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	46.7	467	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/30/2015 14:23

Client ID: EP-18

Lab ID: 1502323-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
86-73-7	Fluorene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**462**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	
120-12-7	**Anthracene**	**81.8**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**581**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	
129-00-0	**Pyrene**	**531**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	116	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**238**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	
117-81-7	bis(2-ethylhexyl)phthalate	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
218-01-9	**Chrysene**	**285**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	
117-84-0	Di-n-octyl phthalate	ND	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	U
205-99-2	**Benzo[b]fluoranthene**	**223**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	J
207-08-9	**Benzo[k]fluoranthene**	**200**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	J
50-32-8	**Benzo[a]pyrene**	**219**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	J
193-39-5	**Indeno(1,2,3-cd)pyrene**	**113**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	J
53-70-3	**Dibenzo(a,h)anthracene**	**47.7**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	J
191-24-2	**Benzo[ghi]perylene**	**115**	46.7	234	ug/kg dry	1	12/24/15 07:52	12/28/15 15:48/JMM	EPA 8270	J
Surrogate: 2-Fluorophenol				*57 %*	*30-130*		*12/24/15 07:52*	*12/28/15 15:48/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*66 %*	*30-130*		*12/24/15 07:52*	*12/28/15 15:48/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/30/2015 14:23

Client ID: EP-18

Lab ID: 1502323-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Surrogate: Nitrobenzene-d5				*64 %*	*30-130*		*12/24/15 07:52*	*12/28/15 15:48/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*62 %*	*30-130*		*12/24/15 07:52*	*12/28/15 15:48/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*85 %*	*30-130*		*12/24/15 07:52*	*12/28/15 15:48/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*83 %*	*30-130*		*12/24/15 07:52*	*12/28/15 15:48/JMM*	*EPA 8270*	

EPA Method SW846 8081/8082

Sample Prepared by Method:EPA 3550B

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
319-84-6	alpha-BHC	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.81	9.34	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.87	1.87	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.926	0.926	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	46.7	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	12/30/2015 14:23

Client ID: EP-18

Lab ID: 1502323-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
11104-28-2	Aroclor-1221	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	23.3	46.7	ug/kg dry	1	12/24/15 07:49	12/28/15 14:44/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*63.5 %*	*30-150*		*12/24/15 07:49*	*12/28/15 14:44/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*56.6 %*	*30-150*		*12/24/15 07:49*	*12/28/15 14:44/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*54.9 %*	*30-150*		*12/24/15 07:49*	*12/28/15 14:44/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*65.1 %*	*30-150*		*12/24/15 07:49*	*12/28/15 14:44/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**7830**	28.1	28.1	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.61	5.61	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.77**	1.40	1.40	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-39-3	**Barium**	**60.3**	28.1	28.1	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.701	0.701	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.701	0.701	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	U
7440-70-2	**Calcium**	**12900**	35.1	35.1	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-47-3	**Chromium**	**16.1**	2.81	2.81	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-48-4	Cobalt	ND	7.01	7.01	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	U
7440-50-8	**Copper**	**24.4**	4.21	4.21	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7439-89-6	**Iron**	**13800**	35.1	35.1	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7439-92-1	**Lead**	**48.5**	1.40	1.40	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7439-95-4	**Magnesium**	**8720**	70.1	70.1	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	

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Client ID: EP-18

Lab ID: 1502323-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7439-96-5	**Manganese**	**319**	2.81	2.81	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-02-0	**Nickel**	**10.5**	5.61	5.61	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-09-7	**Potassium**	**1640**	70.1	70.1	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.61	5.61	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.701	0.701	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	U
7440-23-5	**Sodium**	**209**	70.1	70.1	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-28-0	Thallium	ND	2.10	4.21	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**22.0**	7.01	7.01	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
7440-66-6	**Zinc**	**64.4**	8.42	8.42	mg/kg dry	1	12/24/15 08:18	12/28/15 11:22/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	**Mercury**	**0.108**	0.105	0.105	mg/kg dry	1	12/24/15 07:47	12/24/15 11:01/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**16.1**	2.00	2.00	mg/kg dry	1	12/28/15 08:56	12/29/15 16:01/HTW	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.40	1.40	mg/kg dry	1	12/28/15 08:20	12/28/15 11:54/RMK	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**71.3**	0.100	0.100	%	1	12/28/15 10:00	12/28/15 13:59/CLD	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.81	2.81	mg/kg dry	1	12/28/15 08:56	12/29/15 16:01/HTW	EPA 7196A	

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street, Bronx, NY
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm + Sean Harrison
EMAIL FOR INVOICE:	dharm@brinx.env + sharrison@brinx.env

CLIENT NAME:	Brinkerhoff Enviromental Services, Inc.
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan.
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502323
P.O. #	10BR188

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL Full	TCL Full	Hex Chrom	Tri Chrom									AAR SAMPLE #
PRES. CODE →																		
CONT. CODE →																		
EP-18	12/23/15 / 10:10	S		4	G	X	X	X	X									-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 1 Week
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Category B data deliverable. Hard copy by January 13th 2015 NYSDEC COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Monica Norton	Signature: K. Muniz	Signature:	Signature:
Agent of:	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/23/15 Time: 1200		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

11 January 2016 AAR Work Order: 1502333

Doug Harm
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

Enclosed are the results of analyses for samples received by the laboratory on 12/28/2015 12:57. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	01/11/2016 15:15

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-19	1502333-01	Soil	12/28/2015 09:05	12/28/2015 12:57

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	01/11/2016 15:15

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	01/11/2016 15:15

Client ID: EP-19

Lab ID: 1502333-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	10.8	18.1	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	3.62	18.1	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
67-64-1	**Acetone**	**9.22**	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
71-43-2	Benzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	01/11/2016 15:15

Client ID: EP-19

Lab ID: 1502333-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
108-88-3	Toluene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	3.62	7.23	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
95-47-6	o-Xylene	ND	3.62	7.23	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
100-42-5	Styrene	ND	1.81	7.23	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	01/11/2016 15:15

Client ID: EP-19

Lab ID: 1502333-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.81	3.62	ug/kg dry	1	12/28/15 18:46	12/28/15 18:46/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*109 %*	*70-130*		*12/28/15 18:46*	*12/28/15 18:46/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*102 %*	*70-130*		*12/28/15 18:46*	*12/28/15 18:46/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*87 %*	*70-130*		*12/28/15 18:46*	*12/28/15 18:46/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
108-95-2	Phenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	01/11/2016 15:15

Client ID: EP-19

Lab ID: 1502333-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
78-59-1	Isophorone	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	105	422	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	42.2	422	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	01/11/2016 15:15

Client ID: EP-19

Lab ID: 1502333-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
86-73-7	Fluorene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
120-12-7	Anthracene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
129-00-0	Pyrene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
218-01-9	Chrysene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	42.2	211	ug/kg dry	1	12/30/15 07:43	12/30/15 18:51/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*68 %*	*30-130*		*12/30/15 07:43*	*12/30/15 18:51/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*76 %*	*30-130*		*12/30/15 07:43*	*12/30/15 18:51/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*70 %*	*30-130*		*12/30/15 07:43*	*12/30/15 18:51/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	01/11/2016 15:15

Client ID: EP-19

Lab ID: 1502333-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Surrogate: 2-Fluorobiphenyl				*68 %*	*30-130*		*12/30/15 07:43*	*12/30/15 18:51/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*86 %*	*30-130*		*12/30/15 07:43*	*12/30/15 18:51/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*91 %*	*30-130*		*12/30/15 07:43*	*12/30/15 18:51/JMM*	*EPA 8270*	

EPA Method SW846 8081/8082

Sample Prepared by Method:EPA 3550B

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
319-84-6	alpha-BHC	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.53	8.43	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.835	0.835	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	42.2	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	01/11/2016 15:15

Client ID: EP-19

Lab ID: 1502333-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	21.0	42.2	ug/kg dry	1	12/30/15 07:39	12/30/15 13:54/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*88.5 %*	*30-150*		*12/30/15 07:39*	*12/30/15 13:54/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*82.4 %*	*30-150*		*12/30/15 07:39*	*12/30/15 13:54/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*101 %*	*30-150*		*12/30/15 07:39*	*12/30/15 13:54/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*100 %*	*30-150*		*12/30/15 07:39*	*12/30/15 13:54/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8440**	25.3	25.3	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-36-0	Antimony	ND	5.06	5.06	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**1.85**	1.27	1.27	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-39-3	**Barium**	**39.1**	25.3	25.3	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.633	0.633	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.633	0.633	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	U
7440-70-2	**Calcium**	**1630**	31.6	31.6	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-47-3	**Chromium**	**13.6**	2.53	2.53	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-48-4	**Cobalt**	**8.24**	6.33	6.33	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-50-8	**Copper**	**13.3**	3.80	3.80	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7439-89-6	**Iron**	**12200**	31.6	31.6	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7439-92-1	**Lead**	**8.20**	1.27	1.27	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7439-95-4	**Magnesium**	**4060**	63.3	63.3	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7439-96-5	**Manganese**	**98.8**	2.53	2.53	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Doug Harm	01/11/2016 15:15

Client ID: EP-19

Lab ID: 1502333-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**15.2**	5.06	5.06	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-09-7	**Potassium**	**994**	63.3	63.3	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7782-49-2	Selenium	ND	5.06	5.06	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.633	0.633	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	U
7440-23-5	**Sodium**	**124**	63.3	63.3	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.90	3.80	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**12.7**	6.33	6.33	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
7440-66-6	**Zinc**	**45.5**	7.59	7.59	mg/kg dry	1	12/29/15 10:50	12/30/15 12:28/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.0949	0.0949	mg/kg dry	1	12/30/15 07:44	12/30/15 10:49/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**13.6**	2.00	2.00	mg/kg dry	1	01/04/16 09:22	01/05/16 15:12/HTW	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.27	1.27	mg/kg dry	1	01/04/16 09:25	01/05/16 12:28/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**79.0**	0.100	0.100	%	1	12/30/15 16:00	01/04/16 09:32/CLD	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.53	2.53	mg/kg dry	1	01/04/16 09:22	01/05/16 15:12/HTW	EPA 7196A	

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street, Bronx, NY
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm + Sean Harrison
EMAIL FOR INVOICE:	dharm@bnk.env + Sharrison@bnk.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Monasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502333
P.O. #	10BR188

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	Hex Chrom	Tri Chrom	AAR SAMPLE #
PRES. CODE →										
CONT. CODE →						5	E	6	6	
EP-19	12/28/15 / 9:05	S		4	G	X	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD ~~5 DAY~~ M.N. 72 HRS. 48 HRS. 24 HRS. OTHER _____ (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Category B data deliverable. Hard copy by January ~~26th~~ M.N. 27th 2015 NYSDEC COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: D. Miguel	Print Name:	Print Name:
Signature: Monica Norton	Signature: [signature]	Signature:	Signature:
Agent of:	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/28/15	Time: 12:57	Date Received: / /	Time:
RELINQUISHED BY:	**RECEIVED BY:**	**RELINQUISHED BY:**	**RECEIVED BY:**
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 E. 138th Street

AAR Work Order: 1600232

Client Sample ID:	Lab Sample ID:
EP-20	1600232-01
EP-20	1600232-01RE1

This data has been reviewed and accepted by:

Daniel Miguel 02/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 E. 138th Street**
Work Order: **1600232**

Received: 2/10/16 13:00

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 E. 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental Service
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1690232
P.O. #	10BR188

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL Full	TCL Full	Hex Chrom	Tri Chrom	AAR SAMPLE #
PRES. CODE →										
CONT. CODE →										
EP-20	2/10/16/10:15	S		4	G	✓	✓	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 1 week (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: ~~Forte~~ NYSDEC category B data deliverable - Send invoice to Brinkerhoff

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Monica Norton	Signature: K. Muniz	Signature:	Signature:
Agent of: BES	Agent of: AAR	Agent of:	Agent of:
Date Received: 2/10/16 Time: 1300		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-20	1600232-01	Soil	02/10/2016 10:15	02/10/2016 13:00

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/12/16 05:58	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 3550B	File ID:	G15425.D
Prep Batch:	B6B1201	Sequence:	S6B1501	Analyzed:	02/15/16 13:15
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.795	0.795	U
319-85-7	beta-BHC	ND	0.795	0.795	U
319-86-8	delta-BHC	ND	0.795	0.795	U
58-89-9	gamma-BHC [Lindane]	ND	0.795	0.795	U
76-44-8	Heptachlor	ND	0.795	0.795	U
309-00-2	Aldrin	ND	0.795	0.795	U
1024-57-3	Heptachlor Epoxide	ND	0.795	0.795	U
959-98-8	Endosulfan I	ND	0.795	0.795	U
60-57-1	Dieldrin	ND	1.60	1.60	U
72-55-9	4,4'-DDE	ND	1.60	1.60	U
72-20-8	Endrin	ND	1.60	1.60	U
33213-65-9	Endosulfan II	ND	1.60	1.60	U
72-54-8	4,4'-DDD	ND	1.60	1.60	U
1031-07-8	Endosulfan sulfate	ND	1.60	1.60	U
50-29-3	4,4'-DDT	ND	1.60	1.60	U
72-43-5	Methoxychlor	ND	2.41	8.02	U
53494-70-5	Endrin ketone	ND	1.60	1.60	U
7421-93-4	Endrin aldehyde	ND	1.60	1.60	U
5103-71-9	alpha-Chlordane	ND	0.795	0.795	U
5566-34-7	gamma-Chlordane	ND	0.795	0.795	U
8001-35-2	Toxaphene	ND	40.1	40.1	U
12674-11-2	Aroclor-1016	ND	20.0	40.1	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/12/16 05:58	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 3550B	File ID:	G15425.D
Prep Batch:	B6B1201	Sequence:	S6B1501	Analyzed:	02/15/16 13:15
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.0	40.1	U
11141-16-5	Aroclor-1232	ND	20.0	40.1	U
53469-21-9	Aroclor-1242	ND	20.0	40.1	U
12672-29-6	Aroclor-1248	ND	20.0	40.1	U
11097-69-1	Aroclor-1254	ND	20.0	40.1	U
11096-82-5	Aroclor-1260	ND	20.0	40.1	U
37324-23-5	Aroclor-1262	ND	20.0	40.1	U
11100-14-4	Aroclor-1268	ND	20.0	40.1	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	79.6%	30-150
Tetrachloro-m-xylene [2C]	62.3%	30-150
Decachlorobiphenyl	83.3%	30-150
Decachlorobiphenyl [2C]	87.4%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

SEMIVOLATILES

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/11/16 06:45	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 3550B GCMS	File ID:	F12764.D
Prep Batch:	B6B1101	Sequence:	S6B1507	Analyzed:	02/15/16 21:03
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	40.1	201	U
108-95-2	Phenol	ND	40.1	201	U
111-44-4	bis(2-chloroethyl)ether	ND	40.1	201	U
95-57-8	2-Chlorophenol	ND	40.1	201	U
541-73-1	1,3-Dichlorobenzene	ND	40.1	201	U
106-46-7	1,4-Dichlorobenzene	ND	40.1	201	U
100-51-6	Benzyl alcohol	ND	40.1	201	U
95-50-1	1,2-Dichlorobenzene	ND	40.1	201	U
95-48-7	2-Methylphenol	ND	40.1	201	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.1	201	U
106-44-5	3 & 4-Methylphenol	ND	40.1	201	U
621-64-7	N-Nitroso-di-n-propylamine	ND	40.1	201	U
67-72-1	Hexachloroethane	ND	40.1	201	U
98-95-3	Nitrobenzene	ND	40.1	201	U
78-59-1	Isophorone	ND	40.1	201	U
88-75-5	2-Nitrophenol	ND	40.1	201	U
105-67-9	2,4-Dimethylphenol	ND	40.1	201	U
65-85-0	Benzoic acid	ND	100	401	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.1	201	U
120-83-2	2,4-Dichlorophenol	ND	40.1	201	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.1	201	U
91-20-3	Naphthalene	2430	40.1	201	
106-47-8	4-Chloroaniline	ND	40.1	201	U
87-68-3	Hexachlorobutadiene	ND	40.1	201	U
59-50-7	4-Chloro-3-methylphenol	ND	40.1	201	U
91-57-6	2-Methylnaphthylene	4050	40.1	201	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/11/16 06:45	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 3550B GCMS	File ID:	F12764.D
Prep Batch:	B6B1101	Sequence:	S6B1507	Analyzed:	02/15/16 21:03
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	40.1	201	U
88-06-2	2,4,6-Trichlorophenol	ND	40.1	201	U
95-95-4	2,4,5-Trichlorophenol	ND	40.1	201	U
91-58-7	2-Chloronaphthalene	ND	40.1	201	U
88-74-4	2-Nitroaniline	ND	40.1	201	U
131-11-3	Dimethylphthalate	ND	40.1	201	U
208-96-8	Acenaphthylene	ND	40.1	201	U
99-09-2	3-Nitroaniline	ND	40.1	201	U
83-32-9	Acenaphthene	ND	40.1	201	U
51-28-5	2,4-Dinitrophenol	ND	40.1	401	U
100-02-7	4-Nitrophenol	ND	40.1	201	U
132-64-9	Dibenzofuran	ND	40.1	201	U
606-20-2	2,6-Dinitrotoluene	ND	40.1	201	U
121-14-2	2,4-Dinitrotoluene	ND	40.1	201	U
84-66-2	Diethyl phthalate	ND	40.1	201	U
7005-72-3	4-Chlorophenyl-phenylether	ND	40.1	201	U
86-73-7	Fluorene	490	40.1	201	
100-01-6	4-Nitroaniline	ND	40.1	201	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.1	201	U
86-30-6	N-Nitrosodiphenylamine	ND	40.1	201	U
101-55-3	4-Bromophenyl-phenylether	ND	40.1	201	U
118-74-1	Hexachlorobenzene	ND	40.1	201	U
87-86-5	Pentachlorophenol	ND	40.1	201	U
85-01-8	Phenanthrene	964	40.1	201	
120-12-7	Anthracene	ND	40.1	201	U
84-74-2	Di-n-butyl phthalate	ND	40.1	201	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/11/16 06:45	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 3550B GCMS	File ID:	F12764.D
Prep Batch:	B6B1101	Sequence:	S6B1507	Analyzed:	02/15/16 21:03
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	ND	40.1	201	U
129-00-0	Pyrene	396	40.1	201	
85-68-7	Butylbenzylphthalate	ND	40.1	201	U
91-94-1	3,3'-Dichlorobenzidine	ND	100	201	U
56-55-3	Benzo[a]anthracene	ND	40.1	201	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	40.1	201	U
218-01-9	Chrysene	ND	40.1	201	U
117-84-0	Di-n-octyl phthalate	ND	40.1	201	U
205-99-2	Benzo[b]fluoranthene	ND	40.1	201	U
207-08-9	Benzo[k]fluoranthene	ND	40.1	201	U
50-32-8	Benzo[a]pyrene	ND	40.1	201	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	40.1	201	U
53-70-3	Dibenzo(a,h)anthracene	ND	40.1	201	U
191-24-2	Benzo[ghi]perylene	ND	40.1	201	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	61%	30-130
Phenol-d5	71%	30-130
Nitrobenzene-d5	99%	30-130
2-Fluorobiphenyl	82%	30-130
2,4,6-Tribromophenol	91%	30-130
Terphenyl-d14	99%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/12/16 16:25	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14126.D
Prep Batch:	B6B1509	Sequence:	S6B1503	Analyzed:	02/12/16 16:25
Dilution:	200			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	1450	2410	U
107-13-1	Acrylonitrile	ND	482	2410	U
67-64-1	Acetone	ND	241	482	U
75-71-8	Dichlorodifluoromethane	ND	241	482	U
74-87-3	Chloromethane	ND	241	482	U
75-01-4	Vinyl chloride	ND	241	482	U
74-83-9	Bromomethane	ND	241	482	U
75-00-3	Chloroethane	ND	241	482	U
75-69-4	Trichlorofluoromethane	ND	241	482	U
75-35-4	1,1-Dichloroethene	ND	241	482	U
75-15-0	Carbon disulfide	ND	241	482	U
75-09-2	Methylene Chloride	ND	241	482	U
156-60-5	trans-1,2-Dichloroethene	ND	241	482	U
75-34-3	1,1-Dichloroethane	ND	241	482	U
108-05-4	Vinyl acetate	ND	241	482	U
590-20-7	2,2-Dichloropropane	ND	241	482	U
78-93-3	2-Butanone	ND	241	482	U
156-59-4	cis-1,2-Dichloroethene	ND	241	482	U
67-66-3	Chloroform	ND	241	482	U
74-97-5	Bromochloromethane	ND	241	482	U
71-55-6	1,1,1-Trichloroethane	ND	241	482	U
563-58-6	1,1-Dichloropropene	ND	241	482	U
56-23-5	Carbon Tetrachloride	ND	241	482	U
107-06-2	1,2-Dichloroethane	ND	241	482	U
71-43-2	Benzene	798	241	482	D
79-01-6	Trichloroethene	ND	241	482	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/12/16 16:25	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14126.D
Prep Batch:	B6B1509	Sequence:	S6B1503	Analyzed:	02/12/16 16:25
Dilution:	200			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	241	482	U
75-27-4	Bromodichloromethane	ND	241	482	U
74-95-3	Dibromomethane	ND	241	482	U
110-75-8	2-Chloroethyl vinyl ether	ND	241	482	U
10061-01-5	cis-1,3-Dichloropropene	ND	241	482	U
108-88-3	Toluene	11700	241	482	D
10061-02-6	trans-1,3-Dichloropropene	ND	241	482	U
79-00-5	1,1,2-Trichloroethane	ND	241	482	U
108-10-1	4-Methyl-2-pentanone	ND	241	482	U
106-93-4	1,2-Dibromoethane	ND	241	482	U
591-78-6	2-Hexanone	ND	241	482	U
142-28-9	1,3-Dichloropropane	ND	241	482	U
127-18-4	Tetrachloroethene	ND	241	482	U
124-48-1	Dibromochloromethane	ND	241	482	U
100-41-4	Ethylbenzene	20400	241	482	D
108-90-7	Chlorobenzene	ND	241	482	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	241	482	U
108-38-3/106-42	m,p-Xylenes	83600	482	964	D
95-47-6	o-Xylene	42300	482	964	D
100-42-5	Styrene	ND	241	964	U
75-25-2	Bromoform	ND	241	482	U
98-82-8	Isopropylbenzene	5920	241	482	D
79-34-5	1,1,2,2-Tetrachloroethane	ND	241	482	U
96-18-4	1,2,3-Trichloropropane	ND	241	482	U
103-65-1	n-Propyl Benzene	19400	241	482	D
108-86-1	Bromobenzene	ND	241	482	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/12/16 16:25	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14126.D
Prep Batch:	B6B1509	Sequence:	S6B1503	Analyzed:	02/12/16 16:25
Dilution:	200			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	35100	241	482	D
95-49-8	2-Chlorotoluene	ND	241	482	U
106-43-4	4-Chlorotoluene	ND	241	482	U
98-06-6	tert-Butylbenzene	ND	241	482	U
95-63-6	1,2,4-Trimethylbenzene	112000	241	482	D, E
135-98-8	sec-Butylbenzene	7650	241	482	D
99-87-6	p-Isopropyltoluene	4540	241	482	D
541-73-1	1,3-Dichlorobenzene	ND	241	482	U
106-46-7	1,4-Dichlorobenzene	ND	241	482	U
104-51-8	n-Butyl Benzene	16500	241	482	D
95-50-1	1,2-Dichlorobenzene	ND	241	482	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	241	482	U
120-82-1	1,2,4-Trichlorobenzene	ND	241	482	U
87-68-3	Hexachlorobutadiene	ND	241	482	U
87-61-6	1,2,3-Trichlorobenzene	ND	241	482	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	101%	70-130
Toluene-d8	104%	70-130
Bromofluorobenzene	109%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01RE1
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/15/16 15:48	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14142.D
Prep Batch:	B6B1514	Sequence:	S6B1511	Analyzed:	02/15/16 15:48
Dilution:	1000			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7230	12000	U
107-13-1	Acrylonitrile	ND	2410	12000	U
67-64-1	Acetone	ND	1200	2410	U
75-71-8	Dichlorodifluoromethane	ND	1200	2410	U
74-87-3	Chloromethane	ND	1200	2410	U
75-01-4	Vinyl chloride	ND	1200	2410	U
74-83-9	Bromomethane	ND	1200	2410	U
75-00-3	Chloroethane	ND	1200	2410	U
75-69-4	Trichlorofluoromethane	ND	1200	2410	U
75-35-4	1,1-Dichloroethene	ND	1200	2410	U
75-15-0	Carbon disulfide	ND	1200	2410	U
75-09-2	Methylene Chloride	ND	1200	2410	U
156-60-5	trans-1,2-Dichloroethene	ND	1200	2410	U
75-34-3	1,1-Dichloroethane	ND	1200	2410	U
108-05-4	Vinyl acetate	ND	1200	2410	U
590-20-7	2,2-Dichloropropane	ND	1200	2410	U
78-93-3	2-Butanone	ND	1200	2410	U
156-59-4	cis-1,2-Dichloroethene	ND	1200	2410	U
67-66-3	Chloroform	ND	1200	2410	U
74-97-5	Bromochloromethane	ND	1200	2410	U
71-55-6	1,1,1-Trichloroethane	ND	1200	2410	U
563-58-6	1,1-Dichloropropene	ND	1200	2410	U
56-23-5	Carbon Tetrachloride	ND	1200	2410	U
107-06-2	1,2-Dichloroethane	ND	1200	2410	U
71-43-2	Benzene	ND	1200	2410	U
79-01-6	Trichloroethene	ND	1200	2410	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01RE1
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/15/16 15:48	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14142.D
Prep Batch:	B6B1514	Sequence:	S6B1511	Analyzed:	02/15/16 15:48
Dilution:	1000			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1200	2410	U
75-27-4	Bromodichloromethane	ND	1200	2410	U
74-95-3	Dibromomethane	ND	1200	2410	U
110-75-8	2-Chloroethyl vinyl ether	ND	1200	2410	U
10061-01-5	cis-1,3-Dichloropropene	ND	1200	2410	U
108-88-3	Toluene	11300	1200	2410	D
10061-02-6	trans-1,3-Dichloropropene	ND	1200	2410	U
79-00-5	1,1,2-Trichloroethane	ND	1200	2410	U
108-10-1	4-Methyl-2-pentanone	ND	1200	2410	U
106-93-4	1,2-Dibromoethane	ND	1200	2410	U
591-78-6	2-Hexanone	ND	1200	2410	U
142-28-9	1,3-Dichloropropane	ND	1200	2410	U
127-18-4	Tetrachloroethene	ND	1200	2410	U
124-48-1	Dibromochloromethane	ND	1200	2410	U
100-41-4	Ethylbenzene	20400	1200	2410	D
108-90-7	Chlorobenzene	ND	1200	2410	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1200	2410	U
108-38-3/106-42	m,p-Xylenes	82000	2410	4820	D
95-47-6	o-Xylene	41800	2410	4820	D
100-42-5	Styrene	ND	1200	4820	U
75-25-2	Bromoform	ND	1200	2410	U
98-82-8	Isopropylbenzene	6600	1200	2410	D
79-34-5	1,1,2,2-Tetrachloroethane	ND	1200	2410	U
96-18-4	1,2,3-Trichloropropane	ND	1200	2410	U
103-65-1	n-Propyl Benzene	20600	1200	2410	D
108-86-1	Bromobenzene	ND	1200	2410	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01RE1
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Prep Date:	02/15/16 15:48	Matrix:	Soil
Percent Solids:	83.00	Prep Method:	EPA 5035A	File ID:	D14142.D
Prep Batch:	B6B1514	Sequence:	S6B1511	Analyzed:	02/15/16 15:48
Dilution:	1000			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	38300	1200	2410	D
95-49-8	2-Chlorotoluene	ND	1200	2410	U
106-43-4	4-Chlorotoluene	ND	1200	2410	U
98-06-6	tert-Butylbenzene	ND	1200	2410	U
95-63-6	1,2,4-Trimethylbenzene	131000	1200	2410	D
135-98-8	sec-Butylbenzene	8720	1200	2410	D
99-87-6	p-Isopropyltoluene	4800	1200	2410	D
541-73-1	1,3-Dichlorobenzene	ND	1200	2410	U
106-46-7	1,4-Dichlorobenzene	ND	1200	2410	U
104-51-8	n-Butyl Benzene	18400	1200	2410	D
95-50-1	1,2-Dichlorobenzene	ND	1200	2410	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1200	2410	U
120-82-1	1,2,4-Trichlorobenzene	ND	1200	2410	U
87-68-3	Hexachlorobutadiene	ND	1200	2410	U
87-61-6	1,2,3-Trichlorobenzene	ND	1200	2410	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	106%	70-130
Toluene-d8	102%	70-130
Bromofluorobenzene	99%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Matrix:	Soil
Percent Solids:	83.00	File ID:	021216A-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	9020	24.1	24.1	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0904	0.0904	1	U	02/11/16 11:16	EPA 7471A	02/11/16 15:37 PRT	EPA 7471
7440-36-0	Antimony	ND	4.82	4.82	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-38-2	Arsenic	1.91	1.20	1.20	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-39-3	Barium	54.5	24.1	24.1	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.602	0.602	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.602	0.602	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-70-2	Calcium	2410	30.1	30.1	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-47-3	Chromium	19.4	2.41	2.41	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-48-4	Cobalt	9.45	6.02	6.02	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-50-8	Copper	18.0	3.61	3.61	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7439-89-6	Iron	13500	30.1	30.1	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7439-92-1	Lead	9.03	1.20	1.20	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7439-95-4	Magnesium	4150	60.2	60.2	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7439-96-5	Manganese	297	2.41	2.41	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-02-0	Nickel	15.6	4.82	4.82	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-09-7	Potassium	2190	60.2	60.2	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7782-49-2	Selenium	ND	4.82	4.82	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-22-4	Silver	ND	0.602	0.602	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-23-5	Sodium	129	60.2	60.2	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-28-0	Thallium	ND	1.81	3.61	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-62-2	Vanadium	27.6	6.02	6.02	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010
7440-66-6	Zinc	46.6	7.23	7.23	1		02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

WET CHEMISTRY

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled: 02/10/16 10:15 Matrix: Soil
Percent Solids: 83.00 File ID:

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	19.4	2.00	2.00	1		02/11/16 11:25	[CALC]	02/12/16 13:30 HTW	[CALC]
1854-02-99	Chromium, Hexava	ND	2.41	2.41	1	U	02/11/16 08:10	SW 846 3060A	02/12/16 13:30 HTW	EPA 7196A
NA	Cyanide (total)	ND	1.20	1.20	1	U	02/12/16 08:18	EPA 9010C	02/12/16 16:04 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	83.0	0.100	0.100	1		02/11/16 09:16	Percent Solids	02/12/16 09:53 CLD	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

25 July 2016 AAR Work Order: 1601375

Sean Harrison
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 255 East 138th Street

Enclosed are the results of analyses for samples received by the laboratory on 07/21/2016 13:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-21	1601375-01	Soil	07/21/2016 00:00	07/21/2016 13:40

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
D	Data reported from a dilution
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	7.78	13.0	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.59	13.0	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
67-64-1	Acetone	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
75-71-8	Dichlorodifluoromethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
75-15-0	**Carbon disulfide**	**2.10**	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	J
75-09-2	Methylene Chloride	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
71-43-2	Benzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
108-88-3	Toluene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.59	5.19	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.59	5.19	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
100-42-5	Styrene	ND	1.30	5.19	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.30	2.59	ug/kg dry	1	07/22/16 02:59	07/22/16 02:59/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*190 %*	*70-130*	*	*07/22/16 02:59*	*07/22/16 02:59/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*101 %*	*70-130*		*07/22/16 02:59*	*07/22/16 02:59/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*79 %*	*70-130*		*07/22/16 02:59*	*07/22/16 02:59/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
108-95-2	Phenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U

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1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
78-59-1	Isophorone	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	102	411	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**65.3**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
91-57-6	**2-Methylnaphthylene**	**47.7**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
77-47-4	Hexachlorocyclopentadiene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
208-96-8	**Acenaphthylene**	**61.3**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
99-09-2	3-Nitroaniline	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
83-32-9	**Acenaphthene**	**151**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	41.1	411	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
132-64-9	**Dibenzofuran**	**96.2**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
606-20-2	2,6-Dinitrotoluene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U

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Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
84-66-2	Diethyl phthalate	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
86-73-7	**Fluorene**	**162**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
100-01-6	4-Nitroaniline	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**1510**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
120-12-7	**Anthracene**	**351**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
84-74-2	Di-n-butyl phthalate	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**1760**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
129-00-0	**Pyrene**	**2120**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	102	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**811**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
117-81-7	**bis(2-ethylhexyl)phthalate**	**68.5**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
218-01-9	**Chrysene**	**822**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
117-84-0	Di-n-octyl phthalate	ND	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	U
205-99-2	**Benzo[b]fluoranthene**	**1180**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
207-08-9	**Benzo[k]fluoranthene**	**505**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
50-32-8	**Benzo[a]pyrene**	**759**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**189**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
53-70-3	**Dibenzo(a,h)anthracene**	**69.2**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
191-24-2	**Benzo[ghi]perylene**	**189**	41.1	206	ug/kg dry	1	07/22/16 10:22	07/22/16 20:35/JMM	EPA 8270	J
Surrogate: 2-Fluorophenol				*59 %*	*30-130*		*07/22/16 10:22*	*07/22/16 20:35/JMM*	*EPA 8270*	

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1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Phenol-d5				*63 %*	*30-130*		*07/22/16 10:22*	*07/22/16 20:35/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*75 %*	*30-130*		*07/22/16 10:22*	*07/22/16 20:35/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*71 %*	*30-130*		*07/22/16 10:22*	*07/22/16 20:35/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*81 %*	*30-130*		*07/22/16 10:22*	*07/22/16 20:35/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*108 %*	*30-130*		*07/22/16 10:22*	*07/22/16 20:35/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.47	8.22	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.64	1.64	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
5566-34-7	**gamma-Chlordane**	**13.7**	0.815	0.815	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	
8001-35-2	Toxaphene	ND	41.1	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
12674-11-2	Aroclor-1016	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	20.5	41.1	ug/kg dry	1	07/25/16 06:06	07/25/16 13:30/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*60.7 %*	*30-150*		*07/25/16 06:06*	*07/25/16 13:30/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*79.1 %*	*30-150*		*07/25/16 06:06*	*07/25/16 13:30/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*72.4 %*	*30-150*		*07/25/16 06:06*	*07/25/16 13:30/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*129 %*	*30-150*		*07/25/16 06:06*	*07/25/16 13:30/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8930**	24.3	24.3	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-36-0	Antimony	ND	4.85	4.85	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.98**	1.21	1.21	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-39-3	**Barium**	**70.3**	24.3	24.3	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.606	0.606	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	U
7440-43-9	**Cadmium**	**0.905**	0.606	0.606	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-70-2	**Calcium**	**34600**	758	758	mg/kg dry	25	07/22/16 07:29	07/22/16 14:20/LIT	EPA 6010	D
7440-47-3	**Chromium**	**29.2**	2.43	2.43	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-48-4	**Cobalt**	**7.51**	6.06	6.06	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-50-8	**Copper**	**39.3**	3.64	3.64	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7439-89-6	**Iron**	**19000**	30.3	30.3	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7439-92-1	**Lead**	**87.7**	1.21	1.21	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	

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Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Total Metals by EPA Method SW846 6010										
7439-95-4	**Magnesium**	**14800**	60.6	60.6	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7439-96-5	**Manganese**	**392**	2.43	2.43	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-02-0	**Nickel**	**16.0**	4.85	4.85	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-09-7	**Potassium**	**1570**	60.6	60.6	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7782-49-2	Selenium	ND	4.85	4.85	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.606	0.606	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	U
7440-23-5	**Sodium**	**309**	60.6	60.6	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.82	3.64	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**24.4**	6.06	6.06	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
7440-66-6	**Zinc**	**92.0**	7.28	7.28	mg/kg dry	1	07/22/16 07:29	07/22/16 13:34/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	**Mercury**	**0.131**	0.0926	0.0926	mg/kg dry	1	07/21/16 14:00	07/22/16 12:12/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**29.2**	1.96	1.96	mg/kg dry	1	07/22/16 07:29	07/22/16 16:46/NNM	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.23	1.23	mg/kg dry	1	07/21/16 15:21	07/22/16 14:41/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**81.0**	0.100	0.100	%	1	07/25/16 08:45	07/25/16 14:28/RMK	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.47	2.47	mg/kg dry	1	07/21/16 13:58	07/22/16 16:46/NNM	EPA 7196A	

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1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01RE1 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	7.51	12.5	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.50	12.5	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
67-64-1	Acetone	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
75-71-8	Dichlorodifluoromethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
75-15-0	**Carbon disulfide**	**2.52**	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	
75-09-2	Methylene Chloride	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
71-43-2	Benzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U

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Client ID: EP-21

Lab ID: 1601375-01RE1 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
108-88-3	Toluene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.50	5.01	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.50	5.01	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
100-42-5	Styrene	ND	1.25	5.01	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	07/25/2016 15:38

Client ID: EP-21

Lab ID: 1601375-01RE1 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.25	2.50	ug/kg dry	1	07/22/16 03:30	07/22/16 03:30/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*181 %*	*70-130*	*	*07/22/16 03:30*	*07/22/16 03:30/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*98 %*	*70-130*		*07/22/16 03:30*	*07/22/16 03:30/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*75 %*	*70-130*		*07/22/16 03:30*	*07/22/16 03:30/SG*	*EPA 8260*	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave.
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601375
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-21	7/21/16	S	18'	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data Deliverables

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 7/21/16	Time: 1340	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

04 August 2016 AAR Work Order: 1601418

Sean Harrison
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 255 East 138 Street

Enclosed are the results of analyses for samples received by the laboratory on 07/28/2016 15:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138 Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/04/2016 15:41

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-22	1601418-01	Soil	07/28/2016 10:44	07/28/2016 15:25

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
D	Data reported from a dilution
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138 Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/04/2016 15:41

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138 Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/04/2016 15:41

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138 Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/04/2016 15:41

Client ID: EP-22

Lab ID: 1601418-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
Sample Prepared by Method:EPA 5035A										
107-02-8	Acrolein	ND	6.22	10.4	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.07	10.4	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
67-64-1	**Acetone**	**5.16**	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
75-09-2	**Methylene Chloride**	**3.44**	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	B
156-60-5	trans-1,2-Dichloroethene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
78-93-3	**2-Butanone**	**2.19**	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
71-43-2	Benzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138 Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/04/2016 15:41

Client ID: EP-22

Lab ID: 1601418-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
108-88-3	Toluene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.07	4.14	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.07	4.14	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
100-42-5	Styrene	ND	1.04	4.14	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138 Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/04/2016 15:41

Client ID: EP-22

Lab ID: 1601418-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.04	2.07	ug/kg dry	1	08/02/16 12:02	08/02/16 12:02/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*103 %*	*70-130*		*08/02/16 12:02*	*08/02/16 12:02/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*103 %*	*70-130*		*08/02/16 12:02*	*08/02/16 12:02/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*103 %*	*70-130*		*08/02/16 12:02*	*08/02/16 12:02/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
108-95-2	Phenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138 Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/04/2016 15:41

Client ID: EP-22

Lab ID: 1601418-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
78-59-1	Isophorone	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	93.0	373	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	37.3	373	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138 Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/04/2016 15:41

Client ID: EP-22

Lab ID: 1601418-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
86-73-7	Fluorene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
120-12-7	Anthracene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
129-00-0	Pyrene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	93.0	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
218-01-9	Chrysene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	37.3	187	ug/kg dry	1	08/02/16 06:18	08/03/16 20:18/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*61 %*	*30-130*		*08/02/16 06:18*	*08/03/16 20:18/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*63 %*	*30-130*		*08/02/16 06:18*	*08/03/16 20:18/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*88 %*	*30-130*		*08/02/16 06:18*	*08/03/16 20:18/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138 Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/04/2016 15:41

Client ID: EP-22

Lab ID: 1601418-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: 2-Fluorobiphenyl				*85 %*	*30-130*		*08/02/16 06:18*	*08/03/16 20:18/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*84 %*	*30-130*		*08/02/16 06:18*	*08/03/16 20:18/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*97 %*	*30-130*		*08/02/16 06:18*	*08/03/16 20:18/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.24	7.47	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.49	1.49	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.740	0.740	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	37.3	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138 Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/04/2016 15:41

Client ID: EP-22

Lab ID: 1601418-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	18.6	37.3	ug/kg dry	1	08/02/16 06:14	08/03/16 15:39/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*59.6 %*	*30-150*		*08/02/16 06:14*	*08/03/16 15:39/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*73.4 %*	*30-150*		*08/02/16 06:14*	*08/03/16 15:39/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*64.1 %*	*30-150*		*08/02/16 06:14*	*08/03/16 15:39/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*72.0 %*	*30-150*		*08/02/16 06:14*	*08/03/16 15:39/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**6740**	22.4	22.4	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7440-36-0	Antimony	ND	4.48	4.48	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	U
7440-38-2	Arsenic	ND	1.12	1.12	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	U
7440-39-3	**Barium**	**39.4**	22.4	22.4	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.561	0.561	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.561	0.561	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	U
7440-70-2	**Calcium**	**47200**	701	701	mg/kg dry	25	08/02/16 08:51	08/02/16 14:53/LIT	EPA 6010	D
7440-47-3	**Chromium**	**15.4**	2.24	2.24	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7440-48-4	**Cobalt**	**6.21**	5.61	5.61	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7440-50-8	**Copper**	**13.1**	3.36	3.36	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7439-89-6	**Iron**	**12100**	28.0	28.0	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7439-92-1	**Lead**	**6.79**	1.12	1.12	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7439-95-4	**Magnesium**	**29100**	56.1	56.1	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7439-96-5	**Manganese**	**515**	2.24	2.24	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	

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Client ID: EP-22

Lab ID: 1601418-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**10.7**	4.48	4.48	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7440-09-7	**Potassium**	**1890**	56.1	56.1	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7782-49-2	Selenium	ND	4.48	4.48	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.561	0.561	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	U
7440-23-5	**Sodium**	**166**	56.1	56.1	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.68	3.36	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**24.5**	5.61	5.61	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
7440-66-6	**Zinc**	**36.8**	6.73	6.73	mg/kg dry	1	08/02/16 08:51	08/02/16 14:13/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.0841	0.0841	mg/kg dry	1	07/29/16 07:41	08/01/16 09:21/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**15.4**	2.00	2.00	mg/kg dry	1	08/02/16 08:51	08/02/16 15:52/NNM	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.12	1.12	mg/kg dry	1	08/03/16 11:12	08/03/16 17:08/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**89.2**	0.100	0.100	%	1	08/03/16 10:57	08/04/16 13:07/RMK	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.24	2.24	mg/kg dry	1	08/01/16 09:19	08/02/16 15:52/NNM	EPA 7196A	

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138 Street
CONTACT:	Sean harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1601418
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-22	7/28/16 1044	S	9-10'	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data Deliverables

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 7/28/16	Time: 1525	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601448

Client Sample ID:	Lab Sample ID:
EP-23	1601448-01

This data has been reviewed and accepted by:

Daniel Miguel 08/08/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Accredited Analytical Resources, LLC.

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601448**

Received: 8/1/16 15:05

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

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CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave.
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601448
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex chrom	Tri chrom	AAR SAMPLE #
EP-23	8/1/16 1140	S	9'	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____ (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data deliverables

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8 / 1 / 16	Time: 1505	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-23	1601448-01	Soil	08/01/2016 11:40	08/01/2016 15:05

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 06:14	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 3550B	File ID:	A22538.D
Prep Batch:	B6H0202	Sequence:	S6H0202	Analyzed:	08/02/16 19:01
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.776	0.776	U
319-85-7	beta-BHC	ND	0.776	0.776	U
319-86-8	delta-BHC	ND	0.776	0.776	U
58-89-9	gamma-BHC [Lindane]	ND	0.776	0.776	U
76-44-8	Heptachlor	ND	0.776	0.776	U
309-00-2	Aldrin	ND	0.776	0.776	U
1024-57-3	Heptachlor Epoxide	ND	0.776	0.776	U
959-98-8	Endosulfan I	ND	0.776	0.776	U
60-57-1	Dieldrin	ND	1.56	1.56	U
72-55-9	4,4'-DDE	ND	1.56	1.56	U
72-20-8	Endrin	ND	1.56	1.56	U
33213-65-9	Endosulfan II	ND	1.56	1.56	U
72-54-8	4,4'-DDD	ND	1.56	1.56	U
1031-07-8	Endosulfan sulfate	ND	1.56	1.56	U
50-29-3	4,4'-DDT	ND	1.56	1.56	U
72-43-5	Methoxychlor	ND	2.35	7.83	U
53494-70-5	Endrin ketone	ND	1.56	1.56	U
7421-93-4	Endrin aldehyde	ND	1.56	1.56	U
5103-71-9	alpha-Chlordane	ND	0.776	0.776	U
5566-34-7	gamma-Chlordane	ND	0.776	0.776	U
8001-35-2	Toxaphene	ND	39.1	39.1	U
12674-11-2	Aroclor-1016	ND	19.5	39.1	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 06:14	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 3550B	File ID:	A22538.D
Prep Batch:	B6H0202	Sequence:	S6H0202	Analyzed:	08/02/16 19:01
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.5	39.1	U
11141-16-5	Aroclor-1232	ND	19.5	39.1	U
53469-21-9	Aroclor-1242	ND	19.5	39.1	U
12672-29-6	Aroclor-1248	ND	19.5	39.1	U
11097-69-1	Aroclor-1254	ND	19.5	39.1	U
11096-82-5	Aroclor-1260	ND	19.5	39.1	U
37324-23-5	Aroclor-1262	ND	19.5	39.1	U
11100-14-4	Aroclor-1268	ND	19.5	39.1	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	87.5%	30-150
Tetrachloro-m-xylene [2C]	115%	30-150
Decachlorobiphenyl	110%	30-150
Decachlorobiphenyl [2C]	128%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

SEMIVOLATILES

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 06:18	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 3550B GCMS	File ID:	E10951.D
Prep Batch:	B6H0203	Sequence:	S6H0308	Analyzed:	08/03/16 18:08
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	39.1	196	U
108-95-2	Phenol	ND	39.1	196	U
111-44-4	bis(2-chloroethyl)ether	ND	39.1	196	U
95-57-8	2-Chlorophenol	ND	39.1	196	U
541-73-1	1,3-Dichlorobenzene	ND	39.1	196	U
106-46-7	1,4-Dichlorobenzene	ND	39.1	196	U
100-51-6	Benzyl alcohol	ND	39.1	196	U
95-50-1	1,2-Dichlorobenzene	ND	39.1	196	U
95-48-7	2-Methylphenol	ND	39.1	196	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	39.1	196	U
106-44-5	3 & 4-Methylphenol	ND	39.1	196	U
621-64-7	N-Nitroso-di-n-propylamine	ND	39.1	196	U
67-72-1	Hexachloroethane	ND	39.1	196	U
98-95-3	Nitrobenzene	ND	39.1	196	U
78-59-1	Isophorone	ND	39.1	196	U
88-75-5	2-Nitrophenol	ND	39.1	196	U
105-67-9	2,4-Dimethylphenol	ND	39.1	196	U
65-85-0	Benzoic acid	ND	97.5	391	U
111-91-1	bis(2-chloroethoxy)methane	ND	39.1	196	U
120-83-2	2,4-Dichlorophenol	ND	39.1	196	U
120-82-1	1,2,4-Trichlorobenzene	ND	39.1	196	U
91-20-3	Naphthalene	ND	39.1	196	U
106-47-8	4-Chloroaniline	ND	39.1	196	U
87-68-3	Hexachlorobutadiene	ND	39.1	196	U
59-50-7	4-Chloro-3-methylphenol	ND	39.1	196	U
91-57-6	2-Methylnaphthylene	ND	39.1	196	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 06:18	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 3550B GCMS	File ID:	E10951.D
Prep Batch:	B6H0203	Sequence:	S6H0308	Analyzed:	08/03/16 18:08
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	39.1	196	U
88-06-2	2,4,6-Trichlorophenol	ND	39.1	196	U
95-95-4	2,4,5-Trichlorophenol	ND	39.1	196	U
91-58-7	2-Chloronaphthalene	ND	39.1	196	U
88-74-4	2-Nitroaniline	ND	39.1	196	U
131-11-3	Dimethylphthalate	ND	39.1	196	U
208-96-8	Acenaphthylene	ND	39.1	196	U
99-09-2	3-Nitroaniline	ND	39.1	196	U
83-32-9	Acenaphthene	ND	39.1	196	U
51-28-5	2,4-Dinitrophenol	ND	39.1	391	U
100-02-7	4-Nitrophenol	ND	39.1	196	U
132-64-9	Dibenzofuran	ND	39.1	196	U
606-20-2	2,6-Dinitrotoluene	ND	39.1	196	U
121-14-2	2,4-Dinitrotoluene	ND	39.1	196	U
84-66-2	Diethyl phthalate	ND	39.1	196	U
7005-72-3	4-Chlorophenyl-phenylether	ND	39.1	196	U
86-73-7	Fluorene	ND	39.1	196	U
100-01-6	4-Nitroaniline	ND	39.1	196	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	39.1	196	U
86-30-6	N-Nitrosodiphenylamine	ND	39.1	196	U
101-55-3	4-Bromophenyl-phenylether	ND	39.1	196	U
118-74-1	Hexachlorobenzene	ND	39.1	196	U
87-86-5	Pentachlorophenol	ND	39.1	196	U
85-01-8	Phenanthrene	ND	39.1	196	U
120-12-7	Anthracene	ND	39.1	196	U
84-74-2	Di-n-butyl phthalate	ND	39.1	196	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 06:18	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 3550B GCMS	File ID:	E10951.D
Prep Batch:	B6H0203	Sequence:	S6H0308	Analyzed:	08/03/16 18:08
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	ND	39.1	196	U
129-00-0	Pyrene	ND	39.1	196	U
85-68-7	Butylbenzylphthalate	ND	39.1	196	U
91-94-1	3,3'-Dichlorobenzidine	ND	97.5	196	U
56-55-3	Benzo[a]anthracene	ND	39.1	196	U
117-81-7	bis(2-ethylhexyl)phthalate	49.8	39.1	196	J
218-01-9	Chrysene	ND	39.1	196	U
117-84-0	Di-n-octyl phthalate	ND	39.1	196	U
205-99-2	Benzo[b]fluoranthene	ND	39.1	196	U
207-08-9	Benzo[k]fluoranthene	ND	39.1	196	U
50-32-8	Benzo[a]pyrene	ND	39.1	196	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	39.1	196	U
53-70-3	Dibenzo(a,h)anthracene	ND	39.1	196	U
191-24-2	Benzo[ghi]perylene	ND	39.1	196	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	58%	30-130
Phenol-d5	59%	30-130
Nitrobenzene-d5	83%	30-130
2-Fluorobiphenyl	79%	30-130
2,4,6-Tribromophenol	74%	30-130
Terphenyl-d14	87%	30-130

* Values outside of QC limits
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P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 12:33	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 5035A	File ID:	A8882.D
Prep Batch:	B6H0217	Sequence:	S6H0203	Analyzed:	08/02/16 12:33
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	6.14	10.2	U
107-13-1	Acrylonitrile	ND	2.05	10.2	U
67-64-1	Acetone	1.17	1.02	2.05	J
75-71-8	Dichlorodifluoromethane	ND	1.02	2.05	U
74-87-3	Chloromethane	ND	1.02	2.05	U
75-01-4	Vinyl chloride	ND	1.02	2.05	U
74-83-9	Bromomethane	ND	1.02	2.05	U
75-00-3	Chloroethane	ND	1.02	2.05	U
75-69-4	Trichlorofluoromethane	ND	1.02	2.05	U
75-35-4	1,1-Dichloroethene	ND	1.02	2.05	U
75-15-0	Carbon disulfide	ND	1.02	2.05	U
75-09-2	Methylene Chloride	1.57	1.02	2.05	J, B
156-60-5	trans-1,2-Dichloroethene	ND	1.02	2.05	U
75-34-3	1,1-Dichloroethane	ND	1.02	2.05	U
108-05-4	Vinyl acetate	ND	1.02	2.05	U
590-20-7	2,2-Dichloropropane	ND	1.02	2.05	U
78-93-3	2-Butanone	ND	1.02	2.05	U
156-59-4	cis-1,2-Dichloroethene	ND	1.02	2.05	U
67-66-3	Chloroform	ND	1.02	2.05	U
74-97-5	Bromochloromethane	ND	1.02	2.05	U
71-55-6	1,1,1-Trichloroethane	ND	1.02	2.05	U
563-58-6	1,1-Dichloropropene	ND	1.02	2.05	U
56-23-5	Carbon Tetrachloride	ND	1.02	2.05	U
107-06-2	1,2-Dichloroethane	ND	1.02	2.05	U
71-43-2	Benzene	ND	1.02	2.05	U
79-01-6	Trichloroethene	ND	1.02	2.05	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 12:33	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 5035A	File ID:	A8882.D
Prep Batch:	B6H0217	Sequence:	S6H0203	Analyzed:	08/02/16 12:33
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.02	2.05	U
75-27-4	Bromodichloromethane	ND	1.02	2.05	U
74-95-3	Dibromomethane	ND	1.02	2.05	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.02	2.05	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.02	2.05	U
108-88-3	Toluene	ND	1.02	2.05	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.02	2.05	U
79-00-5	1,1,2-Trichloroethane	ND	1.02	2.05	U
108-10-1	4-Methyl-2-pentanone	ND	1.02	2.05	U
106-93-4	1,2-Dibromoethane	ND	1.02	2.05	U
591-78-6	2-Hexanone	ND	1.02	2.05	U
142-28-9	1,3-Dichloropropane	ND	1.02	2.05	U
127-18-4	Tetrachloroethene	ND	1.02	2.05	U
124-48-1	Dibromochloromethane	ND	1.02	2.05	U
100-41-4	Ethylbenzene	ND	1.02	2.05	U
108-90-7	Chlorobenzene	ND	1.02	2.05	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.02	2.05	U
108-38-3/106-42	m,p-Xylenes	ND	2.05	4.09	U
95-47-6	o-Xylene	ND	2.05	4.09	U
100-42-5	Styrene	ND	1.02	4.09	U
75-25-2	Bromoform	ND	1.02	2.05	U
98-82-8	Isopropylbenzene	ND	1.02	2.05	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.02	2.05	U
96-18-4	1,2,3-Trichloropropane	ND	1.02	2.05	U
103-65-1	n-Propyl Benzene	ND	1.02	2.05	U
108-86-1	Bromobenzene	ND	1.02	2.05	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Prep Date:	08/02/16 12:33	Matrix:	Soil
Percent Solids:	85.10	Prep Method:	EPA 5035A	File ID:	A8882.D
Prep Batch:	B6H0217	Sequence:	S6H0203	Analyzed:	08/02/16 12:33
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.02	2.05	U
95-49-8	2-Chlorotoluene	ND	1.02	2.05	U
106-43-4	4-Chlorotoluene	ND	1.02	2.05	U
98-06-6	tert-Butylbenzene	ND	1.02	2.05	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.02	2.05	U
135-98-8	sec-Butylbenzene	ND	1.02	2.05	U
99-87-6	p-Isopropyltoluene	ND	1.02	2.05	U
541-73-1	1,3-Dichlorobenzene	ND	1.02	2.05	U
106-46-7	1,4-Dichlorobenzene	ND	1.02	2.05	U
104-51-8	n-Butyl Benzene	ND	1.02	2.05	U
95-50-1	1,2-Dichlorobenzene	ND	1.02	2.05	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.02	2.05	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.02	2.05	U
87-68-3	Hexachlorobutadiene	ND	1.02	2.05	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.02	2.05	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	106%	70-130
Toluene-d8	103%	70-130
Bromofluorobenzene	102%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Matrix:	Soil
Percent Solids:	85.10	File ID:	080216A-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	7880	15.7	15.7	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0881	0.0881	1	U	08/04/16 07:42	EPA 7471A	08/04/16 12:14 PRT	EPA 7471
7440-36-0	Antimony	ND	3.13	3.13	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-38-2	Arsenic	1.46	0.783	0.783	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-39-3	Barium	47.0	15.7	15.7	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.391	0.391	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.391	0.391	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-70-2	Calcium	5810	19.6	19.6	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-47-3	Chromium	15.3	1.57	1.57	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-48-4	Cobalt	6.79	3.91	3.91	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-50-8	Copper	16.9	2.35	2.35	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7439-89-6	Iron	12500	19.6	19.6	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7439-92-1	Lead	8.07	0.783	0.783	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7439-95-4	Magnesium	6980	39.1	39.1	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7439-96-5	Manganese	256	1.57	1.57	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-02-0	Nickel	13.3	3.13	3.13	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-09-7	Potassium	1800	39.1	39.1	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7782-49-2	Selenium	ND	3.13	3.13	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-22-4	Silver	ND	0.391	0.391	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-23-5	Sodium	130	39.1	39.1	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-28-0	Thallium	ND	1.17	2.35	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-62-2	Vanadium	25.1	3.91	3.91	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010
7440-66-6	Zinc	40.3	4.70	4.70	1		08/02/16 08:51	EPA 3050B	08/02/16 14:38 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-23
Lab Sample ID: 1601448-01
Project: 255 East 138th Street
Work Order: 1601448

Date Sampled:	08/01/16 11:40	Matrix:	Soil
Percent Solids:	85.10	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	15.3	1.33	1.33	1		08/05/16 09:06	[CALC]	08/08/16 15:35 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.35	2.35	1	U	08/05/16 09:06	SW 846 3060A	08/08/16 15:35 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.18	1.18	1	U	08/03/16 11:12	EPA 9010C	08/03/16 17:08 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	85.1	0.100	0.100	1		08/03/16 11:00	Percent Solids	08/04/16 13:16 RMK	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

31 August 2016 AAR Work Order: 1601618

Sean Harrison
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 255 E. 138th Street

Enclosed are the results of analyses for samples received by the laboratory on 08/24/2016 14:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/31/2016 14:59

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-24	1601618-01	Soil	08/24/2016 12:10	08/24/2016 14:05

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/31/2016 14:59

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/31/2016 14:59

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/31/2016 14:59

Client ID: EP-24

Lab ID: 1601618-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
Sample Prepared by Method:EPA 5035A										
107-02-8	Acrolein	ND	7.68	12.8	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.56	12.8	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
67-64-1	**Acetone**	**36.7**	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
78-93-3	**2-Butanone**	**8.23**	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
71-43-2	Benzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/31/2016 14:59

Client ID: EP-24

Lab ID: 1601618-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
108-88-3	Toluene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.56	5.12	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.56	5.12	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
100-42-5	Styrene	ND	1.28	5.12	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/31/2016 14:59

Client ID: EP-24

Lab ID: 1601618-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.28	2.56	ug/kg dry	1	08/25/16 17:17	08/25/16 17:17/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*100 %*	*70-130*		*08/25/16 17:17*	*08/25/16 17:17/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*106 %*	*70-130*		*08/25/16 17:17*	*08/25/16 17:17/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*91 %*	*70-130*		*08/25/16 17:17*	*08/25/16 17:17/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
108-95-2	Phenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U

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1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/31/2016 14:59

Client ID: EP-24

Lab ID: 1601618-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
78-59-1	Isophorone	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	101	404	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	40.4	404	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U

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1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/31/2016 14:59

Client ID: EP-24

Lab ID: 1601618-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
86-73-7	Fluorene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
120-12-7	Anthracene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
129-00-0	Pyrene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	101	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
218-01-9	Chrysene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	40.4	203	ug/kg dry	1	08/26/16 05:30	08/26/16 19:07/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*70 %*	*30-130*		*08/26/16 05:30*	*08/26/16 19:07/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*72 %*	*30-130*		*08/26/16 05:30*	*08/26/16 19:07/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*72 %*	*30-130*		*08/26/16 05:30*	*08/26/16 19:07/JMM*	*EPA 8270*	

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1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/31/2016 14:59

Client ID: EP-24

Lab ID: 1601618-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Surrogate: 2-Fluorobiphenyl				*65 %*	*30-130*		*08/26/16 05:30*	*08/26/16 19:07/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*77 %*	*30-130*		*08/26/16 05:30*	*08/26/16 19:07/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*85 %*	*30-130*		*08/26/16 05:30*	*08/26/16 19:07/JMM*	*EPA 8270*	

EPA Method SW846 8081/8082

Sample Prepared by Method:EPA 3550B

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
319-84-6	alpha-BHC	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.43	8.08	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.61	1.61	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.801	0.801	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	40.4	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U

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Client ID: EP-24

Lab ID: 1601618-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	20.1	40.4	ug/kg dry	1	08/25/16 10:21	08/26/16 21:22/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*55.3 %*	*30-150*		*08/25/16 10:21*	*08/26/16 21:22/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*85.3 %*	*30-150*		*08/25/16 10:21*	*08/26/16 21:22/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*72.9 %*	*30-150*		*08/25/16 10:21*	*08/26/16 21:22/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*88.7 %*	*30-150*		*08/25/16 10:21*	*08/26/16 21:22/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**12600**	24.2	24.2	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-36-0	Antimony	ND	4.84	4.84	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	U
7440-38-2	**Arsenic**	**2.29**	1.21	1.21	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-39-3	**Barium**	**64.0**	24.2	24.2	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-41-7	Beryllium	ND	0.605	0.605	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	U
7440-43-9	Cadmium	ND	0.605	0.605	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	U
7440-70-2	**Calcium**	**1630**	30.2	30.2	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-47-3	**Chromium**	**15.5**	2.42	2.42	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-48-4	**Cobalt**	**6.61**	6.05	6.05	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-50-8	**Copper**	**10.1**	3.63	3.63	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7439-89-6	**Iron**	**14400**	30.2	30.2	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7439-92-1	**Lead**	**12.9**	1.21	1.21	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7439-95-4	**Magnesium**	**3030**	60.5	60.5	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7439-96-5	**Manganese**	**418**	2.42	2.42	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	08/31/2016 14:59

Client ID: EP-24

Lab ID: 1601618-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**12.4**	4.84	4.84	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-09-7	**Potassium**	**690**	60.5	60.5	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7782-49-2	Selenium	ND	4.84	4.84	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	U
7440-22-4	Silver	ND	0.605	0.605	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	U
7440-23-5	**Sodium**	**89.3**	60.5	60.5	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-28-0	Thallium	ND	1.81	3.63	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	U
7440-62-2	**Vanadium**	**21.1**	6.05	6.05	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
7440-66-6	**Zinc**	**41.4**	7.26	7.26	mg/kg dry	1	08/26/16 07:14	08/26/16 14:45/RMK	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.0910	0.0910	mg/kg dry	1	08/26/16 07:17	08/26/16 13:58/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**15.5**	1.99	1.99	mg/kg dry	1	08/26/16 08:47	08/27/16 13:36/NNM	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.21	1.21	mg/kg dry	1	08/29/16 11:48	08/29/16 17:06/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**82.4**	0.100	0.100	%	1	08/26/16 09:30	08/29/16 09:19/CLD	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.43	2.43	mg/kg dry	1	08/26/16 08:47	08/27/16 13:36/NNM	EPA 7196A	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 E. 138th St.
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	16J1618
P.O. #	10BB188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-24	8/24/16 1240	S	10-11	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYS DEC Catagory B Data Deliverables. Hard copy due 4 weeks from today: 8/24/16

COOLER TEMP: 4°C

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SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8 / 24 / 16 Time: 1405		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Ti	

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601635

Client Sample ID:	Lab Sample ID:
EP-25	1601635-01

This data has been reviewed and accepted by:

Daniel Miguel 08/29/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Accredited Analytical Resources, LLC.

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601635**

Received: 8/24/16 14:05

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
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Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1601635
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	TCL Chrom	AAR SAMPLE #
EP-25	8/24/16 1040	S		4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data Deliverables. Hard Copy due 4 weeks from today, 8/24/16. DO NOT RUN. Until authorized by email

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8/24/16	Time: 1405	Date Received: / /	Time:
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Page 1 of ____

CHAIN OF CUSTODY FORM

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CLIENT NAME:	Brinkerhoff Environmental
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STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	TCL Chrom	AAR SAMPLE #
EP-25	8/24/16 1040	SW		4	G	X	X	X	

Please analyze sample with a 48-hour TAT.
SH 8/25/2016

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverables. Hard Copy due 4 weeks from today, 8/24/16. DO NOT RUN, Until authorized

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PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus by email SIGN: [signature]

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RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8/24/16	Time: 1405	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-25	1601635-01	Soil	08/24/2016 10:40	08/24/2016 14:05

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/25/16 15:16	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 3550B	File ID:	A22871.D
Prep Batch:	B6H2506	Sequence:	S6H2602	Analyzed:	08/26/16 16:00
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.724	0.724	U
319-85-7	beta-BHC	ND	0.724	0.724	U
319-86-8	delta-BHC	ND	0.724	0.724	U
58-89-9	gamma-BHC [Lindane]	ND	0.724	0.724	U
76-44-8	Heptachlor	ND	0.724	0.724	U
309-00-2	Aldrin	ND	0.724	0.724	U
1024-57-3	Heptachlor Epoxide	ND	0.724	0.724	U
959-98-8	Endosulfan I	ND	0.724	0.724	U
60-57-1	Dieldrin	ND	1.46	1.46	U
72-55-9	4,4'-DDE	ND	1.46	1.46	U
72-20-8	Endrin	ND	1.46	1.46	U
33213-65-9	Endosulfan II	ND	1.46	1.46	U
72-54-8	4,4'-DDD	ND	1.46	1.46	U
1031-07-8	Endosulfan sulfate	ND	1.46	1.46	U
50-29-3	4,4'-DDT	ND	1.46	1.46	U
72-43-5	Methoxychlor	ND	2.19	7.30	U
53494-70-5	Endrin ketone	ND	1.46	1.46	U
7421-93-4	Endrin aldehyde	ND	1.46	1.46	U
5103-71-9	alpha-Chlordane	ND	0.724	0.724	U
5566-34-7	gamma-Chlordane	ND	0.724	0.724	U
8001-35-2	Toxaphene	ND	36.5	36.5	U
12674-11-2	Aroclor-1016	ND	18.2	36.5	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/25/16 15:16	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 3550B	File ID:	A22871.D
Prep Batch:	B6H2506	Sequence:	S6H2602	Analyzed:	08/26/16 16:00
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	18.2	36.5	U
11141-16-5	Aroclor-1232	ND	18.2	36.5	U
53469-21-9	Aroclor-1242	ND	18.2	36.5	U
12672-29-6	Aroclor-1248	ND	18.2	36.5	U
11097-69-1	Aroclor-1254	ND	18.2	36.5	U
11096-82-5	Aroclor-1260	ND	18.2	36.5	U
37324-23-5	Aroclor-1262	ND	18.2	36.5	U
11100-14-4	Aroclor-1268	ND	18.2	36.5	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	65.9%	30-150
Tetrachloro-m-xylene [2C]	78.2%	30-150
Decachlorobiphenyl	90.7%	30-150
Decachlorobiphenyl [2C]	98.3%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

SEMIVOLATILES

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/26/16 05:30	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 3550B GCMS	File ID:	F14109.D
Prep Batch:	B6H2601	Sequence:	S6H2609	Analyzed:	08/26/16 18:21
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	36.5	183	U
108-95-2	Phenol	ND	36.5	183	U
111-44-4	bis(2-chloroethyl)ether	ND	36.5	183	U
95-57-8	2-Chlorophenol	ND	36.5	183	U
541-73-1	1,3-Dichlorobenzene	ND	36.5	183	U
106-46-7	1,4-Dichlorobenzene	ND	36.5	183	U
100-51-6	Benzyl alcohol	ND	36.5	183	U
95-50-1	1,2-Dichlorobenzene	ND	36.5	183	U
95-48-7	2-Methylphenol	ND	36.5	183	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	36.5	183	U
106-44-5	3 & 4-Methylphenol	ND	36.5	183	U
621-64-7	N-Nitroso-di-n-propylamine	ND	36.5	183	U
67-72-1	Hexachloroethane	ND	36.5	183	U
98-95-3	Nitrobenzene	ND	36.5	183	U
78-59-1	Isophorone	ND	36.5	183	U
88-75-5	2-Nitrophenol	ND	36.5	183	U
105-67-9	2,4-Dimethylphenol	ND	36.5	183	U
65-85-0	Benzoic acid	ND	91.0	365	U
111-91-1	bis(2-chloroethoxy)methane	ND	36.5	183	U
120-83-2	2,4-Dichlorophenol	ND	36.5	183	U
120-82-1	1,2,4-Trichlorobenzene	ND	36.5	183	U
91-20-3	Naphthalene	ND	36.5	183	U
106-47-8	4-Chloroaniline	ND	36.5	183	U
87-68-3	Hexachlorobutadiene	ND	36.5	183	U
59-50-7	4-Chloro-3-methylphenol	ND	36.5	183	U
91-57-6	2-Methylnaphthylene	ND	36.5	183	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/26/16 05:30	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 3550B GCMS	File ID:	F14109.D
Prep Batch:	B6H2601	Sequence:	S6H2609	Analyzed:	08/26/16 18:21
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	36.5	183	U
88-06-2	2,4,6-Trichlorophenol	ND	36.5	183	U
95-95-4	2,4,5-Trichlorophenol	ND	36.5	183	U
91-58-7	2-Chloronaphthalene	ND	36.5	183	U
88-74-4	2-Nitroaniline	ND	36.5	183	U
131-11-3	Dimethylphthalate	ND	36.5	183	U
208-96-8	Acenaphthylene	ND	36.5	183	U
99-09-2	3-Nitroaniline	ND	36.5	183	U
83-32-9	Acenaphthene	ND	36.5	183	U
51-28-5	2,4-Dinitrophenol	ND	36.5	365	U
100-02-7	4-Nitrophenol	ND	36.5	183	U
132-64-9	Dibenzofuran	ND	36.5	183	U
606-20-2	2,6-Dinitrotoluene	ND	36.5	183	U
121-14-2	2,4-Dinitrotoluene	ND	36.5	183	U
84-66-2	Diethyl phthalate	ND	36.5	183	U
7005-72-3	4-Chlorophenyl-phenylether	ND	36.5	183	U
86-73-7	Fluorene	ND	36.5	183	U
100-01-6	4-Nitroaniline	ND	36.5	183	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	36.5	183	U
86-30-6	N-Nitrosodiphenylamine	ND	36.5	183	U
101-55-3	4-Bromophenyl-phenylether	ND	36.5	183	U
118-74-1	Hexachlorobenzene	ND	36.5	183	U
87-86-5	Pentachlorophenol	ND	36.5	183	U
85-01-8	Phenanthrene	ND	36.5	183	U
120-12-7	Anthracene	ND	36.5	183	U
84-74-2	Di-n-butyl phthalate	ND	36.5	183	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/26/16 05:30	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 3550B GCMS	File ID:	F14109.D
Prep Batch:	B6H2601	Sequence:	S6H2609	Analyzed:	08/26/16 18:21
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	ND	36.5	183	U
129-00-0	Pyrene	ND	36.5	183	U
85-68-7	Butylbenzylphthalate	ND	36.5	183	U
91-94-1	3,3'-Dichlorobenzidine	ND	91.0	183	U
56-55-3	Benzo[a]anthracene	ND	36.5	183	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	36.5	183	U
218-01-9	Chrysene	ND	36.5	183	U
117-84-0	Di-n-octyl phthalate	ND	36.5	183	U
205-99-2	Benzo[b]fluoranthene	ND	36.5	183	U
207-08-9	Benzo[k]fluoranthene	ND	36.5	183	U
50-32-8	Benzo[a]pyrene	ND	36.5	183	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36.5	183	U
53-70-3	Dibenzo(a,h)anthracene	ND	36.5	183	U
191-24-2	Benzo[ghi]perylene	ND	36.5	183	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	72%	30-130
Phenol-d5	76%	30-130
Nitrobenzene-d5	75%	30-130
2-Fluorobiphenyl	69%	30-130
2,4,6-Tribromophenol	75%	30-130
Terphenyl-d14	91%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/25/16 17:48	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 5035A	File ID:	A9226.D
Prep Batch:	B6H2515	Sequence:	S6H2507	Analyzed:	08/25/16 17:48
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.77	9.62	U
107-13-1	Acrylonitrile	ND	1.92	9.62	U
67-64-1	Acetone	ND	0.962	1.92	U
75-71-8	Dichlorodifluoromethane	ND	0.962	1.92	U
74-87-3	Chloromethane	ND	0.962	1.92	U
75-01-4	Vinyl chloride	ND	0.962	1.92	U
74-83-9	Bromomethane	ND	0.962	1.92	U
75-00-3	Chloroethane	ND	0.962	1.92	U
75-69-4	Trichlorofluoromethane	ND	0.962	1.92	U
75-35-4	1,1-Dichloroethene	ND	0.962	1.92	U
75-15-0	Carbon disulfide	ND	0.962	1.92	U
75-09-2	Methylene Chloride	ND	0.962	1.92	U
156-60-5	trans-1,2-Dichloroethene	ND	0.962	1.92	U
75-34-3	1,1-Dichloroethane	ND	0.962	1.92	U
108-05-4	Vinyl acetate	ND	0.962	1.92	U
590-20-7	2,2-Dichloropropane	ND	0.962	1.92	U
78-93-3	2-Butanone	ND	0.962	1.92	U
156-59-4	cis-1,2-Dichloroethene	ND	0.962	1.92	U
67-66-3	Chloroform	ND	0.962	1.92	U
74-97-5	Bromochloromethane	ND	0.962	1.92	U
71-55-6	1,1,1-Trichloroethane	ND	0.962	1.92	U
563-58-6	1,1-Dichloropropene	ND	0.962	1.92	U
56-23-5	Carbon Tetrachloride	ND	0.962	1.92	U
107-06-2	1,2-Dichloroethane	ND	0.962	1.92	U
71-43-2	Benzene	ND	0.962	1.92	U
79-01-6	Trichloroethene	ND	0.962	1.92	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/25/16 17:48	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 5035A	File ID:	A9226.D
Prep Batch:	B6H2515	Sequence:	S6H2507	Analyzed:	08/25/16 17:48
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.962	1.92	U
75-27-4	Bromodichloromethane	ND	0.962	1.92	U
74-95-3	Dibromomethane	ND	0.962	1.92	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.962	1.92	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.962	1.92	U
108-88-3	Toluene	ND	0.962	1.92	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.962	1.92	U
79-00-5	1,1,2-Trichloroethane	ND	0.962	1.92	U
108-10-1	4-Methyl-2-pentanone	ND	0.962	1.92	U
106-93-4	1,2-Dibromoethane	ND	0.962	1.92	U
591-78-6	2-Hexanone	ND	0.962	1.92	U
142-28-9	1,3-Dichloropropane	ND	0.962	1.92	U
127-18-4	Tetrachloroethene	ND	0.962	1.92	U
124-48-1	Dibromochloromethane	ND	0.962	1.92	U
100-41-4	Ethylbenzene	ND	0.962	1.92	U
108-90-7	Chlorobenzene	ND	0.962	1.92	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.962	1.92	U
108-38-3/106-42	m,p-Xylenes	ND	1.92	3.85	U
95-47-6	o-Xylene	ND	1.92	3.85	U
100-42-5	Styrene	ND	0.962	3.85	U
75-25-2	Bromoform	ND	0.962	1.92	U
98-82-8	Isopropylbenzene	ND	0.962	1.92	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.962	1.92	U
96-18-4	1,2,3-Trichloropropane	ND	0.962	1.92	U
103-65-1	n-Propyl Benzene	ND	0.962	1.92	U
108-86-1	Bromobenzene	ND	0.962	1.92	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Prep Date:	08/25/16 17:48	Matrix:	Soil
Percent Solids:	91.20	Prep Method:	EPA 5035A	File ID:	A9226.D
Prep Batch:	B6H2515	Sequence:	S6H2507	Analyzed:	08/25/16 17:48
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.962	1.92	U
95-49-8	2-Chlorotoluene	ND	0.962	1.92	U
106-43-4	4-Chlorotoluene	ND	0.962	1.92	U
98-06-6	tert-Butylbenzene	ND	0.962	1.92	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.962	1.92	U
135-98-8	sec-Butylbenzene	ND	0.962	1.92	U
99-87-6	p-Isopropyltoluene	ND	0.962	1.92	U
541-73-1	1,3-Dichlorobenzene	ND	0.962	1.92	U
106-46-7	1,4-Dichlorobenzene	ND	0.962	1.92	U
104-51-8	n-Butyl Benzene	ND	0.962	1.92	U
95-50-1	1,2-Dichlorobenzene	ND	0.962	1.92	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.962	1.92	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.962	1.92	U
87-68-3	Hexachlorobutadiene	ND	0.962	1.92	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.962	1.92	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	104%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	86%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Matrix:	Soil
Percent Solids:	91.20	File ID:	082616E-035

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	5240	21.8	21.8	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7439-97-6	Mercury	ND	0.0822	0.0822	1	U	08/26/16 07:17	EPA 7471A	08/26/16 14:09 PRT	EPA 7471
7440-36-0	Antimony	ND	4.36	4.36	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-38-2	Arsenic	5.48	1.09	1.09	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-39-3	Barium	37.7	21.8	21.8	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-41-7	Beryllium	ND	0.545	0.545	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-43-9	Cadmium	ND	0.545	0.545	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-70-2	Calcium	43000	27.2	27.2	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-47-3	Chromium	9.20	2.18	2.18	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-48-4	Cobalt	ND	5.45	5.45	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-50-8	Copper	16.2	3.27	3.27	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7439-89-6	Iron	7740	27.2	27.2	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7439-92-1	Lead	11.6	1.09	1.09	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7439-95-4	Magnesium	10700	54.5	54.5	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7439-96-5	Manganese	216	2.18	2.18	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-02-0	Nickel	7.17	4.36	4.36	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-09-7	Potassium	1500	54.5	54.5	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7782-49-2	Selenium	ND	4.36	4.36	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-22-4	Silver	ND	0.545	0.545	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-23-5	Sodium	147	54.5	54.5	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-28-0	Thallium	ND	1.63	3.27	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-62-2	Vanadium	17.1	5.45	5.45	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010
7440-66-6	Zinc	31.6	6.54	6.54	1		08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Matrix:	Soil
Percent Solids:	91.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	9.20	1.99	1.99	1		08/26/16 08:47	[CALC]	08/27/16 13:36 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.19	2.19	1	U	08/26/16 08:47	SW 846 3060A	08/27/16 13:36 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.10	1.10	1	U	08/29/16 11:48	EPA 9010C	08/29/16 17:06 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	91.2	0.100	0.100	1		08/26/16 08:30	Percent Solids	08/29/16 09:23 RMK	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

08 September 2016 AAR Work Order: 1601673

Sean Harrison
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 255 East 138th Street

Enclosed are the results of analyses for samples received by the laboratory on 08/31/2016 14:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/08/2016 11:16

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-26	1601673-01	Soil	08/31/2016 08:56	08/31/2016 14:20

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/08/2016 11:16

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/08/2016 11:16

Client ID: EP-26

Lab ID: 1601673-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
Sample Prepared by Method:EPA 5035A										
107-02-8	Acrolein	ND	6.80	11.3	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.27	11.3	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
67-64-1	**Acetone**	**4.37**	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	B
75-71-8	Dichlorodifluoromethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
71-43-2	Benzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/08/2016 11:16

Client ID: EP-26

Lab ID: 1601673-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
108-88-3	Toluene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.27	4.53	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.27	4.53	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
100-42-5	Styrene	ND	1.13	4.53	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/08/2016 11:16

Client ID: EP-26

Lab ID: 1601673-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.13	2.27	ug/kg dry	1	09/02/16 14:48	09/02/16 14:48/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*111 %*	*70-130*		*09/02/16 14:48*	*09/02/16 14:48/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*98 %*	*70-130*		*09/02/16 14:48*	*09/02/16 14:48/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*86 %*	*70-130*		*09/02/16 14:48*	*09/02/16 14:48/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
108-95-2	Phenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/08/2016 11:16

Client ID: EP-26

Lab ID: 1601673-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
78-59-1	Isophorone	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	95.2	382	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	38.2	382	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/08/2016 11:16

Client ID: EP-26

Lab ID: 1601673-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
7005-72-3	4-Chlorophenyl-phenylether	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
86-73-7	Fluorene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**361**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	
120-12-7	**Anthracene**	**80.7**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**509**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	
129-00-0	**Pyrene**	**565**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	95.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**254**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
218-01-9	**Chrysene**	**265**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	
117-84-0	Di-n-octyl phthalate	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
205-99-2	**Benzo[b]fluoranthene**	**269**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	
207-08-9	**Benzo[k]fluoranthene**	**133**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	J
50-32-8	**Benzo[a]pyrene**	**237**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**86.8**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	J
53-70-3	Dibenzo(a,h)anthracene	ND	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	U
191-24-2	**Benzo[ghi]perylene**	**95.6**	38.2	192	ug/kg dry	1	09/01/16 07:24	09/01/16 21:54/JMM	EPA 8270	J
Surrogate: 2-Fluorophenol				*61 %*	*30-130*		*09/01/16 07:24*	*09/01/16 21:54/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*74 %*	*30-130*		*09/01/16 07:24*	*09/01/16 21:54/JMM*	*EPA 8270*	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/08/2016 11:16

Client ID: EP-26

Lab ID: 1601673-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Nitrobenzene-d5				*80 %*	*30-130*		*09/01/16 07:24*	*09/01/16 21:54/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*74 %*	*30-130*		*09/01/16 07:24*	*09/01/16 21:54/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*26 %*	*30-130*	*	*09/01/16 07:24*	*09/01/16 21:54/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*88 %*	*30-130*		*09/01/16 07:24*	*09/01/16 21:54/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.29	7.64	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.53	1.53	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
5103-71-9	**alpha-Chlordane**	**0.917**	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	
5566-34-7	gamma-Chlordane	ND	0.757	0.757	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	38.2	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/08/2016 11:16

Client ID: EP-26

Lab ID: 1601673-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
11104-28-2	Aroclor-1221	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	19.0	38.2	ug/kg dry	1	09/06/16 05:29	09/06/16 15:02/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*55.5 %*	*30-150*		*09/06/16 05:29*	*09/06/16 15:02/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*61.9 %*	*30-150*		*09/06/16 05:29*	*09/06/16 15:02/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*63.7 %*	*30-150*		*09/06/16 05:29*	*09/06/16 15:02/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*83.8 %*	*30-150*		*09/06/16 05:29*	*09/06/16 15:02/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8250**	22.9	22.9	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-36-0	Antimony	ND	4.59	4.59	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.62**	1.15	1.15	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-39-3	**Barium**	**57.5**	22.9	22.9	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.573	0.573	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	U
7440-43-9	Cadmium	ND	0.573	0.573	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	U
7440-70-2	**Calcium**	**16300**	28.7	28.7	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-47-3	**Chromium**	**15.8**	2.29	2.29	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-48-4	**Cobalt**	**7.86**	5.73	5.73	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-50-8	**Copper**	**32.7**	3.44	3.44	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7439-89-6	**Iron**	**16800**	28.7	28.7	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7439-92-1	**Lead**	**62.8**	1.15	1.15	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7439-95-4	**Magnesium**	**7840**	57.3	57.3	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/08/2016 11:16

Client ID: EP-26

Lab ID: 1601673-01 (Soil)

Accredited Analytical Resources LLC

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
Total Metals by EPA Method SW846 6010										
7439-96-5	**Manganese**	**295**	2.29	2.29	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-02-0	**Nickel**	**13.7**	4.59	4.59	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-09-7	**Potassium**	**1560**	57.3	57.3	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7782-49-2	Selenium	ND	4.59	4.59	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.573	0.573	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	U
7440-23-5	**Sodium**	**228**	57.3	57.3	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.72	3.44	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**23.3**	5.73	5.73	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
7440-66-6	**Zinc**	**71.8**	6.88	6.88	mg/kg dry	1	09/02/16 12:56	09/06/16 15:22/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.0860	0.0860	mg/kg dry	1	09/01/16 12:18	09/02/16 10:44/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**15.8**	2.00	2.00	mg/kg dry	1	09/06/16 12:10	09/07/16 14:37/NNM	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.15	1.15	mg/kg dry	1	08/31/16 15:24	09/07/16 10:28/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**87.2**	0.100	0.100	%	1	09/01/16 13:50	09/02/16 10:53/KMC	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.29	2.29	mg/kg dry	1	09/06/16 12:10	09/07/16 14:37/NNM	EPA 7196A	

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Daniel Miguel, Technical Director

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20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601673
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-26	8/31/16 0856	S	N/A	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverables. Hard Copy report due four (4) weeks from today

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8/31/16 Time: 1400		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601701

Client Sample ID:	Lab Sample ID:
EP-27	1601701-01

This data has been reviewed and accepted by:

Daniel Miguel 09/12/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

Internal Chain of Custody

	Out	In
1601701-01 (A)		
START	9/7/16 15:14 by KI	9/7/16 15:14 by KI
1601701-01 (B)		
START	9/7/16 15:14 by KI	9/7/16 15:14 by KI
1601701-01 (C)		
START	9/7/16 15:14 by KI	9/7/16 15:14 by KI
Wets	9/8/16 12:22 by KMC	9/8/16 12:51 by KMC
Extractions	9/9/16 5:28 by ECS	9/9/16 6:53 by ECS
1601701-01 (D)		
START	9/7/16 15:14 by KI	9/7/16 15:14 by KI
Metals	9/9/16 9:03 by LIT	9/9/16 9:32 by LIT
Walk-In Storage	9/9/16 9:32 by PRT	9/9/16 10:32 by PRT
Wets	9/12/16 9:20 by NNM	by NNM

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601701**

Received: 9/7/16 14:15

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

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CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
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INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey
ZIP:	07756

AAR QUOTE #	
AAR WORK ORDER #	1601701
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-27	9/6/16 1247	S	16'	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 36 hr (IF BLANK STANDARD WILL APPLY) JK 9/7/16
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYS DEC Catagory B Data Deliverables. Hard Copy report due 4 weeks from today.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: B. O'Brien	Print Name:	Print Name:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 9 / 7 / 16 Time: 14:15		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-27	1601701-01	Soil	09/06/2016 12:47	09/07/2016 14:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/09/16 05:25	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 3550B	File ID:	A23027.D
Prep Batch:	B6I0902	Sequence:	S6I0901	Analyzed:	09/09/16 17:09
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.900	0.900	U
319-85-7	beta-BHC	ND	0.900	0.900	U
319-86-8	delta-BHC	ND	0.900	0.900	U
58-89-9	gamma-BHC [Lindane]	ND	0.900	0.900	U
76-44-8	Heptachlor	ND	0.900	0.900	U
309-00-2	Aldrin	ND	0.900	0.900	U
1024-57-3	Heptachlor Epoxide	ND	0.900	0.900	U
959-98-8	Endosulfan I	ND	0.900	0.900	U
60-57-1	Dieldrin	ND	1.81	1.81	U
72-55-9	4,4'-DDE	ND	1.81	1.81	U
72-20-8	Endrin	ND	1.81	1.81	U
33213-65-9	Endosulfan II	ND	1.81	1.81	U
72-54-8	4,4'-DDD	ND	1.81	1.81	U
1031-07-8	Endosulfan sulfate	ND	1.81	1.81	U
50-29-3	4,4'-DDT	ND	1.81	1.81	U
72-43-5	Methoxychlor	ND	2.73	9.09	U
53494-70-5	Endrin ketone	ND	1.81	1.81	U
7421-93-4	Endrin aldehyde	ND	1.81	1.81	U
5103-71-9	alpha-Chlordane	ND	0.900	0.900	U
5566-34-7	gamma-Chlordane	ND	0.900	0.900	U
8001-35-2	Toxaphene	ND	45.4	45.4	U
12674-11-2	Aroclor-1016	ND	22.6	45.4	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/09/16 05:25	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 3550B	File ID:	A23027.D
Prep Batch:	B6I0902	Sequence:	S6I0901	Analyzed:	09/09/16 17:09
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	22.6	45.4	U
11141-16-5	Aroclor-1232	ND	22.6	45.4	U
53469-21-9	Aroclor-1242	ND	22.6	45.4	U
12672-29-6	Aroclor-1248	ND	22.6	45.4	U
11097-69-1	Aroclor-1254	ND	22.6	45.4	U
11096-82-5	Aroclor-1260	ND	22.6	45.4	U
37324-23-5	Aroclor-1262	ND	22.6	45.4	U
11100-14-4	Aroclor-1268	ND	22.6	45.4	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	56.7%	30-150
Tetrachloro-m-xylene [2C]	69.5%	30-150
Decachlorobiphenyl	72.4%	30-150
Decachlorobiphenyl [2C]	84.0%	30-150

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RL - Reporting limit

Accredited Analytical Resources, LLC.

SEMIVOLATILES

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/09/16 05:22	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 3550B GCMS	File ID:	F14237.D
Prep Batch:	B6I0901	Sequence:	S6I0915	Analyzed:	09/09/16 23:17
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	45.4	228	U
108-95-2	Phenol	ND	45.4	228	U
111-44-4	bis(2-chloroethyl)ether	ND	45.4	228	U
95-57-8	2-Chlorophenol	ND	45.4	228	U
541-73-1	1,3-Dichlorobenzene	ND	45.4	228	U
106-46-7	1,4-Dichlorobenzene	ND	45.4	228	U
100-51-6	Benzyl alcohol	ND	45.4	228	U
95-50-1	1,2-Dichlorobenzene	ND	45.4	228	U
95-48-7	2-Methylphenol	ND	45.4	228	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	45.4	228	U
106-44-5	3 & 4-Methylphenol	ND	45.4	228	U
621-64-7	N-Nitroso-di-n-propylamine	ND	45.4	228	U
67-72-1	Hexachloroethane	ND	45.4	228	U
98-95-3	Nitrobenzene	ND	45.4	228	U
78-59-1	Isophorone	ND	45.4	228	U
88-75-5	2-Nitrophenol	ND	45.4	228	U
105-67-9	2,4-Dimethylphenol	ND	45.4	228	U
65-85-0	Benzoic acid	ND	113	454	U
111-91-1	bis(2-chloroethoxy)methane	ND	45.4	228	U
120-83-2	2,4-Dichlorophenol	ND	45.4	228	U
120-82-1	1,2,4-Trichlorobenzene	ND	45.4	228	U
91-20-3	Naphthalene	ND	45.4	228	U
106-47-8	4-Chloroaniline	ND	45.4	228	U
87-68-3	Hexachlorobutadiene	ND	45.4	228	U
59-50-7	4-Chloro-3-methylphenol	ND	45.4	228	U
91-57-6	2-Methylnaphthylene	ND	45.4	228	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/09/16 05:22	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 3550B GCMS	File ID:	F14237.D
Prep Batch:	B6I0901	Sequence:	S6I0915	Analyzed:	09/09/16 23:17
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	45.4	228	U
88-06-2	2,4,6-Trichlorophenol	ND	45.4	228	U
95-95-4	2,4,5-Trichlorophenol	ND	45.4	228	U
91-58-7	2-Chloronaphthalene	ND	45.4	228	U
88-74-4	2-Nitroaniline	ND	45.4	228	U
131-11-3	Dimethylphthalate	ND	45.4	228	U
208-96-8	Acenaphthylene	ND	45.4	228	U
99-09-2	3-Nitroaniline	ND	45.4	228	U
83-32-9	Acenaphthene	ND	45.4	228	U
51-28-5	2,4-Dinitrophenol	ND	45.4	454	U
100-02-7	4-Nitrophenol	ND	45.4	228	U
132-64-9	Dibenzofuran	ND	45.4	228	U
606-20-2	2,6-Dinitrotoluene	ND	45.4	228	U
121-14-2	2,4-Dinitrotoluene	ND	45.4	228	U
84-66-2	Diethyl phthalate	ND	45.4	228	U
7005-72-3	4-Chlorophenyl-phenylether	ND	45.4	228	U
86-73-7	Fluorene	ND	45.4	228	U
100-01-6	4-Nitroaniline	ND	45.4	228	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	45.4	228	U
86-30-6	N-Nitrosodiphenylamine	ND	45.4	228	U
101-55-3	4-Bromophenyl-phenylether	ND	45.4	228	U
118-74-1	Hexachlorobenzene	ND	45.4	228	U
87-86-5	Pentachlorophenol	ND	45.4	228	U
85-01-8	Phenanthrene	118	45.4	228	J
120-12-7	Anthracene	ND	45.4	228	U
84-74-2	Di-n-butyl phthalate	ND	45.4	228	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/09/16 05:22	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 3550B GCMS	File ID:	F14237.D
Prep Batch:	B6I0901	Sequence:	S6I0915	Analyzed:	09/09/16 23:17
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	178	45.4	228	J
129-00-0	Pyrene	162	45.4	228	J
85-68-7	Butylbenzylphthalate	ND	45.4	228	U
91-94-1	3,3'-Dichlorobenzidine	ND	113	228	U
56-55-3	Benzo[a]anthracene	84.6	45.4	228	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	45.4	228	U
218-01-9	Chrysene	94.1	45.4	228	J
117-84-0	Di-n-octyl phthalate	ND	45.4	228	U
205-99-2	Benzo[b]fluoranthene	99.6	45.4	228	J
207-08-9	Benzo[k]fluoranthene	ND	45.4	228	U
50-32-8	Benzo[a]pyrene	77.3	45.4	228	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	45.4	228	U
53-70-3	Dibenzo(a,h)anthracene	ND	45.4	228	U
191-24-2	Benzo[ghi]perylene	ND	45.4	228	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	93%	30-130
Phenol-d5	92%	30-130
Nitrobenzene-d5	52%	30-130
2-Fluorobiphenyl	51%	30-130
2,4,6-Tribromophenol	94%	30-130
Terphenyl-d14	92%	30-130

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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/08/16 15:03	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 5035A	File ID:	A9386.D
Prep Batch:	B6I0815	Sequence:	S6I0807	Analyzed:	09/08/16 15:03
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	8.42	14.0	U
107-13-1	Acrylonitrile	ND	2.81	14.0	U
67-64-1	Acetone	8.27	1.40	2.81	
75-71-8	Dichlorodifluoromethane	ND	1.40	2.81	U
74-87-3	Chloromethane	ND	1.40	2.81	U
75-01-4	Vinyl chloride	ND	1.40	2.81	U
74-83-9	Bromomethane	ND	1.40	2.81	U
75-00-3	Chloroethane	ND	1.40	2.81	U
75-69-4	Trichlorofluoromethane	ND	1.40	2.81	U
75-35-4	1,1-Dichloroethene	ND	1.40	2.81	U
75-15-0	Carbon disulfide	ND	1.40	2.81	U
75-09-2	Methylene Chloride	ND	1.40	2.81	U
156-60-5	trans-1,2-Dichloroethene	ND	1.40	2.81	U
75-34-3	1,1-Dichloroethane	ND	1.40	2.81	U
108-05-4	Vinyl acetate	ND	1.40	2.81	U
590-20-7	2,2-Dichloropropane	ND	1.40	2.81	U
78-93-3	2-Butanone	ND	1.40	2.81	U
156-59-4	cis-1,2-Dichloroethene	ND	1.40	2.81	U
67-66-3	Chloroform	ND	1.40	2.81	U
74-97-5	Bromochloromethane	ND	1.40	2.81	U
71-55-6	1,1,1-Trichloroethane	ND	1.40	2.81	U
563-58-6	1,1-Dichloropropene	ND	1.40	2.81	U
56-23-5	Carbon Tetrachloride	ND	1.40	2.81	U
107-06-2	1,2-Dichloroethane	ND	1.40	2.81	U
71-43-2	Benzene	ND	1.40	2.81	U
79-01-6	Trichloroethene	ND	1.40	2.81	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/08/16 15:03	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 5035A	File ID:	A9386.D
Prep Batch:	B6I0815	Sequence:	S6I0807	Analyzed:	09/08/16 15:03
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.40	2.81	U
75-27-4	Bromodichloromethane	ND	1.40	2.81	U
74-95-3	Dibromomethane	ND	1.40	2.81	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.40	2.81	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.40	2.81	U
108-88-3	Toluene	ND	1.40	2.81	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.40	2.81	U
79-00-5	1,1,2-Trichloroethane	ND	1.40	2.81	U
108-10-1	4-Methyl-2-pentanone	ND	1.40	2.81	U
106-93-4	1,2-Dibromoethane	ND	1.40	2.81	U
591-78-6	2-Hexanone	ND	1.40	2.81	U
142-28-9	1,3-Dichloropropane	ND	1.40	2.81	U
127-18-4	Tetrachloroethene	ND	1.40	2.81	U
124-48-1	Dibromochloromethane	ND	1.40	2.81	U
100-41-4	Ethylbenzene	ND	1.40	2.81	U
108-90-7	Chlorobenzene	ND	1.40	2.81	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.40	2.81	U
108-38-3/106-42	m,p-Xylenes	ND	2.81	5.61	U
95-47-6	o-Xylene	ND	2.81	5.61	U
100-42-5	Styrene	ND	1.40	5.61	U
75-25-2	Bromoform	ND	1.40	2.81	U
98-82-8	Isopropylbenzene	ND	1.40	2.81	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.40	2.81	U
96-18-4	1,2,3-Trichloropropane	ND	1.40	2.81	U
103-65-1	n-Propyl Benzene	ND	1.40	2.81	U
108-86-1	Bromobenzene	ND	1.40	2.81	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Prep Date:	09/08/16 15:03	Matrix:	Soil
Percent Solids:	73.30	Prep Method:	EPA 5035A	File ID:	A9386.D
Prep Batch:	B6I0815	Sequence:	S6I0807	Analyzed:	09/08/16 15:03
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.40	2.81	U
95-49-8	2-Chlorotoluene	ND	1.40	2.81	U
106-43-4	4-Chlorotoluene	ND	1.40	2.81	U
98-06-6	tert-Butylbenzene	ND	1.40	2.81	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.40	2.81	U
135-98-8	sec-Butylbenzene	ND	1.40	2.81	U
99-87-6	p-Isopropyltoluene	ND	1.40	2.81	U
541-73-1	1,3-Dichlorobenzene	ND	1.40	2.81	U
106-46-7	1,4-Dichlorobenzene	ND	1.40	2.81	U
104-51-8	n-Butyl Benzene	ND	1.40	2.81	U
95-50-1	1,2-Dichlorobenzene	ND	1.40	2.81	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.40	2.81	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.40	2.81	U
87-68-3	Hexachlorobutadiene	ND	1.40	2.81	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.40	2.81	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	109%	70-130
Toluene-d8	95%	70-130
Bromofluorobenzene	89%	70-130

* Values outside of QC limits
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U - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank

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RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Matrix:	Soil
Percent Solids:	73.30	File ID:	091216A-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10600	20.2	20.2	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7439-97-6	Mercury	0.164	0.102	0.102	1		09/09/16 09:31	EPA 7471A	09/09/16 12:07 PRT	EPA 7471
7440-36-0	Antimony	ND	4.04	4.04	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-38-2	Arsenic	2.53	1.01	1.01	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-39-3	Barium	58.5	20.2	20.2	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.505	0.505	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-43-9	Cadmium	0.890	0.505	0.505	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-70-2	Calcium	11800	25.2	25.2	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-47-3	Chromium	17.0	2.02	2.02	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-48-4	Cobalt	8.34	5.05	5.05	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-50-8	Copper	18.9	3.03	3.03	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7439-89-6	Iron	15200	25.2	25.2	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7439-92-1	Lead	31.0	1.01	1.01	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7439-95-4	Magnesium	8860	50.5	50.5	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7439-96-5	Manganese	473	2.02	2.02	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-02-0	Nickel	14.1	4.04	4.04	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-09-7	Potassium	1410	50.5	50.5	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7782-49-2	Selenium	ND	4.04	4.04	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-22-4	Silver	ND	0.505	0.505	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-23-5	Sodium	201	50.5	50.5	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-28-0	Thallium	ND	1.51	3.03	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-62-2	Vanadium	25.6	5.05	5.05	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010
7440-66-6	Zinc	55.1	6.06	6.06	1		09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled: 09/06/16 12:47 Matrix: Soil
Percent Solids: 73.30 File ID:

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	17.0	1.48	1.48	1		09/12/16 09:31	[CALC]	09/12/16 17:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.73	2.73	1	U	09/12/16 09:31	SW 846 3060A	09/12/16 17:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.36	1.36	1	U	09/12/16 09:24	EPA 9010C	09/12/16 15:07 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	73.3	0.100	0.100	1		09/08/16 12:20	Percent Solids	09/09/16 09:44 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

16 September 2016 AAR Work Order: 1601734

Sean Harrison
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 255 East 138th Street

Enclosed are the results of analyses for samples received by the laboratory on 09/09/2016 14:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 08:20

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-28	1601734-01	Soil	09/09/2016 09:30	09/09/2016 14:20

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 08:20

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 08:20

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 08:20

Client ID: EP-28

Lab ID: 1601734-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	7.28	12.1	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.43	12.1	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
67-64-1	**Acetone**	**60.8**	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
78-93-3	**2-Butanone**	**17.1**	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
71-43-2	Benzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 08:20

Client ID: EP-28

Lab ID: 1601734-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
108-88-3	Toluene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.43	4.85	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.43	4.85	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
100-42-5	Styrene	ND	1.21	4.85	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 08:20

Client ID: EP-28

Lab ID: 1601734-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.21	2.43	ug/kg dry	1	09/09/16 20:19	09/09/16 20:19/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*109 %*	*70-130*		*09/09/16 20:19*	*09/09/16 20:19/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*97 %*	*70-130*		*09/09/16 20:19*	*09/09/16 20:19/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*86 %*	*70-130*		*09/09/16 20:19*	*09/09/16 20:19/SG*	*EPA 8260*	

Semivolatile Organic Compounds EPA Method SW846 8270

Sample Prepared by Method:EPA 3550B GCMS

62-75-9	N-Nitrosodimethylamine	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
108-95-2	Phenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 08:20

Client ID: EP-28

Lab ID: 1601734-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
78-59-1	Isophorone	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	97.3	390	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	39.0	390	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U

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Daniel Miguel, Technical Director

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 08:20

Client ID: EP-28

Lab ID: 1601734-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
86-73-7	Fluorene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
85-01-8	Phenanthrene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
120-12-7	Anthracene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
84-74-2	Di-n-butyl phthalate	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
206-44-0	Fluoranthene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
129-00-0	Pyrene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
85-68-7	Butylbenzylphthalate	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	97.3	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
56-55-3	Benzo[a]anthracene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
218-01-9	Chrysene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
117-84-0	Di-n-octyl phthalate	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
205-99-2	Benzo[b]fluoranthene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
207-08-9	Benzo[k]fluoranthene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
50-32-8	Benzo[a]pyrene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
53-70-3	Dibenzo(a,h)anthracene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
191-24-2	Benzo[ghi]perylene	ND	39.0	196	ug/kg dry	1	09/12/16 05:32	09/12/16 18:09/JMM	EPA 8270	U
Surrogate: 2-Fluorophenol				*73 %*	*30-130*		*09/12/16 05:32*	*09/12/16 18:09/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*73 %*	*30-130*		*09/12/16 05:32*	*09/12/16 18:09/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*77 %*	*30-130*		*09/12/16 05:32*	*09/12/16 18:09/JMM*	*EPA 8270*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 08:20

Client ID: EP-28

Lab ID: 1601734-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: 2-Fluorobiphenyl				*68 %*	*30-130*		*09/12/16 05:32*	*09/12/16 18:09/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*75 %*	*30-130*		*09/12/16 05:32*	*09/12/16 18:09/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*102 %*	*30-130*		*09/12/16 05:32*	*09/12/16 18:09/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.34	7.81	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.56	1.56	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.774	0.774	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	39.0	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 08:20

Client ID: EP-28

Lab ID: 1601734-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
11141-16-5	Aroclor-1232	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	19.5	39.0	ug/kg dry	1	09/12/16 05:36	09/12/16 14:30/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*73.3 %*	*30-150*		*09/12/16 05:36*	*09/12/16 14:30/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*84.5 %*	*30-150*		*09/12/16 05:36*	*09/12/16 14:30/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*91.0 %*	*30-150*		*09/12/16 05:36*	*09/12/16 14:30/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*99.0 %*	*30-150*		*09/12/16 05:36*	*09/12/16 14:30/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**11500**	19.3	19.3	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-36-0	Antimony	ND	3.87	3.87	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.32**	0.967	0.967	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-39-3	**Barium**	**57.3**	19.3	19.3	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.484	0.484	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	U
7440-43-9	**Cadmium**	**0.667**	0.484	0.484	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-70-2	**Calcium**	**4100**	24.2	24.2	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-47-3	**Chromium**	**22.8**	1.93	1.93	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-48-4	**Cobalt**	**9.35**	4.84	4.84	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-50-8	**Copper**	**17.8**	2.90	2.90	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7439-89-6	**Iron**	**18800**	24.2	24.2	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7439-92-1	**Lead**	**13.0**	0.967	0.967	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7439-95-4	**Magnesium**	**7030**	48.4	48.4	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7439-96-5	**Manganese**	**557**	1.93	1.93	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	

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1805 Atlantic Ave.	Project: 255 East 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 08:20

Client ID: EP-28

Lab ID: 1601734-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7440-02-0	**Nickel**	**15.8**	3.87	3.87	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-09-7	**Potassium**	**1840**	48.4	48.4	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7782-49-2	Selenium	ND	3.87	3.87	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.484	0.484	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	U
7440-23-5	**Sodium**	**166**	48.4	48.4	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.45	2.90	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**31.6**	4.84	4.84	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
7440-66-6	**Zinc**	**46.1**	5.80	5.80	mg/kg dry	1	09/12/16 09:18	09/13/16 16:58/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	Mercury	ND	0.0879	0.0879	mg/kg dry	1	09/12/16 08:53	09/12/16 14:22/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**22.8**	1.65	1.65	mg/kg dry	1	09/12/16 09:31	09/13/16 16:58/NNM	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.17	1.17	mg/kg dry	1	09/12/16 09:24	09/12/16 15:07/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**85.3**	0.100	0.100	%	1	09/09/16 16:18	09/12/16 09:37/KMC	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.34	2.34	mg/kg dry	1	09/12/16 09:31	09/12/16 17:08/NNM	EPA 7196A	

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Accredited Analytical Resources, LLC.
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CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732) 223-2225
OFFICE FAX #	(732) 223-36664
INITIAL RESULTS TO:	sharrison@brinkenv.com
EMAIL FOR INVOICE:	same

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601734
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hexchrom	Tri Chrom	AAR SAMPLE #
EP-28	9/9/16 1330	S	9-10	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE) STANDARD (5 DAY) 72 HRS. 48 HRS. 24 HRS. OTHER _____ (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverables. Hard Copy Report due four(4) weeks from today. COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: W. K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: X Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 9/9/16	Time: 1420	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

16 September 2016 AAR Work Order: 1601751

Sean Harrison
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736
Project: 255 E. 138th Street

Enclosed are the results of analyses for samples received by the laboratory on 09/13/2016 14:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-29	1601751-01	Soil	09/13/2016 12:10	09/13/2016 14:50
EP-30	1601751-02	Soil	09/13/2016 12:25	09/13/2016 14:50

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
D	Data reported from a dilution
B	Indicates compound found in associated blank
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Methodology Summary

EPA Method SW846 8081/8082:

NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:

NJ 8270C
NY 8270D

Total Mercury by SW846 7471:

NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Wet Chemistry:

Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
Sample Prepared by Method:EPA 5035A										
107-02-8	Acrolein	ND	9.18	15.3	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	3.06	15.3	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
67-64-1	**Acetone**	**91.0**	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
78-93-3	**2-Butanone**	**11.0**	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	
156-59-4	cis-1,2-Dichloroethene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
71-43-2	Benzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
108-88-3	**Toluene**	**2.19**	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
100-41-4	**Ethylbenzene**	**1.99**	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	J
108-90-7	Chlorobenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
108-38-3/106-4	**m,p-Xylenes**	**9.16**	3.06	6.12	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	
95-47-6	**o-Xylene**	**4.44**	3.06	6.12	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	J
100-42-5	Styrene	ND	1.53	6.12	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
108-67-8	**1,3,5-Trimethylbenzene**	**2.84**	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	J
95-49-8	2-Chlorotoluene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
98-06-6	tert-Butylbenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
95-63-6	**1,2,4-Trimethylbenzene**	**8.90**	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	
135-98-8	sec-Butylbenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.53	3.06	ug/kg dry	1	09/13/16 20:19	09/13/16 20:19/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*115 %*	*70-130*		*09/13/16 20:19*	*09/13/16 20:19/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*97 %*	*70-130*		*09/13/16 20:19*	*09/13/16 20:19/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*93 %*	*70-130*		*09/13/16 20:19*	*09/13/16 20:19/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
108-95-2	**Phenol**	**164**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
111-44-4	bis(2-chloroethyl)ether	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
106-44-5	3 & 4-Methylphenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
67-72-1	Hexachloroethane	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
78-59-1	Isophorone	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	119	476	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
91-20-3	**Naphthalene**	**51.4**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
106-47-8	4-Chloroaniline	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
83-32-9	**Acenaphthene**	**79.5**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
51-28-5	2,4-Dinitrophenol	ND	47.6	476	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
606-20-2	2,6-Dinitrotoluene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
7005-72-3	4-Chlorophenyl-phenylether	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
86-73-7	**Fluorene**	**72.4**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
100-01-6	4-Nitroaniline	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**1020**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	
120-12-7	**Anthracene**	**135**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**1150**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	
129-00-0	**Pyrene**	**933**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	119	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**420**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	
117-81-7	**bis(2-ethylhexyl)phthalate**	**142**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
218-01-9	**Chrysene**	**486**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	
117-84-0	Di-n-octyl phthalate	ND	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	U
205-99-2	**Benzo[b]fluoranthene**	**525**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	
207-08-9	**Benzo[k]fluoranthene**	**189**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
50-32-8	**Benzo[a]pyrene**	**387**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**200**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
53-70-3	**Dibenzo(a,h)anthracene**	**55.2**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
191-24-2	**Benzo[ghi]perylene**	**212**	47.6	239	ug/kg dry	1	09/14/16 05:36	09/15/16 19:20/JMM	EPA 8270	J
Surrogate: 2-Fluorophenol				*38 %*	*30-130*		*09/14/16 05:36*	*09/15/16 19:20/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*51 %*	*30-130*		*09/14/16 05:36*	*09/15/16 19:20/JMM*	*EPA 8270*	
Surrogate: Nitrobenzene-d5				*53 %*	*30-130*		*09/14/16 05:36*	*09/15/16 19:20/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*54 %*	*30-130*		*09/14/16 05:36*	*09/15/16 19:20/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*10 %*	*30-130*	*	*09/14/16 05:36*	*09/15/16 19:20/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*87 %*	*30-130*		*09/14/16 05:36*	*09/15/16 19:20/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.86	9.51	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.90	1.90	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
5566-34-7	gamma-Chlordane	ND	0.943	0.943	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	47.6	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
11104-28-2	Aroclor-1221	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	23.7	47.6	ug/kg dry	1	09/14/16 05:34	09/14/16 15:50/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*73.3 %*	*30-150*		*09/14/16 05:34*	*09/14/16 15:50/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*85.8 %*	*30-150*		*09/14/16 05:34*	*09/14/16 15:50/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*90.2 %*	*30-150*		*09/14/16 05:34*	*09/14/16 15:50/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*115 %*	*30-150*		*09/14/16 05:34*	*09/14/16 15:50/JAM*	*EPA 8081/8082*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

Accredited Analytical Resources LLC

Total Metals by EPA Method SW846 6010

Sample Prepared by Method:EPA 3050B

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7429-90-5	**Aluminum**	**9540**	16.9	16.9	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-36-0	Antimony	ND	3.37	3.37	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**4.18**	0.843	0.843	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-39-3	**Barium**	**70.9**	16.9	16.9	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.421	0.421	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	U
7440-43-9	**Cadmium**	**0.886**	0.421	0.421	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-70-2	**Calcium**	**30600**	527	527	mg/kg dry	25	09/13/16 14:59	09/14/16 11:22/LIT	EPA 6010	D
7440-47-3	**Chromium**	**18.2**	1.69	1.69	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-48-4	**Cobalt**	**7.75**	4.21	4.21	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-50-8	**Copper**	**31.7**	2.53	2.53	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7439-89-6	**Iron**	**17900**	21.1	21.1	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7439-92-1	**Lead**	**65.6**	0.843	0.843	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7439-95-4	**Magnesium**	**10900**	42.1	42.1	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7439-96-5	**Manganese**	**307**	1.69	1.69	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-02-0	**Nickel**	**15.6**	3.37	3.37	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-09-7	**Potassium**	**1750**	42.1	42.1	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7782-49-2	Selenium	ND	3.37	3.37	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.421	0.421	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	U
7440-23-5	**Sodium**	**355**	42.1	42.1	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.26	2.53	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**23.6**	4.21	4.21	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	
7440-66-6	**Zinc**	**74.5**	5.06	5.06	mg/kg dry	1	09/13/16 14:59	09/13/16 19:26/LIT	EPA 6010	

Total Mercury by SW846 7471

Sample Prepared by Method:EPA 7471A

7439-97-6	**Mercury**	**0.149**	0.107	0.107	mg/kg dry	1	09/15/16 08:08	09/15/16 11:45/PRT	EPA 7471	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-29

Lab ID: 1601751-01 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**18.2**	1.18	1.18	mg/kg dry	1	09/13/16 15:42	09/14/16 17:12/NNM	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.43	1.43	mg/kg dry	1	09/13/16 15:41	09/13/16 17:44/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**70.0**	0.100	0.100	%	1	09/14/16 09:41	09/15/16 10:45/KMC	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.86	2.86	mg/kg dry	1	09/13/16 15:42	09/14/16 17:12/NNM	EPA 7196A	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-30

Lab ID: 1601751-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5035A

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	7.50	12.5	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.50	12.5	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
67-64-1	**Acetone**	**23.4**	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	
75-71-8	Dichlorodifluoromethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
78-93-3	2-Butanone	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
67-66-3	Chloroform	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
71-43-2	Benzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-30

Lab ID: 1601751-02 (Soil)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
108-88-3	Toluene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	2.50	5.00	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
95-47-6	o-Xylene	ND	2.50	5.00	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
100-42-5	Styrene	ND	1.25	5.00	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
75-25-2	Bromoform	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-30

Lab ID: 1601751-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Volatile Organic Compounds EPA Method SW846 8260										
95-63-6	1,2,4-Trimethylbenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.25	2.50	ug/kg dry	1	09/13/16 20:50	09/13/16 20:50/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*121 %*	*70-130*		*09/13/16 20:50*	*09/13/16 20:50/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*96 %*	*70-130*		*09/13/16 20:50*	*09/13/16 20:50/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*83 %*	*70-130*		*09/13/16 20:50*	*09/13/16 20:50/SG*	*EPA 8260*	
Semivolatile Organic Compounds EPA Method SW846 8270										
Sample Prepared by Method:EPA 3550B GCMS										
62-75-9	N-Nitrosodimethylamine	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
108-95-2	Phenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
111-44-4	bis(2-chloroethyl)ether	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
95-57-8	2-Chlorophenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
541-73-1	1,3-Dichlorobenzene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
106-46-7	1,4-Dichlorobenzene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
100-51-6	Benzyl alcohol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
95-50-1	1,2-Dichlorobenzene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
95-48-7	2-Methylphenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
106-44-5	3 & 4-Methylphenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
621-64-7	N-Nitroso-di-n-propylamine	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-30

Lab ID: 1601751-02 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
67-72-1	Hexachloroethane	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
98-95-3	Nitrobenzene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
78-59-1	Isophorone	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
88-75-5	2-Nitrophenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
105-67-9	2,4-Dimethylphenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
65-85-0	Benzoic acid	ND	111	447	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
111-91-1	bis(2-chloroethoxy)methane	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
120-83-2	2,4-Dichlorophenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
120-82-1	1,2,4-Trichlorobenzene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
91-20-3	Naphthalene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
106-47-8	4-Chloroaniline	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
87-68-3	Hexachlorobutadiene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
59-50-7	4-Chloro-3-methylphenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
91-57-6	2-Methylnaphthylene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
77-47-4	Hexachlorocyclopentadiene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
88-06-2	2,4,6-Trichlorophenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
95-95-4	2,4,5-Trichlorophenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
91-58-7	2-Chloronaphthalene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
88-74-4	2-Nitroaniline	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
131-11-3	Dimethylphthalate	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
208-96-8	Acenaphthylene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
99-09-2	3-Nitroaniline	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
83-32-9	Acenaphthene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
51-28-5	2,4-Dinitrophenol	ND	44.7	447	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
100-02-7	4-Nitrophenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
132-64-9	Dibenzofuran	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
606-20-2	2,6-Dinitrotoluene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
121-14-2	2,4-Dinitrotoluene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
84-66-2	Diethyl phthalate	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U

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1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-30

Lab ID: 1601751-02 (Soil)

Accredited Analytical Resources LLC

Semivolatile Organic Compounds EPA Method SW846 8270

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
7005-72-3	4-Chlorophenyl-phenylether	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
86-73-7	Fluorene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
100-01-6	4-Nitroaniline	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
86-30-6	N-Nitrosodiphenylamine	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
101-55-3	4-Bromophenyl-phenylether	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
118-74-1	Hexachlorobenzene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
87-86-5	Pentachlorophenol	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
85-01-8	**Phenanthrene**	**236**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	
120-12-7	**Anthracene**	**57.7**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	J
84-74-2	Di-n-butyl phthalate	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
206-44-0	**Fluoranthene**	**386**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	
129-00-0	**Pyrene**	**376**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	
85-68-7	Butylbenzylphthalate	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
91-94-1	3,3'-Dichlorobenzidine	ND	111	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
56-55-3	**Benzo[a]anthracene**	**190**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
218-01-9	**Chrysene**	**197**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	J
117-84-0	Di-n-octyl phthalate	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
205-99-2	**Benzo[b]fluoranthene**	**211**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	J
207-08-9	**Benzo[k]fluoranthene**	**83.7**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	J
50-32-8	**Benzo[a]pyrene**	**178**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	J
193-39-5	**Indeno(1,2,3-cd)pyrene**	**81.4**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	J
53-70-3	Dibenzo(a,h)anthracene	ND	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	U
191-24-2	**Benzo[ghi]perylene**	**88.6**	44.7	224	ug/kg dry	1	09/14/16 05:36	09/15/16 20:06/JMM	EPA 8270	J
Surrogate: 2-Fluorophenol				*79 %*	*30-130*		*09/14/16 05:36*	*09/15/16 20:06/JMM*	*EPA 8270*	
Surrogate: Phenol-d5				*80 %*	*30-130*		*09/14/16 05:36*	*09/15/16 20:06/JMM*	*EPA 8270*	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-30

Lab ID: 1601751-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Semivolatile Organic Compounds EPA Method SW846 8270										
Surrogate: Nitrobenzene-d5				*79 %*	*30-130*		*09/14/16 05:36*	*09/15/16 20:06/JMM*	*EPA 8270*	
Surrogate: 2-Fluorobiphenyl				*79 %*	*30-130*		*09/14/16 05:36*	*09/15/16 20:06/JMM*	*EPA 8270*	
Surrogate: 2,4,6-Tribromophenol				*80 %*	*30-130*		*09/14/16 05:36*	*09/15/16 20:06/JMM*	*EPA 8270*	
Surrogate: Terphenyl-d14				*96 %*	*30-130*		*09/14/16 05:36*	*09/15/16 20:06/JMM*	*EPA 8270*	
EPA Method SW846 8081/8082										
Sample Prepared by Method:EPA 3550B										
319-84-6	alpha-BHC	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
319-85-7	beta-BHC	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
319-86-8	delta-BHC	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
58-89-9	gamma-BHC [Lindane]	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
76-44-8	Heptachlor	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
309-00-2	Aldrin	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
1024-57-3	Heptachlor Epoxide	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
959-98-8	Endosulfan I	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
60-57-1	Dieldrin	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
72-55-9	4,4'-DDE	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
72-20-8	Endrin	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
33213-65-9	Endosulfan II	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
72-54-8	4,4'-DDD	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
1031-07-8	Endosulfan sulfate	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
50-29-3	4,4'-DDT	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
72-43-5	Methoxychlor	ND	2.68	8.94	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
53494-70-5	Endrin ketone	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
7421-93-4	Endrin aldehyde	ND	1.79	1.79	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
5103-71-9	alpha-Chlordane	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
5566-34-7	gamma-Chlordane	ND	0.886	0.886	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
8001-35-2	Toxaphene	ND	44.7	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
12674-11-2	Aroclor-1016	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-30

Lab ID: 1601751-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
EPA Method SW846 8081/8082										
11104-28-2	Aroclor-1221	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
11141-16-5	Aroclor-1232	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
53469-21-9	Aroclor-1242	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
12672-29-6	Aroclor-1248	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
11097-69-1	Aroclor-1254	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
11096-82-5	Aroclor-1260	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
37324-23-5	Aroclor-1262	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
11100-14-4	Aroclor-1268	ND	22.3	44.7	ug/kg dry	1	09/14/16 05:34	09/14/16 16:19/JAM	EPA 8081/8082	U
Surrogate: Tetrachloro-m-xylene				*72.6 %*	*30-150*		*09/14/16 05:34*	*09/14/16 16:19/JAM*	*EPA 8081/8082*	
Surrogate: Tetrachloro-m-xylene				*88.7 %*	*30-150*		*09/14/16 05:34*	*09/14/16 16:19/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*86.2 %*	*30-150*		*09/14/16 05:34*	*09/14/16 16:19/JAM*	*EPA 8081/8082*	
Surrogate: Decachlorobiphenyl				*110 %*	*30-150*		*09/14/16 05:34*	*09/14/16 16:19/JAM*	*EPA 8081/8082*	
Total Metals by EPA Method SW846 6010										
Sample Prepared by Method:EPA 3050B										
7429-90-5	**Aluminum**	**8480**	18.5	18.5	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-36-0	Antimony	ND	3.69	3.69	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	U
7440-38-2	**Arsenic**	**2.52**	0.923	0.923	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-39-3	**Barium**	**71.8**	18.5	18.5	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-41-7	Beryllium	ND	0.461	0.461	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	U
7440-43-9	**Cadmium**	**0.799**	0.461	0.461	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-70-2	**Calcium**	**34900**	577	577	mg/kg dry	25	09/13/16 14:59	09/14/16 11:27/LIT	EPA 6010	D
7440-47-3	**Chromium**	**16.5**	1.85	1.85	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-48-4	**Cobalt**	**7.69**	4.61	4.61	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-50-8	**Copper**	**27.6**	2.77	2.77	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7439-89-6	**Iron**	**16500**	23.1	23.1	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7439-92-1	**Lead**	**73.6**	0.923	0.923	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7439-95-4	**Magnesium**	**13700**	46.1	46.1	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 E. 138th Street	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	09/16/2016 14:55

Client ID: EP-30

Lab ID: 1601751-02 (Soil)

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
	Accredited Analytical Resources LLC									
Total Metals by EPA Method SW846 6010										
7439-96-5	**Manganese**	**363**	1.85	1.85	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-02-0	**Nickel**	**14.2**	3.69	3.69	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-09-7	**Potassium**	**1720**	46.1	46.1	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7782-49-2	Selenium	ND	3.69	3.69	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	U
7440-22-4	Silver	ND	0.461	0.461	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	U
7440-23-5	**Sodium**	**311**	46.1	46.1	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-28-0	Thallium	ND	1.38	2.77	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	U
7440-62-2	**Vanadium**	**24.3**	4.61	4.61	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
7440-66-6	**Zinc**	**68.9**	5.54	5.54	mg/kg dry	1	09/13/16 14:59	09/13/16 19:31/LIT	EPA 6010	
Total Mercury by SW846 7471										
Sample Prepared by Method:EPA 7471A										
7439-97-6	**Mercury**	**0.202**	0.101	0.101	mg/kg dry	1	09/15/16 08:08	09/15/16 11:47/PRT	EPA 7471	
Wet Chemistry										
Sample Prepared by Method:[CALC]										
16065-83-1	**Trivalent Chromium**	**16.5**	1.37	1.37	mg/kg dry	1	09/13/16 15:42	09/14/16 17:12/NNM	[CALC]	
Sample Prepared by Method:EPA 9010C										
NA	Cyanide (total)	ND	1.34	1.34	mg/kg dry	1	09/13/16 15:41	09/13/16 17:44/NNM	EPA 9014	
Sample Prepared by Method:Percent Solids										
NA	**Percent Solids**	**74.5**	0.100	0.100	%	1	09/14/16 09:41	09/15/16 10:45/KMC	SM 2540 G	
Sample Prepared by Method:SW 846 3060A										
1854-02-99	Chromium, Hexavalent	ND	2.68	2.68	mg/kg dry	1	09/13/16 15:42	09/14/16 17:12/NNM	EPA 7196A	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732.223-3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601751
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL / TCL	Hexavalent Chromium	Trivalent Chromium	AAR SAMPLE #
EP-29	9/13/16 @ 12:10	S		4	G	X	X	X	-01
EP-30	9/13/16 @ 12:25	S		4	G	X	X	X	-02

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. (48 HRS.) 24 HRS. OTHER ~~[illegible]~~ MM. (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Please provide ~~category~~ NYSDEC Category B Data Deliverable; Send invoice to Brinkerhoff

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Monica Norton	Signature: K. Muniz	Signature:	Signature:
Agent of: BES	Agent of: AAR	Agent of:	Agent of:
Date Received: 9 / 13 / 16	Time: 14:50 ~~12:50~~ KM 9/13/16	Date Received: / /	Time:
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Bernie O'Gara

From: "Monica Norton" <mnorton@brinkenv.com>
To: '"Bernie O'Gara"' <bernie@accreditedanalytical.com>
Sent: Tuesday, September 13, 2016 4:54 PM
Subject: RE: AAR Case 1601751

Dear Bernie,

Yes, I would like to revise the TAT to be 72 hours for these samples.

Thanks you,

Monica

Monica Norton
mnorton@brinkenv.com
BRINKERHOFF
ENVIRONMENTAL SERVICES, INC.
1805 Atlantic Avenue
Manasquan, NJ 08736
Phone: 732-223-2225
Fax: 732-223-3666
Web: www.BrinkEnv.com

From: Bernie O'Gara [mailto:bernie@accreditedanalytical.com]
Sent: Tuesday, September 13, 2016 4:31 PM
To: 'Monica Norton' <mnorton@brinkenv.com>
Cc: Sean Harrison <sharrison@brinkenv.com>
Subject: AAR Case 1601751

Hi Monica,

We received 2 soil samples today for the 255 E. 138th Street Project.

Per our conversation today, please confirm that you would like to revise the TAT to 72 hours.

Thank you,

Bernie O'Gara
Accredited Analytical Resources, LLC
20 Pershing Ave. Carteret, NJ 07008
Ph. 732.969.6112 ext 105 | Fax 732.541.1383
bernie@accreditedanalytical.com

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Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601783

Client Sample ID:	Lab Sample ID:
EP-31	1601783-01
EP-31	1601783-01RE1

This data has been reviewed and accepted by:

Daniel Miguel 09/23/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Accredited Analytical Resources, LLC.

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601783**

Received: 9/16/16 14:10

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	sharrison@brinkenv.com
EMAIL FOR INVOICE:	same

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1601783
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-31	9/16/16 10:20	S	15-15.5	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE

PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME (CIRCLE ONE): STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____ (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSEC catagory B Data Deliverables. Hardcopy report due four (4) weeks from today.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 9/16/16	Time: 1410	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-31	1601783-01	Soil	09/16/2016 10:20	09/16/2016 14:10

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/19/16 06:09	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B	File ID:	A23166.D
Prep Batch:	B6I1902	Sequence:	S6I1901	Analyzed:	09/19/16 18:24
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	1.77	1.77	U
319-85-7	beta-BHC	ND	1.77	1.77	U
319-86-8	delta-BHC	ND	1.77	1.77	U
58-89-9	gamma-BHC [Lindane]	ND	1.77	1.77	U
76-44-8	Heptachlor	ND	1.77	1.77	U
309-00-2	Aldrin	ND	1.77	1.77	U
1024-57-3	Heptachlor Epoxide	ND	1.77	1.77	U
959-98-8	Endosulfan I	ND	1.77	1.77	U
60-57-1	Dieldrin	ND	3.58	3.58	U
72-55-9	4,4'-DDE	ND	3.58	3.58	U
72-20-8	Endrin	ND	3.58	3.58	U
33213-65-9	Endosulfan II	ND	3.58	3.58	U
72-54-8	4,4'-DDD	ND	3.58	3.58	U
1031-07-8	Endosulfan sulfate	ND	3.58	3.58	U
50-29-3	4,4'-DDT	ND	3.58	3.58	U
72-43-5	Methoxychlor	ND	5.38	17.9	U
53494-70-5	Endrin ketone	ND	3.58	3.58	U
7421-93-4	Endrin aldehyde	ND	3.58	3.58	U
5103-71-9	alpha-Chlordane	ND	1.77	1.77	U
5566-34-7	gamma-Chlordane	ND	1.77	1.77	U
8001-35-2	Toxaphene	ND	89.5	89.5	U
12674-11-2	Aroclor-1016	ND	44.6	89.5	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/19/16 06:09	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B	File ID:	A23166.D
Prep Batch:	B6I1902	Sequence:	S6I1901	Analyzed:	09/19/16 18:24
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	44.6	89.5	U
11141-16-5	Aroclor-1232	ND	44.6	89.5	U
53469-21-9	Aroclor-1242	ND	44.6	89.5	U
12672-29-6	Aroclor-1248	ND	44.6	89.5	U
11097-69-1	Aroclor-1254	ND	44.6	89.5	U
11096-82-5	Aroclor-1260	ND	44.6	89.5	U
37324-23-5	Aroclor-1262	ND	44.6	89.5	U
11100-14-4	Aroclor-1268	ND	44.6	89.5	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	46.0%	30-150
Tetrachloro-m-xylene [2C]	56.3%	30-150
Decachlorobiphenyl	53.5%	30-150
Decachlorobiphenyl [2C]	73.1%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

SEMIVOLATILES

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11195.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 20:33
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	89.5	449	U
108-95-2	Phenol	ND	89.5	449	U
111-44-4	bis(2-chloroethyl)ether	ND	89.5	449	U
95-57-8	2-Chlorophenol	ND	89.5	449	U
541-73-1	1,3-Dichlorobenzene	ND	89.5	449	U
106-46-7	1,4-Dichlorobenzene	ND	89.5	449	U
100-51-6	Benzyl alcohol	ND	89.5	449	U
95-50-1	1,2-Dichlorobenzene	ND	89.5	449	U
95-48-7	2-Methylphenol	ND	89.5	449	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	89.5	449	U
106-44-5	3 & 4-Methylphenol	254	89.5	449	J
621-64-7	N-Nitroso-di-n-propylamine	ND	89.5	449	U
67-72-1	Hexachloroethane	ND	89.5	449	U
98-95-3	Nitrobenzene	ND	89.5	449	U
78-59-1	Isophorone	ND	89.5	449	U
88-75-5	2-Nitrophenol	ND	89.5	449	U
105-67-9	2,4-Dimethylphenol	ND	89.5	449	U
65-85-0	Benzoic acid	ND	223	895	U
111-91-1	bis(2-chloroethoxy)methane	ND	89.5	449	U
120-83-2	2,4-Dichlorophenol	ND	89.5	449	U
120-82-1	1,2,4-Trichlorobenzene	ND	89.5	449	U
91-20-3	Naphthalene	ND	89.5	449	U
106-47-8	4-Chloroaniline	ND	89.5	449	U
87-68-3	Hexachlorobutadiene	ND	89.5	449	U
59-50-7	4-Chloro-3-methylphenol	ND	89.5	449	U
91-57-6	2-Methylnaphthylene	ND	89.5	449	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11195.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 20:33
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	89.5	449	U
88-06-2	2,4,6-Trichlorophenol	ND	89.5	449	U
95-95-4	2,4,5-Trichlorophenol	ND	89.5	449	U
91-58-7	2-Chloronaphthalene	ND	89.5	449	U
88-74-4	2-Nitroaniline	ND	89.5	449	U
131-11-3	Dimethylphthalate	ND	89.5	449	U
208-96-8	Acenaphthylene	ND	89.5	449	U
99-09-2	3-Nitroaniline	ND	89.5	449	U
83-32-9	Acenaphthene	ND	89.5	449	U
51-28-5	2,4-Dinitrophenol	ND	89.5	895	U
100-02-7	4-Nitrophenol	ND	89.5	449	U
132-64-9	Dibenzofuran	ND	89.5	449	U
606-20-2	2,6-Dinitrotoluene	ND	89.5	449	U
121-14-2	2,4-Dinitrotoluene	ND	89.5	449	U
84-66-2	Diethyl phthalate	ND	89.5	449	U
7005-72-3	4-Chlorophenyl-phenylether	ND	89.5	449	U
86-73-7	Fluorene	ND	89.5	449	U
100-01-6	4-Nitroaniline	ND	89.5	449	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	89.5	449	U
86-30-6	N-Nitrosodiphenylamine	ND	89.5	449	U
101-55-3	4-Bromophenyl-phenylether	ND	89.5	449	U
118-74-1	Hexachlorobenzene	ND	89.5	449	U
87-86-5	Pentachlorophenol	ND	89.5	449	U
85-01-8	Phenanthrene	505	89.5	449	
120-12-7	Anthracene	127	89.5	449	J
84-74-2	Di-n-butyl phthalate	ND	89.5	449	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11195.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 20:33
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	980	89.5	449	
129-00-0	Pyrene	814	89.5	449	
85-68-7	Butylbenzylphthalate	ND	89.5	449	U
91-94-1	3,3'-Dichlorobenzidine	ND	223	449	U
56-55-3	Benzo[a]anthracene	453	89.5	449	
117-81-7	bis(2-ethylhexyl)phthalate	ND	89.5	449	U
218-01-9	Chrysene	483	89.5	449	
117-84-0	Di-n-octyl phthalate	ND	89.5	449	U
205-99-2	Benzo[b]fluoranthene	537	89.5	449	
207-08-9	Benzo[k]fluoranthene	244	89.5	449	J
50-32-8	Benzo[a]pyrene	487	89.5	449	
193-39-5	Indeno(1,2,3-cd)pyrene	308	89.5	449	J
53-70-3	Dibenzo(a,h)anthracene	ND	89.5	449	U
191-24-2	Benzo[ghi]perylene	371	89.5	449	J

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	0.9%	*	30-130
Phenol-d5	11%	*	30-130
Nitrobenzene-d5	98%		30-130
2-Fluorobiphenyl	84%		30-130
2,4,6-Tribromophenol	0.8%	*	30-130
Terphenyl-d14	83%		30-130

* Values outside of QC limits
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U - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11196.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 21:17
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	448	2240	U
108-95-2	Phenol	ND	448	2240	U
111-44-4	bis(2-chloroethyl)ether	ND	448	2240	U
95-57-8	2-Chlorophenol	ND	448	2240	U
541-73-1	1,3-Dichlorobenzene	ND	448	2240	U
106-46-7	1,4-Dichlorobenzene	ND	448	2240	U
100-51-6	Benzyl alcohol	ND	448	2240	U
95-50-1	1,2-Dichlorobenzene	ND	448	2240	U
95-48-7	2-Methylphenol	ND	448	2240	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	448	2240	U
106-44-5	3 & 4-Methylphenol	ND	448	2240	U
621-64-7	N-Nitroso-di-n-propylamine	ND	448	2240	U
67-72-1	Hexachloroethane	ND	448	2240	U
98-95-3	Nitrobenzene	ND	448	2240	U
78-59-1	Isophorone	ND	448	2240	U
88-75-5	2-Nitrophenol	ND	448	2240	U
105-67-9	2,4-Dimethylphenol	ND	448	2240	U
65-85-0	Benzoic acid	ND	1120	4480	U
111-91-1	bis(2-chloroethoxy)methane	ND	448	2240	U
120-83-2	2,4-Dichlorophenol	ND	448	2240	U
120-82-1	1,2,4-Trichlorobenzene	ND	448	2240	U
91-20-3	Naphthalene	ND	448	2240	U
106-47-8	4-Chloroaniline	ND	448	2240	U
87-68-3	Hexachlorobutadiene	ND	448	2240	U
59-50-7	4-Chloro-3-methylphenol	ND	448	2240	U
91-57-6	2-Methylnaphthylene	ND	448	2240	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11196.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 21:17
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	448	2240	U
88-06-2	2,4,6-Trichlorophenol	ND	448	2240	U
95-95-4	2,4,5-Trichlorophenol	ND	448	2240	U
91-58-7	2-Chloronaphthalene	ND	448	2240	U
88-74-4	2-Nitroaniline	ND	448	2240	U
131-11-3	Dimethylphthalate	ND	448	2240	U
208-96-8	Acenaphthylene	ND	448	2240	U
99-09-2	3-Nitroaniline	ND	448	2240	U
83-32-9	Acenaphthene	ND	448	2240	U
51-28-5	2,4-Dinitrophenol	ND	448	4480	U
100-02-7	4-Nitrophenol	ND	448	2240	U
132-64-9	Dibenzofuran	ND	448	2240	U
606-20-2	2,6-Dinitrotoluene	ND	448	2240	U
121-14-2	2,4-Dinitrotoluene	ND	448	2240	U
84-66-2	Diethyl phthalate	ND	448	2240	U
7005-72-3	4-Chlorophenyl-phenylether	ND	448	2240	U
86-73-7	Fluorene	ND	448	2240	U
100-01-6	4-Nitroaniline	ND	448	2240	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	448	2240	U
86-30-6	N-Nitrosodiphenylamine	ND	448	2240	U
101-55-3	4-Bromophenyl-phenylether	ND	448	2240	U
118-74-1	Hexachlorobenzene	ND	448	2240	U
87-86-5	Pentachlorophenol	ND	448	2240	U
85-01-8	Phenanthrene	545	448	2240	D, J
120-12-7	Anthracene	ND	448	2240	U
84-74-2	Di-n-butyl phthalate	ND	448	2240	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/21/16 05:25	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 3550B GCMS	File ID:	E11196.D
Prep Batch:	B6I2101	Sequence:	S6I2211	Analyzed:	09/22/16 21:17
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	1070	448	2240	D, J
129-00-0	Pyrene	892	448	2240	D, J
85-68-7	Butylbenzylphthalate	ND	448	2240	U
91-94-1	3,3'-Dichlorobenzidine	ND	1120	2240	U
56-55-3	Benzo[a]anthracene	496	448	2240	J, D
117-81-7	bis(2-ethylhexyl)phthalate	ND	448	2240	U
218-01-9	Chrysene	552	448	2240	D, J
117-84-0	Di-n-octyl phthalate	ND	448	2240	U
205-99-2	Benzo[b]fluoranthene	603	448	2240	J, D
207-08-9	Benzo[k]fluoranthene	ND	448	2240	U
50-32-8	Benzo[a]pyrene	555	448	2240	J, D
193-39-5	Indeno(1,2,3-cd)pyrene	ND	448	2240	U
53-70-3	Dibenzo(a,h)anthracene	ND	448	2240	U
191-24-2	Benzo[ghi]perylene	ND	448	2240	U

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	0.9%	*	30-130
Phenol-d5	11%	*	30-130
Nitrobenzene-d5	102%		30-130
2-Fluorobiphenyl	98%		30-130
2,4,6-Tribromophenol	1%	*	30-130
Terphenyl-d14	100%		30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/20/16 20:22	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9514.D
Prep Batch:	B6I2013	Sequence:	S6I2006	Analyzed:	09/20/16 20:22
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	25.1	41.9	U
107-13-1	Acrylonitrile	ND	8.37	41.9	U
67-64-1	Acetone	2290	4.19	8.37	B, E
75-71-8	Dichlorodifluoromethane	ND	4.19	8.37	U
74-87-3	Chloromethane	ND	4.19	8.37	U
75-01-4	Vinyl chloride	ND	4.19	8.37	U
74-83-9	Bromomethane	ND	4.19	8.37	U
75-00-3	Chloroethane	ND	4.19	8.37	U
75-69-4	Trichlorofluoromethane	ND	4.19	8.37	U
75-35-4	1,1-Dichloroethene	ND	4.19	8.37	U
75-15-0	Carbon disulfide	35.8	4.19	8.37	
75-09-2	Methylene Chloride	ND	4.19	8.37	U
156-60-5	trans-1,2-Dichloroethene	ND	4.19	8.37	U
75-34-3	1,1-Dichloroethane	ND	4.19	8.37	U
108-05-4	Vinyl acetate	ND	4.19	8.37	U
590-20-7	2,2-Dichloropropane	ND	4.19	8.37	U
78-93-3	2-Butanone	453	4.19	8.37	
156-59-4	cis-1,2-Dichloroethene	ND	4.19	8.37	U
67-66-3	Chloroform	ND	4.19	8.37	U
74-97-5	Bromochloromethane	ND	4.19	8.37	U
71-55-6	1,1,1-Trichloroethane	ND	4.19	8.37	U
563-58-6	1,1-Dichloropropene	ND	4.19	8.37	U
56-23-5	Carbon Tetrachloride	ND	4.19	8.37	U
107-06-2	1,2-Dichloroethane	ND	4.19	8.37	U
71-43-2	Benzene	ND	4.19	8.37	U
79-01-6	Trichloroethene	ND	4.19	8.37	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/20/16 20:22	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9514.D
Prep Batch:	B6I2013	Sequence:	S6I2006	Analyzed:	09/20/16 20:22
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	4.19	8.37	U
75-27-4	Bromodichloromethane	ND	4.19	8.37	U
74-95-3	Dibromomethane	ND	4.19	8.37	U
110-75-8	2-Chloroethyl vinyl ether	ND	4.19	8.37	U
10061-01-5	cis-1,3-Dichloropropene	ND	4.19	8.37	U
108-88-3	Toluene	5.19	4.19	8.37	J
10061-02-6	trans-1,3-Dichloropropene	ND	4.19	8.37	U
79-00-5	1,1,2-Trichloroethane	ND	4.19	8.37	U
108-10-1	4-Methyl-2-pentanone	ND	4.19	8.37	U
106-93-4	1,2-Dibromoethane	ND	4.19	8.37	U
591-78-6	2-Hexanone	ND	4.19	8.37	U
142-28-9	1,3-Dichloropropane	ND	4.19	8.37	U
127-18-4	Tetrachloroethene	ND	4.19	8.37	U
124-48-1	Dibromochloromethane	ND	4.19	8.37	U
100-41-4	Ethylbenzene	5.74	4.19	8.37	J
108-90-7	Chlorobenzene	ND	4.19	8.37	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.19	8.37	U
108-38-3/106-42	m,p-Xylenes	14.5	8.37	16.7	J
95-47-6	o-Xylene	ND	8.37	16.7	U
100-42-5	Styrene	ND	4.19	16.7	U
75-25-2	Bromoform	ND	4.19	8.37	U
98-82-8	Isopropylbenzene	5.07	4.19	8.37	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.19	8.37	U
96-18-4	1,2,3-Trichloropropane	ND	4.19	8.37	U
103-65-1	n-Propyl Benzene	7.75	4.19	8.37	J
108-86-1	Bromobenzene	ND	4.19	8.37	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/20/16 20:22	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9514.D
Prep Batch:	B6I2013	Sequence:	S6I2006	Analyzed:	09/20/16 20:22
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	8.46	4.19	8.37	
95-49-8	2-Chlorotoluene	ND	4.19	8.37	U
106-43-4	4-Chlorotoluene	ND	4.19	8.37	U
98-06-6	tert-Butylbenzene	ND	4.19	8.37	U
95-63-6	1,2,4-Trimethylbenzene	36.0	4.19	8.37	
135-98-8	sec-Butylbenzene	7.66	4.19	8.37	J
99-87-6	p-Isopropyltoluene	ND	4.19	8.37	U
541-73-1	1,3-Dichlorobenzene	ND	4.19	8.37	U
106-46-7	1,4-Dichlorobenzene	ND	4.19	8.37	U
104-51-8	n-Butyl Benzene	8.96	4.19	8.37	
95-50-1	1,2-Dichlorobenzene	ND	4.19	8.37	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.19	8.37	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.19	8.37	U
87-68-3	Hexachlorobutadiene	ND	4.19	8.37	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.19	8.37	U

Surrogate	% Recovery		Recovery Limits
1,2-Dichloroethane-d4	98%		70-130
Toluene-d8	94%		70-130
Bromofluorobenzene	68%	*	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/23/16 15:06	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9583.D
Prep Batch:	B6I2307	Sequence:	S6I2304	Analyzed:	09/23/16 15:06
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	502	837	U
107-13-1	Acrylonitrile	ND	167	837	U
67-64-1	Acetone	1950	83.7	167	D
75-71-8	Dichlorodifluoromethane	ND	83.7	167	U
74-87-3	Chloromethane	ND	83.7	167	U
75-01-4	Vinyl chloride	ND	83.7	167	U
74-83-9	Bromomethane	ND	83.7	167	U
75-00-3	Chloroethane	ND	83.7	167	U
75-69-4	Trichlorofluoromethane	ND	83.7	167	U
75-35-4	1,1-Dichloroethene	ND	83.7	167	U
75-15-0	Carbon disulfide	ND	83.7	167	U
75-09-2	Methylene Chloride	ND	83.7	167	U
156-60-5	trans-1,2-Dichloroethene	ND	83.7	167	U
75-34-3	1,1-Dichloroethane	ND	83.7	167	U
108-05-4	Vinyl acetate	ND	83.7	167	U
590-20-7	2,2-Dichloropropane	ND	83.7	167	U
78-93-3	2-Butanone	529	83.7	167	D
156-59-4	cis-1,2-Dichloroethene	ND	83.7	167	U
67-66-3	Chloroform	ND	83.7	167	U
74-97-5	Bromochloromethane	ND	83.7	167	U
71-55-6	1,1,1-Trichloroethane	ND	83.7	167	U
563-58-6	1,1-Dichloropropene	ND	83.7	167	U
56-23-5	Carbon Tetrachloride	ND	83.7	167	U
107-06-2	1,2-Dichloroethane	ND	83.7	167	U
71-43-2	Benzene	ND	83.7	167	U
79-01-6	Trichloroethene	ND	83.7	167	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/23/16 15:06	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9583.D
Prep Batch:	B6I2307	Sequence:	S6I2304	Analyzed:	09/23/16 15:06
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	83.7	167	U
75-27-4	Bromodichloromethane	ND	83.7	167	U
74-95-3	Dibromomethane	ND	83.7	167	U
110-75-8	2-Chloroethyl vinyl ether	ND	83.7	167	U
10061-01-5	cis-1,3-Dichloropropene	ND	83.7	167	U
108-88-3	Toluene	ND	83.7	167	U
10061-02-6	trans-1,3-Dichloropropene	ND	83.7	167	U
79-00-5	1,1,2-Trichloroethane	ND	83.7	167	U
108-10-1	4-Methyl-2-pentanone	ND	83.7	167	U
106-93-4	1,2-Dibromoethane	ND	83.7	167	U
591-78-6	2-Hexanone	ND	83.7	167	U
142-28-9	1,3-Dichloropropane	ND	83.7	167	U
127-18-4	Tetrachloroethene	ND	83.7	167	U
124-48-1	Dibromochloromethane	ND	83.7	167	U
100-41-4	Ethylbenzene	ND	83.7	167	U
108-90-7	Chlorobenzene	ND	83.7	167	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	83.7	167	U
108-38-3/106-42	m,p-Xylenes	ND	167	335	U
95-47-6	o-Xylene	ND	167	335	U
100-42-5	Styrene	ND	83.7	335	U
75-25-2	Bromoform	ND	83.7	167	U
98-82-8	Isopropylbenzene	ND	83.7	167	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	83.7	167	U
96-18-4	1,2,3-Trichloropropane	ND	83.7	167	U
103-65-1	n-Propyl Benzene	ND	83.7	167	U
108-86-1	Bromobenzene	ND	83.7	167	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01RE1
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Prep Date:	09/23/16 15:06	Matrix:	Soil
Percent Solids:	37.20	Prep Method:	EPA 5035A	File ID:	A9583.D
Prep Batch:	B6I2307	Sequence:	S6I2304	Analyzed:	09/23/16 15:06
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	83.7	167	U
95-49-8	2-Chlorotoluene	ND	83.7	167	U
106-43-4	4-Chlorotoluene	ND	83.7	167	U
98-06-6	tert-Butylbenzene	ND	83.7	167	U
95-63-6	1,2,4-Trimethylbenzene	ND	83.7	167	U
135-98-8	sec-Butylbenzene	ND	83.7	167	U
99-87-6	p-Isopropyltoluene	ND	83.7	167	U
541-73-1	1,3-Dichlorobenzene	ND	83.7	167	U
106-46-7	1,4-Dichlorobenzene	ND	83.7	167	U
104-51-8	n-Butyl Benzene	ND	83.7	167	U
95-50-1	1,2-Dichlorobenzene	ND	83.7	167	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	83.7	167	U
120-82-1	1,2,4-Trichlorobenzene	ND	83.7	167	U
87-68-3	Hexachlorobutadiene	ND	83.7	167	U
87-61-6	1,2,3-Trichlorobenzene	ND	83.7	167	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	95%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	102%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Matrix:	Soil
Percent Solids:	37.20	File ID:	092016B-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	14900	28.8	28.8	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7439-97-6	Mercury	ND	0.202	0.202	1	U	09/19/16 08:21	EPA 7471A	09/19/16 13:21 PRT	EPA 7471
7440-36-0	Antimony	ND	5.75	5.75	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-38-2	Arsenic	4.85	1.44	1.44	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-39-3	Barium	104	28.8	28.8	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.719	0.719	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-43-9	Cadmium	0.902	0.719	0.719	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-70-2	Calcium	132000	1800	1800	50	D	09/19/16 08:50	EPA 3050B	09/20/16 13:05 LIT	EPA 6010
7440-47-3	Chromium	61.1	2.88	2.88	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-48-4	Cobalt	8.69	7.19	7.19	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-50-8	Copper	35.2	4.31	4.31	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7439-89-6	Iron	18200	35.9	35.9	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7439-92-1	Lead	52.8	1.44	1.44	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7439-95-4	Magnesium	7880	71.9	71.9	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7439-96-5	Manganese	458	2.88	2.88	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-02-0	Nickel	21.1	5.75	5.75	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-09-7	Potassium	2020	71.9	71.9	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7782-49-2	Selenium	ND	5.75	5.75	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-22-4	Silver	ND	0.719	0.719	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-23-5	Sodium	753	71.9	71.9	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-28-0	Thallium	ND	2.16	4.31	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-62-2	Vanadium	46.6	7.19	7.19	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010
7440-66-6	Zinc	123	8.63	8.63	1		09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Matrix:	Soil
Percent Solids:	37.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	61.1	1.07	1.07	1		09/20/16 12:37	[CALC]	09/22/16 08:15 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	5.38	5.38	1	U	09/20/16 12:37	SW 846 3060A	09/22/16 08:15 NNM	EPA 7196A
NA	Cyanide (total)	ND	2.69	2.69	1	U	09/22/16 09:32	EPA 9010C	09/22/16 16:12 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	37.2	0.100	0.100	1		09/19/16 11:59	Percent Solids	09/19/16 16:56 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
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J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1602114

Client Sample ID:	Lab Sample ID:
EP-32	1602114-01
EP-33	1602114-02
EP-33	1602114-02RE1
DUP-1	1602114-03
DUP-1	1602114-03RE1

This data has been reviewed and accepted by:

Daniel Miguel 11/14/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1602114**

Received: 11/7/16 14:15

Cooler

Temperature °C	6.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3664
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkerhw.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1602114
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex chrom	Tri chrom	AAR SAMPLE #
EP-32	11/7/16 1230	S	5.5 15.5	4	G	X	X	X	-01
EP-33	11/7/16 1215	S	1.5 1.0	4	G	X	X	X	-02
DUP-1	11/7/16 1220	S		4	G	X	X	X	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME (CIRCLE ONE): STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data Deliverables. Hard copy Report due (4) four weeks from today.

COOLER TEMP: 6°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 11/7/16	Time: 1416	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-32	1602114-01	Soil	11/07/2016 12:30	11/07/2016 14:15
EP-33	1602114-02	Soil	11/07/2016 12:15	11/07/2016 14:15
DUP-1	1602114-03	Soil	11/07/2016 12:20	11/07/2016 14:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
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RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B	File ID:	G18486.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 13:16
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	2.44	2.44	U
319-85-7	beta-BHC	ND	2.44	2.44	U
319-86-8	delta-BHC	ND	2.44	2.44	U
58-89-9	gamma-BHC [Lindane]	ND	2.44	2.44	U
76-44-8	Heptachlor	ND	2.44	2.44	U
309-00-2	Aldrin	ND	2.44	2.44	U
1024-57-3	Heptachlor Epoxide	ND	2.44	2.44	U
959-98-8	Endosulfan I	ND	2.44	2.44	U
60-57-1	Dieldrin	ND	4.93	4.93	U
72-55-9	4,4'-DDE	ND	4.93	4.93	U
72-20-8	Endrin	ND	4.93	4.93	U
33213-65-9	Endosulfan II	ND	4.93	4.93	U
72-54-8	4,4'-DDD	ND	4.93	4.93	U
1031-07-8	Endosulfan sulfate	ND	4.93	4.93	U
50-29-3	4,4'-DDT	ND	4.93	4.93	U
72-43-5	Methoxychlor	ND	7.41	24.7	U
53494-70-5	Endrin ketone	ND	4.93	4.93	U
7421-93-4	Endrin aldehyde	ND	4.93	4.93	U
5103-71-9	alpha-Chlordane	ND	2.44	2.44	U
5566-34-7	gamma-Chlordane	ND	2.44	2.44	U
8001-35-2	Toxaphene	ND	123	123	U
12674-11-2	Aroclor-1016	ND	61.5	123	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B	File ID:	G18486.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 13:16
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	61.5	123	U
11141-16-5	Aroclor-1232	ND	61.5	123	U
53469-21-9	Aroclor-1242	ND	61.5	123	U
12672-29-6	Aroclor-1248	ND	61.5	123	U
11097-69-1	Aroclor-1254	ND	61.5	123	U
11096-82-5	Aroclor-1260	ND	61.5	123	U
37324-23-5	Aroclor-1262	ND	61.5	123	U
11100-14-4	Aroclor-1268	ND	61.5	123	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	42.5%	30-150
Tetrachloro-m-xylene [2C]	49.2%	30-150
Decachlorobiphenyl	51.6%	30-150
Decachlorobiphenyl [2C]	66.0%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B	File ID:	G18487.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 13:46
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.763	0.763	U
319-85-7	beta-BHC	ND	0.763	0.763	U
319-86-8	delta-BHC	ND	0.763	0.763	U
58-89-9	gamma-BHC [Lindane]	ND	0.763	0.763	U
76-44-8	Heptachlor	ND	0.763	0.763	U
309-00-2	Aldrin	ND	0.763	0.763	U
1024-57-3	Heptachlor Epoxide	ND	0.763	0.763	U
959-98-8	Endosulfan I	ND	0.763	0.763	U
60-57-1	Dieldrin	ND	1.54	1.54	U
72-55-9	4,4'-DDE	ND	1.54	1.54	U
72-20-8	Endrin	ND	1.54	1.54	U
33213-65-9	Endosulfan II	ND	1.54	1.54	U
72-54-8	4,4'-DDD	ND	1.54	1.54	U
1031-07-8	Endosulfan sulfate	ND	1.54	1.54	U
50-29-3	4,4'-DDT	ND	1.54	1.54	U
72-43-5	Methoxychlor	ND	2.31	7.70	U
53494-70-5	Endrin ketone	ND	1.54	1.54	U
7421-93-4	Endrin aldehyde	ND	1.54	1.54	U
5103-71-9	alpha-Chlordane	ND	0.763	0.763	U
5566-34-7	gamma-Chlordane	ND	0.763	0.763	U
8001-35-2	Toxaphene	ND	38.5	38.5	U
12674-11-2	Aroclor-1016	ND	19.2	38.5	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B	File ID:	G18487.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 13:46
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.2	38.5	U
11141-16-5	Aroclor-1232	ND	19.2	38.5	U
53469-21-9	Aroclor-1242	ND	19.2	38.5	U
12672-29-6	Aroclor-1248	ND	19.2	38.5	U
11097-69-1	Aroclor-1254	ND	19.2	38.5	U
11096-82-5	Aroclor-1260	ND	19.2	38.5	U
37324-23-5	Aroclor-1262	ND	19.2	38.5	U
11100-14-4	Aroclor-1268	ND	19.2	38.5	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	77.2%	30-150
Tetrachloro-m-xylene [2C]	98.8%	30-150
Decachlorobiphenyl	98.7%	30-150
Decachlorobiphenyl [2C]	116%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B	File ID:	G18488.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 14:15
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.755	0.755	U
319-85-7	beta-BHC	ND	0.755	0.755	U
319-86-8	delta-BHC	ND	0.755	0.755	U
58-89-9	gamma-BHC [Lindane]	ND	0.755	0.755	U
76-44-8	Heptachlor	ND	0.755	0.755	U
309-00-2	Aldrin	ND	0.755	0.755	U
1024-57-3	Heptachlor Epoxide	ND	0.755	0.755	U
959-98-8	Endosulfan I	ND	0.755	0.755	U
60-57-1	Dieldrin	ND	1.52	1.52	U
72-55-9	4,4'-DDE	ND	1.52	1.52	U
72-20-8	Endrin	ND	1.52	1.52	U
33213-65-9	Endosulfan II	ND	1.52	1.52	U
72-54-8	4,4'-DDD	ND	1.52	1.52	U
1031-07-8	Endosulfan sulfate	ND	1.52	1.52	U
50-29-3	4,4'-DDT	ND	1.52	1.52	U
72-43-5	Methoxychlor	ND	2.29	7.62	U
53494-70-5	Endrin ketone	ND	1.52	1.52	U
7421-93-4	Endrin aldehyde	ND	1.52	1.52	U
5103-71-9	alpha-Chlordane	ND	0.755	0.755	U
5566-34-7	gamma-Chlordane	ND	0.755	0.755	U
8001-35-2	Toxaphene	ND	38.1	38.1	U
12674-11-2	Aroclor-1016	ND	19.0	38.1	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:33	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B	File ID:	G18488.D
Prep Batch:	B6K0902	Sequence:	S6K1103	Analyzed:	11/11/16 14:15
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.0	38.1	U
11141-16-5	Aroclor-1232	ND	19.0	38.1	U
53469-21-9	Aroclor-1242	ND	19.0	38.1	U
12672-29-6	Aroclor-1248	ND	19.0	38.1	U
11097-69-1	Aroclor-1254	ND	19.0	38.1	U
11096-82-5	Aroclor-1260	ND	19.0	38.1	U
37324-23-5	Aroclor-1262	ND	19.0	38.1	U
11100-14-4	Aroclor-1268	ND	19.0	38.1	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	87.0%	30-150
Tetrachloro-m-xylene [2C]	105%	30-150
Decachlorobiphenyl	103%	30-150
Decachlorobiphenyl [2C]	115%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

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ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B GCMS	File ID:	E11561.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 18:11
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	123	619	U
108-95-2	Phenol	ND	123	619	U
111-44-4	bis(2-chloroethyl)ether	ND	123	619	U
95-57-8	2-Chlorophenol	ND	123	619	U
541-73-1	1,3-Dichlorobenzene	ND	123	619	U
106-46-7	1,4-Dichlorobenzene	ND	123	619	U
100-51-6	Benzyl alcohol	ND	123	619	U
95-50-1	1,2-Dichlorobenzene	ND	123	619	U
95-48-7	2-Methylphenol	ND	123	619	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	123	619	U
106-44-5	3 & 4-Methylphenol	ND	123	619	U
621-64-7	N-Nitroso-di-n-propylamine	ND	123	619	U
67-72-1	Hexachloroethane	ND	123	619	U
98-95-3	Nitrobenzene	ND	123	619	U
78-59-1	Isophorone	ND	123	619	U
88-75-5	2-Nitrophenol	ND	123	619	U
105-67-9	2,4-Dimethylphenol	ND	123	619	U
65-85-0	Benzoic acid	ND	307	1230	U
111-91-1	bis(2-chloroethoxy)methane	ND	123	619	U
120-83-2	2,4-Dichlorophenol	ND	123	619	U
120-82-1	1,2,4-Trichlorobenzene	ND	123	619	U
91-20-3	Naphthalene	ND	123	619	U
106-47-8	4-Chloroaniline	ND	123	619	U
87-68-3	Hexachlorobutadiene	ND	123	619	U
59-50-7	4-Chloro-3-methylphenol	ND	123	619	U
91-57-6	2-Methylnaphthylene	ND	123	619	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B GCMS	File ID:	E11561.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 18:11
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	123	619	U
88-06-2	2,4,6-Trichlorophenol	ND	123	619	U
95-95-4	2,4,5-Trichlorophenol	ND	123	619	U
91-58-7	2-Chloronaphthalene	ND	123	619	U
88-74-4	2-Nitroaniline	ND	123	619	U
131-11-3	Dimethylphthalate	ND	123	619	U
208-96-8	Acenaphthylene	ND	123	619	U
99-09-2	3-Nitroaniline	ND	123	619	U
83-32-9	Acenaphthene	ND	123	619	U
51-28-5	2,4-Dinitrophenol	ND	123	1230	U
100-02-7	4-Nitrophenol	ND	123	619	U
132-64-9	Dibenzofuran	ND	123	619	U
606-20-2	2,6-Dinitrotoluene	ND	123	619	U
121-14-2	2,4-Dinitrotoluene	ND	123	619	U
84-66-2	Diethyl phthalate	ND	123	619	U
7005-72-3	4-Chlorophenyl-phenylether	ND	123	619	U
86-73-7	Fluorene	ND	123	619	U
100-01-6	4-Nitroaniline	ND	123	619	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	123	619	U
86-30-6	N-Nitrosodiphenylamine	ND	123	619	U
101-55-3	4-Bromophenyl-phenylether	ND	123	619	U
118-74-1	Hexachlorobenzene	ND	123	619	U
87-86-5	Pentachlorophenol	ND	123	619	U
85-01-8	Phenanthrene	815	123	619	
120-12-7	Anthracene	141	123	619	J
84-74-2	Di-n-butyl phthalate	ND	123	619	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 3550B GCMS	File ID:	E11561.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 18:11
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	959	123	619	
129-00-0	Pyrene	1090	123	619	
85-68-7	Butylbenzylphthalate	ND	123	619	U
91-94-1	3,3'-Dichlorobenzidine	ND	307	619	U
56-55-3	Benzo[a]anthracene	431	123	619	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	123	619	U
218-01-9	Chrysene	482	123	619	J
117-84-0	Di-n-octyl phthalate	ND	123	619	U
205-99-2	Benzo[b]fluoranthene	520	123	619	J
207-08-9	Benzo[k]fluoranthene	174	123	619	J
50-32-8	Benzo[a]pyrene	420	123	619	J
193-39-5	Indeno(1,2,3-cd)pyrene	261	123	619	J
53-70-3	Dibenzo(a,h)anthracene	ND	123	619	U
191-24-2	Benzo[ghi]perylene	294	123	619	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	53%	30-130
Phenol-d5	59%	30-130
Nitrobenzene-d5	72%	30-130
2-Fluorobiphenyl	83%	30-130
2,4,6-Tribromophenol	80%	30-130
Terphenyl-d14	99%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11556.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 14:35
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.5	193	U
108-95-2	Phenol	ND	38.5	193	U
111-44-4	bis(2-chloroethyl)ether	ND	38.5	193	U
95-57-8	2-Chlorophenol	ND	38.5	193	U
541-73-1	1,3-Dichlorobenzene	ND	38.5	193	U
106-46-7	1,4-Dichlorobenzene	ND	38.5	193	U
100-51-6	Benzyl alcohol	ND	38.5	193	U
95-50-1	1,2-Dichlorobenzene	ND	38.5	193	U
95-48-7	2-Methylphenol	ND	38.5	193	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.5	193	U
106-44-5	3 & 4-Methylphenol	ND	38.5	193	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.5	193	U
67-72-1	Hexachloroethane	ND	38.5	193	U
98-95-3	Nitrobenzene	ND	38.5	193	U
78-59-1	Isophorone	ND	38.5	193	U
88-75-5	2-Nitrophenol	ND	38.5	193	U
105-67-9	2,4-Dimethylphenol	ND	38.5	193	U
65-85-0	Benzoic acid	ND	96.0	385	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.5	193	U
120-83-2	2,4-Dichlorophenol	ND	38.5	193	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.5	193	U
91-20-3	Naphthalene	10300	38.5	193	E
106-47-8	4-Chloroaniline	ND	38.5	193	U
87-68-3	Hexachlorobutadiene	ND	38.5	193	U
59-50-7	4-Chloro-3-methylphenol	ND	38.5	193	U
91-57-6	2-Methylnaphthylene	10200	38.5	193	E

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ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11556.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 14:35
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	38.5	193	U
88-06-2	2,4,6-Trichlorophenol	ND	38.5	193	U
95-95-4	2,4,5-Trichlorophenol	ND	38.5	193	U
91-58-7	2-Chloronaphthalene	ND	38.5	193	U
88-74-4	2-Nitroaniline	ND	38.5	193	U
131-11-3	Dimethylphthalate	ND	38.5	193	U
208-96-8	Acenaphthylene	ND	38.5	193	U
99-09-2	3-Nitroaniline	ND	38.5	193	U
83-32-9	Acenaphthene	42.7	38.5	193	J
51-28-5	2,4-Dinitrophenol	ND	38.5	385	U
100-02-7	4-Nitrophenol	ND	38.5	193	U
132-64-9	Dibenzofuran	ND	38.5	193	U
606-20-2	2,6-Dinitrotoluene	ND	38.5	193	U
121-14-2	2,4-Dinitrotoluene	ND	38.5	193	U
84-66-2	Diethyl phthalate	ND	38.5	193	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.5	193	U
86-73-7	Fluorene	113	38.5	193	J
100-01-6	4-Nitroaniline	ND	38.5	193	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.5	193	U
86-30-6	N-Nitrosodiphenylamine	ND	38.5	193	U
101-55-3	4-Bromophenyl-phenylether	ND	38.5	193	U
118-74-1	Hexachlorobenzene	ND	38.5	193	U
87-86-5	Pentachlorophenol	ND	38.5	193	U
85-01-8	Phenanthrene	215	38.5	193	
120-12-7	Anthracene	53.5	38.5	193	J
84-74-2	Di-n-butyl phthalate	ND	38.5	193	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11556.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 14:35
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	114	38.5	193	J
129-00-0	Pyrene	116	38.5	193	J
85-68-7	Butylbenzylphthalate	ND	38.5	193	U
91-94-1	3,3'-Dichlorobenzidine	ND	96.0	193	U
56-55-3	Benzo[a]anthracene	50.6	38.5	193	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.5	193	U
218-01-9	Chrysene	48.4	38.5	193	J
117-84-0	Di-n-octyl phthalate	ND	38.5	193	U
205-99-2	Benzo[b]fluoranthene	ND	38.5	193	U
207-08-9	Benzo[k]fluoranthene	ND	38.5	193	U
50-32-8	Benzo[a]pyrene	ND	38.5	193	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.5	193	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.5	193	U
191-24-2	Benzo[ghi]perylene	ND	38.5	193	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	58%	30-130
Phenol-d5	65%	30-130
Nitrobenzene-d5	66%	30-130
2-Fluorobiphenyl	79%	30-130
2,4,6-Tribromophenol	91%	30-130
Terphenyl-d14	91%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11558.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 16:01
Dilution:	10			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	385	1930	U
108-95-2	Phenol	ND	385	1930	U
111-44-4	bis(2-chloroethyl)ether	ND	385	1930	U
95-57-8	2-Chlorophenol	ND	385	1930	U
541-73-1	1,3-Dichlorobenzene	ND	385	1930	U
106-46-7	1,4-Dichlorobenzene	ND	385	1930	U
100-51-6	Benzyl alcohol	ND	385	1930	U
95-50-1	1,2-Dichlorobenzene	ND	385	1930	U
95-48-7	2-Methylphenol	ND	385	1930	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	385	1930	U
106-44-5	3 & 4-Methylphenol	ND	385	1930	U
621-64-7	N-Nitroso-di-n-propylamine	ND	385	1930	U
67-72-1	Hexachloroethane	ND	385	1930	U
98-95-3	Nitrobenzene	ND	385	1930	U
78-59-1	Isophorone	ND	385	1930	U
88-75-5	2-Nitrophenol	ND	385	1930	U
105-67-9	2,4-Dimethylphenol	ND	385	1930	U
65-85-0	Benzoic acid	ND	960	3850	U
111-91-1	bis(2-chloroethoxy)methane	ND	385	1930	U
120-83-2	2,4-Dichlorophenol	ND	385	1930	U
120-82-1	1,2,4-Trichlorobenzene	ND	385	1930	U
91-20-3	Naphthalene	14200	385	1930	D
106-47-8	4-Chloroaniline	ND	385	1930	U
87-68-3	Hexachlorobutadiene	ND	385	1930	U
59-50-7	4-Chloro-3-methylphenol	ND	385	1930	U
91-57-6	2-Methylnaphthylene	11300	385	1930	D

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11558.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 16:01
Dilution:	10			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	385	1930	U
88-06-2	2,4,6-Trichlorophenol	ND	385	1930	U
95-95-4	2,4,5-Trichlorophenol	ND	385	1930	U
91-58-7	2-Chloronaphthalene	ND	385	1930	U
88-74-4	2-Nitroaniline	ND	385	1930	U
131-11-3	Dimethylphthalate	ND	385	1930	U
208-96-8	Acenaphthylene	ND	385	1930	U
99-09-2	3-Nitroaniline	ND	385	1930	U
83-32-9	Acenaphthene	ND	385	1930	U
51-28-5	2,4-Dinitrophenol	ND	385	3850	U
100-02-7	4-Nitrophenol	ND	385	1930	U
132-64-9	Dibenzofuran	ND	385	1930	U
606-20-2	2,6-Dinitrotoluene	ND	385	1930	U
121-14-2	2,4-Dinitrotoluene	ND	385	1930	U
84-66-2	Diethyl phthalate	ND	385	1930	U
7005-72-3	4-Chlorophenyl-phenylether	ND	385	1930	U
86-73-7	Fluorene	ND	385	1930	U
100-01-6	4-Nitroaniline	ND	385	1930	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	385	1930	U
86-30-6	N-Nitrosodiphenylamine	ND	385	1930	U
101-55-3	4-Bromophenyl-phenylether	ND	385	1930	U
118-74-1	Hexachlorobenzene	ND	385	1930	U
87-86-5	Pentachlorophenol	ND	385	1930	U
85-01-8	Phenanthrene	ND	385	1930	U
120-12-7	Anthracene	ND	385	1930	U
84-74-2	Di-n-butyl phthalate	ND	385	1930	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 3550B GCMS	File ID:	E11558.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 16:01
Dilution:	10			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	ND	385	1930	U
129-00-0	Pyrene	ND	385	1930	U
85-68-7	Butylbenzylphthalate	ND	385	1930	U
91-94-1	3,3'-Dichlorobenzidine	ND	960	1930	U
56-55-3	Benzo[a]anthracene	ND	385	1930	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	385	1930	U
218-01-9	Chrysene	ND	385	1930	U
117-84-0	Di-n-octyl phthalate	ND	385	1930	U
205-99-2	Benzo[b]fluoranthene	ND	385	1930	U
207-08-9	Benzo[k]fluoranthene	ND	385	1930	U
50-32-8	Benzo[a]pyrene	ND	385	1930	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	385	1930	U
53-70-3	Dibenzo(a,h)anthracene	ND	385	1930	U
191-24-2	Benzo[ghi]perylene	ND	385	1930	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	56%	30-130
Phenol-d5	63%	30-130
Nitrobenzene-d5	72%	30-130
2-Fluorobiphenyl	81%	30-130
2,4,6-Tribromophenol	68%	30-130
Terphenyl-d14	95%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B GCMS	File ID:	E11557.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 15:18
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.1	191	U
108-95-2	Phenol	ND	38.1	191	U
111-44-4	bis(2-chloroethyl)ether	ND	38.1	191	U
95-57-8	2-Chlorophenol	ND	38.1	191	U
541-73-1	1,3-Dichlorobenzene	ND	38.1	191	U
106-46-7	1,4-Dichlorobenzene	ND	38.1	191	U
100-51-6	Benzyl alcohol	ND	38.1	191	U
95-50-1	1,2-Dichlorobenzene	ND	38.1	191	U
95-48-7	2-Methylphenol	ND	38.1	191	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.1	191	U
106-44-5	3 & 4-Methylphenol	ND	38.1	191	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.1	191	U
67-72-1	Hexachloroethane	ND	38.1	191	U
98-95-3	Nitrobenzene	ND	38.1	191	U
78-59-1	Isophorone	ND	38.1	191	U
88-75-5	2-Nitrophenol	ND	38.1	191	U
105-67-9	2,4-Dimethylphenol	ND	38.1	191	U
65-85-0	Benzoic acid	ND	95.0	381	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.1	191	U
120-83-2	2,4-Dichlorophenol	ND	38.1	191	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.1	191	U
91-20-3	Naphthalene	1190	38.1	191	
106-47-8	4-Chloroaniline	ND	38.1	191	U
87-68-3	Hexachlorobutadiene	ND	38.1	191	U
59-50-7	4-Chloro-3-methylphenol	ND	38.1	191	U
91-57-6	2-Methylnaphthylene	1140	38.1	191	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B GCMS	File ID:	E11557.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 15:18
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	38.1	191	U
88-06-2	2,4,6-Trichlorophenol	ND	38.1	191	U
95-95-4	2,4,5-Trichlorophenol	ND	38.1	191	U
91-58-7	2-Chloronaphthalene	ND	38.1	191	U
88-74-4	2-Nitroaniline	ND	38.1	191	U
131-11-3	Dimethylphthalate	ND	38.1	191	U
208-96-8	Acenaphthylene	ND	38.1	191	U
99-09-2	3-Nitroaniline	ND	38.1	191	U
83-32-9	Acenaphthene	ND	38.1	191	U
51-28-5	2,4-Dinitrophenol	ND	38.1	381	U
100-02-7	4-Nitrophenol	ND	38.1	191	U
132-64-9	Dibenzofuran	ND	38.1	191	U
606-20-2	2,6-Dinitrotoluene	ND	38.1	191	U
121-14-2	2,4-Dinitrotoluene	ND	38.1	191	U
84-66-2	Diethyl phthalate	ND	38.1	191	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.1	191	U
86-73-7	Fluorene	ND	38.1	191	U
100-01-6	4-Nitroaniline	ND	38.1	191	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.1	191	U
86-30-6	N-Nitrosodiphenylamine	ND	38.1	191	U
101-55-3	4-Bromophenyl-phenylether	ND	38.1	191	U
118-74-1	Hexachlorobenzene	ND	38.1	191	U
87-86-5	Pentachlorophenol	ND	38.1	191	U
85-01-8	Phenanthrene	ND	38.1	191	U
120-12-7	Anthracene	ND	38.1	191	U
84-74-2	Di-n-butyl phthalate	ND	38.1	191	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/09/16 05:29	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 3550B GCMS	File ID:	E11557.D
Prep Batch:	B6K0901	Sequence:	S6K0908	Analyzed:	11/09/16 15:18
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	ND	38.1	191	U
129-00-0	Pyrene	ND	38.1	191	U
85-68-7	Butylbenzylphthalate	ND	38.1	191	U
91-94-1	3,3'-Dichlorobenzidine	ND	95.0	191	U
56-55-3	Benzo[a]anthracene	ND	38.1	191	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.1	191	U
218-01-9	Chrysene	ND	38.1	191	U
117-84-0	Di-n-octyl phthalate	ND	38.1	191	U
205-99-2	Benzo[b]fluoranthene	ND	38.1	191	U
207-08-9	Benzo[k]fluoranthene	ND	38.1	191	U
50-32-8	Benzo[a]pyrene	ND	38.1	191	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.1	191	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.1	191	U
191-24-2	Benzo[ghi]perylene	ND	38.1	191	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	59%	30-130
Phenol-d5	62%	30-130
Nitrobenzene-d5	76%	30-130
2-Fluorobiphenyl	78%	30-130
2,4,6-Tribromophenol	77%	30-130
Terphenyl-d14	94%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/11/16 15:12	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 5035A	File ID:	A10263.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:12
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	33.2	55.3	U
107-13-1	Acrylonitrile	ND	11.1	55.3	U
67-64-1	Acetone	129	5.53	11.1	B
75-71-8	Dichlorodifluoromethane	ND	5.53	11.1	U
74-87-3	Chloromethane	ND	5.53	11.1	U
75-01-4	Vinyl chloride	ND	5.53	11.1	U
74-83-9	Bromomethane	ND	5.53	11.1	U
75-00-3	Chloroethane	ND	5.53	11.1	U
75-69-4	Trichlorofluoromethane	ND	5.53	11.1	U
75-35-4	1,1-Dichloroethene	ND	5.53	11.1	U
75-15-0	Carbon disulfide	ND	5.53	11.1	U
75-09-2	Methylene Chloride	ND	5.53	11.1	U
156-60-5	trans-1,2-Dichloroethene	ND	5.53	11.1	U
75-34-3	1,1-Dichloroethane	ND	5.53	11.1	U
108-05-4	Vinyl acetate	ND	5.53	11.1	U
590-20-7	2,2-Dichloropropane	ND	5.53	11.1	U
78-93-3	2-Butanone	44.4	5.53	11.1	
156-59-4	cis-1,2-Dichloroethene	ND	5.53	11.1	U
67-66-3	Chloroform	ND	5.53	11.1	U
74-97-5	Bromochloromethane	ND	5.53	11.1	U
71-55-6	1,1,1-Trichloroethane	ND	5.53	11.1	U
563-58-6	1,1-Dichloropropene	ND	5.53	11.1	U
56-23-5	Carbon Tetrachloride	ND	5.53	11.1	U
107-06-2	1,2-Dichloroethane	ND	5.53	11.1	U
71-43-2	Benzene	ND	5.53	11.1	U
79-01-6	Trichloroethene	ND	5.53	11.1	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/11/16 15:12	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 5035A	File ID:	A10263.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:12
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	5.53	11.1	U
75-27-4	Bromodichloromethane	ND	5.53	11.1	U
74-95-3	Dibromomethane	ND	5.53	11.1	U
110-75-8	2-Chloroethyl vinyl ether	ND	5.53	11.1	U
10061-01-5	cis-1,3-Dichloropropene	ND	5.53	11.1	U
108-88-3	Toluene	ND	5.53	11.1	U
10061-02-6	trans-1,3-Dichloropropene	ND	5.53	11.1	U
79-00-5	1,1,2-Trichloroethane	ND	5.53	11.1	U
108-10-1	4-Methyl-2-pentanone	ND	5.53	11.1	U
106-93-4	1,2-Dibromoethane	ND	5.53	11.1	U
591-78-6	2-Hexanone	ND	5.53	11.1	U
142-28-9	1,3-Dichloropropane	ND	5.53	11.1	U
127-18-4	Tetrachloroethene	ND	5.53	11.1	U
124-48-1	Dibromochloromethane	ND	5.53	11.1	U
100-41-4	Ethylbenzene	ND	5.53	11.1	U
108-90-7	Chlorobenzene	ND	5.53	11.1	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.53	11.1	U
108-38-3/106-42	m,p-Xylenes	ND	11.1	22.1	U
95-47-6	o-Xylene	ND	11.1	22.1	U
100-42-5	Styrene	ND	5.53	22.1	U
75-25-2	Bromoform	ND	5.53	11.1	U
98-82-8	Isopropylbenzene	ND	5.53	11.1	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.53	11.1	U
96-18-4	1,2,3-Trichloropropane	ND	5.53	11.1	U
103-65-1	n-Propyl Benzene	ND	5.53	11.1	U
108-86-1	Bromobenzene	ND	5.53	11.1	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Prep Date:	11/11/16 15:12	Matrix:	Soil
Percent Solids:	27.00	Prep Method:	EPA 5035A	File ID:	A10263.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:12
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	5.53	11.1	U
95-49-8	2-Chlorotoluene	ND	5.53	11.1	U
106-43-4	4-Chlorotoluene	ND	5.53	11.1	U
98-06-6	tert-Butylbenzene	ND	5.53	11.1	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.53	11.1	U
135-98-8	sec-Butylbenzene	ND	5.53	11.1	U
99-87-6	p-Isopropyltoluene	ND	5.53	11.1	U
541-73-1	1,3-Dichlorobenzene	ND	5.53	11.1	U
106-46-7	1,4-Dichlorobenzene	ND	5.53	11.1	U
104-51-8	n-Butyl Benzene	ND	5.53	11.1	U
95-50-1	1,2-Dichlorobenzene	ND	5.53	11.1	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.53	11.1	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.53	11.1	U
87-68-3	Hexachlorobutadiene	ND	5.53	11.1	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.53	11.1	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	114%	70-130
Toluene-d8	94%	70-130
Bromofluorobenzene	71%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/08/16 19:00	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 5035A	File ID:	A10230.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 19:00
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.88	9.80	U
107-13-1	Acrylonitrile	ND	1.96	9.80	U
67-64-1	Acetone	21.4	0.980	1.96	
75-71-8	Dichlorodifluoromethane	ND	0.980	1.96	U
74-87-3	Chloromethane	ND	0.980	1.96	U
75-01-4	Vinyl chloride	ND	0.980	1.96	U
74-83-9	Bromomethane	ND	0.980	1.96	U
75-00-3	Chloroethane	ND	0.980	1.96	U
75-69-4	Trichlorofluoromethane	ND	0.980	1.96	U
75-35-4	1,1-Dichloroethene	ND	0.980	1.96	U
75-15-0	Carbon disulfide	ND	0.980	1.96	U
75-09-2	Methylene Chloride	ND	0.980	1.96	U
156-60-5	trans-1,2-Dichloroethene	ND	0.980	1.96	U
75-34-3	1,1-Dichloroethane	ND	0.980	1.96	U
108-05-4	Vinyl acetate	ND	0.980	1.96	U
590-20-7	2,2-Dichloropropane	ND	0.980	1.96	U
78-93-3	2-Butanone	ND	0.980	1.96	U
156-59-4	cis-1,2-Dichloroethene	ND	0.980	1.96	U
67-66-3	Chloroform	ND	0.980	1.96	U
74-97-5	Bromochloromethane	ND	0.980	1.96	U
71-55-6	1,1,1-Trichloroethane	ND	0.980	1.96	U
563-58-6	1,1-Dichloropropene	ND	0.980	1.96	U
56-23-5	Carbon Tetrachloride	ND	0.980	1.96	U
107-06-2	1,2-Dichloroethane	ND	0.980	1.96	U
71-43-2	Benzene	ND	0.980	1.96	U
79-01-6	Trichloroethene	ND	0.980	1.96	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/08/16 19:00	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 5035A	File ID:	A10230.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 19:00
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.980	1.96	U
75-27-4	Bromodichloromethane	ND	0.980	1.96	U
74-95-3	Dibromomethane	ND	0.980	1.96	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.980	1.96	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.980	1.96	U
108-88-3	Toluene	ND	0.980	1.96	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.980	1.96	U
79-00-5	1,1,2-Trichloroethane	ND	0.980	1.96	U
108-10-1	4-Methyl-2-pentanone	ND	0.980	1.96	U
106-93-4	1,2-Dibromoethane	ND	0.980	1.96	U
591-78-6	2-Hexanone	ND	0.980	1.96	U
142-28-9	1,3-Dichloropropane	ND	0.980	1.96	U
127-18-4	Tetrachloroethene	ND	0.980	1.96	U
124-48-1	Dibromochloromethane	ND	0.980	1.96	U
100-41-4	Ethylbenzene	13.0	0.980	1.96	
108-90-7	Chlorobenzene	ND	0.980	1.96	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.980	1.96	U
108-38-3/106-42	m,p-Xylenes	ND	1.96	3.92	U
95-47-6	o-Xylene	ND	1.96	3.92	U
100-42-5	Styrene	ND	0.980	3.92	U
75-25-2	Bromoform	ND	0.980	1.96	U
98-82-8	Isopropylbenzene	37.3	0.980	1.96	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.980	1.96	U
96-18-4	1,2,3-Trichloropropane	ND	0.980	1.96	U
103-65-1	n-Propyl Benzene	103	0.980	1.96	
108-86-1	Bromobenzene	ND	0.980	1.96	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Prep Date:	11/08/16 19:00	Matrix:	Soil
Percent Solids:	86.50	Prep Method:	EPA 5035A	File ID:	A10230.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 19:00
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.980	1.96	U
95-49-8	2-Chlorotoluene	ND	0.980	1.96	U
106-43-4	4-Chlorotoluene	ND	0.980	1.96	U
98-06-6	tert-Butylbenzene	ND	0.980	1.96	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.980	1.96	U
135-98-8	sec-Butylbenzene	ND	0.980	1.96	U
99-87-6	p-Isopropyltoluene	ND	0.980	1.96	U
541-73-1	1,3-Dichlorobenzene	ND	0.980	1.96	U
106-46-7	1,4-Dichlorobenzene	ND	0.980	1.96	U
104-51-8	n-Butyl Benzene	12.6	0.980	1.96	
95-50-1	1,2-Dichlorobenzene	ND	0.980	1.96	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.980	1.96	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.980	1.96	U
87-68-3	Hexachlorobutadiene	ND	0.980	1.96	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.980	1.96	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	87%	70-130
Toluene-d8	93%	70-130
Bromofluorobenzene	94%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/08/16 20:03	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10232.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 20:03
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	137	229	U
107-13-1	Acrylonitrile	ND	45.8	229	U
67-64-1	Acetone	ND	22.9	45.8	U
75-71-8	Dichlorodifluoromethane	ND	22.9	45.8	U
74-87-3	Chloromethane	ND	22.9	45.8	U
75-01-4	Vinyl chloride	ND	22.9	45.8	U
74-83-9	Bromomethane	ND	22.9	45.8	U
75-00-3	Chloroethane	ND	22.9	45.8	U
75-69-4	Trichlorofluoromethane	ND	22.9	45.8	U
75-35-4	1,1-Dichloroethene	ND	22.9	45.8	U
75-15-0	Carbon disulfide	ND	22.9	45.8	U
75-09-2	Methylene Chloride	ND	22.9	45.8	U
156-60-5	trans-1,2-Dichloroethene	ND	22.9	45.8	U
75-34-3	1,1-Dichloroethane	ND	22.9	45.8	U
108-05-4	Vinyl acetate	ND	22.9	45.8	U
590-20-7	2,2-Dichloropropane	ND	22.9	45.8	U
78-93-3	2-Butanone	ND	22.9	45.8	U
156-59-4	cis-1,2-Dichloroethene	ND	22.9	45.8	U
67-66-3	Chloroform	ND	22.9	45.8	U
74-97-5	Bromochloromethane	ND	22.9	45.8	U
71-55-6	1,1,1-Trichloroethane	ND	22.9	45.8	U
563-58-6	1,1-Dichloropropene	ND	22.9	45.8	U
56-23-5	Carbon Tetrachloride	ND	22.9	45.8	U
107-06-2	1,2-Dichloroethane	ND	22.9	45.8	U
71-43-2	Benzene	ND	22.9	45.8	U
79-01-6	Trichloroethene	ND	22.9	45.8	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/08/16 20:03	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10232.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 20:03
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	22.9	45.8	U
75-27-4	Bromodichloromethane	ND	22.9	45.8	U
74-95-3	Dibromomethane	ND	22.9	45.8	U
110-75-8	2-Chloroethyl vinyl ether	ND	22.9	45.8	U
10061-01-5	cis-1,3-Dichloropropene	ND	22.9	45.8	U
108-88-3	Toluene	ND	22.9	45.8	U
10061-02-6	trans-1,3-Dichloropropene	ND	22.9	45.8	U
79-00-5	1,1,2-Trichloroethane	ND	22.9	45.8	U
108-10-1	4-Methyl-2-pentanone	ND	22.9	45.8	U
106-93-4	1,2-Dibromoethane	ND	22.9	45.8	U
591-78-6	2-Hexanone	ND	22.9	45.8	U
142-28-9	1,3-Dichloropropane	ND	22.9	45.8	U
127-18-4	Tetrachloroethene	ND	22.9	45.8	U
124-48-1	Dibromochloromethane	ND	22.9	45.8	U
100-41-4	Ethylbenzene	397	22.9	45.8	D
108-90-7	Chlorobenzene	ND	22.9	45.8	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	22.9	45.8	U
108-38-3/106-42	m,p-Xylenes	ND	45.8	91.5	U
95-47-6	o-Xylene	ND	45.8	91.5	U
100-42-5	Styrene	ND	22.9	91.5	U
75-25-2	Bromoform	ND	22.9	45.8	U
98-82-8	Isopropylbenzene	1920	22.9	45.8	D
79-34-5	1,1,2,2-Tetrachloroethane	ND	22.9	45.8	U
96-18-4	1,2,3-Trichloropropane	ND	22.9	45.8	U
103-65-1	n-Propyl Benzene	7150	22.9	45.8	E, D
108-86-1	Bromobenzene	ND	22.9	45.8	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/08/16 20:03	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10232.D
Prep Batch:	B6K0818	Sequence:	S6K0809	Analyzed:	11/08/16 20:03
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	117	22.9	45.8	D
95-49-8	2-Chlorotoluene	ND	22.9	45.8	U
106-43-4	4-Chlorotoluene	ND	22.9	45.8	U
98-06-6	tert-Butylbenzene	ND	22.9	45.8	U
95-63-6	1,2,4-Trimethylbenzene	42.3	22.9	45.8	D, J
135-98-8	sec-Butylbenzene	1140	22.9	45.8	D
99-87-6	p-Isopropyltoluene	234	22.9	45.8	D
541-73-1	1,3-Dichlorobenzene	ND	22.9	45.8	U
106-46-7	1,4-Dichlorobenzene	ND	22.9	45.8	U
104-51-8	n-Butyl Benzene	2770	22.9	45.8	D
95-50-1	1,2-Dichlorobenzene	ND	22.9	45.8	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	22.9	45.8	U
120-82-1	1,2,4-Trichlorobenzene	ND	22.9	45.8	U
87-68-3	Hexachlorobutadiene	ND	22.9	45.8	U
87-61-6	1,2,3-Trichlorobenzene	ND	22.9	45.8	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	87%	70-130
Toluene-d8	91%	70-130
Bromofluorobenzene	106%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/11/16 15:43	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10264.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:43
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	686	1140	U
107-13-1	Acrylonitrile	ND	229	1140	U
67-64-1	Acetone	ND	114	229	U
75-71-8	Dichlorodifluoromethane	ND	114	229	U
74-87-3	Chloromethane	ND	114	229	U
75-01-4	Vinyl chloride	ND	114	229	U
74-83-9	Bromomethane	ND	114	229	U
75-00-3	Chloroethane	ND	114	229	U
75-69-4	Trichlorofluoromethane	ND	114	229	U
75-35-4	1,1-Dichloroethene	ND	114	229	U
75-15-0	Carbon disulfide	ND	114	229	U
75-09-2	Methylene Chloride	ND	114	229	U
156-60-5	trans-1,2-Dichloroethene	ND	114	229	U
75-34-3	1,1-Dichloroethane	ND	114	229	U
108-05-4	Vinyl acetate	ND	114	229	U
590-20-7	2,2-Dichloropropane	ND	114	229	U
78-93-3	2-Butanone	ND	114	229	U
156-59-4	cis-1,2-Dichloroethene	ND	114	229	U
67-66-3	Chloroform	ND	114	229	U
74-97-5	Bromochloromethane	ND	114	229	U
71-55-6	1,1,1-Trichloroethane	ND	114	229	U
563-58-6	1,1-Dichloropropene	ND	114	229	U
56-23-5	Carbon Tetrachloride	ND	114	229	U
107-06-2	1,2-Dichloroethane	ND	114	229	U
71-43-2	Benzene	ND	114	229	U
79-01-6	Trichloroethene	ND	114	229	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/11/16 15:43	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10264.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:43
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	114	229	U
75-27-4	Bromodichloromethane	ND	114	229	U
74-95-3	Dibromomethane	ND	114	229	U
110-75-8	2-Chloroethyl vinyl ether	ND	114	229	U
10061-01-5	cis-1,3-Dichloropropene	ND	114	229	U
108-88-3	Toluene	ND	114	229	U
10061-02-6	trans-1,3-Dichloropropene	ND	114	229	U
79-00-5	1,1,2-Trichloroethane	ND	114	229	U
108-10-1	4-Methyl-2-pentanone	ND	114	229	U
106-93-4	1,2-Dibromoethane	ND	114	229	U
591-78-6	2-Hexanone	ND	114	229	U
142-28-9	1,3-Dichloropropane	ND	114	229	U
127-18-4	Tetrachloroethene	ND	114	229	U
124-48-1	Dibromochloromethane	ND	114	229	U
100-41-4	Ethylbenzene	ND	114	229	U
108-90-7	Chlorobenzene	ND	114	229	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	114	229	U
108-38-3/106-42	m,p-Xylenes	ND	229	458	U
95-47-6	o-Xylene	ND	229	458	U
100-42-5	Styrene	ND	114	458	U
75-25-2	Bromoform	ND	114	229	U
98-82-8	Isopropylbenzene	ND	114	229	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	114	229	U
96-18-4	1,2,3-Trichloropropane	ND	114	229	U
103-65-1	n-Propyl Benzene	6640	114	229	D
108-86-1	Bromobenzene	ND	114	229	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03RE1
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Prep Date:	11/11/16 15:43	Matrix:	Soil
Percent Solids:	87.40	Prep Method:	EPA 5035A	File ID:	A10264.D
Prep Batch:	B6K1113	Sequence:	S6K1109	Analyzed:	11/11/16 15:43
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	114	229	U
95-49-8	2-Chlorotoluene	ND	114	229	U
106-43-4	4-Chlorotoluene	ND	114	229	U
98-06-6	tert-Butylbenzene	ND	114	229	U
95-63-6	1,2,4-Trimethylbenzene	ND	114	229	U
135-98-8	sec-Butylbenzene	ND	114	229	U
99-87-6	p-Isopropyltoluene	ND	114	229	U
541-73-1	1,3-Dichlorobenzene	ND	114	229	U
106-46-7	1,4-Dichlorobenzene	ND	114	229	U
104-51-8	n-Butyl Benzene	ND	114	229	U
95-50-1	1,2-Dichlorobenzene	ND	114	229	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	114	229	U
120-82-1	1,2,4-Trichlorobenzene	ND	114	229	U
87-68-3	Hexachlorobutadiene	ND	114	229	U
87-61-6	1,2,3-Trichlorobenzene	ND	114	229	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	103%	70-130
Toluene-d8	101%	70-130
Bromofluorobenzene	102%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Matrix:	Soil
Percent Solids:	27.00	File ID:	110816A-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	13000	67.2	67.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-97-6	Mercury	ND	0.278	0.278	1	U	11/11/16 07:31	EPA 7471A	11/11/16 13:13 PRT	EPA 7471
7440-36-0	Antimony	ND	13.4	13.4	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-38-2	Arsenic	5.44	3.36	3.36	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-39-3	Barium	74.8	67.2	67.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-41-7	Beryllium	ND	1.68	1.68	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-43-9	Cadmium	ND	1.68	1.68	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-70-2	Calcium	8850	84.0	84.0	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-47-3	Chromium	24.8	6.72	6.72	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-48-4	Cobalt	ND	16.8	16.8	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-50-8	Copper	25.7	10.1	10.1	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-89-6	Iron	20600	84.0	84.0	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-92-1	Lead	38.9	3.36	3.36	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-95-4	Magnesium	6320	168	168	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7439-96-5	Manganese	167	6.72	6.72	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-02-0	Nickel	16.0	13.4	13.4	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-09-7	Potassium	1810	168	168	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7782-49-2	Selenium	ND	13.4	13.4	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-22-4	Silver	ND	1.68	1.68	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-23-5	Sodium	3520	168	168	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-28-0	Thallium	ND	5.04	10.1	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-62-2	Vanadium	37.5	16.8	16.8	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010
7440-66-6	Zinc	76.3	20.2	20.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Matrix:	Soil
Percent Solids:	86.50	File ID:	110816A-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	7210	18.2	18.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0867	0.0867	1	U	11/11/16 07:31	EPA 7471A	11/11/16 13:15 PRT	EPA 7471
7440-36-0	Antimony	ND	3.64	3.64	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-38-2	Arsenic	1.08	0.911	0.911	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-39-3	Barium	41.7	18.2	18.2	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.456	0.456	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.456	0.456	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-70-2	Calcium	8550	22.8	22.8	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-47-3	Chromium	16.1	1.82	1.82	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-48-4	Cobalt	7.27	4.56	4.56	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-50-8	Copper	18.2	2.73	2.73	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7439-89-6	Iron	15800	569	569	25	D	11/07/16 15:34	EPA 3050B	11/08/16 13:57 LIT	EPA 6010
7439-92-1	Lead	7.79	0.911	0.911	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7439-95-4	Magnesium	7720	45.6	45.6	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7439-96-5	Manganese	415	1.82	1.82	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-02-0	Nickel	12.9	3.64	3.64	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-09-7	Potassium	1690	45.6	45.6	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7782-49-2	Selenium	ND	3.64	3.64	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-22-4	Silver	ND	0.456	0.456	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-23-5	Sodium	185	45.6	45.6	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-28-0	Thallium	ND	1.37	2.73	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-62-2	Vanadium	27.5	4.56	4.56	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010
7440-66-6	Zinc	43.0	5.47	5.47	1		11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
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J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Matrix:	Soil
Percent Solids:	87.40	File ID:	110816A-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	6580	18.3	18.3	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0858	0.0858	1	U	11/11/16 07:31	EPA 7471A	11/11/16 13:17 PRT	EPA 7471
7440-36-0	Antimony	ND	3.65	3.65	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-38-2	Arsenic	0.958	0.913	0.913	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-39-3	Barium	38.2	18.3	18.3	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.457	0.457	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-43-9	Cadmium	ND	0.457	0.457	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-70-2	Calcium	8710	22.8	22.8	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-47-3	Chromium	14.3	1.83	1.83	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-48-4	Cobalt	7.10	4.57	4.57	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-50-8	Copper	17.1	2.74	2.74	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7439-89-6	Iron	15600	571	571	25	D	11/07/16 15:34	EPA 3050B	11/08/16 14:02 LIT	EPA 6010
7439-92-1	Lead	8.52	0.913	0.913	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7439-95-4	Magnesium	7580	45.7	45.7	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7439-96-5	Manganese	556	1.83	1.83	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-02-0	Nickel	11.1	3.65	3.65	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-09-7	Potassium	1530	45.7	45.7	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7782-49-2	Selenium	ND	3.65	3.65	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-22-4	Silver	ND	0.457	0.457	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-23-5	Sodium	180	45.7	45.7	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-28-0	Thallium	ND	1.37	2.74	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-62-2	Vanadium	23.7	4.57	4.57	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010
7440-66-6	Zinc	41.1	5.48	5.48	1		11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
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J - Indicates estimated value for TICs and all results when detected below the RL
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RL - Reporting limit

Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Matrix:	Soil
Percent Solids:	27.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	24.8	1.81	1.81	1		11/09/16 10:00	[CALC]	11/10/16 12:53 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	7.41	7.41	1	U	11/09/16 10:00	SW 846 3060A	11/10/16 12:53 NNM	EPA 7196A
NA	Cyanide (total)	ND	3.70	3.70	1	U	11/14/16 09:14	EPA 9010C	11/14/16 15:02 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	27.0	0.100	0.100	1		11/07/16 14:00	Percent Solids	11/08/16 09:00 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Matrix:	Soil
Percent Solids:	86.50	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	16.1	1.58	1.58	1		11/09/16 10:00	[CALC]	11/10/16 12:53 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.31	2.31	1	U	11/09/16 10:00	SW 846 3060A	11/10/16 12:53 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.16	1.16	1	U	11/14/16 09:14	EPA 9010C	11/14/16 15:02 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	86.5	0.100	0.100	1		11/07/16 14:00	Percent Solids	11/08/16 09:00 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Matrix:	Soil
Percent Solids:	87.40	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	14.3	1.60	1.60	1		11/09/16 10:00	[CALC]	11/10/16 12:53 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.29	2.29	1	U	11/09/16 10:00	SW 846 3060A	11/10/16 12:53 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.14	1.14	1	U	11/14/16 09:14	EPA 9010C	11/14/16 15:02 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	87.4	0.100	0.100	1		11/07/16 14:00	Percent Solids	11/08/16 09:00 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1602245

Client Sample ID:	Lab Sample ID:
EP-34	1602245-01
EP-35	1602245-02
EP-36	1602245-03
EP-37	1602245-04
EP-38	1602245-05
EP-39	1602245-06
EP-39	1602245-06RE1
EP-40	1602245-07
DUP-2	1602245-08

This data has been reviewed and accepted by:

Daniel Miguel 12/08/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

Internal Chain of Custody

	Out	In
1602245-01 (A)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
1602245-01 (B)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-01 (C)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-01 (D)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-01RE1 (A)		
Walk-In Storage	12/6/16 15:37 by ARS	12/7/16 15:52 by ARS
Walk-In Storage	12/7/16 15:52 by DSM	by DSM
1602245-02 (A)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT
1602245-02 (B)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-02 (C)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-02 (D)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-02RE1 (D)		
VOA Storage	12/7/16 14:17 by SG	12/7/16 15:55 by SG

VOA Storage	12/7/16 15:55 by SG	by SG

1602245-03 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT

1602245-03 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-03 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-03 (D)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-03RE1 (D)	*Out*	*In*
VOA Storage	12/7/16 16:08 by SG	by SG

1602245-04 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT

1602245-04 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-04 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-04 (D)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-04RE1 (D)	*Out*	*In*
VOA Storage	12/7/16 14:17 by SG	12/7/16 15:55 by SG
VOA Storage	12/7/16 15:55 by SG	by SG

1602245-05 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC

Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
1602245-05 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-05 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-05 (D)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-06 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT
1602245-06 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-06 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-06 (D)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-06RE1 (A)	*Out*	*In*
Walk-In Storage	12/6/16 15:37 by ARS	12/7/16 15:32 by ARS
Walk-In Storage	12/7/16 15:32 by DSM	by DSM
1602245-07 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
1602245-07 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-07 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-07 (D)	*Out*	*In*

START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-08 (A)	*Out*	*In*
START	12/2/16 16:49 by KMC	12/2/16 16:49 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT

1602245-08 (B)	*Out*	*In*
START	12/2/16 16:49 by KMC	12/2/16 16:49 by KMC

1602245-08 (C)	*Out*	*In*
START	12/2/16 16:49 by KMC	12/2/16 16:49 by KMC

1602245-08 (D)	*Out*	*In*
START	12/2/16 16:49 by KMC	12/2/16 16:49 by KMC

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1602245**

Received: 12/2/16 16:45

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1602245
P.O. #	10BR188

ANALYSIS

PRES. CODE → 5 5 5
CONT. CODE → E G G

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-34	12/2/16 1415	S	3'	4	G	X	X	X	-01
EP-35	1424		3'						-02
EP-36	1432		4'						-03
EP-37	1440		5'						-04
EP-38	1455		4'						-05
EP-39	1505		5'						-06
EP-40	1510		6'						-07
DUP-2	1520		6'			X	X	X	-08

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER X
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: 3 DAY TAT on Results, 5 DAY TAT for CATB Report. NYSDEC Catagory B data deliverables.

COOLER TEMP. 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/2/16	Time: 1645	Date Received: / /	Time:
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-34	1602245-01	Soil	12/02/2016 14:15	12/02/2016 16:45
EP-35	1602245-02	Soil	12/02/2016 14:24	12/02/2016 16:45
EP-36	1602245-03	Soil	12/02/2016 14:32	12/02/2016 16:45
EP-37	1602245-04	Soil	12/02/2016 14:40	12/02/2016 16:45
EP-38	1602245-05	Soil	12/02/2016 14:55	12/02/2016 16:45
EP-39	1602245-06	Soil	12/02/2016 15:05	12/02/2016 16:45
EP-40	1602245-07	Soil	12/02/2016 15:10	12/02/2016 16:45
DUP-2	1602245-08	Soil	12/02/2016 15:20	12/02/2016 16:45

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23708.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:30
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.831	0.831	U
319-85-7	beta-BHC	ND	0.831	0.831	U
319-86-8	delta-BHC	ND	0.831	0.831	U
58-89-9	gamma-BHC [Lindane]	ND	0.831	0.831	U
76-44-8	Heptachlor	ND	0.831	0.831	U
309-00-2	Aldrin	ND	0.831	0.831	U
1024-57-3	Heptachlor Epoxide	ND	0.831	0.831	U
959-98-8	Endosulfan I	ND	0.831	0.831	U
60-57-1	Dieldrin	ND	1.68	1.68	U
72-55-9	4,4'-DDE	ND	1.68	1.68	U
72-20-8	Endrin	ND	1.68	1.68	U
33213-65-9	Endosulfan II	ND	1.68	1.68	U
72-54-8	4,4'-DDD	ND	1.68	1.68	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	U
50-29-3	4,4'-DDT	ND	1.68	1.68	U
72-43-5	Methoxychlor	ND	2.52	8.39	U
53494-70-5	Endrin ketone	ND	1.68	1.68	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	U
5103-71-9	alpha-Chlordane	ND	0.831	0.831	U
5566-34-7	gamma-Chlordane	ND	0.831	0.831	U
8001-35-2	Toxaphene	ND	41.9	41.9	U
12674-11-2	Aroclor-1016	ND	20.9	41.9	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23708.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:30
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.9	41.9	U
11141-16-5	Aroclor-1232	ND	20.9	41.9	U
53469-21-9	Aroclor-1242	ND	20.9	41.9	U
12672-29-6	Aroclor-1248	ND	20.9	41.9	U
11097-69-1	Aroclor-1254	ND	20.9	41.9	U
11096-82-5	Aroclor-1260	ND	20.9	41.9	U
37324-23-5	Aroclor-1262	ND	20.9	41.9	U
11100-14-4	Aroclor-1268	ND	20.9	41.9	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	67.3%	30-150
Tetrachloro-m-xylene [2C]	74.8%	30-150
Decachlorobiphenyl	70.1%	30-150
Decachlorobiphenyl [2C]	99.6%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B	File ID:	A23709.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:59
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.860	0.860	U
319-85-7	beta-BHC	ND	0.860	0.860	U
319-86-8	delta-BHC	ND	0.860	0.860	U
58-89-9	gamma-BHC [Lindane]	ND	0.860	0.860	U
76-44-8	Heptachlor	ND	0.860	0.860	U
309-00-2	Aldrin	ND	0.860	0.860	U
1024-57-3	Heptachlor Epoxide	ND	0.860	0.860	U
959-98-8	Endosulfan I	ND	0.860	0.860	U
60-57-1	Dieldrin	ND	1.73	1.73	U
72-55-9	4,4'-DDE	ND	1.73	1.73	U
72-20-8	Endrin	ND	1.73	1.73	U
33213-65-9	Endosulfan II	ND	1.73	1.73	U
72-54-8	4,4'-DDD	ND	1.73	1.73	U
1031-07-8	Endosulfan sulfate	ND	1.73	1.73	U
50-29-3	4,4'-DDT	ND	1.73	1.73	U
72-43-5	Methoxychlor	ND	2.61	8.68	U
53494-70-5	Endrin ketone	ND	1.73	1.73	U
7421-93-4	Endrin aldehyde	ND	1.73	1.73	U
5103-71-9	alpha-Chlordane	ND	0.860	0.860	U
5566-34-7	gamma-Chlordane	ND	0.860	0.860	U
8001-35-2	Toxaphene	ND	43.4	43.4	U
12674-11-2	Aroclor-1016	ND	21.6	43.4	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B	File ID:	A23709.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:59
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	21.6	43.4	U
11141-16-5	Aroclor-1232	ND	21.6	43.4	U
53469-21-9	Aroclor-1242	ND	21.6	43.4	U
12672-29-6	Aroclor-1248	ND	21.6	43.4	U
11097-69-1	Aroclor-1254	ND	21.6	43.4	U
11096-82-5	Aroclor-1260	ND	21.6	43.4	U
37324-23-5	Aroclor-1262	ND	21.6	43.4	U
11100-14-4	Aroclor-1268	ND	21.6	43.4	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	65.2%	30-150
Tetrachloro-m-xylene [2C]	69.3%	30-150
Decachlorobiphenyl	71.5%	30-150
Decachlorobiphenyl [2C]	90.7%	30-150

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B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23710.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:28
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.831	0.831	U
319-85-7	beta-BHC	ND	0.831	0.831	U
319-86-8	delta-BHC	ND	0.831	0.831	U
58-89-9	gamma-BHC [Lindane]	ND	0.831	0.831	U
76-44-8	Heptachlor	ND	0.831	0.831	U
309-00-2	Aldrin	ND	0.831	0.831	U
1024-57-3	Heptachlor Epoxide	ND	0.831	0.831	U
959-98-8	Endosulfan I	ND	0.831	0.831	U
60-57-1	Dieldrin	ND	1.68	1.68	U
72-55-9	4,4'-DDE	ND	1.68	1.68	U
72-20-8	Endrin	ND	1.68	1.68	U
33213-65-9	Endosulfan II	ND	1.68	1.68	U
72-54-8	4,4'-DDD	ND	1.68	1.68	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	U
50-29-3	4,4'-DDT	ND	1.68	1.68	U
72-43-5	Methoxychlor	ND	2.52	8.39	U
53494-70-5	Endrin ketone	ND	1.68	1.68	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	U
5103-71-9	alpha-Chlordane	ND	0.831	0.831	U
5566-34-7	gamma-Chlordane	ND	0.831	0.831	U
8001-35-2	Toxaphene	ND	41.9	41.9	U
12674-11-2	Aroclor-1016	ND	20.9	41.9	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23710.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:28
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.9	41.9	U
11141-16-5	Aroclor-1232	ND	20.9	41.9	U
53469-21-9	Aroclor-1242	ND	20.9	41.9	U
12672-29-6	Aroclor-1248	ND	20.9	41.9	U
11097-69-1	Aroclor-1254	ND	20.9	41.9	U
11096-82-5	Aroclor-1260	ND	20.9	41.9	U
37324-23-5	Aroclor-1262	ND	20.9	41.9	U
11100-14-4	Aroclor-1268	ND	20.9	41.9	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	61.7%	30-150
Tetrachloro-m-xylene [2C]	69.5%	30-150
Decachlorobiphenyl	67.0%	30-150
Decachlorobiphenyl [2C]	92.0%	30-150

* Values outside of QC limits
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J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B	File ID:	A23711.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:58
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.825	0.825	U
319-85-7	beta-BHC	ND	0.825	0.825	U
319-86-8	delta-BHC	ND	0.825	0.825	U
58-89-9	gamma-BHC [Lindane]	ND	0.825	0.825	U
76-44-8	Heptachlor	ND	0.825	0.825	U
309-00-2	Aldrin	ND	0.825	0.825	U
1024-57-3	Heptachlor Epoxide	ND	0.825	0.825	U
959-98-8	Endosulfan I	ND	0.825	0.825	U
60-57-1	Dieldrin	ND	1.66	1.66	U
72-55-9	4,4'-DDE	ND	1.66	1.66	U
72-20-8	Endrin	ND	1.66	1.66	U
33213-65-9	Endosulfan II	ND	1.66	1.66	U
72-54-8	4,4'-DDD	ND	1.66	1.66	U
1031-07-8	Endosulfan sulfate	ND	1.66	1.66	U
50-29-3	4,4'-DDT	ND	1.66	1.66	U
72-43-5	Methoxychlor	ND	2.50	8.32	U
53494-70-5	Endrin ketone	ND	1.66	1.66	U
7421-93-4	Endrin aldehyde	ND	1.66	1.66	U
5103-71-9	alpha-Chlordane	ND	0.825	0.825	U
5566-34-7	gamma-Chlordane	ND	0.825	0.825	U
8001-35-2	Toxaphene	ND	41.6	41.6	U
12674-11-2	Aroclor-1016	ND	20.8	41.6	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B	File ID:	A23711.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:58
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.8	41.6	U
11141-16-5	Aroclor-1232	ND	20.8	41.6	U
53469-21-9	Aroclor-1242	ND	20.8	41.6	U
12672-29-6	Aroclor-1248	ND	20.8	41.6	U
11097-69-1	Aroclor-1254	ND	20.8	41.6	U
11096-82-5	Aroclor-1260	ND	20.8	41.6	U
37324-23-5	Aroclor-1262	ND	20.8	41.6	U
11100-14-4	Aroclor-1268	ND	20.8	41.6	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	63.5%	30-150
Tetrachloro-m-xylene [2C]	71.6%	30-150
Decachlorobiphenyl	69.5%	30-150
Decachlorobiphenyl [2C]	90.8%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B	File ID:	A23712.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:27
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.793	0.793	U
319-85-7	beta-BHC	ND	0.793	0.793	U
319-86-8	delta-BHC	ND	0.793	0.793	U
58-89-9	gamma-BHC [Lindane]	ND	0.793	0.793	U
76-44-8	Heptachlor	ND	0.793	0.793	U
309-00-2	Aldrin	ND	0.793	0.793	U
1024-57-3	Heptachlor Epoxide	ND	0.793	0.793	U
959-98-8	Endosulfan I	ND	0.793	0.793	U
60-57-1	Dieldrin	ND	1.60	1.60	U
72-55-9	4,4'-DDE	ND	1.60	1.60	U
72-20-8	Endrin	ND	1.60	1.60	U
33213-65-9	Endosulfan II	ND	1.60	1.60	U
72-54-8	4,4'-DDD	ND	1.60	1.60	U
1031-07-8	Endosulfan sulfate	ND	1.60	1.60	U
50-29-3	4,4'-DDT	ND	1.60	1.60	U
72-43-5	Methoxychlor	ND	2.40	8.00	U
53494-70-5	Endrin ketone	ND	1.60	1.60	U
7421-93-4	Endrin aldehyde	ND	1.60	1.60	U
5103-71-9	alpha-Chlordane	ND	0.793	0.793	U
5566-34-7	gamma-Chlordane	ND	0.793	0.793	U
8001-35-2	Toxaphene	ND	40.0	40.0	U
12674-11-2	Aroclor-1016	ND	20.0	40.0	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B	File ID:	A23712.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:27
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.0	40.0	U
11141-16-5	Aroclor-1232	ND	20.0	40.0	U
53469-21-9	Aroclor-1242	ND	20.0	40.0	U
12672-29-6	Aroclor-1248	ND	20.0	40.0	U
11097-69-1	Aroclor-1254	ND	20.0	40.0	U
11096-82-5	Aroclor-1260	ND	20.0	40.0	U
37324-23-5	Aroclor-1262	ND	20.0	40.0	U
11100-14-4	Aroclor-1268	ND	20.0	40.0	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	76.7%	30-150
Tetrachloro-m-xylene [2C]	91.1%	30-150
Decachlorobiphenyl	83.5%	30-150
Decachlorobiphenyl [2C]	84.7%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B	File ID:	A23713.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:56
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.806	0.806	U
319-85-7	beta-BHC	ND	0.806	0.806	U
319-86-8	delta-BHC	ND	0.806	0.806	U
58-89-9	gamma-BHC [Lindane]	ND	0.806	0.806	U
76-44-8	Heptachlor	ND	0.806	0.806	U
309-00-2	Aldrin	ND	0.806	0.806	U
1024-57-3	Heptachlor Epoxide	ND	0.806	0.806	U
959-98-8	Endosulfan I	ND	0.806	0.806	U
60-57-1	Dieldrin	ND	1.62	1.62	U
72-55-9	4,4'-DDE	ND	1.62	1.62	U
72-20-8	Endrin	ND	1.62	1.62	U
33213-65-9	Endosulfan II	ND	1.62	1.62	U
72-54-8	4,4'-DDD	ND	1.62	1.62	U
1031-07-8	Endosulfan sulfate	ND	1.62	1.62	U
50-29-3	4,4'-DDT	ND	1.62	1.62	U
72-43-5	Methoxychlor	ND	2.44	8.13	U
53494-70-5	Endrin ketone	ND	1.62	1.62	U
7421-93-4	Endrin aldehyde	ND	1.62	1.62	U
5103-71-9	alpha-Chlordane	ND	0.806	0.806	U
5566-34-7	gamma-Chlordane	ND	0.806	0.806	U
8001-35-2	Toxaphene	ND	40.7	40.7	U
12674-11-2	Aroclor-1016	ND	20.3	40.7	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B	File ID:	A23713.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:56
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.3	40.7	U
11141-16-5	Aroclor-1232	ND	20.3	40.7	U
53469-21-9	Aroclor-1242	ND	20.3	40.7	U
12672-29-6	Aroclor-1248	ND	20.3	40.7	U
11097-69-1	Aroclor-1254	ND	20.3	40.7	U
11096-82-5	Aroclor-1260	ND	20.3	40.7	U
37324-23-5	Aroclor-1262	ND	20.3	40.7	U
11100-14-4	Aroclor-1268	ND	20.3	40.7	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	63.9%	30-150
Tetrachloro-m-xylene [2C]	70.8%	30-150
Decachlorobiphenyl	67.2%	30-150
Decachlorobiphenyl [2C]	76.5%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B	File ID:	A23729.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 16:48
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.758	0.758	U
319-85-7	beta-BHC	ND	0.758	0.758	U
319-86-8	delta-BHC	ND	0.758	0.758	U
58-89-9	gamma-BHC [Lindane]	ND	0.758	0.758	U
76-44-8	Heptachlor	ND	0.758	0.758	U
309-00-2	Aldrin	ND	0.758	0.758	U
1024-57-3	Heptachlor Epoxide	ND	0.758	0.758	U
959-98-8	Endosulfan I	ND	0.758	0.758	U
60-57-1	Dieldrin	ND	1.53	1.53	U
72-55-9	4,4'-DDE	ND	1.53	1.53	U
72-20-8	Endrin	ND	1.53	1.53	U
33213-65-9	Endosulfan II	ND	1.53	1.53	U
72-54-8	4,4'-DDD	ND	1.53	1.53	U
1031-07-8	Endosulfan sulfate	ND	1.53	1.53	U
50-29-3	4,4'-DDT	ND	1.53	1.53	U
72-43-5	Methoxychlor	ND	2.30	7.65	U
53494-70-5	Endrin ketone	ND	1.53	1.53	U
7421-93-4	Endrin aldehyde	ND	1.53	1.53	U
5103-71-9	alpha-Chlordane	ND	0.758	0.758	U
5566-34-7	gamma-Chlordane	ND	0.758	0.758	U
8001-35-2	Toxaphene	ND	38.2	38.2	U
12674-11-2	Aroclor-1016	ND	19.1	38.2	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B	File ID:	A23729.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 16:48
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.1	38.2	U
11141-16-5	Aroclor-1232	ND	19.1	38.2	U
53469-21-9	Aroclor-1242	ND	19.1	38.2	U
12672-29-6	Aroclor-1248	ND	19.1	38.2	U
11097-69-1	Aroclor-1254	ND	19.1	38.2	U
11096-82-5	Aroclor-1260	ND	19.1	38.2	U
37324-23-5	Aroclor-1262	ND	19.1	38.2	U
11100-14-4	Aroclor-1268	ND	19.1	38.2	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	73.8%	30-150
Tetrachloro-m-xylene [2C]	89.3%	30-150
Decachlorobiphenyl	92.3%	30-150
Decachlorobiphenyl [2C]	127%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B	File ID:	A23730.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 17:17
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.767	0.767	U
319-85-7	beta-BHC	ND	0.767	0.767	U
319-86-8	delta-BHC	ND	0.767	0.767	U
58-89-9	gamma-BHC [Lindane]	ND	0.767	0.767	U
76-44-8	Heptachlor	ND	0.767	0.767	U
309-00-2	Aldrin	ND	0.767	0.767	U
1024-57-3	Heptachlor Epoxide	ND	0.767	0.767	U
959-98-8	Endosulfan I	ND	0.767	0.767	U
60-57-1	Dieldrin	ND	1.54	1.54	U
72-55-9	4,4'-DDE	ND	1.54	1.54	U
72-20-8	Endrin	ND	1.54	1.54	U
33213-65-9	Endosulfan II	ND	1.54	1.54	U
72-54-8	4,4'-DDD	ND	1.54	1.54	U
1031-07-8	Endosulfan sulfate	ND	1.54	1.54	U
50-29-3	4,4'-DDT	ND	1.54	1.54	U
72-43-5	Methoxychlor	ND	2.32	7.74	U
53494-70-5	Endrin ketone	ND	1.54	1.54	U
7421-93-4	Endrin aldehyde	ND	1.54	1.54	U
5103-71-9	alpha-Chlordane	ND	0.767	0.767	U
5566-34-7	gamma-Chlordane	ND	0.767	0.767	U
8001-35-2	Toxaphene	ND	38.7	38.7	U
12674-11-2	Aroclor-1016	ND	19.3	38.7	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B	File ID:	A23730.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 17:17
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.3	38.7	U
11141-16-5	Aroclor-1232	ND	19.3	38.7	U
53469-21-9	Aroclor-1242	ND	19.3	38.7	U
12672-29-6	Aroclor-1248	ND	19.3	38.7	U
11097-69-1	Aroclor-1254	ND	19.3	38.7	U
11096-82-5	Aroclor-1260	ND	19.3	38.7	U
37324-23-5	Aroclor-1262	ND	19.3	38.7	U
11100-14-4	Aroclor-1268	ND	19.3	38.7	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	76.6%	30-150
Tetrachloro-m-xylene [2C]	92.5%	30-150
Decachlorobiphenyl	94.1%	30-150
Decachlorobiphenyl [2C]	114%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

SEMIVOLATILES

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.9	210	U
108-95-2	Phenol	ND	41.9	210	U
111-44-4	bis(2-chloroethyl)ether	ND	41.9	210	U
95-57-8	2-Chlorophenol	ND	41.9	210	U
541-73-1	1,3-Dichlorobenzene	ND	41.9	210	U
106-46-7	1,4-Dichlorobenzene	ND	41.9	210	U
100-51-6	Benzyl alcohol	ND	41.9	210	U
95-50-1	1,2-Dichlorobenzene	ND	41.9	210	U
95-48-7	2-Methylphenol	ND	41.9	210	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.9	210	U
106-44-5	3 & 4-Methylphenol	ND	41.9	210	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.9	210	U
67-72-1	Hexachloroethane	ND	41.9	210	U
98-95-3	Nitrobenzene	ND	41.9	210	U
78-59-1	Isophorone	ND	41.9	210	U
88-75-5	2-Nitrophenol	ND	41.9	210	U
105-67-9	2,4-Dimethylphenol	ND	41.9	210	U
65-85-0	Benzoic acid	ND	105	419	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.9	210	U
120-83-2	2,4-Dichlorophenol	ND	41.9	210	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.9	210	U
91-20-3	Naphthalene	ND	41.9	210	U
106-47-8	4-Chloroaniline	ND	41.9	210	U
87-68-3	Hexachlorobutadiene	ND	41.9	210	U
59-50-7	4-Chloro-3-methylphenol	ND	41.9	210	U
91-57-6	2-Methylnaphthylene	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	41.9	210	U
88-06-2	2,4,6-Trichlorophenol	ND	41.9	210	U
95-95-4	2,4,5-Trichlorophenol	ND	41.9	210	U
91-58-7	2-Chloronaphthalene	ND	41.9	210	U
88-74-4	2-Nitroaniline	ND	41.9	210	U
131-11-3	Dimethylphthalate	ND	41.9	210	U
208-96-8	Acenaphthylene	ND	41.9	210	U
99-09-2	3-Nitroaniline	ND	41.9	210	U
83-32-9	Acenaphthene	48.4	41.9	210	J
51-28-5	2,4-Dinitrophenol	ND	41.9	419	U
100-02-7	4-Nitrophenol	ND	41.9	210	U
132-64-9	Dibenzofuran	ND	41.9	210	U
606-20-2	2,6-Dinitrotoluene	ND	41.9	210	U
121-14-2	2,4-Dinitrotoluene	ND	41.9	210	U
84-66-2	Diethyl phthalate	ND	41.9	210	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.9	210	U
86-73-7	Fluorene	61.0	41.9	210	J
100-01-6	4-Nitroaniline	ND	41.9	210	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.9	210	U
86-30-6	N-Nitrosodiphenylamine	ND	41.9	210	U
101-55-3	4-Bromophenyl-phenylether	ND	41.9	210	U
118-74-1	Hexachlorobenzene	ND	41.9	210	U
87-86-5	Pentachlorophenol	ND	41.9	210	U
85-01-8	Phenanthrene	666	41.9	210	
120-12-7	Anthracene	133	41.9	210	J
84-74-2	Di-n-butyl phthalate	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	924	41.9	210	
129-00-0	Pyrene	820	41.9	210	
85-68-7	Butylbenzylphthalate	ND	41.9	210	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	210	U
56-55-3	Benzo[a]anthracene	390	41.9	210	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.9	210	U
218-01-9	Chrysene	403	41.9	210	
117-84-0	Di-n-octyl phthalate	ND	41.9	210	U
205-99-2	Benzo[b]fluoranthene	643	41.9	210	
207-08-9	Benzo[k]fluoranthene	198	41.9	210	J
50-32-8	Benzo[a]pyrene	386	41.9	210	
193-39-5	Indeno(1,2,3-cd)pyrene	83.5	41.9	210	J
53-70-3	Dibenzo(a,h)anthracene	ND	41.9	210	U
191-24-2	Benzo[ghi]perylene	75.9	41.9	210	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	54%	30-130
Phenol-d5	64%	30-130
Nitrobenzene-d5	73%	30-130
2-Fluorobiphenyl	71%	30-130
2,4,6-Tribromophenol	74%	30-130
Terphenyl-d14	89%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	43.4	218	U
108-95-2	Phenol	ND	43.4	218	U
111-44-4	bis(2-chloroethyl)ether	ND	43.4	218	U
95-57-8	2-Chlorophenol	ND	43.4	218	U
541-73-1	1,3-Dichlorobenzene	ND	43.4	218	U
106-46-7	1,4-Dichlorobenzene	ND	43.4	218	U
100-51-6	Benzyl alcohol	ND	43.4	218	U
95-50-1	1,2-Dichlorobenzene	ND	43.4	218	U
95-48-7	2-Methylphenol	ND	43.4	218	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	43.4	218	U
106-44-5	3 & 4-Methylphenol	ND	43.4	218	U
621-64-7	N-Nitroso-di-n-propylamine	ND	43.4	218	U
67-72-1	Hexachloroethane	ND	43.4	218	U
98-95-3	Nitrobenzene	ND	43.4	218	U
78-59-1	Isophorone	ND	43.4	218	U
88-75-5	2-Nitrophenol	ND	43.4	218	U
105-67-9	2,4-Dimethylphenol	ND	43.4	218	U
65-85-0	Benzoic acid	ND	108	434	U
111-91-1	bis(2-chloroethoxy)methane	ND	43.4	218	U
120-83-2	2,4-Dichlorophenol	ND	43.4	218	U
120-82-1	1,2,4-Trichlorobenzene	ND	43.4	218	U
91-20-3	Naphthalene	47.2	43.4	218	J
106-47-8	4-Chloroaniline	ND	43.4	218	U
87-68-3	Hexachlorobutadiene	ND	43.4	218	U
59-50-7	4-Chloro-3-methylphenol	ND	43.4	218	U
91-57-6	2-Methylnaphthylene	ND	43.4	218	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	43.4	218	U
88-06-2	2,4,6-Trichlorophenol	ND	43.4	218	U
95-95-4	2,4,5-Trichlorophenol	ND	43.4	218	U
91-58-7	2-Chloronaphthalene	ND	43.4	218	U
88-74-4	2-Nitroaniline	ND	43.4	218	U
131-11-3	Dimethylphthalate	ND	43.4	218	U
208-96-8	Acenaphthylene	ND	43.4	218	U
99-09-2	3-Nitroaniline	ND	43.4	218	U
83-32-9	Acenaphthene	ND	43.4	218	U
51-28-5	2,4-Dinitrophenol	ND	43.4	434	U
100-02-7	4-Nitrophenol	ND	43.4	218	U
132-64-9	Dibenzofuran	ND	43.4	218	U
606-20-2	2,6-Dinitrotoluene	ND	43.4	218	U
121-14-2	2,4-Dinitrotoluene	ND	43.4	218	U
84-66-2	Diethyl phthalate	ND	43.4	218	U
7005-72-3	4-Chlorophenyl-phenylether	ND	43.4	218	U
86-73-7	Fluorene	51.5	43.4	218	J
100-01-6	4-Nitroaniline	ND	43.4	218	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	43.4	218	U
86-30-6	N-Nitrosodiphenylamine	ND	43.4	218	U
101-55-3	4-Bromophenyl-phenylether	ND	43.4	218	U
118-74-1	Hexachlorobenzene	ND	43.4	218	U
87-86-5	Pentachlorophenol	ND	43.4	218	U
85-01-8	Phenanthrene	512	43.4	218	
120-12-7	Anthracene	107	43.4	218	J
84-74-2	Di-n-butyl phthalate	ND	43.4	218	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	572	43.4	218	
129-00-0	Pyrene	452	43.4	218	
85-68-7	Butylbenzylphthalate	ND	43.4	218	U
91-94-1	3,3'-Dichlorobenzidine	ND	108	218	U
56-55-3	Benzo[a]anthracene	221	43.4	218	
117-81-7	bis(2-ethylhexyl)phthalate	ND	43.4	218	U
218-01-9	Chrysene	237	43.4	218	
117-84-0	Di-n-octyl phthalate	ND	43.4	218	U
205-99-2	Benzo[b]fluoranthene	263	43.4	218	
207-08-9	Benzo[k]fluoranthene	84.4	43.4	218	J
50-32-8	Benzo[a]pyrene	210	43.4	218	J
193-39-5	Indeno(1,2,3-cd)pyrene	88.4	43.4	218	J
53-70-3	Dibenzo(a,h)anthracene	ND	43.4	218	U
191-24-2	Benzo[ghi]perylene	99.9	43.4	218	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	43%	30-130
Phenol-d5	47%	30-130
Nitrobenzene-d5	52%	30-130
2-Fluorobiphenyl	52%	30-130
2,4,6-Tribromophenol	67%	30-130
Terphenyl-d14	64%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.9	210	U
108-95-2	Phenol	ND	41.9	210	U
111-44-4	bis(2-chloroethyl)ether	ND	41.9	210	U
95-57-8	2-Chlorophenol	ND	41.9	210	U
541-73-1	1,3-Dichlorobenzene	ND	41.9	210	U
106-46-7	1,4-Dichlorobenzene	ND	41.9	210	U
100-51-6	Benzyl alcohol	ND	41.9	210	U
95-50-1	1,2-Dichlorobenzene	ND	41.9	210	U
95-48-7	2-Methylphenol	ND	41.9	210	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.9	210	U
106-44-5	3 & 4-Methylphenol	ND	41.9	210	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.9	210	U
67-72-1	Hexachloroethane	ND	41.9	210	U
98-95-3	Nitrobenzene	ND	41.9	210	U
78-59-1	Isophorone	ND	41.9	210	U
88-75-5	2-Nitrophenol	ND	41.9	210	U
105-67-9	2,4-Dimethylphenol	ND	41.9	210	U
65-85-0	Benzoic acid	ND	105	419	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.9	210	U
120-83-2	2,4-Dichlorophenol	ND	41.9	210	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.9	210	U
91-20-3	Naphthalene	ND	41.9	210	U
106-47-8	4-Chloroaniline	ND	41.9	210	U
87-68-3	Hexachlorobutadiene	ND	41.9	210	U
59-50-7	4-Chloro-3-methylphenol	ND	41.9	210	U
91-57-6	2-Methylnaphthylene	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	41.9	210	U
88-06-2	2,4,6-Trichlorophenol	ND	41.9	210	U
95-95-4	2,4,5-Trichlorophenol	ND	41.9	210	U
91-58-7	2-Chloronaphthalene	ND	41.9	210	U
88-74-4	2-Nitroaniline	ND	41.9	210	U
131-11-3	Dimethylphthalate	ND	41.9	210	U
208-96-8	Acenaphthylene	ND	41.9	210	U
99-09-2	3-Nitroaniline	ND	41.9	210	U
83-32-9	Acenaphthene	85.2	41.9	210	J
51-28-5	2,4-Dinitrophenol	ND	41.9	419	U
100-02-7	4-Nitrophenol	ND	41.9	210	U
132-64-9	Dibenzofuran	55.5	41.9	210	J
606-20-2	2,6-Dinitrotoluene	ND	41.9	210	U
121-14-2	2,4-Dinitrotoluene	ND	41.9	210	U
84-66-2	Diethyl phthalate	ND	41.9	210	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.9	210	U
86-73-7	Fluorene	89.1	41.9	210	J
100-01-6	4-Nitroaniline	ND	41.9	210	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.9	210	U
86-30-6	N-Nitrosodiphenylamine	ND	41.9	210	U
101-55-3	4-Bromophenyl-phenylether	ND	41.9	210	U
118-74-1	Hexachlorobenzene	ND	41.9	210	U
87-86-5	Pentachlorophenol	ND	41.9	210	U
85-01-8	Phenanthrene	965	41.9	210	
120-12-7	Anthracene	192	41.9	210	J
84-74-2	Di-n-butyl phthalate	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	1030	41.9	210	
129-00-0	Pyrene	811	41.9	210	
85-68-7	Butylbenzylphthalate	ND	41.9	210	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	210	U
56-55-3	Benzo[a]anthracene	406	41.9	210	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.9	210	U
218-01-9	Chrysene	415	41.9	210	
117-84-0	Di-n-octyl phthalate	ND	41.9	210	U
205-99-2	Benzo[b]fluoranthene	453	41.9	210	
207-08-9	Benzo[k]fluoranthene	146	41.9	210	J
50-32-8	Benzo[a]pyrene	348	41.9	210	
193-39-5	Indeno(1,2,3-cd)pyrene	116	41.9	210	J
53-70-3	Dibenzo(a,h)anthracene	ND	41.9	210	U
191-24-2	Benzo[ghi]perylene	118	41.9	210	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	44%	30-130
Phenol-d5	49%	30-130
Nitrobenzene-d5	52%	30-130
2-Fluorobiphenyl	51%	30-130
2,4,6-Tribromophenol	68%	30-130
Terphenyl-d14	61%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.6	209	U
108-95-2	Phenol	ND	41.6	209	U
111-44-4	bis(2-chloroethyl)ether	ND	41.6	209	U
95-57-8	2-Chlorophenol	ND	41.6	209	U
541-73-1	1,3-Dichlorobenzene	ND	41.6	209	U
106-46-7	1,4-Dichlorobenzene	ND	41.6	209	U
100-51-6	Benzyl alcohol	ND	41.6	209	U
95-50-1	1,2-Dichlorobenzene	ND	41.6	209	U
95-48-7	2-Methylphenol	ND	41.6	209	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.6	209	U
106-44-5	3 & 4-Methylphenol	ND	41.6	209	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.6	209	U
67-72-1	Hexachloroethane	ND	41.6	209	U
98-95-3	Nitrobenzene	ND	41.6	209	U
78-59-1	Isophorone	ND	41.6	209	U
88-75-5	2-Nitrophenol	ND	41.6	209	U
105-67-9	2,4-Dimethylphenol	ND	41.6	209	U
65-85-0	Benzoic acid	ND	104	416	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.6	209	U
120-83-2	2,4-Dichlorophenol	ND	41.6	209	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.6	209	U
91-20-3	Naphthalene	ND	41.6	209	U
106-47-8	4-Chloroaniline	ND	41.6	209	U
87-68-3	Hexachlorobutadiene	ND	41.6	209	U
59-50-7	4-Chloro-3-methylphenol	ND	41.6	209	U
91-57-6	2-Methylnaphthylene	ND	41.6	209	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	41.6	209	U
88-06-2	2,4,6-Trichlorophenol	ND	41.6	209	U
95-95-4	2,4,5-Trichlorophenol	ND	41.6	209	U
91-58-7	2-Chloronaphthalene	ND	41.6	209	U
88-74-4	2-Nitroaniline	ND	41.6	209	U
131-11-3	Dimethylphthalate	ND	41.6	209	U
208-96-8	Acenaphthylene	ND	41.6	209	U
99-09-2	3-Nitroaniline	ND	41.6	209	U
83-32-9	Acenaphthene	ND	41.6	209	U
51-28-5	2,4-Dinitrophenol	ND	41.6	416	U
100-02-7	4-Nitrophenol	ND	41.6	209	U
132-64-9	Dibenzofuran	ND	41.6	209	U
606-20-2	2,6-Dinitrotoluene	ND	41.6	209	U
121-14-2	2,4-Dinitrotoluene	ND	41.6	209	U
84-66-2	Diethyl phthalate	ND	41.6	209	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.6	209	U
86-73-7	Fluorene	46.8	41.6	209	J
100-01-6	4-Nitroaniline	ND	41.6	209	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.6	209	U
86-30-6	N-Nitrosodiphenylamine	ND	41.6	209	U
101-55-3	4-Bromophenyl-phenylether	ND	41.6	209	U
118-74-1	Hexachlorobenzene	ND	41.6	209	U
87-86-5	Pentachlorophenol	ND	41.6	209	U
85-01-8	Phenanthrene	438	41.6	209	
120-12-7	Anthracene	92.2	41.6	209	J
84-74-2	Di-n-butyl phthalate	ND	41.6	209	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	530	41.6	209	
129-00-0	Pyrene	407	41.6	209	
85-68-7	Butylbenzylphthalate	ND	41.6	209	U
91-94-1	3,3'-Dichlorobenzidine	ND	104	209	U
56-55-3	Benzo[a]anthracene	209	41.6	209	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.6	209	U
218-01-9	Chrysene	218	41.6	209	
117-84-0	Di-n-octyl phthalate	ND	41.6	209	U
205-99-2	Benzo[b]fluoranthene	256	41.6	209	
207-08-9	Benzo[k]fluoranthene	85.6	41.6	209	J
50-32-8	Benzo[a]pyrene	202	41.6	209	J
193-39-5	Indeno(1,2,3-cd)pyrene	72.1	41.6	209	J
53-70-3	Dibenzo(a,h)anthracene	ND	41.6	209	U
191-24-2	Benzo[ghi]perylene	70.6	41.6	209	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	51%	30-130
Phenol-d5	57%	30-130
Nitrobenzene-d5	60%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	61%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	40.0	201	U
108-95-2	Phenol	ND	40.0	201	U
111-44-4	bis(2-chloroethyl)ether	ND	40.0	201	U
95-57-8	2-Chlorophenol	ND	40.0	201	U
541-73-1	1,3-Dichlorobenzene	ND	40.0	201	U
106-46-7	1,4-Dichlorobenzene	ND	40.0	201	U
100-51-6	Benzyl alcohol	ND	40.0	201	U
95-50-1	1,2-Dichlorobenzene	ND	40.0	201	U
95-48-7	2-Methylphenol	ND	40.0	201	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.0	201	U
106-44-5	3 & 4-Methylphenol	ND	40.0	201	U
621-64-7	N-Nitroso-di-n-propylamine	ND	40.0	201	U
67-72-1	Hexachloroethane	ND	40.0	201	U
98-95-3	Nitrobenzene	ND	40.0	201	U
78-59-1	Isophorone	ND	40.0	201	U
88-75-5	2-Nitrophenol	ND	40.0	201	U
105-67-9	2,4-Dimethylphenol	ND	40.0	201	U
65-85-0	Benzoic acid	ND	99.8	400	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.0	201	U
120-83-2	2,4-Dichlorophenol	ND	40.0	201	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.0	201	U
91-20-3	Naphthalene	ND	40.0	201	U
106-47-8	4-Chloroaniline	ND	40.0	201	U
87-68-3	Hexachlorobutadiene	ND	40.0	201	U
59-50-7	4-Chloro-3-methylphenol	ND	40.0	201	U
91-57-6	2-Methylnaphthylene	ND	40.0	201	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	40.0	201	U
88-06-2	2,4,6-Trichlorophenol	ND	40.0	201	U
95-95-4	2,4,5-Trichlorophenol	ND	40.0	201	U
91-58-7	2-Chloronaphthalene	ND	40.0	201	U
88-74-4	2-Nitroaniline	ND	40.0	201	U
131-11-3	Dimethylphthalate	ND	40.0	201	U
208-96-8	Acenaphthylene	ND	40.0	201	U
99-09-2	3-Nitroaniline	ND	40.0	201	U
83-32-9	Acenaphthene	ND	40.0	201	U
51-28-5	2,4-Dinitrophenol	ND	40.0	400	U
100-02-7	4-Nitrophenol	ND	40.0	201	U
132-64-9	Dibenzofuran	ND	40.0	201	U
606-20-2	2,6-Dinitrotoluene	ND	40.0	201	U
121-14-2	2,4-Dinitrotoluene	ND	40.0	201	U
84-66-2	Diethyl phthalate	ND	40.0	201	U
7005-72-3	4-Chlorophenyl-phenylether	ND	40.0	201	U
86-73-7	Fluorene	ND	40.0	201	U
100-01-6	4-Nitroaniline	ND	40.0	201	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.0	201	U
86-30-6	N-Nitrosodiphenylamine	ND	40.0	201	U
101-55-3	4-Bromophenyl-phenylether	ND	40.0	201	U
118-74-1	Hexachlorobenzene	ND	40.0	201	U
87-86-5	Pentachlorophenol	ND	40.0	201	U
85-01-8	Phenanthrene	ND	40.0	201	U
120-12-7	Anthracene	ND	40.0	201	U
84-74-2	Di-n-butyl phthalate	ND	40.0	201	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	ND	40.0	201	U
129-00-0	Pyrene	ND	40.0	201	U
85-68-7	Butylbenzylphthalate	ND	40.0	201	U
91-94-1	3,3'-Dichlorobenzidine	ND	99.8	201	U
56-55-3	Benzo[a]anthracene	ND	40.0	201	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	40.0	201	U
218-01-9	Chrysene	ND	40.0	201	U
117-84-0	Di-n-octyl phthalate	ND	40.0	201	U
205-99-2	Benzo[b]fluoranthene	ND	40.0	201	U
207-08-9	Benzo[k]fluoranthene	ND	40.0	201	U
50-32-8	Benzo[a]pyrene	ND	40.0	201	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	40.0	201	U
53-70-3	Dibenzo(a,h)anthracene	ND	40.0	201	U
191-24-2	Benzo[ghi]perylene	ND	40.0	201	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	55%	30-130
Phenol-d5	60%	30-130
Nitrobenzene-d5	64%	30-130
2-Fluorobiphenyl	61%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	70%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	40.7	204	U
108-95-2	Phenol	ND	40.7	204	U
111-44-4	bis(2-chloroethyl)ether	ND	40.7	204	U
95-57-8	2-Chlorophenol	ND	40.7	204	U
541-73-1	1,3-Dichlorobenzene	ND	40.7	204	U
106-46-7	1,4-Dichlorobenzene	ND	40.7	204	U
100-51-6	Benzyl alcohol	ND	40.7	204	U
95-50-1	1,2-Dichlorobenzene	ND	40.7	204	U
95-48-7	2-Methylphenol	90.1	40.7	204	J
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.7	204	U
106-44-5	3 & 4-Methylphenol	222	40.7	204	
621-64-7	N-Nitroso-di-n-propylamine	ND	40.7	204	U
67-72-1	Hexachloroethane	ND	40.7	204	U
98-95-3	Nitrobenzene	ND	40.7	204	U
78-59-1	Isophorone	ND	40.7	204	U
88-75-5	2-Nitrophenol	ND	40.7	204	U
105-67-9	2,4-Dimethylphenol	114	40.7	204	J
65-85-0	Benzoic acid	ND	101	407	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.7	204	U
120-83-2	2,4-Dichlorophenol	ND	40.7	204	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.7	204	U
91-20-3	Naphthalene	11100	40.7	204	E
106-47-8	4-Chloroaniline	ND	40.7	204	U
87-68-3	Hexachlorobutadiene	ND	40.7	204	U
59-50-7	4-Chloro-3-methylphenol	ND	40.7	204	U
91-57-6	2-Methylnaphthylene	4470	40.7	204	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	40.7	204	U
88-06-2	2,4,6-Trichlorophenol	ND	40.7	204	U
95-95-4	2,4,5-Trichlorophenol	ND	40.7	204	U
91-58-7	2-Chloronaphthalene	ND	40.7	204	U
88-74-4	2-Nitroaniline	ND	40.7	204	U
131-11-3	Dimethylphthalate	ND	40.7	204	U
208-96-8	Acenaphthylene	235	40.7	204	
99-09-2	3-Nitroaniline	ND	40.7	204	U
83-32-9	Acenaphthene	5530	40.7	204	E
51-28-5	2,4-Dinitrophenol	ND	40.7	407	U
100-02-7	4-Nitrophenol	ND	40.7	204	U
132-64-9	Dibenzofuran	6210	40.7	204	E
606-20-2	2,6-Dinitrotoluene	ND	40.7	204	U
121-14-2	2,4-Dinitrotoluene	ND	40.7	204	U
84-66-2	Diethyl phthalate	ND	40.7	204	U
7005-72-3	4-Chlorophenyl-phenylether	ND	40.7	204	U
86-73-7	Fluorene	6940	40.7	204	E
100-01-6	4-Nitroaniline	ND	40.7	204	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.7	204	U
86-30-6	N-Nitrosodiphenylamine	ND	40.7	204	U
101-55-3	4-Bromophenyl-phenylether	ND	40.7	204	U
118-74-1	Hexachlorobenzene	ND	40.7	204	U
87-86-5	Pentachlorophenol	ND	40.7	204	U
85-01-8	Phenanthrene	40200	40.7	204	E
120-12-7	Anthracene	9420	40.7	204	E
84-74-2	Di-n-butyl phthalate	ND	40.7	204	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	36600	40.7	204	E
129-00-0	Pyrene	47300	40.7	204	E
85-68-7	Butylbenzylphthalate	ND	40.7	204	U
91-94-1	3,3'-Dichlorobenzidine	ND	101	204	U
56-55-3	Benzo[a]anthracene	21900	40.7	204	E
117-81-7	bis(2-ethylhexyl)phthalate	ND	40.7	204	U
218-01-9	Chrysene	14400	40.7	204	E
117-84-0	Di-n-octyl phthalate	ND	40.7	204	U
205-99-2	Benzo[b]fluoranthene	30900	40.7	204	E
207-08-9	Benzo[k]fluoranthene	7450	40.7	204	E
50-32-8	Benzo[a]pyrene	15600	40.7	204	E
193-39-5	Indeno(1,2,3-cd)pyrene	3760	40.7	204	
53-70-3	Dibenzo(a,h)anthracene	1360	40.7	204	
191-24-2	Benzo[ghi]perylene	3780	40.7	204	

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	66%		30-130
Phenol-d5	74%		30-130
Nitrobenzene-d5	88%		30-130
2-Fluorobiphenyl	79%		30-130
2,4,6-Tribromophenol	96%		30-130
Terphenyl-d14	206%	*	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06RE1
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	813	4080	U
108-95-2	Phenol	ND	813	4080	U
111-44-4	bis(2-chloroethyl)ether	ND	813	4080	U
95-57-8	2-Chlorophenol	ND	813	4080	U
541-73-1	1,3-Dichlorobenzene	ND	813	4080	U
106-46-7	1,4-Dichlorobenzene	ND	813	4080	U
100-51-6	Benzyl alcohol	ND	813	4080	U
95-50-1	1,2-Dichlorobenzene	ND	813	4080	U
95-48-7	2-Methylphenol	ND	813	4080	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	813	4080	U
106-44-5	3 & 4-Methylphenol	ND	813	4080	U
621-64-7	N-Nitroso-di-n-propylamine	ND	813	4080	U
67-72-1	Hexachloroethane	ND	813	4080	U
98-95-3	Nitrobenzene	ND	813	4080	U
78-59-1	Isophorone	ND	813	4080	U
88-75-5	2-Nitrophenol	ND	813	4080	U
105-67-9	2,4-Dimethylphenol	ND	813	4080	U
65-85-0	Benzoic acid	ND	2030	8130	U
111-91-1	bis(2-chloroethoxy)methane	ND	813	4080	U
120-83-2	2,4-Dichlorophenol	ND	813	4080	U
120-82-1	1,2,4-Trichlorobenzene	ND	813	4080	U
91-20-3	Naphthalene	16600	813	4080	D
106-47-8	4-Chloroaniline	ND	813	4080	U
87-68-3	Hexachlorobutadiene	ND	813	4080	U
59-50-7	4-Chloro-3-methylphenol	ND	813	4080	U
91-57-6	2-Methylnaphthylene	4970	813	4080	D

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06RE1
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	813	4080	U
88-06-2	2,4,6-Trichlorophenol	ND	813	4080	U
95-95-4	2,4,5-Trichlorophenol	ND	813	4080	U
91-58-7	2-Chloronaphthalene	ND	813	4080	U
88-74-4	2-Nitroaniline	ND	813	4080	U
131-11-3	Dimethylphthalate	ND	813	4080	U
208-96-8	Acenaphthylene	ND	813	4080	U
99-09-2	3-Nitroaniline	ND	813	4080	U
83-32-9	Acenaphthene	7080	813	4080	D
51-28-5	2,4-Dinitrophenol	ND	813	8130	U
100-02-7	4-Nitrophenol	ND	813	4080	U
132-64-9	Dibenzofuran	7820	813	4080	D
606-20-2	2,6-Dinitrotoluene	ND	813	4080	U
121-14-2	2,4-Dinitrotoluene	ND	813	4080	U
84-66-2	Diethyl phthalate	ND	813	4080	U
7005-72-3	4-Chlorophenyl-phenylether	ND	813	4080	U
86-73-7	Fluorene	8970	813	4080	D
100-01-6	4-Nitroaniline	ND	813	4080	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	813	4080	U
86-30-6	N-Nitrosodiphenylamine	ND	813	4080	U
101-55-3	4-Bromophenyl-phenylether	ND	813	4080	U
118-74-1	Hexachlorobenzene	ND	813	4080	U
87-86-5	Pentachlorophenol	ND	813	4080	U
85-01-8	Phenanthrene	59100	813	4080	D
120-12-7	Anthracene	11600	813	4080	D
84-74-2	Di-n-butyl phthalate	ND	813	4080	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06RE1
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	41900	813	4080	D
129-00-0	Pyrene	88800	813	4080	D
85-68-7	Butylbenzylphthalate	ND	813	4080	U
91-94-1	3,3'-Dichlorobenzidine	ND	2030	4080	U
56-55-3	Benzo[a]anthracene	19800	813	4080	D
117-81-7	bis(2-ethylhexyl)phthalate	ND	813	4080	U
218-01-9	Chrysene	18900	813	4080	D
117-84-0	Di-n-octyl phthalate	ND	813	4080	U
205-99-2	Benzo[b]fluoranthene	27500	813	4080	D
207-08-9	Benzo[k]fluoranthene	8260	813	4080	D
50-32-8	Benzo[a]pyrene	15700	813	4080	D
193-39-5	Indeno(1,2,3-cd)pyrene	4770	813	4080	D
53-70-3	Dibenzo(a,h)anthracene	ND	813	4080	U
191-24-2	Benzo[ghi]perylene	4660	813	4080	D

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	73%		30-130
Phenol-d5	82%		30-130
Nitrobenzene-d5	83%		30-130
2-Fluorobiphenyl	86%		30-130
2,4,6-Tribromophenol	78%		30-130
Terphenyl-d14	219%	*	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.2	192	U
108-95-2	Phenol	ND	38.2	192	U
111-44-4	bis(2-chloroethyl)ether	ND	38.2	192	U
95-57-8	2-Chlorophenol	ND	38.2	192	U
541-73-1	1,3-Dichlorobenzene	ND	38.2	192	U
106-46-7	1,4-Dichlorobenzene	ND	38.2	192	U
100-51-6	Benzyl alcohol	ND	38.2	192	U
95-50-1	1,2-Dichlorobenzene	ND	38.2	192	U
95-48-7	2-Methylphenol	ND	38.2	192	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.2	192	U
106-44-5	3 & 4-Methylphenol	ND	38.2	192	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.2	192	U
67-72-1	Hexachloroethane	ND	38.2	192	U
98-95-3	Nitrobenzene	ND	38.2	192	U
78-59-1	Isophorone	ND	38.2	192	U
88-75-5	2-Nitrophenol	ND	38.2	192	U
105-67-9	2,4-Dimethylphenol	ND	38.2	192	U
65-85-0	Benzoic acid	ND	95.3	382	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.2	192	U
120-83-2	2,4-Dichlorophenol	ND	38.2	192	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.2	192	U
91-20-3	Naphthalene	ND	38.2	192	U
106-47-8	4-Chloroaniline	ND	38.2	192	U
87-68-3	Hexachlorobutadiene	ND	38.2	192	U
59-50-7	4-Chloro-3-methylphenol	ND	38.2	192	U
91-57-6	2-Methylnaphthylene	ND	38.2	192	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	38.2	192	U
88-06-2	2,4,6-Trichlorophenol	ND	38.2	192	U
95-95-4	2,4,5-Trichlorophenol	ND	38.2	192	U
91-58-7	2-Chloronaphthalene	ND	38.2	192	U
88-74-4	2-Nitroaniline	ND	38.2	192	U
131-11-3	Dimethylphthalate	ND	38.2	192	U
208-96-8	Acenaphthylene	ND	38.2	192	U
99-09-2	3-Nitroaniline	ND	38.2	192	U
83-32-9	Acenaphthene	ND	38.2	192	U
51-28-5	2,4-Dinitrophenol	ND	38.2	382	U
100-02-7	4-Nitrophenol	ND	38.2	192	U
132-64-9	Dibenzofuran	ND	38.2	192	U
606-20-2	2,6-Dinitrotoluene	ND	38.2	192	U
121-14-2	2,4-Dinitrotoluene	ND	38.2	192	U
84-66-2	Diethyl phthalate	ND	38.2	192	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.2	192	U
86-73-7	Fluorene	ND	38.2	192	U
100-01-6	4-Nitroaniline	ND	38.2	192	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.2	192	U
86-30-6	N-Nitrosodiphenylamine	ND	38.2	192	U
101-55-3	4-Bromophenyl-phenylether	ND	38.2	192	U
118-74-1	Hexachlorobenzene	ND	38.2	192	U
87-86-5	Pentachlorophenol	ND	38.2	192	U
85-01-8	Phenanthrene	ND	38.2	192	U
120-12-7	Anthracene	ND	38.2	192	U
84-74-2	Di-n-butyl phthalate	ND	38.2	192	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	56.8	38.2	192	J
129-00-0	Pyrene	47.1	38.2	192	J
85-68-7	Butylbenzylphthalate	ND	38.2	192	U
91-94-1	3,3'-Dichlorobenzidine	ND	95.3	192	U
56-55-3	Benzo[a]anthracene	ND	38.2	192	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.2	192	U
218-01-9	Chrysene	ND	38.2	192	U
117-84-0	Di-n-octyl phthalate	ND	38.2	192	U
205-99-2	Benzo[b]fluoranthene	ND	38.2	192	U
207-08-9	Benzo[k]fluoranthene	ND	38.2	192	U
50-32-8	Benzo[a]pyrene	ND	38.2	192	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.2	192	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.2	192	U
191-24-2	Benzo[ghi]perylene	ND	38.2	192	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	52%	30-130
Phenol-d5	56%	30-130
Nitrobenzene-d5	60%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	67%	30-130
Terphenyl-d14	64%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.7	194	U
108-95-2	Phenol	ND	38.7	194	U
111-44-4	bis(2-chloroethyl)ether	ND	38.7	194	U
95-57-8	2-Chlorophenol	ND	38.7	194	U
541-73-1	1,3-Dichlorobenzene	ND	38.7	194	U
106-46-7	1,4-Dichlorobenzene	ND	38.7	194	U
100-51-6	Benzyl alcohol	ND	38.7	194	U
95-50-1	1,2-Dichlorobenzene	ND	38.7	194	U
95-48-7	2-Methylphenol	ND	38.7	194	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.7	194	U
106-44-5	3 & 4-Methylphenol	ND	38.7	194	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.7	194	U
67-72-1	Hexachloroethane	ND	38.7	194	U
98-95-3	Nitrobenzene	ND	38.7	194	U
78-59-1	Isophorone	ND	38.7	194	U
88-75-5	2-Nitrophenol	ND	38.7	194	U
105-67-9	2,4-Dimethylphenol	ND	38.7	194	U
65-85-0	Benzoic acid	ND	96.4	387	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.7	194	U
120-83-2	2,4-Dichlorophenol	ND	38.7	194	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.7	194	U
91-20-3	Naphthalene	ND	38.7	194	U
106-47-8	4-Chloroaniline	ND	38.7	194	U
87-68-3	Hexachlorobutadiene	ND	38.7	194	U
59-50-7	4-Chloro-3-methylphenol	ND	38.7	194	U
91-57-6	2-Methylnaphthylene	ND	38.7	194	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	38.7	194	U
88-06-2	2,4,6-Trichlorophenol	ND	38.7	194	U
95-95-4	2,4,5-Trichlorophenol	ND	38.7	194	U
91-58-7	2-Chloronaphthalene	ND	38.7	194	U
88-74-4	2-Nitroaniline	ND	38.7	194	U
131-11-3	Dimethylphthalate	ND	38.7	194	U
208-96-8	Acenaphthylene	ND	38.7	194	U
99-09-2	3-Nitroaniline	ND	38.7	194	U
83-32-9	Acenaphthene	ND	38.7	194	U
51-28-5	2,4-Dinitrophenol	ND	38.7	387	U
100-02-7	4-Nitrophenol	ND	38.7	194	U
132-64-9	Dibenzofuran	ND	38.7	194	U
606-20-2	2,6-Dinitrotoluene	ND	38.7	194	U
121-14-2	2,4-Dinitrotoluene	ND	38.7	194	U
84-66-2	Diethyl phthalate	ND	38.7	194	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.7	194	U
86-73-7	Fluorene	ND	38.7	194	U
100-01-6	4-Nitroaniline	ND	38.7	194	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.7	194	U
86-30-6	N-Nitrosodiphenylamine	ND	38.7	194	U
101-55-3	4-Bromophenyl-phenylether	ND	38.7	194	U
118-74-1	Hexachlorobenzene	ND	38.7	194	U
87-86-5	Pentachlorophenol	ND	38.7	194	U
85-01-8	Phenanthrene	96.4	38.7	194	J
120-12-7	Anthracene	ND	38.7	194	U
84-74-2	Di-n-butyl phthalate	ND	38.7	194	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	143	38.7	194	J
129-00-0	Pyrene	113	38.7	194	J
85-68-7	Butylbenzylphthalate	ND	38.7	194	U
91-94-1	3,3'-Dichlorobenzidine	ND	96.4	194	U
56-55-3	Benzo[a]anthracene	58.3	38.7	194	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.7	194	U
218-01-9	Chrysene	61.9	38.7	194	J
117-84-0	Di-n-octyl phthalate	ND	38.7	194	U
205-99-2	Benzo[b]fluoranthene	63.3	38.7	194	J
207-08-9	Benzo[k]fluoranthene	ND	38.7	194	U
50-32-8	Benzo[a]pyrene	53.5	38.7	194	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.7	194	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.7	194	U
191-24-2	Benzo[ghi]perylene	ND	38.7	194	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	51%	30-130
Phenol-d5	55%	30-130
Nitrobenzene-d5	59%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	64%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.20	12.0	U
107-13-1	Acrylonitrile	ND	2.40	12.0	U
67-64-1	Acetone	7.17	1.20	2.40	
75-71-8	Dichlorodifluoromethane	ND	1.20	2.40	U
74-87-3	Chloromethane	ND	1.20	2.40	U
75-01-4	Vinyl chloride	ND	1.20	2.40	U
74-83-9	Bromomethane	ND	1.20	2.40	U
75-00-3	Chloroethane	ND	1.20	2.40	U
75-69-4	Trichlorofluoromethane	ND	1.20	2.40	U
75-35-4	1,1-Dichloroethene	ND	1.20	2.40	U
75-15-0	Carbon disulfide	ND	1.20	2.40	U
75-09-2	Methylene Chloride	ND	1.20	2.40	U
156-60-5	trans-1,2-Dichloroethene	ND	1.20	2.40	U
75-34-3	1,1-Dichloroethane	ND	1.20	2.40	U
108-05-4	Vinyl acetate	ND	1.20	2.40	U
590-20-7	2,2-Dichloropropane	ND	1.20	2.40	U
78-93-3	2-Butanone	ND	1.20	2.40	U
156-59-4	cis-1,2-Dichloroethene	ND	1.20	2.40	U
67-66-3	Chloroform	ND	1.20	2.40	U
74-97-5	Bromochloromethane	ND	1.20	2.40	U
71-55-6	1,1,1-Trichloroethane	ND	1.20	2.40	U
563-58-6	1,1-Dichloropropene	ND	1.20	2.40	U
56-23-5	Carbon Tetrachloride	ND	1.20	2.40	U
107-06-2	1,2-Dichloroethane	ND	1.20	2.40	U
71-43-2	Benzene	ND	1.20	2.40	U
79-01-6	Trichloroethene	ND	1.20	2.40	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.20	2.40	U
75-27-4	Bromodichloromethane	ND	1.20	2.40	U
74-95-3	Dibromomethane	ND	1.20	2.40	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.20	2.40	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.20	2.40	U
108-88-3	Toluene	ND	1.20	2.40	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.20	2.40	U
79-00-5	1,1,2-Trichloroethane	ND	1.20	2.40	U
108-10-1	4-Methyl-2-pentanone	ND	1.20	2.40	U
106-93-4	1,2-Dibromoethane	ND	1.20	2.40	U
591-78-6	2-Hexanone	ND	1.20	2.40	U
142-28-9	1,3-Dichloropropane	ND	1.20	2.40	U
127-18-4	Tetrachloroethene	ND	1.20	2.40	U
124-48-1	Dibromochloromethane	ND	1.20	2.40	U
100-41-4	Ethylbenzene	ND	1.20	2.40	U
108-90-7	Chlorobenzene	ND	1.20	2.40	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.20	2.40	U
108-38-3/106-42	m,p-Xylenes	ND	2.40	4.80	U
95-47-6	o-Xylene	ND	2.40	4.80	U
100-42-5	Styrene	ND	1.20	4.80	U
75-25-2	Bromoform	ND	1.20	2.40	U
98-82-8	Isopropylbenzene	ND	1.20	2.40	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.20	2.40	U
96-18-4	1,2,3-Trichloropropane	ND	1.20	2.40	U
103-65-1	n-Propyl Benzene	ND	1.20	2.40	U
108-86-1	Bromobenzene	ND	1.20	2.40	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.20	2.40	U
95-49-8	2-Chlorotoluene	ND	1.20	2.40	U
106-43-4	4-Chlorotoluene	ND	1.20	2.40	U
98-06-6	tert-Butylbenzene	ND	1.20	2.40	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.20	2.40	U
135-98-8	sec-Butylbenzene	ND	1.20	2.40	U
99-87-6	p-Isopropyltoluene	ND	1.20	2.40	U
541-73-1	1,3-Dichlorobenzene	ND	1.20	2.40	U
106-46-7	1,4-Dichlorobenzene	ND	1.20	2.40	U
104-51-8	n-Butyl Benzene	ND	1.20	2.40	U
95-50-1	1,2-Dichlorobenzene	ND	1.20	2.40	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.20	2.40	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.20	2.40	U
87-68-3	Hexachlorobutadiene	ND	1.20	2.40	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.20	2.40	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	110%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	94%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.05	11.7	U
107-13-1	Acrylonitrile	ND	2.35	11.7	U
67-64-1	Acetone	ND	1.17	2.35	U
75-71-8	Dichlorodifluoromethane	ND	1.17	2.35	U
74-87-3	Chloromethane	ND	1.17	2.35	U
75-01-4	Vinyl chloride	ND	1.17	2.35	U
74-83-9	Bromomethane	ND	1.17	2.35	U
75-00-3	Chloroethane	ND	1.17	2.35	U
75-69-4	Trichlorofluoromethane	ND	1.17	2.35	U
75-35-4	1,1-Dichloroethene	ND	1.17	2.35	U
75-15-0	Carbon disulfide	ND	1.17	2.35	U
75-09-2	Methylene Chloride	ND	1.17	2.35	U
156-60-5	trans-1,2-Dichloroethene	ND	1.17	2.35	U
75-34-3	1,1-Dichloroethane	ND	1.17	2.35	U
108-05-4	Vinyl acetate	ND	1.17	2.35	U
590-20-7	2,2-Dichloropropane	ND	1.17	2.35	U
78-93-3	2-Butanone	ND	1.17	2.35	U
156-59-4	cis-1,2-Dichloroethene	ND	1.17	2.35	U
67-66-3	Chloroform	ND	1.17	2.35	U
74-97-5	Bromochloromethane	ND	1.17	2.35	U
71-55-6	1,1,1-Trichloroethane	ND	1.17	2.35	U
563-58-6	1,1-Dichloropropene	ND	1.17	2.35	U
56-23-5	Carbon Tetrachloride	ND	1.17	2.35	U
107-06-2	1,2-Dichloroethane	ND	1.17	2.35	U
71-43-2	Benzene	ND	1.17	2.35	U
79-01-6	Trichloroethene	ND	1.17	2.35	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.17	2.35	U
75-27-4	Bromodichloromethane	ND	1.17	2.35	U
74-95-3	Dibromomethane	ND	1.17	2.35	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.17	2.35	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.17	2.35	U
108-88-3	Toluene	ND	1.17	2.35	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.17	2.35	U
79-00-5	1,1,2-Trichloroethane	ND	1.17	2.35	U
108-10-1	4-Methyl-2-pentanone	ND	1.17	2.35	U
106-93-4	1,2-Dibromoethane	ND	1.17	2.35	U
591-78-6	2-Hexanone	ND	1.17	2.35	U
142-28-9	1,3-Dichloropropane	ND	1.17	2.35	U
127-18-4	Tetrachloroethene	ND	1.17	2.35	U
124-48-1	Dibromochloromethane	ND	1.17	2.35	U
100-41-4	Ethylbenzene	ND	1.17	2.35	U
108-90-7	Chlorobenzene	ND	1.17	2.35	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.17	2.35	U
108-38-3/106-42	m,p-Xylenes	ND	2.35	4.70	U
95-47-6	o-Xylene	ND	2.35	4.70	U
100-42-5	Styrene	ND	1.17	4.70	U
75-25-2	Bromoform	ND	1.17	2.35	U
98-82-8	Isopropylbenzene	ND	1.17	2.35	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.17	2.35	U
96-18-4	1,2,3-Trichloropropane	ND	1.17	2.35	U
103-65-1	n-Propyl Benzene	ND	1.17	2.35	U
108-86-1	Bromobenzene	ND	1.17	2.35	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.17	2.35	U
95-49-8	2-Chlorotoluene	ND	1.17	2.35	U
106-43-4	4-Chlorotoluene	ND	1.17	2.35	U
98-06-6	tert-Butylbenzene	ND	1.17	2.35	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.17	2.35	U
135-98-8	sec-Butylbenzene	ND	1.17	2.35	U
99-87-6	p-Isopropyltoluene	ND	1.17	2.35	U
541-73-1	1,3-Dichlorobenzene	ND	1.17	2.35	U
106-46-7	1,4-Dichlorobenzene	ND	1.17	2.35	U
104-51-8	n-Butyl Benzene	ND	1.17	2.35	U
95-50-1	1,2-Dichlorobenzene	ND	1.17	2.35	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.17	2.35	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.17	2.35	U
87-68-3	Hexachlorobutadiene	ND	1.17	2.35	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.17	2.35	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	111%	70-130
Toluene-d8	86%	70-130
Bromofluorobenzene	75%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.54	12.6	U
107-13-1	Acrylonitrile	ND	2.51	12.6	U
67-64-1	Acetone	ND	1.26	2.51	U
75-71-8	Dichlorodifluoromethane	ND	1.26	2.51	U
74-87-3	Chloromethane	ND	1.26	2.51	U
75-01-4	Vinyl chloride	ND	1.26	2.51	U
74-83-9	Bromomethane	ND	1.26	2.51	U
75-00-3	Chloroethane	ND	1.26	2.51	U
75-69-4	Trichlorofluoromethane	ND	1.26	2.51	U
75-35-4	1,1-Dichloroethene	ND	1.26	2.51	U
75-15-0	Carbon disulfide	ND	1.26	2.51	U
75-09-2	Methylene Chloride	ND	1.26	2.51	U
156-60-5	trans-1,2-Dichloroethene	ND	1.26	2.51	U
75-34-3	1,1-Dichloroethane	ND	1.26	2.51	U
108-05-4	Vinyl acetate	ND	1.26	2.51	U
590-20-7	2,2-Dichloropropane	ND	1.26	2.51	U
78-93-3	2-Butanone	ND	1.26	2.51	U
156-59-4	cis-1,2-Dichloroethene	ND	1.26	2.51	U
67-66-3	Chloroform	ND	1.26	2.51	U
74-97-5	Bromochloromethane	ND	1.26	2.51	U
71-55-6	1,1,1-Trichloroethane	ND	1.26	2.51	U
563-58-6	1,1-Dichloropropene	ND	1.26	2.51	U
56-23-5	Carbon Tetrachloride	ND	1.26	2.51	U
107-06-2	1,2-Dichloroethane	ND	1.26	2.51	U
71-43-2	Benzene	ND	1.26	2.51	U
79-01-6	Trichloroethene	ND	1.26	2.51	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.26	2.51	U
75-27-4	Bromodichloromethane	ND	1.26	2.51	U
74-95-3	Dibromomethane	ND	1.26	2.51	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.26	2.51	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.26	2.51	U
108-88-3	Toluene	ND	1.26	2.51	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.26	2.51	U
79-00-5	1,1,2-Trichloroethane	ND	1.26	2.51	U
108-10-1	4-Methyl-2-pentanone	ND	1.26	2.51	U
106-93-4	1,2-Dibromoethane	ND	1.26	2.51	U
591-78-6	2-Hexanone	ND	1.26	2.51	U
142-28-9	1,3-Dichloropropane	ND	1.26	2.51	U
127-18-4	Tetrachloroethene	ND	1.26	2.51	U
124-48-1	Dibromochloromethane	ND	1.26	2.51	U
100-41-4	Ethylbenzene	ND	1.26	2.51	U
108-90-7	Chlorobenzene	ND	1.26	2.51	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.26	2.51	U
108-38-3/106-42	m,p-Xylenes	ND	2.51	5.03	U
95-47-6	o-Xylene	ND	2.51	5.03	U
100-42-5	Styrene	ND	1.26	5.03	U
75-25-2	Bromoform	ND	1.26	2.51	U
98-82-8	Isopropylbenzene	ND	1.26	2.51	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.26	2.51	U
96-18-4	1,2,3-Trichloropropane	ND	1.26	2.51	U
103-65-1	n-Propyl Benzene	ND	1.26	2.51	U
108-86-1	Bromobenzene	ND	1.26	2.51	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.26	2.51	U
95-49-8	2-Chlorotoluene	ND	1.26	2.51	U
106-43-4	4-Chlorotoluene	ND	1.26	2.51	U
98-06-6	tert-Butylbenzene	ND	1.26	2.51	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.26	2.51	U
135-98-8	sec-Butylbenzene	ND	1.26	2.51	U
99-87-6	p-Isopropyltoluene	ND	1.26	2.51	U
541-73-1	1,3-Dichlorobenzene	ND	1.26	2.51	U
106-46-7	1,4-Dichlorobenzene	ND	1.26	2.51	U
104-51-8	n-Butyl Benzene	ND	1.26	2.51	U
95-50-1	1,2-Dichlorobenzene	ND	1.26	2.51	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.26	2.51	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.26	2.51	U
87-68-3	Hexachlorobutadiene	ND	1.26	2.51	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.26	2.51	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	115%	70-130
Toluene-d8	91%	70-130
Bromofluorobenzene	78%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.10	11.8	U
107-13-1	Acrylonitrile	ND	2.37	11.8	U
67-64-1	Acetone	ND	1.18	2.37	U
75-71-8	Dichlorodifluoromethane	ND	1.18	2.37	U
74-87-3	Chloromethane	ND	1.18	2.37	U
75-01-4	Vinyl chloride	ND	1.18	2.37	U
74-83-9	Bromomethane	ND	1.18	2.37	U
75-00-3	Chloroethane	ND	1.18	2.37	U
75-69-4	Trichlorofluoromethane	ND	1.18	2.37	U
75-35-4	1,1-Dichloroethene	ND	1.18	2.37	U
75-15-0	Carbon disulfide	ND	1.18	2.37	U
75-09-2	Methylene Chloride	ND	1.18	2.37	U
156-60-5	trans-1,2-Dichloroethene	ND	1.18	2.37	U
75-34-3	1,1-Dichloroethane	ND	1.18	2.37	U
108-05-4	Vinyl acetate	ND	1.18	2.37	U
590-20-7	2,2-Dichloropropane	ND	1.18	2.37	U
78-93-3	2-Butanone	ND	1.18	2.37	U
156-59-4	cis-1,2-Dichloroethene	ND	1.18	2.37	U
67-66-3	Chloroform	ND	1.18	2.37	U
74-97-5	Bromochloromethane	ND	1.18	2.37	U
71-55-6	1,1,1-Trichloroethane	ND	1.18	2.37	U
563-58-6	1,1-Dichloropropene	ND	1.18	2.37	U
56-23-5	Carbon Tetrachloride	ND	1.18	2.37	U
107-06-2	1,2-Dichloroethane	ND	1.18	2.37	U
71-43-2	Benzene	ND	1.18	2.37	U
79-01-6	Trichloroethene	ND	1.18	2.37	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.18	2.37	U
75-27-4	Bromodichloromethane	ND	1.18	2.37	U
74-95-3	Dibromomethane	ND	1.18	2.37	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.18	2.37	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.18	2.37	U
108-88-3	Toluene	ND	1.18	2.37	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.18	2.37	U
79-00-5	1,1,2-Trichloroethane	ND	1.18	2.37	U
108-10-1	4-Methyl-2-pentanone	ND	1.18	2.37	U
106-93-4	1,2-Dibromoethane	ND	1.18	2.37	U
591-78-6	2-Hexanone	ND	1.18	2.37	U
142-28-9	1,3-Dichloropropane	ND	1.18	2.37	U
127-18-4	Tetrachloroethene	ND	1.18	2.37	U
124-48-1	Dibromochloromethane	ND	1.18	2.37	U
100-41-4	Ethylbenzene	ND	1.18	2.37	U
108-90-7	Chlorobenzene	ND	1.18	2.37	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.18	2.37	U
108-38-3/106-42	m,p-Xylenes	ND	2.37	4.73	U
95-47-6	o-Xylene	ND	2.37	4.73	U
100-42-5	Styrene	ND	1.18	4.73	U
75-25-2	Bromoform	ND	1.18	2.37	U
98-82-8	Isopropylbenzene	ND	1.18	2.37	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.18	2.37	U
96-18-4	1,2,3-Trichloropropane	ND	1.18	2.37	U
103-65-1	n-Propyl Benzene	ND	1.18	2.37	U
108-86-1	Bromobenzene	ND	1.18	2.37	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.18	2.37	U
95-49-8	2-Chlorotoluene	ND	1.18	2.37	U
106-43-4	4-Chlorotoluene	ND	1.18	2.37	U
98-06-6	tert-Butylbenzene	ND	1.18	2.37	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.18	2.37	U
135-98-8	sec-Butylbenzene	ND	1.18	2.37	U
99-87-6	p-Isopropyltoluene	ND	1.18	2.37	U
541-73-1	1,3-Dichlorobenzene	ND	1.18	2.37	U
106-46-7	1,4-Dichlorobenzene	ND	1.18	2.37	U
104-51-8	n-Butyl Benzene	ND	1.18	2.37	U
95-50-1	1,2-Dichlorobenzene	ND	1.18	2.37	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.18	2.37	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.18	2.37	U
87-68-3	Hexachlorobutadiene	ND	1.18	2.37	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.18	2.37	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	110%	70-130
Toluene-d8	82%	70-130
Bromofluorobenzene	73%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.56	9.27	U
107-13-1	Acrylonitrile	ND	1.85	9.27	U
67-64-1	Acetone	1.85	0.927	1.85	
75-71-8	Dichlorodifluoromethane	ND	0.927	1.85	U
74-87-3	Chloromethane	ND	0.927	1.85	U
75-01-4	Vinyl chloride	ND	0.927	1.85	U
74-83-9	Bromomethane	ND	0.927	1.85	U
75-00-3	Chloroethane	ND	0.927	1.85	U
75-69-4	Trichlorofluoromethane	ND	0.927	1.85	U
75-35-4	1,1-Dichloroethene	ND	0.927	1.85	U
75-15-0	Carbon disulfide	ND	0.927	1.85	U
75-09-2	Methylene Chloride	ND	0.927	1.85	U
156-60-5	trans-1,2-Dichloroethene	ND	0.927	1.85	U
75-34-3	1,1-Dichloroethane	ND	0.927	1.85	U
108-05-4	Vinyl acetate	ND	0.927	1.85	U
590-20-7	2,2-Dichloropropane	ND	0.927	1.85	U
78-93-3	2-Butanone	ND	0.927	1.85	U
156-59-4	cis-1,2-Dichloroethene	ND	0.927	1.85	U
67-66-3	Chloroform	ND	0.927	1.85	U
74-97-5	Bromochloromethane	ND	0.927	1.85	U
71-55-6	1,1,1-Trichloroethane	ND	0.927	1.85	U
563-58-6	1,1-Dichloropropene	ND	0.927	1.85	U
56-23-5	Carbon Tetrachloride	ND	0.927	1.85	U
107-06-2	1,2-Dichloroethane	ND	0.927	1.85	U
71-43-2	Benzene	ND	0.927	1.85	U
79-01-6	Trichloroethene	ND	0.927	1.85	U

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ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.927	1.85	U
75-27-4	Bromodichloromethane	ND	0.927	1.85	U
74-95-3	Dibromomethane	ND	0.927	1.85	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.927	1.85	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.927	1.85	U
108-88-3	Toluene	ND	0.927	1.85	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.927	1.85	U
79-00-5	1,1,2-Trichloroethane	ND	0.927	1.85	U
108-10-1	4-Methyl-2-pentanone	ND	0.927	1.85	U
106-93-4	1,2-Dibromoethane	ND	0.927	1.85	U
591-78-6	2-Hexanone	ND	0.927	1.85	U
142-28-9	1,3-Dichloropropane	ND	0.927	1.85	U
127-18-4	Tetrachloroethene	ND	0.927	1.85	U
124-48-1	Dibromochloromethane	ND	0.927	1.85	U
100-41-4	Ethylbenzene	ND	0.927	1.85	U
108-90-7	Chlorobenzene	ND	0.927	1.85	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.927	1.85	U
108-38-3/106-42	m,p-Xylenes	ND	1.85	3.71	U
95-47-6	o-Xylene	ND	1.85	3.71	U
100-42-5	Styrene	ND	0.927	3.71	U
75-25-2	Bromoform	ND	0.927	1.85	U
98-82-8	Isopropylbenzene	ND	0.927	1.85	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.927	1.85	U
96-18-4	1,2,3-Trichloropropane	ND	0.927	1.85	U
103-65-1	n-Propyl Benzene	ND	0.927	1.85	U
108-86-1	Bromobenzene	ND	0.927	1.85	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.927	1.85	U
95-49-8	2-Chlorotoluene	ND	0.927	1.85	U
106-43-4	4-Chlorotoluene	ND	0.927	1.85	U
98-06-6	tert-Butylbenzene	ND	0.927	1.85	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.927	1.85	U
135-98-8	sec-Butylbenzene	ND	0.927	1.85	U
99-87-6	p-Isopropyltoluene	ND	0.927	1.85	U
541-73-1	1,3-Dichlorobenzene	ND	0.927	1.85	U
106-46-7	1,4-Dichlorobenzene	ND	0.927	1.85	U
104-51-8	n-Butyl Benzene	ND	0.927	1.85	U
95-50-1	1,2-Dichlorobenzene	ND	0.927	1.85	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.927	1.85	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.927	1.85	U
87-68-3	Hexachlorobutadiene	ND	0.927	1.85	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.927	1.85	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	101%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	91%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	6.72	11.2	U
107-13-1	Acrylonitrile	ND	2.24	11.2	U
67-64-1	Acetone	ND	1.12	2.24	U
75-71-8	Dichlorodifluoromethane	ND	1.12	2.24	U
74-87-3	Chloromethane	ND	1.12	2.24	U
75-01-4	Vinyl chloride	ND	1.12	2.24	U
74-83-9	Bromomethane	ND	1.12	2.24	U
75-00-3	Chloroethane	ND	1.12	2.24	U
75-69-4	Trichlorofluoromethane	ND	1.12	2.24	U
75-35-4	1,1-Dichloroethene	ND	1.12	2.24	U
75-15-0	Carbon disulfide	ND	1.12	2.24	U
75-09-2	Methylene Chloride	ND	1.12	2.24	U
156-60-5	trans-1,2-Dichloroethene	ND	1.12	2.24	U
75-34-3	1,1-Dichloroethane	ND	1.12	2.24	U
108-05-4	Vinyl acetate	ND	1.12	2.24	U
590-20-7	2,2-Dichloropropane	ND	1.12	2.24	U
78-93-3	2-Butanone	ND	1.12	2.24	U
156-59-4	cis-1,2-Dichloroethene	ND	1.12	2.24	U
67-66-3	Chloroform	ND	1.12	2.24	U
74-97-5	Bromochloromethane	ND	1.12	2.24	U
71-55-6	1,1,1-Trichloroethane	ND	1.12	2.24	U
563-58-6	1,1-Dichloropropene	ND	1.12	2.24	U
56-23-5	Carbon Tetrachloride	ND	1.12	2.24	U
107-06-2	1,2-Dichloroethane	ND	1.12	2.24	U
71-43-2	Benzene	ND	1.12	2.24	U
79-01-6	Trichloroethene	ND	1.12	2.24	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.12	2.24	U
75-27-4	Bromodichloromethane	ND	1.12	2.24	U
74-95-3	Dibromomethane	ND	1.12	2.24	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.12	2.24	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.12	2.24	U
108-88-3	Toluene	ND	1.12	2.24	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.12	2.24	U
79-00-5	1,1,2-Trichloroethane	ND	1.12	2.24	U
108-10-1	4-Methyl-2-pentanone	ND	1.12	2.24	U
106-93-4	1,2-Dibromoethane	ND	1.12	2.24	U
591-78-6	2-Hexanone	ND	1.12	2.24	U
142-28-9	1,3-Dichloropropane	ND	1.12	2.24	U
127-18-4	Tetrachloroethene	ND	1.12	2.24	U
124-48-1	Dibromochloromethane	ND	1.12	2.24	U
100-41-4	Ethylbenzene	ND	1.12	2.24	U
108-90-7	Chlorobenzene	ND	1.12	2.24	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.12	2.24	U
108-38-3/106-42	m,p-Xylenes	ND	2.24	4.48	U
95-47-6	o-Xylene	ND	2.24	4.48	U
100-42-5	Styrene	ND	1.12	4.48	U
75-25-2	Bromoform	ND	1.12	2.24	U
98-82-8	Isopropylbenzene	ND	1.12	2.24	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.12	2.24	U
96-18-4	1,2,3-Trichloropropane	ND	1.12	2.24	U
103-65-1	n-Propyl Benzene	ND	1.12	2.24	U
108-86-1	Bromobenzene	ND	1.12	2.24	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.12	2.24	U
95-49-8	2-Chlorotoluene	ND	1.12	2.24	U
106-43-4	4-Chlorotoluene	ND	1.12	2.24	U
98-06-6	tert-Butylbenzene	ND	1.12	2.24	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.12	2.24	U
135-98-8	sec-Butylbenzene	ND	1.12	2.24	U
99-87-6	p-Isopropyltoluene	ND	1.12	2.24	U
541-73-1	1,3-Dichlorobenzene	ND	1.12	2.24	U
106-46-7	1,4-Dichlorobenzene	ND	1.12	2.24	U
104-51-8	n-Butyl Benzene	ND	1.12	2.24	U
95-50-1	1,2-Dichlorobenzene	ND	1.12	2.24	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.12	2.24	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.12	2.24	U
87-68-3	Hexachlorobutadiene	ND	1.12	2.24	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.12	2.24	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	120%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	87%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.60	9.33	U
107-13-1	Acrylonitrile	ND	1.87	9.33	U
67-64-1	Acetone	6.59	0.933	1.87	
75-71-8	Dichlorodifluoromethane	ND	0.933	1.87	U
74-87-3	Chloromethane	ND	0.933	1.87	U
75-01-4	Vinyl chloride	ND	0.933	1.87	U
74-83-9	Bromomethane	ND	0.933	1.87	U
75-00-3	Chloroethane	ND	0.933	1.87	U
75-69-4	Trichlorofluoromethane	ND	0.933	1.87	U
75-35-4	1,1-Dichloroethene	ND	0.933	1.87	U
75-15-0	Carbon disulfide	ND	0.933	1.87	U
75-09-2	Methylene Chloride	ND	0.933	1.87	U
156-60-5	trans-1,2-Dichloroethene	ND	0.933	1.87	U
75-34-3	1,1-Dichloroethane	ND	0.933	1.87	U
108-05-4	Vinyl acetate	ND	0.933	1.87	U
590-20-7	2,2-Dichloropropane	ND	0.933	1.87	U
78-93-3	2-Butanone	ND	0.933	1.87	U
156-59-4	cis-1,2-Dichloroethene	ND	0.933	1.87	U
67-66-3	Chloroform	ND	0.933	1.87	U
74-97-5	Bromochloromethane	ND	0.933	1.87	U
71-55-6	1,1,1-Trichloroethane	ND	0.933	1.87	U
563-58-6	1,1-Dichloropropene	ND	0.933	1.87	U
56-23-5	Carbon Tetrachloride	ND	0.933	1.87	U
107-06-2	1,2-Dichloroethane	ND	0.933	1.87	U
71-43-2	Benzene	ND	0.933	1.87	U
79-01-6	Trichloroethene	ND	0.933	1.87	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.933	1.87	U
75-27-4	Bromodichloromethane	ND	0.933	1.87	U
74-95-3	Dibromomethane	ND	0.933	1.87	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.933	1.87	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.933	1.87	U
108-88-3	Toluene	ND	0.933	1.87	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.933	1.87	U
79-00-5	1,1,2-Trichloroethane	ND	0.933	1.87	U
108-10-1	4-Methyl-2-pentanone	ND	0.933	1.87	U
106-93-4	1,2-Dibromoethane	ND	0.933	1.87	U
591-78-6	2-Hexanone	ND	0.933	1.87	U
142-28-9	1,3-Dichloropropane	ND	0.933	1.87	U
127-18-4	Tetrachloroethene	ND	0.933	1.87	U
124-48-1	Dibromochloromethane	ND	0.933	1.87	U
100-41-4	Ethylbenzene	ND	0.933	1.87	U
108-90-7	Chlorobenzene	ND	0.933	1.87	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.933	1.87	U
108-38-3/106-42	m,p-Xylenes	ND	1.87	3.73	U
95-47-6	o-Xylene	ND	1.87	3.73	U
100-42-5	Styrene	ND	0.933	3.73	U
75-25-2	Bromoform	ND	0.933	1.87	U
98-82-8	Isopropylbenzene	ND	0.933	1.87	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.933	1.87	U
96-18-4	1,2,3-Trichloropropane	ND	0.933	1.87	U
103-65-1	n-Propyl Benzene	ND	0.933	1.87	U
108-86-1	Bromobenzene	ND	0.933	1.87	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.933	1.87	U
95-49-8	2-Chlorotoluene	ND	0.933	1.87	U
106-43-4	4-Chlorotoluene	ND	0.933	1.87	U
98-06-6	tert-Butylbenzene	ND	0.933	1.87	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.933	1.87	U
135-98-8	sec-Butylbenzene	ND	0.933	1.87	U
99-87-6	p-Isopropyltoluene	ND	0.933	1.87	U
541-73-1	1,3-Dichlorobenzene	ND	0.933	1.87	U
106-46-7	1,4-Dichlorobenzene	ND	0.933	1.87	U
104-51-8	n-Butyl Benzene	ND	0.933	1.87	U
95-50-1	1,2-Dichlorobenzene	ND	0.933	1.87	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.933	1.87	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.933	1.87	U
87-68-3	Hexachlorobutadiene	ND	0.933	1.87	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.933	1.87	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	107%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	91%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.56	9.26	U
107-13-1	Acrylonitrile	ND	1.85	9.26	U
67-64-1	Acetone	18.2	0.926	1.85	
75-71-8	Dichlorodifluoromethane	ND	0.926	1.85	U
74-87-3	Chloromethane	ND	0.926	1.85	U
75-01-4	Vinyl chloride	ND	0.926	1.85	U
74-83-9	Bromomethane	ND	0.926	1.85	U
75-00-3	Chloroethane	ND	0.926	1.85	U
75-69-4	Trichlorofluoromethane	ND	0.926	1.85	U
75-35-4	1,1-Dichloroethene	ND	0.926	1.85	U
75-15-0	Carbon disulfide	ND	0.926	1.85	U
75-09-2	Methylene Chloride	ND	0.926	1.85	U
156-60-5	trans-1,2-Dichloroethene	ND	0.926	1.85	U
75-34-3	1,1-Dichloroethane	ND	0.926	1.85	U
108-05-4	Vinyl acetate	ND	0.926	1.85	U
590-20-7	2,2-Dichloropropane	ND	0.926	1.85	U
78-93-3	2-Butanone	5.22	0.926	1.85	
156-59-4	cis-1,2-Dichloroethene	ND	0.926	1.85	U
67-66-3	Chloroform	ND	0.926	1.85	U
74-97-5	Bromochloromethane	ND	0.926	1.85	U
71-55-6	1,1,1-Trichloroethane	ND	0.926	1.85	U
563-58-6	1,1-Dichloropropene	ND	0.926	1.85	U
56-23-5	Carbon Tetrachloride	ND	0.926	1.85	U
107-06-2	1,2-Dichloroethane	ND	0.926	1.85	U
71-43-2	Benzene	ND	0.926	1.85	U
79-01-6	Trichloroethene	ND	0.926	1.85	U

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ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.926	1.85	U
75-27-4	Bromodichloromethane	ND	0.926	1.85	U
74-95-3	Dibromomethane	ND	0.926	1.85	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.926	1.85	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.926	1.85	U
108-88-3	Toluene	ND	0.926	1.85	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.926	1.85	U
79-00-5	1,1,2-Trichloroethane	ND	0.926	1.85	U
108-10-1	4-Methyl-2-pentanone	ND	0.926	1.85	U
106-93-4	1,2-Dibromoethane	ND	0.926	1.85	U
591-78-6	2-Hexanone	ND	0.926	1.85	U
142-28-9	1,3-Dichloropropane	ND	0.926	1.85	U
127-18-4	Tetrachloroethene	ND	0.926	1.85	U
124-48-1	Dibromochloromethane	ND	0.926	1.85	U
100-41-4	Ethylbenzene	ND	0.926	1.85	U
108-90-7	Chlorobenzene	ND	0.926	1.85	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.926	1.85	U
108-38-3/106-42	m,p-Xylenes	ND	1.85	3.70	U
95-47-6	o-Xylene	ND	1.85	3.70	U
100-42-5	Styrene	ND	0.926	3.70	U
75-25-2	Bromoform	ND	0.926	1.85	U
98-82-8	Isopropylbenzene	ND	0.926	1.85	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.926	1.85	U
96-18-4	1,2,3-Trichloropropane	ND	0.926	1.85	U
103-65-1	n-Propyl Benzene	ND	0.926	1.85	U
108-86-1	Bromobenzene	ND	0.926	1.85	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.926	1.85	U
95-49-8	2-Chlorotoluene	ND	0.926	1.85	U
106-43-4	4-Chlorotoluene	ND	0.926	1.85	U
98-06-6	tert-Butylbenzene	ND	0.926	1.85	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.926	1.85	U
135-98-8	sec-Butylbenzene	ND	0.926	1.85	U
99-87-6	p-Isopropyltoluene	ND	0.926	1.85	U
541-73-1	1,3-Dichlorobenzene	ND	0.926	1.85	U
106-46-7	1,4-Dichlorobenzene	ND	0.926	1.85	U
104-51-8	n-Butyl Benzene	ND	0.926	1.85	U
95-50-1	1,2-Dichlorobenzene	ND	0.926	1.85	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.926	1.85	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.926	1.85	U
87-68-3	Hexachlorobutadiene	ND	0.926	1.85	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.926	1.85	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	107%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	86%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Matrix:	Soil
Percent Solids:	79.40	File ID:	120616A-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10600	18.1	18.1	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-97-6	Mercury	0.215	0.0945	0.0945	1		12/06/16 07:56	EPA 7471A	12/07/16 11:38 PRT	EPA 7471
7440-36-0	Antimony	ND	3.62	3.62	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-38-2	Arsenic	2.28	0.906	0.906	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-39-3	Barium	76.9	18.1	18.1	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-41-7	Beryllium	0.492	0.453	0.453	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-43-9	Cadmium	1.35	0.453	0.453	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-70-2	Calcium	13200	22.7	22.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-47-3	Chromium	21.0	1.81	1.81	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-48-4	Cobalt	9.53	4.53	4.53	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-50-8	Copper	46.1	2.72	2.72	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-89-6	Iron	24100	566	566	25	D	12/05/16 08:56	EPA 3050B	12/06/16 13:51 LIT	EPA 6010
7439-92-1	Lead	169	0.906	0.906	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-95-4	Magnesium	7500	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-96-5	Manganese	400	1.81	1.81	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-02-0	Nickel	18.3	3.62	3.62	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-09-7	Potassium	1540	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7782-49-2	Selenium	ND	3.62	3.62	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-22-4	Silver	ND	0.453	0.453	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-23-5	Sodium	275	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-28-0	Thallium	ND	1.36	2.72	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-62-2	Vanadium	30.6	4.53	4.53	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-66-6	Zinc	150	5.44	5.44	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Matrix:	Soil
Percent Solids:	76.70	File ID:	120616A-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11100	25.5	25.5	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-97-6	Mercury	0.223	0.0978	0.0978	1		12/06/16 07:56	EPA 7471A	12/07/16 11:47 PRT	EPA 7471
7440-36-0	Antimony	ND	5.10	5.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-38-2	Arsenic	2.84	1.27	1.27	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-39-3	Barium	76.7	25.5	25.5	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.637	0.637	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-43-9	Cadmium	1.27	0.637	0.637	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-70-2	Calcium	6920	31.9	31.9	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-47-3	Chromium	20.8	2.55	2.55	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-48-4	Cobalt	9.86	6.37	6.37	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-50-8	Copper	46.0	3.82	3.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-89-6	Iron	27100	797	797	25	D	12/05/16 08:56	EPA 3050B	12/06/16 13:56 LIT	EPA 6010
7439-92-1	Lead	134	1.27	1.27	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-95-4	Magnesium	5830	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-96-5	Manganese	411	2.55	2.55	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-02-0	Nickel	18.7	5.10	5.10	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-09-7	Potassium	1490	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7782-49-2	Selenium	ND	2.55	5.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-22-4	Silver	ND	0.637	0.637	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-23-5	Sodium	283	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-28-0	Thallium	ND	1.91	3.82	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-62-2	Vanadium	30.7	6.37	6.37	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-66-6	Zinc	151	7.65	7.65	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Matrix:	Soil
Percent Solids:	79.40	File ID:	120616A-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	12000	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-97-6	Mercury	0.202	0.0945	0.0945	1		12/06/16 07:56	EPA 7471A	12/07/16 11:49 PRT	EPA 7471
7440-36-0	Antimony	ND	4.10	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-38-2	Arsenic	1.73	1.02	1.02	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-39-3	Barium	52.5	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.512	0.512	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-43-9	Cadmium	0.770	0.512	0.512	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-70-2	Calcium	3580	25.6	25.6	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-47-3	Chromium	21.1	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-48-4	Cobalt	8.71	5.12	5.12	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-50-8	Copper	24.8	3.07	3.07	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-89-6	Iron	20600	640	640	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:01 LIT	EPA 6010
7439-92-1	Lead	48.8	1.02	1.02	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-95-4	Magnesium	5090	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-96-5	Manganese	389	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-02-0	Nickel	15.7	4.10	4.10	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-09-7	Potassium	1230	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7782-49-2	Selenium	ND	2.05	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-22-4	Silver	ND	0.512	0.512	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-23-5	Sodium	227	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-28-0	Thallium	ND	1.54	3.07	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-62-2	Vanadium	28.3	5.12	5.12	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-66-6	Zinc	92.3	6.15	6.15	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010

* Values outside of QC limits
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U - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Matrix:	Soil
Percent Solids:	80.00	File ID:	120616A-024

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11200	22.6	22.6	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-97-6	Mercury	0.269	0.0938	0.0938	1		12/06/16 07:56	EPA 7471A	12/07/16 11:51 PRT	EPA 7471
7440-36-0	Antimony	ND	4.51	4.51	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-38-2	Arsenic	2.11	1.13	1.13	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-39-3	Barium	69.9	22.6	22.6	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.564	0.564	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-43-9	Cadmium	1.15	0.564	0.564	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-70-2	Calcium	7290	28.2	28.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-47-3	Chromium	21.5	2.26	2.26	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-48-4	Cobalt	9.88	5.64	5.64	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-50-8	Copper	48.3	3.38	3.38	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-89-6	Iron	24900	705	705	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:06 LIT	EPA 6010
7439-92-1	Lead	174	1.13	1.13	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-95-4	Magnesium	6270	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-96-5	Manganese	466	2.26	2.26	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-02-0	Nickel	17.6	4.51	4.51	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-09-7	Potassium	1530	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7782-49-2	Selenium	ND	2.26	4.51	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-22-4	Silver	ND	0.564	0.564	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-23-5	Sodium	279	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-28-0	Thallium	ND	1.69	3.38	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-62-2	Vanadium	29.7	5.64	5.64	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-66-6	Zinc	127	6.77	6.77	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010

* Values outside of QC limits
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U - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Matrix:	Soil
Percent Solids:	83.20	File ID:	120616A-025

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11500	18.2	18.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0901	0.0901	1	U	12/06/16 07:56	EPA 7471A	12/07/16 11:53 PRT	EPA 7471
7440-36-0	Antimony	ND	3.63	3.63	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-38-2	Arsenic	ND	0.908	0.908	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-39-3	Barium	52.5	18.2	18.2	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-41-7	Beryllium	0.526	0.454	0.454	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-43-9	Cadmium	0.695	0.454	0.454	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-70-2	Calcium	1150	22.7	22.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-47-3	Chromium	21.3	1.82	1.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-48-4	Cobalt	10.7	4.54	4.54	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-50-8	Copper	19.8	2.72	2.72	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-89-6	Iron	19800	567	567	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:11 LIT	EPA 6010
7439-92-1	Lead	17.3	0.908	0.908	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-95-4	Magnesium	4790	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-96-5	Manganese	360	1.82	1.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-02-0	Nickel	17.3	3.63	3.63	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-09-7	Potassium	1760	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7782-49-2	Selenium	ND	3.63	3.63	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-22-4	Silver	ND	0.454	0.454	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-23-5	Sodium	126	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-28-0	Thallium	ND	1.36	2.72	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-62-2	Vanadium	33.8	4.54	4.54	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-66-6	Zinc	61.3	5.45	5.45	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010

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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Matrix:	Soil
Percent Solids:	81.90	File ID:	120616A-026

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10300	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-97-6	Mercury	0.237	0.0916	0.0916	1		12/06/16 07:56	EPA 7471A	12/07/16 11:55 PRT	EPA 7471
7440-36-0	Antimony	ND	4.65	4.65	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-38-2	Arsenic	2.30	1.16	1.16	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-39-3	Barium	72.2	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.581	0.581	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-43-9	Cadmium	1.06	0.581	0.581	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-70-2	Calcium	6750	29.0	29.0	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-47-3	Chromium	19.8	2.32	2.32	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-48-4	Cobalt	9.73	5.81	5.81	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-50-8	Copper	44.3	3.49	3.49	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-89-6	Iron	23200	726	726	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:17 LIT	EPA 6010
7439-92-1	Lead	162	1.16	1.16	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-95-4	Magnesium	6280	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-96-5	Manganese	401	2.32	2.32	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-02-0	Nickel	17.4	4.65	4.65	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-09-7	Potassium	1530	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7782-49-2	Selenium	ND	2.32	4.65	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-22-4	Silver	ND	0.581	0.581	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-23-5	Sodium	239	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-28-0	Thallium	ND	1.74	3.49	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-62-2	Vanadium	29.0	5.81	5.81	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-66-6	Zinc	131	6.97	6.97	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010

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E - Concentration exceeds highest calibration standard
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MDL - Minimum detection limit
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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Matrix:	Soil
Percent Solids:	87.10	File ID:	120616A-027

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	9890	18.5	18.5	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0861	0.0861	1	U	12/06/16 07:56	EPA 7471A	12/07/16 11:57 PRT	EPA 7471
7440-36-0	Antimony	ND	3.71	3.71	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-38-2	Arsenic	1.56	0.927	0.927	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-39-3	Barium	55.1	18.5	18.5	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.463	0.463	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-43-9	Cadmium	0.913	0.463	0.463	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-70-2	Calcium	3270	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-47-3	Chromium	18.4	1.85	1.85	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-48-4	Cobalt	10.2	4.63	4.63	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-50-8	Copper	30.7	2.78	2.78	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-89-6	Iron	21400	579	579	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:22 LIT	EPA 6010
7439-92-1	Lead	63.6	0.927	0.927	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-95-4	Magnesium	5080	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-96-5	Manganese	412	1.85	1.85	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-02-0	Nickel	17.2	3.71	3.71	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-09-7	Potassium	1440	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7782-49-2	Selenium	ND	3.71	3.71	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-22-4	Silver	ND	0.463	0.463	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-23-5	Sodium	129	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-28-0	Thallium	ND	1.39	2.78	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-62-2	Vanadium	25.9	4.63	4.63	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-66-6	Zinc	100	5.56	5.56	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010

* Values outside of QC limits
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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Matrix:	Soil
Percent Solids:	86.10	File ID:	120616A-028

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10600	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-97-6	Mercury	0.0883	0.0871	0.0871	1		12/06/16 07:56	EPA 7471A	12/07/16 11:59 PRT	EPA 7471
7440-36-0	Antimony	ND	4.10	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-38-2	Arsenic	1.73	1.03	1.03	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-39-3	Barium	42.9	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.513	0.513	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-43-9	Cadmium	0.554	0.513	0.513	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-70-2	Calcium	1380	25.7	25.7	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-47-3	Chromium	17.5	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-48-4	Cobalt	11.1	5.13	5.13	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-50-8	Copper	18.3	3.08	3.08	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-89-6	Iron	18000	641	641	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:27 LIT	EPA 6010
7439-92-1	Lead	31.8	1.03	1.03	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-95-4	Magnesium	4270	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-96-5	Manganese	227	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-02-0	Nickel	16.4	4.10	4.10	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-09-7	Potassium	1110	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7782-49-2	Selenium	ND	2.05	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-22-4	Silver	ND	0.513	0.513	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-23-5	Sodium	138	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-28-0	Thallium	ND	1.54	3.08	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-62-2	Vanadium	22.7	5.13	5.13	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-66-6	Zinc	55.6	6.16	6.16	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010

* Values outside of QC limits
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Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Matrix:	Soil
Percent Solids:	79.40	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.0	1.44	1.44	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.52	2.52	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.26	1.26	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	79.4	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Matrix:	Soil
Percent Solids:	76.70	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	20.8	1.96	1.96	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.61	2.61	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.30	1.30	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	76.7	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
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MDL - Minimum detection limit
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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Matrix:	Soil
Percent Solids:	79.40	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.1	1.63	1.63	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.52	2.52	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.26	1.26	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	79.4	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
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MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Matrix:	Soil
Percent Solids:	80.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.5	1.81	1.81	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.50	2.50	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.25	1.25	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	80.0	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Matrix:	Soil
Percent Solids:	83.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.3	1.51	1.51	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.40	2.40	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.20	1.20	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	83.2	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Matrix:	Soil
Percent Solids:	81.90	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	19.8	1.90	1.90	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.44	2.44	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.22	1.22	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	81.9	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Matrix:	Soil
Percent Solids:	87.10	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	18.4	1.61	1.61	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.30	2.30	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.15	1.15	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	87.1	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Matrix:	Soil
Percent Solids:	86.10	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	17.5	1.77	1.77	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.32	2.32	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.16	1.16	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	86.1	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1501878

Client Sample ID:	Lab Sample ID:
EP-1	1501878-01
EP-2	1501878-02
EP-3	1501878-03
EP-4	1501878-04
EP-5	1501878-05

This data has been reviewed and accepted by:

Daniel Miguel 11/23/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 5 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 10/20/2015 3:15:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2622 and B5J2718 recovered outside control limits for certain analytes. These analytes were recovered outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the Volatile Organic analyses, the MS/MSD for Batch B5J2622 and B5J2718 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits; therefore, no further action required.

In the Volatile Organic analyses, the methylene chloride result reported for all samples is due to laboratory contamination.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2601 recovered outside control limits for certain analytes. These analytes were recovered outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5J2601 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Pesticide/PCB analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2301 recovered outside control limits for certain analytes. These analytes were recovered outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the Pesticide/PCB analyses, the MS/MSD for Batch B5J2301 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis, the MDL/RL for Selenium exceeds the NYDEC Unrestricted Soil Cleanup Criteria for AAR Sample #1501878-01 and -05 due to the high moisture content of the sample (% Solid: 44.6% AAR Sample #1501878-01 and 22.8% AAR Sample #1501878-05).

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Accredited Analytical Resources, LLC.

Methodology Summary

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **138th Street, Bronx, NY; 10BR188**
Work Order: **1501878**

Received: 10/20/15 15:15

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th St, Bronx, NY, 10821188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	d.harm@brink.env

CLIENT NAME:	BrinKerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1501878
P.O. #	

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH (FT)	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-1	10/19/15 10:15 + 11:30	S	14.5-15	4	G	✓	✓	-01
EP-2	10/19/15 10:20 + 11:35	S	14.5-15	4	G	✓	✓	-02
EP-3	10/19/15 10:27 + 11:40	S	14.5-15	4	G	✓	✓	-03
EP-4	10/19/15 10:35 + 11:45	S	14.5-15	4	G	✓	✓	-04
EP-5	10/19/15 10:40 - 11:50	S	14.5-15	4	G	✓	✓	-05

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to BrinKerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: John Tarawo	Print Name: John Tarawo	Print Name: K. Muniz
Signature: Monica Norton	Signature: [signature]	Signature: [signature]	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10/20/15 Time: 10:10		Date Received: 10/20/15 Time: 15:15	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Bernie O'Gara

From: "Monica Norton" <mnorton@brinkenv.com>
To: "'Bernie O'Gara'" <bernie@accreditedanalytical.com>
Cc: "'Sean Harrison'" <sharrison@brinkenv.com>
Sent: Wednesday, October 21, 2015 3:55 PM
Subject: Chain of Custody Revision - 255 E. 138th Street - 10BR188

Bernie,

For the COC that was submitted yesterday, October 20th, 2015 for the project located at 255 East 138th Street, Bronx, NY (Name: 10BR188), please change the sample time for each EP sample to be the second time (i.e. EP-1 sampled at 11:30, EP-2 sampled at 11:35, EP-3 sampled at 11:40, etc…).

Please let me know if you have any other questions.

Thanks!

Monica

Monica Norton
mnorton@brinkenv.com
BRINKERHOFF
ENVIRONMENTAL SERVICES, INC.
1805 Atlantic Avenue
Manasquan, NJ 08736
Phone: 732-223-2225
Fax: 732-223-3666
Web: www.BrinkEnv.com

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-1	1501878-01	Soil	10/19/2015 11:30	10/20/2015 15:15
EP-2	1501878-02	Soil	10/19/2015 11:35	10/20/2015 15:15
EP-3	1501878-03	Soil	10/19/2015 11:40	10/20/2015 15:15
EP-4	1501878-04	Soil	10/19/2015 11:45	10/20/2015 15:15
EP-5	1501878-05	Soil	10/19/2015 11:50	10/20/2015 15:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-1
Lab Sample ID: 1501878-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Date Sampled:	10/19/15 11:30	Matrix:	Soil
Percent Solids:	44.60	File ID:	102615B-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	4.48	8.97	1	U	10/26/15 09:32	EPA 3050B	10/26/15 14:04 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-2
Lab Sample ID: 1501878-02
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Date Sampled:	10/19/15 11:35	Matrix:	Soil
Percent Solids:	62.00	File ID:	102615B-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	3.23	6.45	1	U	10/26/15 09:32	EPA 3050B	10/26/15 14:09 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-3
Lab Sample ID: 1501878-03
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Date Sampled:	10/19/15 11:40	Matrix:	Soil
Percent Solids:	79.20	File ID:	102615B-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.53	5.05	1	U	10/26/15 09:32	EPA 3050B	10/26/15 14:14 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-4
Lab Sample ID: 1501878-04
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Date Sampled:	10/19/15 11:45	Matrix:	Soil
Percent Solids:	74.20	File ID:	102615B-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.70	5.39	1	U	10/26/15 09:32	EPA 3050B	10/26/15 14:29 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-5
Lab Sample ID: 1501878-05
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501878

Date Sampled:	10/19/15 11:50	Matrix:	Soil
Percent Solids:	22.80	File ID:	102615B-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	8.77	17.5	1	U	10/26/15 09:32	EPA 3050B	10/26/15 14:34 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1501909

Client Sample ID:	Lab Sample ID:
EP-6	1501909-01
EP-7	1501909-02
EP-8	1501909-03

This data has been reviewed and accepted by:

Daniel Miguel 11/23/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 3 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 10/23/2015 2:30:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2622 and B5J2718 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the Volatile Organic analyses, the MS/MSD for Batch B5J2622 and B5J2718 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits; therefore, no further action required.

In the Volatile Organic analyses, one surrogate (Bromofluorobenzene) for AAR Sample #1501909-01 was out of criteria. The sample was reanalyzed and the surrogate was again recovered out of the required criteria. The methylene chloride result reported for all samples is due to laboratory contamination.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2601 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5J2601 had compounds recovered outside acceptance limits due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis, the MDL/RL for Selenium exceeds the NYDEC Unrestricted Soil Cleanup Criteria for AAR Sample #1501909-01 and -03 due to the high moisture content of the sample (% Solid: 48% AAR Sample #1501909-01 and 47% AAR Sample #1501909-03).

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike concentration. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Accredited Analytical Resources, LLC.

Methodology Summary

Total Metals by EPA Method SW846 6010:

NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **138th Street, Bronx, NY; 10BR188**
Work Order: **1501909**

Received: 10/23/15 14:30

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

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Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th St., Bronx, NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1501909
P.O. #	

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-6	10/22/15 13:57	S		4	G	✓	✓	-01
EP-7	10/22/15 14:08	S		4	G	✓	✓	-02
EP-8	10/23/15 08:15	S		4	G	✓	✓	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: J. McCue	Print Name: J. McCue	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10/23/15	Time: 10:45	Date Received: 10/23/15	Time: 1430

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-6	1501909-01	Soil	10/22/2015 13:57	10/23/2015 14:30
EP-7	1501909-02	Soil	10/22/2015 14:08	10/23/2015 14:30
EP-8	1501909-03	Soil	10/23/2015 08:15	10/23/2015 14:30

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-6
Lab Sample ID: 1501909-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Date Sampled:	10/22/15 13:57	Matrix:	Soil
Percent Solids:	48.00	File ID:	102615B-029

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	4.17	8.33	1	U	10/26/15 09:32	EPA 3050B	10/26/15 15:05 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-7
Lab Sample ID: 1501909-02
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Date Sampled:	10/22/15 14:08	Matrix:	Soil
Percent Solids:	70.00	File ID:	102615B-030

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.86	5.71	1	U	10/26/15 09:32	EPA 3050B	10/26/15 15:10 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-8
Lab Sample ID: 1501909-03
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501909

Date Sampled:	10/23/15 08:15	Matrix:	Soil
Percent Solids:	47.00	File ID:	102615B-031

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	4.26	8.51	1	U	10/26/15 09:32	EPA 3050B	10/26/15 15:15 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1501914

Client Sample ID:	Lab Sample ID:
EP-9	1501914-01

This data has been reviewed and accepted by:

Daniel Miguel 11/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 10/26/2015 12:20:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2622 and B5J2718 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the Volatile Organic analyses, the MS/MSD for B5J2622 and B5J2718 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits; therefore, no further action required.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J2710 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for B5J2710 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **138th Street, Bronx, NY; 10BR188**
Work Order: **1501914**

Received: 10/26/15 12:20

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	138th St., Bronx, NY; 10BR188
CONTACT:	Doug Ham
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Ham
EMAIL FOR INVOICE:	dham@brinx.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1501914
P.O. #	

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
PRES. CODE →								
CONT. CODE →								
EP-9	10/23/15 11:00 AM	S		4	G	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC ~~E = ENCORE~~ PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED X FULL ____ EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: J. Mecca	Print Name: J. Mecca	Print Name: K. Nuniz
Signature: Monica Norton	Signature:	Signature:	Signature: K. Nuniz
Agent of:	Agent of: AAR	Agent of:	Agent of: AAR
Date Received: 10/26/15	Time: 9:50	Date Received: 10/26/15	Time: 12:20

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-9	1501914-01	Soil	10/23/2015 11:00	10/26/2015 12:20

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9
Lab Sample ID: 1501914-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501914

Date Sampled:	10/23/15 11:00	Matrix:	Soil
Percent Solids:	68.60	File ID:	102715B-016

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.92	5.83	1	U	10/27/15 11:02	EPA 3050B	10/27/15 15:29 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1501923

Client Sample ID:	Lab Sample ID:
EP-10	1501923-01

This data has been reviewed and accepted by:

Daniel Miguel 11/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 10/27/2015 2:15:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5K0314-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J3001 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5J3001 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **138th Street, Bronx, NY; 10BR188**
Work Order: **1501923**

Received: 10/27/15 14:15

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	135th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1501923
P.O. #	

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL Metals	TCL Metals	AAR SAMPLE #
EP-10	10/26/15/12:05	S		4	G	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: John Iraino	Print Name: John Iraino	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature:
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10/27/15	Time: 1360	Date Received: 10/27/15	Time: 415
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-10	1501923-01	Soil	10/26/2015 12:05	10/27/2015 14:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-10
Lab Sample ID: 1501923-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501923

Date Sampled:	10/26/15 12:05	Matrix:	Soil
Percent Solids:	67.30	File ID:	103015A-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.97	5.94	1	U	10/30/15 08:41	EPA 3050B	10/30/15 14:02 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1501955

Client Sample ID:	Lab Sample ID:
EP-11	1501955-01

This data has been reviewed and accepted by:

Daniel Miguel 11/23/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 10/29/2015 3:40:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5K0314-MS1/MSD1 and B5K0509-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits for all compounds; therefore, no further action required.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5J3001 recovered outside control limits for certain analytes. These analytes were outside DKQP limits, but within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5J3001 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis, the MDL/RL for Selenium exceeds the NYDEC Unrestricted Soil Cleanup Criteria for AAR Sample #1501955-01 due to the high moisture content of the sample (% Solid: 50%).

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **138th Street, Bronx, NY; 10BR188**
Work Order: **1501955**

Received: 10/29/15 15:40

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1501955
P.O. #	

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-11	10/28/15 11:20	S		4	G	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ~~ENCORE~~ PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: John Jones	Print Name: John Jones	Print Name: K. Muniz
Signature: Monica Norton	Signature: [signature]	Signature: [signature]	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 10/29/15	Time: 12:45	Date Received: 10/29/15	Time: 1540

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-11	1501955-01	Soil	10/28/2015 11:20	10/29/2015 15:40

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-11
Lab Sample ID: 1501955-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501955

Date Sampled:	10/28/15 11:20	Matrix:	Soil
Percent Solids:	50.00	File ID:	103015A-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	4.00	8.00	1	U	10/30/15 08:41	EPA 3050B	10/30/15 14:07 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1501974

Client Sample ID:	Lab Sample ID:
EP-12	1501974-01

This data has been reviewed and accepted by:

Daniel Miguel 11/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 11/2/2015 3:50:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5K0314-MS1/MSD1 and B5K0509-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits for all compounds; therefore, no further action required.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the BNA analyses, B5K0410-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **138th Street, Bronx, NY; 10BR188**
Work Order: **1501974**

Received: 11/2/15 15:50

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1501974
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-12	10/30/15/11:00AM	S		4	G	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC ~~E = ENCORE~~ PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: [illegible]	Print Name: [illegible]	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 11/2/15	Time: 13:40	Date Received: 11/2/15	Time: 15:50
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-12	1501974-01	Soil	10/30/2015 11:00	11/02/2015 15:50

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-12
Lab Sample ID: 1501974-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1501974

Date Sampled:	10/30/15 11:00	Matrix:	Soil
Percent Solids:	63.40	File ID:	110515B-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	3.15	6.31	1	U	11/05/15 06:45	EPA 3050B	11/05/15 13:34 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: E. 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1502015

Client Sample ID:	Lab Sample ID:
EP-13	1502015-01
EP-9b	1502015-02

This data has been reviewed and accepted by:

Daniel Miguel 11/23/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 2 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: E. 138th Street, Bronx, NY; 10BR188) on 11/5/2015 4:25:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5K0916-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5K1009 recovered outside control limits for multiple analytes. These analytes were within house limits; therefore, the data has been reported.

In the Metals analysis, the MDL/RL for Selenium exceeds the NYDEC Unrestricted Soil Cleanup Criteria for AAR Sample #1502015-01 due to the high moisture content of the sample (% Solid: 20.6%).

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria fro those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **E. 138th Street, Bronx, NY; 10BR188**
Work Order: **1502015**

Received: 11/5/15 16:25

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	E. 138th Street, Bronx NY; 10BR188
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3066
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502015
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-13	11/4/15/08:50	S		4	G	✓	✓	-01
EP-9b	11/4/15/13:15	S		4	G	✓	✓	-02

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC ~~E = ENCORE~~ PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: J. Mitaus	Print Name:	Print Name: K. Muniz
Signature: Monica Norton	Signature:	Signature:	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 11 / 05 / 15	Time: 11:40	Date Received: 11 / 5 / 15	Time: 1625

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-13	1502015-01	Soil	11/04/2015 08:50	11/05/2015 16:25
EP-9b	1502015-02	Soil	11/04/2015 13:15	11/05/2015 16:25

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-13
Lab Sample ID: 1502015-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 08:50	Matrix:	Soil
Percent Solids:	20.60	File ID:	110915D-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	9.71	19.4	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:03 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-9b
Lab Sample ID: 1502015-02
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502015

Date Sampled:	11/04/15 13:15	Matrix:	Soil
Percent Solids:	58.00	File ID:	110915D-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	3.45	6.90	1	U	11/09/15 08:47	EPA 3050B	11/09/15 19:08 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1502031

Client Sample ID:	Lab Sample ID:
EP-14	1502031-01
EP-15	1502031-02
EP-16	1502031-03

This data has been reviewed and accepted by:

Daniel Miguel 11/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 3 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 138th Street, Bronx, NY; 10BR188) on 11/10/2015 2:15:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5K1614-MS1/MSD1 and B5K1710-MS1/MSD1 had compounds recovered outside acceptance limits due to matrix interference, the LCS was recovered within acceptance limts for all compounds; therefore, no further action required.

In the Volatile Organic analyses, one surrogate (Bromofluorobenzene) for AAR Sample #1502031-02 was out of criteria. The sample was reanalyzed and the surrogate was again recovered out of the required criteria. The methylene chloride result reported for AAR Sample #1502031-01 is due to matrix interference.

In the BNA analyses, the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for Batch B5K1301 recovered outside control limits for certain analytes. These analytes were within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5K1301 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **138th Street, Bronx, NY; 10BR188**
Work Order: **1502031**

Received: 11/10/15 14:15

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm and Sharrison@brinkenv
EMAIL FOR INVOICE:	dharm@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502031
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	AAR SAMPLE #
EP-14	11/9/15/10:40	S		4	G	✓	✓	-01
EP-15	11/9/15/10:50	S		4	G	✓	✓	-02
EP-16	11/9/15/11:10	S		4	G	✓	✓	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 1 week
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Send invoice to Brinkerhoff; NYSDEC Category B data deliverable

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: John Ingram	Print Name: John Ingram	Print Name: K. Muniz
Signature: Monica Norton	Signature: [signature]	Signature: [signature]	Signature: K. Muniz
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 11/10/15	Time: 10:15	Date Received: 11/10/15	Time: 4:50
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-14	1502031-01	Soil	11/09/2015 10:40	11/10/2015 14:15
EP-15	1502031-02	Soil	11/09/2015 10:50	11/10/2015 14:15
EP-16	1502031-03	Soil	11/09/2015 11:10	11/10/2015 14:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-14
Lab Sample ID: 1502031-01
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:40	Matrix:	Soil
Percent Solids:	63.00	File ID:	111215B-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	3.17	6.35	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:07 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-15
Lab Sample ID: 1502031-02
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 10:50	Matrix:	Soil
Percent Solids:	58.00	File ID:	111215B-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	3.45	6.90	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:12 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-16
Lab Sample ID: 1502031-03
Project: 138th Street, Bronx, NY; 10BR188
Work Order: 1502031

Date Sampled:	11/09/15 11:10	Matrix:	Soil
Percent Solids:	84.20	File ID:	111215B-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.38	4.75	1	U	11/11/15 13:36	EPA 3050B	11/12/15 14:27 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: E. 138th Street, Bronx, NY; 10BR188

AAR Work Order: 1502101

Client Sample ID:	Lab Sample ID:
EP-17	1502101-01

This data has been reviewed and accepted by:

Daniel Miguel 11/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: E. 138th Street, Bronx, NY; 10BR188) on 11/18/2015 4:10:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **E. 138th Street, Bronx, NY; 10BR188**
Work Order: **1502101**

Received: 11/18/15 16:10

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	Yes
Samples Hand Delivered	No

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	E 138th Street, Bronx, NY; 10BR188
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-~~222~~3666
INITIAL RESULTS TO:	Doug Harm + Sean Harrison
EMAIL FOR INVOICE:	dharm@brink.env + sharrison@brink.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502101
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full											AAR SAMPLE #
EP-17	11/17/15/11:50	S		4	G													-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. (OTHER) 1 week
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ (FULL) X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B data deliverable. Please complete hardcopy report by November 25th, 2015.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: J. Muniz	Print Name: J. Muniz	Print Name: K. Muniz
Signature: Monica Norton	Signature: [signature]	Signature: [signature]	Signature: [signature]
Agent of:	Agent of: AAR	Agent of: AAR	Agent of: AAR
Date Received: 11 / 18 / 15	Time: 12:20	Date Received: 11 / 18 / 15	Time: 1610

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-17	1502101-01	Soil	11/17/2015 11:50	11/18/2015 16:10

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-17
Lab Sample ID: 1502101-01
Project: E. 138th Street, Bronx, NY; 10BR188
Work Order: 1502101

Date Sampled:	11/17/15 11:50	Matrix:	Soil
Percent Solids:	53.00	File ID:	111915D-029

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	3.77	7.55	1	U	11/19/15 10:20	EPA 3050B	11/19/15 19:57 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1502323

Client Sample ID:	Lab Sample ID:
EP-18	1502323-01

This data has been reviewed and accepted by:

Daniel Miguel 11/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street, Bronx, NY) on 12/23/2015 12:00:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the BNA analyses, the laboratory control sample (LCS) for Batch B5L2403 recovered outside control limits for multiple analytes. These analytes were within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5L2403 had compounds recovered outside acceptance criteria due to matrix interference. The LCS was within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, the laboratory control sample (LCS) for Batch B5L2402 recovered outside control limits for certain analytes. These analytes were within house limits; therefore, the data has been reported.

In the Pesticide analyses, the MS/MSD for Batch B5L2402 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was within acceptance limits for affected compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502323**

Received: 12/23/15 12:00

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street, Bronx, NY
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm + Sean Harrison
EMAIL FOR INVOICE:	dharm@brinx.env + sharrison@brinx.env

CLIENT NAME:	Brinkerhoff Environmental Services, Inc.
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan.
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502323
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL Full	TCL Full	Hex Chrom	Tri Chrom									AAR SAMPLE #
EP-18	12/23/15 / 10:10	S		4	G	X	X	X	X									-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 1 Week
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Category B data deliverable. Hard copy by January 13th 2015 NYSDEC COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Monica Norton	Signature: K. Muniz	Signature:	Signature:
Agent of:	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/23/15 Time: 1200		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-18	1502323-01	Soil	12/23/2015 10:10	12/23/2015 12:00

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-18
Lab Sample ID: 1502323-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502323

Date Sampled:	12/23/15 10:10	Matrix:	Soil
Percent Solids:	71.30	File ID:	122815A-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.81	5.61	1	U	12/24/15 08:18	EPA 3050B	12/28/15 11:22 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1502333

Client Sample ID:	Lab Sample ID:
EP-19	1502333-01

This data has been reviewed and accepted by:

Daniel Miguel 11/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street, Bronx, NY) on 12/28/2015 12:57:00 PM.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B5L2811-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B5L3003 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B5L3003 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B5L3001-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1502333**

Received: 12/28/15 12:57

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street, Bronx, NY
CONTACT:	Doug Harm + Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm + Sean Harrison
EMAIL FOR INVOICE:	dharm@bnk.env + Sharrison@bnk.env

CLIENT NAME:	Brinkerhoff Environmental Services
ADDRESS:	1805 Atlantic Avenue
CITY:	Monasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1502333
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE → 5 E G G

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL full	TCL full	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-19	12/28/15 / 9:05	S		4	G	X	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC ~~E = ENCORE~~ PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD ~~5 DAY~~ M.N. 72 HRS. 48 HRS. 24 HRS. OTHER _____ (IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Category B data deliverable. Hard copy by January ~~26th~~ M.N. 27th 2015 NYSDEC COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: D. Miguel	Print Name:	Print Name:
Signature: Monica Norton	Signature: [signature]	Signature:	Signature:
Agent of:	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/28/15 Time: 12:57		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-19	1502333-01	Soil	12/28/2015 09:05	12/28/2015 12:57

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-19
Lab Sample ID: 1502333-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1502333

Date Sampled:	12/28/15 09:05	Matrix:	Soil
Percent Solids:	79.00	File ID:	123015B-012

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.53	5.06	1	U	12/29/15 10:50	EPA 3050B	12/30/15 12:28 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 E. 138th Street

AAR Work Order: 1600232

Client Sample ID:	Lab Sample ID:
EP-20	1600232-01

This data has been reviewed and accepted by:

Daniel Miguel 11/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 E. 138th Street) on 02/10/2016 13:00.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the MDL level was elevated due to matrix interference.

In the Volatile Organic analyses, B6B1514-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6B1101 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6B1101 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B6B1201-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those compounds out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 E. 138th Street**
Work Order: **1600232**

Received: 2/10/16 13:00

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 E. 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental Service
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1690232
P.O. #	10BR188

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL Full	TCL Full	Hex Chrom	Tri Chrom	AAR SAMPLE #
PRES. CODE →										
CONT. CODE →										
EP-20	2/10/16/10:15	S		4	G	✓	✓	✓	✓	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 1 week
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: ~~Forte~~ NYSDEC category B data deliverable - Send invoice to Brinkerhoff

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Monica Norton SIGN: Monica Norton

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Monica Norton	Signature: K. Muniz	Signature:	Signature:
Agent of: BES	Agent of: AAR	Agent of:	Agent of:
Date Received: 2/10/16 Time: 1300		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-20	1600232-01	Soil	02/10/2016 10:15	02/10/2016 13:00

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-20
Lab Sample ID: 1600232-01
Project: 255 E. 138th Street
Work Order: 1600232

Date Sampled:	02/10/16 10:15	Matrix:	Soil
Percent Solids:	83.00	File ID:	021216A-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.41	4.82	1	U	02/11/16 11:25	EPA 3050B	02/12/16 12:20 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601375

Client Sample ID:	Lab Sample ID:
EP-21	1601375-01

This data has been reviewed and accepted by:

Daniel Miguel 11/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 07/21/2016 13:40.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, one surrogate (1,2-Dichloroethane-d4) was out of criteria. The sample was reanalyzed and the surrogate was again recovered out of the required criteria.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6G2215 recovered outside control limits for certain analytes. These analytes were within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6G2215 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria due to matrix interference. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601375**

Received: 7/21/16 13:40

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave.
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601375
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom										AAR SAMPLE #
EP-21	7/21/16	S	18'	4	G	X	X	X										-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data Deliverables

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 7/21/16	Time: 1340	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-21	1601375-01	Soil	07/21/2016 00:00	07/21/2016 13:40

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-21
Lab Sample ID: 1601375-01
Project: 255 East 138th Street
Work Order: 1601375

Date Sampled:	07/21/16 00:00	Matrix:	Soil
Percent Solids:	81.00	File ID:	072216A-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.43	4.85	1	U	07/22/16 07:29	EPA 3050B	07/22/16 13:34 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138 Street

AAR Work Order: 1601418

Client Sample ID:	Lab Sample ID:
EP-22	1601418-01

This data has been reviewed and accepted by:

Daniel Miguel 11/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138 Street) on 07/28/2016 15:25.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the methylene chloride result reported is due to laboratory contamination.

In the Volatile Organic analyses, B6H0217-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6H0203 recovered outside control limits for multiple analytes. These analytes were recovered within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6H0203 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138 Street**
Work Order: **1601418**

Received: 7/28/16 15:25

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138 Street
CONTACT:	Sean harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1601418
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom										AAR SAMPLE #
EP-22	7/28/16 1044	S	9-10'	4	G	X	X	X										-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data Deliverables

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 7/28/16	Time: 1525	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-22	1601418-01	Soil	07/28/2016 10:44	07/28/2016 15:25

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-22
Lab Sample ID: 1601418-01
Project: 255 East 138 Street
Work Order: 1601418

Date Sampled:	07/28/16 10:44	Matrix:	Soil
Percent Solids:	89.20	File ID:	080216A-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.24	4.48	1	U	08/02/16 08:51	EPA 3050B	08/02/16 14:13 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 E. 138th Street

AAR Work Order: 1601618

Client Sample ID:	Lab Sample ID:
EP-24	1601618-01

This data has been reviewed and accepted by:

Daniel Miguel 11/18/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 E. 138th Street) on 08/24/2016 14:05.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B6H2515-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6H2601 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6H2601 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, the laboratory control sample (LCS) for Batch B6H2506 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike concentration. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 E. 138th Street**
Work Order: **1601618**

Received: 8/24/16 14:05

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 E. 138th St.
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	16J1618
P.O. #	10BB188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom										AAR SAMPLE #
EP-24	8/24/16 1240	S	10-11	4	G	X	X	X										-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYS DEC Catagory B Data Deliverables. Hard copy due 4 weeks from today: 8/24/16

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8 / 24 / 16 Time: 1405		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Ti	

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-24	1601618-01	Soil	08/24/2016 12:10	08/24/2016 14:05

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-24
Lab Sample ID: 1601618-01
Project: 255 E. 138th Street
Work Order: 1601618

Date Sampled:	08/24/16 12:10	Matrix:	Soil
Percent Solids:	82.40	File ID:	082616E-027

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.42	4.84	1	U	08/26/16 07:14	EPA 3050B	08/26/16 14:45 RMK	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601635

Client Sample ID:	Lab Sample ID:
EP-25	1601635-01

This data has been reviewed and accepted by:

Daniel Miguel 11/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 08/24/2016 14:05.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B6H2515-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6H2601 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6H2601 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, the labortory control sample (LCS) for Batch B6H2506 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601635**

Received: 8/24/16 14:05

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601635
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	TCL Chrom	AAR SAMPLE #
EP-25	8/24/16 1040	S		4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data Deliverables. Hard Copy due 4 weeks from today, 8/24/16. DO NOT RUN. Until authorized by email COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8/24/16	Time: 1405	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Page 1 of ____

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	TCL Chrom	AAR SAMPLE #
EP-25	8/24/16 1040	SW		4	G	X	X	X	

Please analyze sample with a 48-hour TAT.
SH 8/25/2016

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverables. Hard Copy due 4 weeks from today, 8/24/16. DO NOT RUN, Until authorized

COOLER TEMP:

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus by email SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8/24/16	Time: 1405	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-25	1601635-01	Soil	08/24/2016 10:40	08/24/2016 14:05

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-25
Lab Sample ID: 1601635-01
Project: 255 East 138th Street
Work Order: 1601635

Date Sampled:	08/24/16 10:40	Matrix:	Soil
Percent Solids:	91.20	File ID:	082616E-035

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.18	4.36	1	U	08/26/16 07:14	EPA 3050B	08/26/16 15:26 RMK	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601673

Client Sample ID:	Lab Sample ID:
EP-26	1601673-01

This data has been reviewed and accepted by:

Daniel Miguel 11/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 08/31/2016 14:20.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B6I0210-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, B6I0103-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Pesticide analyses, B6I0601-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601673**

Received: 8/31/16 14:20

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601673
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-26	8/31/16 0856	S	N/A	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverables. Hard Copy report due four (4) weeks from today

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 8 / 31 / 16 Time: 1400		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-26	1601673-01	Soil	08/31/2016 08:56	08/31/2016 14:20

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-26
Lab Sample ID: 1601673-01
Project: 255 East 138th Street
Work Order: 1601673

Date Sampled:	08/31/16 08:56	Matrix:	Soil
Percent Solids:	87.20	File ID:	090616C-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.29	4.59	1	U	09/02/16 12:56	EPA 3050B	09/06/16 15:22 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601701

Client Sample ID:	Lab Sample ID:
EP-27	1601701-01

This data has been reviewed and accepted by:

Daniel Miguel 11/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 09/07/2016 14:15.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B6I0815-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6I0901 recovered outside control limits for multiple analytes. These analytes were recovered within house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6I0901 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B6I0902-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601701**

Received: 9/7/16 14:15

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	(732) 223-2225
OFFICE FAX #	(732) 223-3666
INITIAL RESULTS TO:	Sharrison@brinkenv.com
EMAIL FOR INVOICE:	Sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	New Jersey
ZIP:	07756

AAR QUOTE #	
AAR WORK ORDER #	1601701
P.O. #	10BR188

ANALYSIS

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
PRES. CODE →									
CONT. CODE →									
EP-27	9/6/16 1247	S	16'	4	G	X	X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER 36 hr (IF BLANK STANDARD WILL APPLY) JK 9/7/16
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYS DEC Catagory B Data Deliverables. Hard Copy report due 4 weeks from today.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Jonathan Kraus SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Jonathan Kraus	Print Name: B. O'Brien	Print Name:	Print Name:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 9 / 7 / 16 Time: 14:15		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-27	1601701-01	Soil	09/06/2016 12:47	09/07/2016 14:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-27
Lab Sample ID: 1601701-01
Project: 255 East 138th Street
Work Order: 1601701

Date Sampled:	09/06/16 12:47	Matrix:	Soil
Percent Solids:	73.30	File ID:	091216A-017

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.02	4.04	1	U	09/09/16 09:42	EPA 3050B	09/12/16 11:37 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1601783

Client Sample ID:	Lab Sample ID:
EP-31	1601783-01

This data has been reviewed and accepted by:

Daniel Miguel 11/17/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Accredited Analytical Resources, LLC.

Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 09/16/2016 14:10.

On 11/15/16, per client request, Selenium reported down to MDL in order to meet NYDEC limits. The results are attached.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, B6I2013-MS1/MSD1 and B6I2307-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS's were recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, three surrogates (2-Fluorophenol, Phenol-d5 and 2,4,6-Tribromophenol) were out of criteria. The sample was diluted and analyzed and the surrogates were again recovered out of the required criteria.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6I2101 recovered outside control limits for multiple analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6I2101 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B6I1902-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered withn acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria. The QC sample had concentrations too high to be able to determine a spike recovery. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1601783**

Received: 9/16/16 14:10

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	sharrison@brinkenv.com
EMAIL FOR INVOICE:	same

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	NJ
ZIP:	08736

AAR QUOTE #	
AAR WORK ORDER #	1601783
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL TCL	Hex Chrom	Tri Chrom										AAR SAMPLE #
EP-31	9/16/16 10:20	S	15-15.5	4	G	X	X	X										-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER ____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSEC catagory B Data Deliverables. Hardcopy report due four (4) weeks from today.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 9/16/16	Time: 1410	Date Received: / /	Time:
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-31	1601783-01	Soil	09/16/2016 10:20	09/16/2016 14:10

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-31
Lab Sample ID: 1601783-01
Project: 255 East 138th Street
Work Order: 1601783

Date Sampled:	09/16/16 10:20	Matrix:	Soil
Percent Solids:	37.20	File ID:	092016B-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	2.88	5.75	1	U	09/19/16 08:50	EPA 3050B	09/20/16 12:35 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1602114

Client Sample ID:	Lab Sample ID:
EP-32	1602114-01
EP-33	1602114-02
DUP-1	1602114-03

This data has been reviewed and accepted by:

Daniel Miguel 11/23/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

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Case Narrative

Conformance / Non-Conformance Summary

AAR Work Order:**1602114**

Accredited Analytical Resources, LLC received 3 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 11/07/2016 14:15.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the MDL level was elevated for AAR Sample #1602114-03 due to matrix interference.

In the Volatile Organic analyses, B6K1113-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the BNA analyses, the laboratory control sample (LCS) for Batch B6K0901 recovered outside control limits for certain analytes. These analytes were recovered within the house limits; therefore, the data has been reported.

In the BNA analyses, the MS/MSD for Batch B6K0901 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for affected compounds; therefore, no further action required.

In the Pesticide analyses, B6K0902-MS1/MSD1 had compounds recovered outside acceptance criteria due to matrix interference, the LCS was recovered within acceptance limits for all compounds; therefore, no further action required.

In the Metals analysis, the MDL/RL for Selenium exceeds the NYDEC Unrestricted Soil Cleanup Criteria for AAR Sample #1602114-01 due to the high moisture content of the sample (% Solid: 27%).

In the Metals analysis the recoveries of the MS/MSD were outside of acceptance criteria due to matrix interference. The LCS was within acceptance criteria for those metals out in the MS/MSD. The results are included in this data package.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses."

Daniel Miguel
Technical Director

Methodology Summary

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1602114**

Received: 11/7/16 14:15

Cooler

Temperature °C	6.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3664
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkerhw.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1602114
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex chrom	Tri chrom										AAR SAMPLE #
EP-32	11/7/16 1230	S	5.5 15.5	4	G	X	X	X										-01
EP-33	11/7/16 1215	S	1.5 1.0	4	G	X	X	X										-02
DUP-1	11/7/16 1220	S		4	G	X	X	X										-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE)	STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____ (IF BLANK STANDARD WILL APPLY)
REPORT TYPE:	RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Catagory B Data Deliverables. Hard copy Report due (4) four weeks from today.

COOLER TEMP: 6°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: X K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 11/7/16 Time: 1416		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Time:	

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-32	1602114-01	Soil	11/07/2016 12:30	11/07/2016 14:15
EP-33	1602114-02	Soil	11/07/2016 12:15	11/07/2016 14:15
DUP-1	1602114-03	Soil	11/07/2016 12:20	11/07/2016 14:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-32
Lab Sample ID: 1602114-01
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:30	Matrix:	Soil
Percent Solids:	27.00	File ID:	110816A-018

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	13.4	13.4	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:06 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-33
Lab Sample ID: 1602114-02
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:15	Matrix:	Soil
Percent Solids:	86.50	File ID:	110816A-021

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	3.64	3.64	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:21 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-1
Lab Sample ID: 1602114-03
Project: 255 East 138th Street
Work Order: 1602114

Date Sampled:	11/07/16 12:20	Matrix:	Soil
Percent Solids:	87.40	File ID:	110816A-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7782-49-2	Selenium	ND	3.65	3.65	1	U	11/07/16 15:34	EPA 3050B	11/08/16 13:26 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1602245

Client Sample ID:	Lab Sample ID:
EP-34	1602245-01
EP-35	1602245-02
EP-36	1602245-03
EP-37	1602245-04
EP-38	1602245-05
EP-39	1602245-06
EP-39	1602245-06RE1
EP-40	1602245-07
DUP-2	1602245-08

This data has been reviewed and accepted by:

Daniel Miguel 12/08/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

Methodology Summary

EPA Method SW846 8081/8082:
NJ 8081A/8082
NY 8081B/8082A

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Total Mercury by SW846 7471:
NJ EPA 7471A
NY EPA 7471B

Total Metals by EPA Method SW846 6010:
NJ 6010B
NY 6010C

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Wet Chemistry:
Hexavalent Chromium by 3060A/7196A
Total Cyanide by EPA 9010C & EPA 9014
Percent Solids by SM 2540 G

Accredited Analytical Resources, LLC.

Internal Chain of Custody

	Out	In
1602245-01 (A)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
1602245-01 (B)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-01 (C)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-01 (D)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-01RE1 (A)		
Walk-In Storage	12/6/16 15:37 by ARS	12/7/16 15:52 by ARS
Walk-In Storage	12/7/16 15:52 by DSM	by DSM
1602245-02 (A)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT
1602245-02 (B)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-02 (C)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-02 (D)		
START	12/2/16 16:47 by KMC	12/2/16 16:47 by KMC
1602245-02RE1 (D)		
VOA Storage	12/7/16 14:17 by SG	12/7/16 15:55 by SG

VOA Storage	12/7/16 15:55 by SG	by SG

1602245-03 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT

1602245-03 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-03 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-03 (D)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-03RE1 (D)	*Out*	*In*
VOA Storage	12/7/16 16:08 by SG	by SG

1602245-04 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT

1602245-04 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-04 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-04 (D)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-04RE1 (D)	*Out*	*In*
VOA Storage	12/7/16 14:17 by SG	12/7/16 15:55 by SG
VOA Storage	12/7/16 15:55 by SG	by SG

1602245-05 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC

Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
1602245-05 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-05 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-05 (D)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-06 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT
1602245-06 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-06 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-06 (D)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-06RE1 (A)	*Out*	*In*
Walk-In Storage	12/6/16 15:37 by ARS	12/7/16 15:32 by ARS
Walk-In Storage	12/7/16 15:32 by DSM	by DSM
1602245-07 (A)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
1602245-07 (B)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-07 (C)	*Out*	*In*
START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC
1602245-07 (D)	*Out*	*In*

START	12/2/16 16:48 by KMC	12/2/16 16:48 by KMC

1602245-08 (A)	*Out*	*In*
START	12/2/16 16:49 by KMC	12/2/16 16:49 by KMC
Extractions	12/5/16 8:15 by MJS	12/5/16 10:54 by MJS
Wets	12/5/16 10:54 by KMC	12/5/16 11:36 by KMC
Wets	12/5/16 11:36 by NNM	12/5/16 15:29 by NNM
Metals	12/6/16 8:04 by PRT	12/6/16 9:45 by PRT
Metals	12/8/16 8:40 by PRT	by PRT

1602245-08 (B)	*Out*	*In*
START	12/2/16 16:49 by KMC	12/2/16 16:49 by KMC

1602245-08 (C)	*Out*	*In*
START	12/2/16 16:49 by KMC	12/2/16 16:49 by KMC

1602245-08 (D)	*Out*	*In*
START	12/2/16 16:49 by KMC	12/2/16 16:49 by KMC

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1602245**

Received: 12/2/16 16:45

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1602245
P.O. #	10BR188

ANALYSIS

PRES. CODE → 5 5 5
CONT. CODE → E G G

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TAL/TCL	Hex Chrom	Tri Chrom	AAR SAMPLE #
EP-34	12/2/16 1415	S	3'	4	G	X	X	X	-01
EP-35	1424		3'						-02
EP-36	1432		4'						-03
EP-37	1440		5'						-04
EP-38	1455		4'						-05
EP-39	1505		5'						-06
EP-40	1510		6'						-07
DUP-2	1520		6'			X	X	X	-08

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER ____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER ____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER X
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: 3 DAY TAT on Results, 5 DAY TAT for CATB Report. NYSDEC Catagory B data deliverables.

COOLER TEMP. 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Rachael Barr SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Rachael Barr	Print Name: K. Muniz	Print Name:	Print Name:
Signature: [signature]	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 12/2/16	Time: 1645	Date Received: / /	Time:
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EP-34	1602245-01	Soil	12/02/2016 14:15	12/02/2016 16:45
EP-35	1602245-02	Soil	12/02/2016 14:24	12/02/2016 16:45
EP-36	1602245-03	Soil	12/02/2016 14:32	12/02/2016 16:45
EP-37	1602245-04	Soil	12/02/2016 14:40	12/02/2016 16:45
EP-38	1602245-05	Soil	12/02/2016 14:55	12/02/2016 16:45
EP-39	1602245-06	Soil	12/02/2016 15:05	12/02/2016 16:45
EP-40	1602245-07	Soil	12/02/2016 15:10	12/02/2016 16:45
DUP-2	1602245-08	Soil	12/02/2016 15:20	12/02/2016 16:45

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

PEST/PCB

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23708.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:30
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.831	0.831	U
319-85-7	beta-BHC	ND	0.831	0.831	U
319-86-8	delta-BHC	ND	0.831	0.831	U
58-89-9	gamma-BHC [Lindane]	ND	0.831	0.831	U
76-44-8	Heptachlor	ND	0.831	0.831	U
309-00-2	Aldrin	ND	0.831	0.831	U
1024-57-3	Heptachlor Epoxide	ND	0.831	0.831	U
959-98-8	Endosulfan I	ND	0.831	0.831	U
60-57-1	Dieldrin	ND	1.68	1.68	U
72-55-9	4,4'-DDE	ND	1.68	1.68	U
72-20-8	Endrin	ND	1.68	1.68	U
33213-65-9	Endosulfan II	ND	1.68	1.68	U
72-54-8	4,4'-DDD	ND	1.68	1.68	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	U
50-29-3	4,4'-DDT	ND	1.68	1.68	U
72-43-5	Methoxychlor	ND	2.52	8.39	U
53494-70-5	Endrin ketone	ND	1.68	1.68	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	U
5103-71-9	alpha-Chlordane	ND	0.831	0.831	U
5566-34-7	gamma-Chlordane	ND	0.831	0.831	U
8001-35-2	Toxaphene	ND	41.9	41.9	U
12674-11-2	Aroclor-1016	ND	20.9	41.9	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23708.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:30
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.9	41.9	U
11141-16-5	Aroclor-1232	ND	20.9	41.9	U
53469-21-9	Aroclor-1242	ND	20.9	41.9	U
12672-29-6	Aroclor-1248	ND	20.9	41.9	U
11097-69-1	Aroclor-1254	ND	20.9	41.9	U
11096-82-5	Aroclor-1260	ND	20.9	41.9	U
37324-23-5	Aroclor-1262	ND	20.9	41.9	U
11100-14-4	Aroclor-1268	ND	20.9	41.9	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	67.3%	30-150
Tetrachloro-m-xylene [2C]	74.8%	30-150
Decachlorobiphenyl	70.1%	30-150
Decachlorobiphenyl [2C]	99.6%	30-150

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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B	File ID:	A23709.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:59
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.860	0.860	U
319-85-7	beta-BHC	ND	0.860	0.860	U
319-86-8	delta-BHC	ND	0.860	0.860	U
58-89-9	gamma-BHC [Lindane]	ND	0.860	0.860	U
76-44-8	Heptachlor	ND	0.860	0.860	U
309-00-2	Aldrin	ND	0.860	0.860	U
1024-57-3	Heptachlor Epoxide	ND	0.860	0.860	U
959-98-8	Endosulfan I	ND	0.860	0.860	U
60-57-1	Dieldrin	ND	1.73	1.73	U
72-55-9	4,4'-DDE	ND	1.73	1.73	U
72-20-8	Endrin	ND	1.73	1.73	U
33213-65-9	Endosulfan II	ND	1.73	1.73	U
72-54-8	4,4'-DDD	ND	1.73	1.73	U
1031-07-8	Endosulfan sulfate	ND	1.73	1.73	U
50-29-3	4,4'-DDT	ND	1.73	1.73	U
72-43-5	Methoxychlor	ND	2.61	8.68	U
53494-70-5	Endrin ketone	ND	1.73	1.73	U
7421-93-4	Endrin aldehyde	ND	1.73	1.73	U
5103-71-9	alpha-Chlordane	ND	0.860	0.860	U
5566-34-7	gamma-Chlordane	ND	0.860	0.860	U
8001-35-2	Toxaphene	ND	43.4	43.4	U
12674-11-2	Aroclor-1016	ND	21.6	43.4	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B	File ID:	A23709.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 19:59
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	21.6	43.4	U
11141-16-5	Aroclor-1232	ND	21.6	43.4	U
53469-21-9	Aroclor-1242	ND	21.6	43.4	U
12672-29-6	Aroclor-1248	ND	21.6	43.4	U
11097-69-1	Aroclor-1254	ND	21.6	43.4	U
11096-82-5	Aroclor-1260	ND	21.6	43.4	U
37324-23-5	Aroclor-1262	ND	21.6	43.4	U
11100-14-4	Aroclor-1268	ND	21.6	43.4	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	65.2%	30-150
Tetrachloro-m-xylene [2C]	69.3%	30-150
Decachlorobiphenyl	71.5%	30-150
Decachlorobiphenyl [2C]	90.7%	30-150

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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23710.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:28
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.831	0.831	U
319-85-7	beta-BHC	ND	0.831	0.831	U
319-86-8	delta-BHC	ND	0.831	0.831	U
58-89-9	gamma-BHC [Lindane]	ND	0.831	0.831	U
76-44-8	Heptachlor	ND	0.831	0.831	U
309-00-2	Aldrin	ND	0.831	0.831	U
1024-57-3	Heptachlor Epoxide	ND	0.831	0.831	U
959-98-8	Endosulfan I	ND	0.831	0.831	U
60-57-1	Dieldrin	ND	1.68	1.68	U
72-55-9	4,4'-DDE	ND	1.68	1.68	U
72-20-8	Endrin	ND	1.68	1.68	U
33213-65-9	Endosulfan II	ND	1.68	1.68	U
72-54-8	4,4'-DDD	ND	1.68	1.68	U
1031-07-8	Endosulfan sulfate	ND	1.68	1.68	U
50-29-3	4,4'-DDT	ND	1.68	1.68	U
72-43-5	Methoxychlor	ND	2.52	8.39	U
53494-70-5	Endrin ketone	ND	1.68	1.68	U
7421-93-4	Endrin aldehyde	ND	1.68	1.68	U
5103-71-9	alpha-Chlordane	ND	0.831	0.831	U
5566-34-7	gamma-Chlordane	ND	0.831	0.831	U
8001-35-2	Toxaphene	ND	41.9	41.9	U
12674-11-2	Aroclor-1016	ND	20.9	41.9	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B	File ID:	A23710.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:28
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.9	41.9	U
11141-16-5	Aroclor-1232	ND	20.9	41.9	U
53469-21-9	Aroclor-1242	ND	20.9	41.9	U
12672-29-6	Aroclor-1248	ND	20.9	41.9	U
11097-69-1	Aroclor-1254	ND	20.9	41.9	U
11096-82-5	Aroclor-1260	ND	20.9	41.9	U
37324-23-5	Aroclor-1262	ND	20.9	41.9	U
11100-14-4	Aroclor-1268	ND	20.9	41.9	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	61.7%	30-150
Tetrachloro-m-xylene [2C]	69.5%	30-150
Decachlorobiphenyl	67.0%	30-150
Decachlorobiphenyl [2C]	92.0%	30-150

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D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
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RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B	File ID:	A23711.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:58
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.825	0.825	U
319-85-7	beta-BHC	ND	0.825	0.825	U
319-86-8	delta-BHC	ND	0.825	0.825	U
58-89-9	gamma-BHC [Lindane]	ND	0.825	0.825	U
76-44-8	Heptachlor	ND	0.825	0.825	U
309-00-2	Aldrin	ND	0.825	0.825	U
1024-57-3	Heptachlor Epoxide	ND	0.825	0.825	U
959-98-8	Endosulfan I	ND	0.825	0.825	U
60-57-1	Dieldrin	ND	1.66	1.66	U
72-55-9	4,4'-DDE	ND	1.66	1.66	U
72-20-8	Endrin	ND	1.66	1.66	U
33213-65-9	Endosulfan II	ND	1.66	1.66	U
72-54-8	4,4'-DDD	ND	1.66	1.66	U
1031-07-8	Endosulfan sulfate	ND	1.66	1.66	U
50-29-3	4,4'-DDT	ND	1.66	1.66	U
72-43-5	Methoxychlor	ND	2.50	8.32	U
53494-70-5	Endrin ketone	ND	1.66	1.66	U
7421-93-4	Endrin aldehyde	ND	1.66	1.66	U
5103-71-9	alpha-Chlordane	ND	0.825	0.825	U
5566-34-7	gamma-Chlordane	ND	0.825	0.825	U
8001-35-2	Toxaphene	ND	41.6	41.6	U
12674-11-2	Aroclor-1016	ND	20.8	41.6	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B	File ID:	A23711.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 20:58
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.8	41.6	U
11141-16-5	Aroclor-1232	ND	20.8	41.6	U
53469-21-9	Aroclor-1242	ND	20.8	41.6	U
12672-29-6	Aroclor-1248	ND	20.8	41.6	U
11097-69-1	Aroclor-1254	ND	20.8	41.6	U
11096-82-5	Aroclor-1260	ND	20.8	41.6	U
37324-23-5	Aroclor-1262	ND	20.8	41.6	U
11100-14-4	Aroclor-1268	ND	20.8	41.6	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	63.5%	30-150
Tetrachloro-m-xylene [2C]	71.6%	30-150
Decachlorobiphenyl	69.5%	30-150
Decachlorobiphenyl [2C]	90.8%	30-150

* Values outside of QC limits
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U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
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RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B	File ID:	A23712.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:27
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.793	0.793	U
319-85-7	beta-BHC	ND	0.793	0.793	U
319-86-8	delta-BHC	ND	0.793	0.793	U
58-89-9	gamma-BHC [Lindane]	ND	0.793	0.793	U
76-44-8	Heptachlor	ND	0.793	0.793	U
309-00-2	Aldrin	ND	0.793	0.793	U
1024-57-3	Heptachlor Epoxide	ND	0.793	0.793	U
959-98-8	Endosulfan I	ND	0.793	0.793	U
60-57-1	Dieldrin	ND	1.60	1.60	U
72-55-9	4,4'-DDE	ND	1.60	1.60	U
72-20-8	Endrin	ND	1.60	1.60	U
33213-65-9	Endosulfan II	ND	1.60	1.60	U
72-54-8	4,4'-DDD	ND	1.60	1.60	U
1031-07-8	Endosulfan sulfate	ND	1.60	1.60	U
50-29-3	4,4'-DDT	ND	1.60	1.60	U
72-43-5	Methoxychlor	ND	2.40	8.00	U
53494-70-5	Endrin ketone	ND	1.60	1.60	U
7421-93-4	Endrin aldehyde	ND	1.60	1.60	U
5103-71-9	alpha-Chlordane	ND	0.793	0.793	U
5566-34-7	gamma-Chlordane	ND	0.793	0.793	U
8001-35-2	Toxaphene	ND	40.0	40.0	U
12674-11-2	Aroclor-1016	ND	20.0	40.0	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B	File ID:	A23712.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:27
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.0	40.0	U
11141-16-5	Aroclor-1232	ND	20.0	40.0	U
53469-21-9	Aroclor-1242	ND	20.0	40.0	U
12672-29-6	Aroclor-1248	ND	20.0	40.0	U
11097-69-1	Aroclor-1254	ND	20.0	40.0	U
11096-82-5	Aroclor-1260	ND	20.0	40.0	U
37324-23-5	Aroclor-1262	ND	20.0	40.0	U
11100-14-4	Aroclor-1268	ND	20.0	40.0	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	76.7%	30-150
Tetrachloro-m-xylene [2C]	91.1%	30-150
Decachlorobiphenyl	83.5%	30-150
Decachlorobiphenyl [2C]	84.7%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B	File ID:	A23713.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:56
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.806	0.806	U
319-85-7	beta-BHC	ND	0.806	0.806	U
319-86-8	delta-BHC	ND	0.806	0.806	U
58-89-9	gamma-BHC [Lindane]	ND	0.806	0.806	U
76-44-8	Heptachlor	ND	0.806	0.806	U
309-00-2	Aldrin	ND	0.806	0.806	U
1024-57-3	Heptachlor Epoxide	ND	0.806	0.806	U
959-98-8	Endosulfan I	ND	0.806	0.806	U
60-57-1	Dieldrin	ND	1.62	1.62	U
72-55-9	4,4'-DDE	ND	1.62	1.62	U
72-20-8	Endrin	ND	1.62	1.62	U
33213-65-9	Endosulfan II	ND	1.62	1.62	U
72-54-8	4,4'-DDD	ND	1.62	1.62	U
1031-07-8	Endosulfan sulfate	ND	1.62	1.62	U
50-29-3	4,4'-DDT	ND	1.62	1.62	U
72-43-5	Methoxychlor	ND	2.44	8.13	U
53494-70-5	Endrin ketone	ND	1.62	1.62	U
7421-93-4	Endrin aldehyde	ND	1.62	1.62	U
5103-71-9	alpha-Chlordane	ND	0.806	0.806	U
5566-34-7	gamma-Chlordane	ND	0.806	0.806	U
8001-35-2	Toxaphene	ND	40.7	40.7	U
12674-11-2	Aroclor-1016	ND	20.3	40.7	U

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ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B	File ID:	A23713.D
Prep Batch:	B6L0502	Sequence:	S6L0502	Analyzed:	12/05/16 21:56
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	20.3	40.7	U
11141-16-5	Aroclor-1232	ND	20.3	40.7	U
53469-21-9	Aroclor-1242	ND	20.3	40.7	U
12672-29-6	Aroclor-1248	ND	20.3	40.7	U
11097-69-1	Aroclor-1254	ND	20.3	40.7	U
11096-82-5	Aroclor-1260	ND	20.3	40.7	U
37324-23-5	Aroclor-1262	ND	20.3	40.7	U
11100-14-4	Aroclor-1268	ND	20.3	40.7	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	63.9%	30-150
Tetrachloro-m-xylene [2C]	70.8%	30-150
Decachlorobiphenyl	67.2%	30-150
Decachlorobiphenyl [2C]	76.5%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B	File ID:	A23729.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 16:48
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.758	0.758	U
319-85-7	beta-BHC	ND	0.758	0.758	U
319-86-8	delta-BHC	ND	0.758	0.758	U
58-89-9	gamma-BHC [Lindane]	ND	0.758	0.758	U
76-44-8	Heptachlor	ND	0.758	0.758	U
309-00-2	Aldrin	ND	0.758	0.758	U
1024-57-3	Heptachlor Epoxide	ND	0.758	0.758	U
959-98-8	Endosulfan I	ND	0.758	0.758	U
60-57-1	Dieldrin	ND	1.53	1.53	U
72-55-9	4,4'-DDE	ND	1.53	1.53	U
72-20-8	Endrin	ND	1.53	1.53	U
33213-65-9	Endosulfan II	ND	1.53	1.53	U
72-54-8	4,4'-DDD	ND	1.53	1.53	U
1031-07-8	Endosulfan sulfate	ND	1.53	1.53	U
50-29-3	4,4'-DDT	ND	1.53	1.53	U
72-43-5	Methoxychlor	ND	2.30	7.65	U
53494-70-5	Endrin ketone	ND	1.53	1.53	U
7421-93-4	Endrin aldehyde	ND	1.53	1.53	U
5103-71-9	alpha-Chlordane	ND	0.758	0.758	U
5566-34-7	gamma-Chlordane	ND	0.758	0.758	U
8001-35-2	Toxaphene	ND	38.2	38.2	U
12674-11-2	Aroclor-1016	ND	19.1	38.2	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B	File ID:	A23729.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 16:48
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.1	38.2	U
11141-16-5	Aroclor-1232	ND	19.1	38.2	U
53469-21-9	Aroclor-1242	ND	19.1	38.2	U
12672-29-6	Aroclor-1248	ND	19.1	38.2	U
11097-69-1	Aroclor-1254	ND	19.1	38.2	U
11096-82-5	Aroclor-1260	ND	19.1	38.2	U
37324-23-5	Aroclor-1262	ND	19.1	38.2	U
11100-14-4	Aroclor-1268	ND	19.1	38.2	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	73.8%	30-150
Tetrachloro-m-xylene [2C]	89.3%	30-150
Decachlorobiphenyl	92.3%	30-150
Decachlorobiphenyl [2C]	127%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B	File ID:	A23730.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 17:17
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
319-84-6	alpha-BHC	ND	0.767	0.767	U
319-85-7	beta-BHC	ND	0.767	0.767	U
319-86-8	delta-BHC	ND	0.767	0.767	U
58-89-9	gamma-BHC [Lindane]	ND	0.767	0.767	U
76-44-8	Heptachlor	ND	0.767	0.767	U
309-00-2	Aldrin	ND	0.767	0.767	U
1024-57-3	Heptachlor Epoxide	ND	0.767	0.767	U
959-98-8	Endosulfan I	ND	0.767	0.767	U
60-57-1	Dieldrin	ND	1.54	1.54	U
72-55-9	4,4'-DDE	ND	1.54	1.54	U
72-20-8	Endrin	ND	1.54	1.54	U
33213-65-9	Endosulfan II	ND	1.54	1.54	U
72-54-8	4,4'-DDD	ND	1.54	1.54	U
1031-07-8	Endosulfan sulfate	ND	1.54	1.54	U
50-29-3	4,4'-DDT	ND	1.54	1.54	U
72-43-5	Methoxychlor	ND	2.32	7.74	U
53494-70-5	Endrin ketone	ND	1.54	1.54	U
7421-93-4	Endrin aldehyde	ND	1.54	1.54	U
5103-71-9	alpha-Chlordane	ND	0.767	0.767	U
5566-34-7	gamma-Chlordane	ND	0.767	0.767	U
8001-35-2	Toxaphene	ND	38.7	38.7	U
12674-11-2	Aroclor-1016	ND	19.3	38.7	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8081/8082

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:02	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B	File ID:	A23730.D
Prep Batch:	B6L0502	Sequence:	S6L0611	Analyzed:	12/06/16 17:17
Dilution:	1			Analyst:	JAM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
11104-28-2	Aroclor-1221	ND	19.3	38.7	U
11141-16-5	Aroclor-1232	ND	19.3	38.7	U
53469-21-9	Aroclor-1242	ND	19.3	38.7	U
12672-29-6	Aroclor-1248	ND	19.3	38.7	U
11097-69-1	Aroclor-1254	ND	19.3	38.7	U
11096-82-5	Aroclor-1260	ND	19.3	38.7	U
37324-23-5	Aroclor-1262	ND	19.3	38.7	U
11100-14-4	Aroclor-1268	ND	19.3	38.7	U

Surrogate	% Recovery	Recovery Limits
Tetrachloro-m-xylene	76.6%	30-150
Tetrachloro-m-xylene [2C]	92.5%	30-150
Decachlorobiphenyl	94.1%	30-150
Decachlorobiphenyl [2C]	114%	30-150

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

SEMIVOLATILES

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.9	210	U
108-95-2	Phenol	ND	41.9	210	U
111-44-4	bis(2-chloroethyl)ether	ND	41.9	210	U
95-57-8	2-Chlorophenol	ND	41.9	210	U
541-73-1	1,3-Dichlorobenzene	ND	41.9	210	U
106-46-7	1,4-Dichlorobenzene	ND	41.9	210	U
100-51-6	Benzyl alcohol	ND	41.9	210	U
95-50-1	1,2-Dichlorobenzene	ND	41.9	210	U
95-48-7	2-Methylphenol	ND	41.9	210	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.9	210	U
106-44-5	3 & 4-Methylphenol	ND	41.9	210	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.9	210	U
67-72-1	Hexachloroethane	ND	41.9	210	U
98-95-3	Nitrobenzene	ND	41.9	210	U
78-59-1	Isophorone	ND	41.9	210	U
88-75-5	2-Nitrophenol	ND	41.9	210	U
105-67-9	2,4-Dimethylphenol	ND	41.9	210	U
65-85-0	Benzoic acid	ND	105	419	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.9	210	U
120-83-2	2,4-Dichlorophenol	ND	41.9	210	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.9	210	U
91-20-3	Naphthalene	ND	41.9	210	U
106-47-8	4-Chloroaniline	ND	41.9	210	U
87-68-3	Hexachlorobutadiene	ND	41.9	210	U
59-50-7	4-Chloro-3-methylphenol	ND	41.9	210	U
91-57-6	2-Methylnaphthylene	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	41.9	210	U
88-06-2	2,4,6-Trichlorophenol	ND	41.9	210	U
95-95-4	2,4,5-Trichlorophenol	ND	41.9	210	U
91-58-7	2-Chloronaphthalene	ND	41.9	210	U
88-74-4	2-Nitroaniline	ND	41.9	210	U
131-11-3	Dimethylphthalate	ND	41.9	210	U
208-96-8	Acenaphthylene	ND	41.9	210	U
99-09-2	3-Nitroaniline	ND	41.9	210	U
83-32-9	Acenaphthene	48.4	41.9	210	J
51-28-5	2,4-Dinitrophenol	ND	41.9	419	U
100-02-7	4-Nitrophenol	ND	41.9	210	U
132-64-9	Dibenzofuran	ND	41.9	210	U
606-20-2	2,6-Dinitrotoluene	ND	41.9	210	U
121-14-2	2,4-Dinitrotoluene	ND	41.9	210	U
84-66-2	Diethyl phthalate	ND	41.9	210	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.9	210	U
86-73-7	Fluorene	61.0	41.9	210	J
100-01-6	4-Nitroaniline	ND	41.9	210	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.9	210	U
86-30-6	N-Nitrosodiphenylamine	ND	41.9	210	U
101-55-3	4-Bromophenyl-phenylether	ND	41.9	210	U
118-74-1	Hexachlorobenzene	ND	41.9	210	U
87-86-5	Pentachlorophenol	ND	41.9	210	U
85-01-8	Phenanthrene	666	41.9	210	
120-12-7	Anthracene	133	41.9	210	J
84-74-2	Di-n-butyl phthalate	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4289.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 20:20
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	924	41.9	210	
129-00-0	Pyrene	820	41.9	210	
85-68-7	Butylbenzylphthalate	ND	41.9	210	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	210	U
56-55-3	Benzo[a]anthracene	390	41.9	210	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.9	210	U
218-01-9	Chrysene	403	41.9	210	
117-84-0	Di-n-octyl phthalate	ND	41.9	210	U
205-99-2	Benzo[b]fluoranthene	643	41.9	210	
207-08-9	Benzo[k]fluoranthene	198	41.9	210	J
50-32-8	Benzo[a]pyrene	386	41.9	210	
193-39-5	Indeno(1,2,3-cd)pyrene	83.5	41.9	210	J
53-70-3	Dibenzo(a,h)anthracene	ND	41.9	210	U
191-24-2	Benzo[ghi]perylene	75.9	41.9	210	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	54%	30-130
Phenol-d5	64%	30-130
Nitrobenzene-d5	73%	30-130
2-Fluorobiphenyl	71%	30-130
2,4,6-Tribromophenol	74%	30-130
Terphenyl-d14	89%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	43.4	218	U
108-95-2	Phenol	ND	43.4	218	U
111-44-4	bis(2-chloroethyl)ether	ND	43.4	218	U
95-57-8	2-Chlorophenol	ND	43.4	218	U
541-73-1	1,3-Dichlorobenzene	ND	43.4	218	U
106-46-7	1,4-Dichlorobenzene	ND	43.4	218	U
100-51-6	Benzyl alcohol	ND	43.4	218	U
95-50-1	1,2-Dichlorobenzene	ND	43.4	218	U
95-48-7	2-Methylphenol	ND	43.4	218	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	43.4	218	U
106-44-5	3 & 4-Methylphenol	ND	43.4	218	U
621-64-7	N-Nitroso-di-n-propylamine	ND	43.4	218	U
67-72-1	Hexachloroethane	ND	43.4	218	U
98-95-3	Nitrobenzene	ND	43.4	218	U
78-59-1	Isophorone	ND	43.4	218	U
88-75-5	2-Nitrophenol	ND	43.4	218	U
105-67-9	2,4-Dimethylphenol	ND	43.4	218	U
65-85-0	Benzoic acid	ND	108	434	U
111-91-1	bis(2-chloroethoxy)methane	ND	43.4	218	U
120-83-2	2,4-Dichlorophenol	ND	43.4	218	U
120-82-1	1,2,4-Trichlorobenzene	ND	43.4	218	U
91-20-3	Naphthalene	47.2	43.4	218	J
106-47-8	4-Chloroaniline	ND	43.4	218	U
87-68-3	Hexachlorobutadiene	ND	43.4	218	U
59-50-7	4-Chloro-3-methylphenol	ND	43.4	218	U
91-57-6	2-Methylnaphthylene	ND	43.4	218	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	43.4	218	U
88-06-2	2,4,6-Trichlorophenol	ND	43.4	218	U
95-95-4	2,4,5-Trichlorophenol	ND	43.4	218	U
91-58-7	2-Chloronaphthalene	ND	43.4	218	U
88-74-4	2-Nitroaniline	ND	43.4	218	U
131-11-3	Dimethylphthalate	ND	43.4	218	U
208-96-8	Acenaphthylene	ND	43.4	218	U
99-09-2	3-Nitroaniline	ND	43.4	218	U
83-32-9	Acenaphthene	ND	43.4	218	U
51-28-5	2,4-Dinitrophenol	ND	43.4	434	U
100-02-7	4-Nitrophenol	ND	43.4	218	U
132-64-9	Dibenzofuran	ND	43.4	218	U
606-20-2	2,6-Dinitrotoluene	ND	43.4	218	U
121-14-2	2,4-Dinitrotoluene	ND	43.4	218	U
84-66-2	Diethyl phthalate	ND	43.4	218	U
7005-72-3	4-Chlorophenyl-phenylether	ND	43.4	218	U
86-73-7	Fluorene	51.5	43.4	218	J
100-01-6	4-Nitroaniline	ND	43.4	218	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	43.4	218	U
86-30-6	N-Nitrosodiphenylamine	ND	43.4	218	U
101-55-3	4-Bromophenyl-phenylether	ND	43.4	218	U
118-74-1	Hexachlorobenzene	ND	43.4	218	U
87-86-5	Pentachlorophenol	ND	43.4	218	U
85-01-8	Phenanthrene	512	43.4	218	
120-12-7	Anthracene	107	43.4	218	J
84-74-2	Di-n-butyl phthalate	ND	43.4	218	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 3550B GCMS	File ID:	B4283.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:54
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	572	43.4	218	
129-00-0	Pyrene	452	43.4	218	
85-68-7	Butylbenzylphthalate	ND	43.4	218	U
91-94-1	3,3'-Dichlorobenzidine	ND	108	218	U
56-55-3	Benzo[a]anthracene	221	43.4	218	
117-81-7	bis(2-ethylhexyl)phthalate	ND	43.4	218	U
218-01-9	Chrysene	237	43.4	218	
117-84-0	Di-n-octyl phthalate	ND	43.4	218	U
205-99-2	Benzo[b]fluoranthene	263	43.4	218	
207-08-9	Benzo[k]fluoranthene	84.4	43.4	218	J
50-32-8	Benzo[a]pyrene	210	43.4	218	J
193-39-5	Indeno(1,2,3-cd)pyrene	88.4	43.4	218	J
53-70-3	Dibenzo(a,h)anthracene	ND	43.4	218	U
191-24-2	Benzo[ghi]perylene	99.9	43.4	218	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	43%	30-130
Phenol-d5	47%	30-130
Nitrobenzene-d5	52%	30-130
2-Fluorobiphenyl	52%	30-130
2,4,6-Tribromophenol	67%	30-130
Terphenyl-d14	64%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.9	210	U
108-95-2	Phenol	ND	41.9	210	U
111-44-4	bis(2-chloroethyl)ether	ND	41.9	210	U
95-57-8	2-Chlorophenol	ND	41.9	210	U
541-73-1	1,3-Dichlorobenzene	ND	41.9	210	U
106-46-7	1,4-Dichlorobenzene	ND	41.9	210	U
100-51-6	Benzyl alcohol	ND	41.9	210	U
95-50-1	1,2-Dichlorobenzene	ND	41.9	210	U
95-48-7	2-Methylphenol	ND	41.9	210	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.9	210	U
106-44-5	3 & 4-Methylphenol	ND	41.9	210	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.9	210	U
67-72-1	Hexachloroethane	ND	41.9	210	U
98-95-3	Nitrobenzene	ND	41.9	210	U
78-59-1	Isophorone	ND	41.9	210	U
88-75-5	2-Nitrophenol	ND	41.9	210	U
105-67-9	2,4-Dimethylphenol	ND	41.9	210	U
65-85-0	Benzoic acid	ND	105	419	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.9	210	U
120-83-2	2,4-Dichlorophenol	ND	41.9	210	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.9	210	U
91-20-3	Naphthalene	ND	41.9	210	U
106-47-8	4-Chloroaniline	ND	41.9	210	U
87-68-3	Hexachlorobutadiene	ND	41.9	210	U
59-50-7	4-Chloro-3-methylphenol	ND	41.9	210	U
91-57-6	2-Methylnaphthylene	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	41.9	210	U
88-06-2	2,4,6-Trichlorophenol	ND	41.9	210	U
95-95-4	2,4,5-Trichlorophenol	ND	41.9	210	U
91-58-7	2-Chloronaphthalene	ND	41.9	210	U
88-74-4	2-Nitroaniline	ND	41.9	210	U
131-11-3	Dimethylphthalate	ND	41.9	210	U
208-96-8	Acenaphthylene	ND	41.9	210	U
99-09-2	3-Nitroaniline	ND	41.9	210	U
83-32-9	Acenaphthene	85.2	41.9	210	J
51-28-5	2,4-Dinitrophenol	ND	41.9	419	U
100-02-7	4-Nitrophenol	ND	41.9	210	U
132-64-9	Dibenzofuran	55.5	41.9	210	J
606-20-2	2,6-Dinitrotoluene	ND	41.9	210	U
121-14-2	2,4-Dinitrotoluene	ND	41.9	210	U
84-66-2	Diethyl phthalate	ND	41.9	210	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.9	210	U
86-73-7	Fluorene	89.1	41.9	210	J
100-01-6	4-Nitroaniline	ND	41.9	210	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.9	210	U
86-30-6	N-Nitrosodiphenylamine	ND	41.9	210	U
101-55-3	4-Bromophenyl-phenylether	ND	41.9	210	U
118-74-1	Hexachlorobenzene	ND	41.9	210	U
87-86-5	Pentachlorophenol	ND	41.9	210	U
85-01-8	Phenanthrene	965	41.9	210	
120-12-7	Anthracene	192	41.9	210	J
84-74-2	Di-n-butyl phthalate	ND	41.9	210	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 3550B GCMS	File ID:	B4284.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 16:39
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	1030	41.9	210	
129-00-0	Pyrene	811	41.9	210	
85-68-7	Butylbenzylphthalate	ND	41.9	210	U
91-94-1	3,3'-Dichlorobenzidine	ND	105	210	U
56-55-3	Benzo[a]anthracene	406	41.9	210	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.9	210	U
218-01-9	Chrysene	415	41.9	210	
117-84-0	Di-n-octyl phthalate	ND	41.9	210	U
205-99-2	Benzo[b]fluoranthene	453	41.9	210	
207-08-9	Benzo[k]fluoranthene	146	41.9	210	J
50-32-8	Benzo[a]pyrene	348	41.9	210	
193-39-5	Indeno(1,2,3-cd)pyrene	116	41.9	210	J
53-70-3	Dibenzo(a,h)anthracene	ND	41.9	210	U
191-24-2	Benzo[ghi]perylene	118	41.9	210	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	44%	30-130
Phenol-d5	49%	30-130
Nitrobenzene-d5	52%	30-130
2-Fluorobiphenyl	51%	30-130
2,4,6-Tribromophenol	68%	30-130
Terphenyl-d14	61%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	41.6	209	U
108-95-2	Phenol	ND	41.6	209	U
111-44-4	bis(2-chloroethyl)ether	ND	41.6	209	U
95-57-8	2-Chlorophenol	ND	41.6	209	U
541-73-1	1,3-Dichlorobenzene	ND	41.6	209	U
106-46-7	1,4-Dichlorobenzene	ND	41.6	209	U
100-51-6	Benzyl alcohol	ND	41.6	209	U
95-50-1	1,2-Dichlorobenzene	ND	41.6	209	U
95-48-7	2-Methylphenol	ND	41.6	209	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	41.6	209	U
106-44-5	3 & 4-Methylphenol	ND	41.6	209	U
621-64-7	N-Nitroso-di-n-propylamine	ND	41.6	209	U
67-72-1	Hexachloroethane	ND	41.6	209	U
98-95-3	Nitrobenzene	ND	41.6	209	U
78-59-1	Isophorone	ND	41.6	209	U
88-75-5	2-Nitrophenol	ND	41.6	209	U
105-67-9	2,4-Dimethylphenol	ND	41.6	209	U
65-85-0	Benzoic acid	ND	104	416	U
111-91-1	bis(2-chloroethoxy)methane	ND	41.6	209	U
120-83-2	2,4-Dichlorophenol	ND	41.6	209	U
120-82-1	1,2,4-Trichlorobenzene	ND	41.6	209	U
91-20-3	Naphthalene	ND	41.6	209	U
106-47-8	4-Chloroaniline	ND	41.6	209	U
87-68-3	Hexachlorobutadiene	ND	41.6	209	U
59-50-7	4-Chloro-3-methylphenol	ND	41.6	209	U
91-57-6	2-Methylnaphthylene	ND	41.6	209	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	41.6	209	U
88-06-2	2,4,6-Trichlorophenol	ND	41.6	209	U
95-95-4	2,4,5-Trichlorophenol	ND	41.6	209	U
91-58-7	2-Chloronaphthalene	ND	41.6	209	U
88-74-4	2-Nitroaniline	ND	41.6	209	U
131-11-3	Dimethylphthalate	ND	41.6	209	U
208-96-8	Acenaphthylene	ND	41.6	209	U
99-09-2	3-Nitroaniline	ND	41.6	209	U
83-32-9	Acenaphthene	ND	41.6	209	U
51-28-5	2,4-Dinitrophenol	ND	41.6	416	U
100-02-7	4-Nitrophenol	ND	41.6	209	U
132-64-9	Dibenzofuran	ND	41.6	209	U
606-20-2	2,6-Dinitrotoluene	ND	41.6	209	U
121-14-2	2,4-Dinitrotoluene	ND	41.6	209	U
84-66-2	Diethyl phthalate	ND	41.6	209	U
7005-72-3	4-Chlorophenyl-phenylether	ND	41.6	209	U
86-73-7	Fluorene	46.8	41.6	209	J
100-01-6	4-Nitroaniline	ND	41.6	209	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	41.6	209	U
86-30-6	N-Nitrosodiphenylamine	ND	41.6	209	U
101-55-3	4-Bromophenyl-phenylether	ND	41.6	209	U
118-74-1	Hexachlorobenzene	ND	41.6	209	U
87-86-5	Pentachlorophenol	ND	41.6	209	U
85-01-8	Phenanthrene	438	41.6	209	
120-12-7	Anthracene	92.2	41.6	209	J
84-74-2	Di-n-butyl phthalate	ND	41.6	209	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 3550B GCMS	File ID:	B4285.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 17:23
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	530	41.6	209	
129-00-0	Pyrene	407	41.6	209	
85-68-7	Butylbenzylphthalate	ND	41.6	209	U
91-94-1	3,3'-Dichlorobenzidine	ND	104	209	U
56-55-3	Benzo[a]anthracene	209	41.6	209	
117-81-7	bis(2-ethylhexyl)phthalate	ND	41.6	209	U
218-01-9	Chrysene	218	41.6	209	
117-84-0	Di-n-octyl phthalate	ND	41.6	209	U
205-99-2	Benzo[b]fluoranthene	256	41.6	209	
207-08-9	Benzo[k]fluoranthene	85.6	41.6	209	J
50-32-8	Benzo[a]pyrene	202	41.6	209	J
193-39-5	Indeno(1,2,3-cd)pyrene	72.1	41.6	209	J
53-70-3	Dibenzo(a,h)anthracene	ND	41.6	209	U
191-24-2	Benzo[ghi]perylene	70.6	41.6	209	J

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	51%	30-130
Phenol-d5	57%	30-130
Nitrobenzene-d5	60%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	61%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	40.0	201	U
108-95-2	Phenol	ND	40.0	201	U
111-44-4	bis(2-chloroethyl)ether	ND	40.0	201	U
95-57-8	2-Chlorophenol	ND	40.0	201	U
541-73-1	1,3-Dichlorobenzene	ND	40.0	201	U
106-46-7	1,4-Dichlorobenzene	ND	40.0	201	U
100-51-6	Benzyl alcohol	ND	40.0	201	U
95-50-1	1,2-Dichlorobenzene	ND	40.0	201	U
95-48-7	2-Methylphenol	ND	40.0	201	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.0	201	U
106-44-5	3 & 4-Methylphenol	ND	40.0	201	U
621-64-7	N-Nitroso-di-n-propylamine	ND	40.0	201	U
67-72-1	Hexachloroethane	ND	40.0	201	U
98-95-3	Nitrobenzene	ND	40.0	201	U
78-59-1	Isophorone	ND	40.0	201	U
88-75-5	2-Nitrophenol	ND	40.0	201	U
105-67-9	2,4-Dimethylphenol	ND	40.0	201	U
65-85-0	Benzoic acid	ND	99.8	400	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.0	201	U
120-83-2	2,4-Dichlorophenol	ND	40.0	201	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.0	201	U
91-20-3	Naphthalene	ND	40.0	201	U
106-47-8	4-Chloroaniline	ND	40.0	201	U
87-68-3	Hexachlorobutadiene	ND	40.0	201	U
59-50-7	4-Chloro-3-methylphenol	ND	40.0	201	U
91-57-6	2-Methylnaphthylene	ND	40.0	201	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	40.0	201	U
88-06-2	2,4,6-Trichlorophenol	ND	40.0	201	U
95-95-4	2,4,5-Trichlorophenol	ND	40.0	201	U
91-58-7	2-Chloronaphthalene	ND	40.0	201	U
88-74-4	2-Nitroaniline	ND	40.0	201	U
131-11-3	Dimethylphthalate	ND	40.0	201	U
208-96-8	Acenaphthylene	ND	40.0	201	U
99-09-2	3-Nitroaniline	ND	40.0	201	U
83-32-9	Acenaphthene	ND	40.0	201	U
51-28-5	2,4-Dinitrophenol	ND	40.0	400	U
100-02-7	4-Nitrophenol	ND	40.0	201	U
132-64-9	Dibenzofuran	ND	40.0	201	U
606-20-2	2,6-Dinitrotoluene	ND	40.0	201	U
121-14-2	2,4-Dinitrotoluene	ND	40.0	201	U
84-66-2	Diethyl phthalate	ND	40.0	201	U
7005-72-3	4-Chlorophenyl-phenylether	ND	40.0	201	U
86-73-7	Fluorene	ND	40.0	201	U
100-01-6	4-Nitroaniline	ND	40.0	201	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.0	201	U
86-30-6	N-Nitrosodiphenylamine	ND	40.0	201	U
101-55-3	4-Bromophenyl-phenylether	ND	40.0	201	U
118-74-1	Hexachlorobenzene	ND	40.0	201	U
87-86-5	Pentachlorophenol	ND	40.0	201	U
85-01-8	Phenanthrene	ND	40.0	201	U
120-12-7	Anthracene	ND	40.0	201	U
84-74-2	Di-n-butyl phthalate	ND	40.0	201	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 3550B GCMS	File ID:	B4280.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 13:41
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	ND	40.0	201	U
129-00-0	Pyrene	ND	40.0	201	U
85-68-7	Butylbenzylphthalate	ND	40.0	201	U
91-94-1	3,3'-Dichlorobenzidine	ND	99.8	201	U
56-55-3	Benzo[a]anthracene	ND	40.0	201	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	40.0	201	U
218-01-9	Chrysene	ND	40.0	201	U
117-84-0	Di-n-octyl phthalate	ND	40.0	201	U
205-99-2	Benzo[b]fluoranthene	ND	40.0	201	U
207-08-9	Benzo[k]fluoranthene	ND	40.0	201	U
50-32-8	Benzo[a]pyrene	ND	40.0	201	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	40.0	201	U
53-70-3	Dibenzo(a,h)anthracene	ND	40.0	201	U
191-24-2	Benzo[ghi]perylene	ND	40.0	201	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	55%	30-130
Phenol-d5	60%	30-130
Nitrobenzene-d5	64%	30-130
2-Fluorobiphenyl	61%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	70%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	40.7	204	U
108-95-2	Phenol	ND	40.7	204	U
111-44-4	bis(2-chloroethyl)ether	ND	40.7	204	U
95-57-8	2-Chlorophenol	ND	40.7	204	U
541-73-1	1,3-Dichlorobenzene	ND	40.7	204	U
106-46-7	1,4-Dichlorobenzene	ND	40.7	204	U
100-51-6	Benzyl alcohol	ND	40.7	204	U
95-50-1	1,2-Dichlorobenzene	ND	40.7	204	U
95-48-7	2-Methylphenol	90.1	40.7	204	J
39638-32-9	bis(2-chloroisopropyl)ether	ND	40.7	204	U
106-44-5	3 & 4-Methylphenol	222	40.7	204	
621-64-7	N-Nitroso-di-n-propylamine	ND	40.7	204	U
67-72-1	Hexachloroethane	ND	40.7	204	U
98-95-3	Nitrobenzene	ND	40.7	204	U
78-59-1	Isophorone	ND	40.7	204	U
88-75-5	2-Nitrophenol	ND	40.7	204	U
105-67-9	2,4-Dimethylphenol	114	40.7	204	J
65-85-0	Benzoic acid	ND	101	407	U
111-91-1	bis(2-chloroethoxy)methane	ND	40.7	204	U
120-83-2	2,4-Dichlorophenol	ND	40.7	204	U
120-82-1	1,2,4-Trichlorobenzene	ND	40.7	204	U
91-20-3	Naphthalene	11100	40.7	204	E
106-47-8	4-Chloroaniline	ND	40.7	204	U
87-68-3	Hexachlorobutadiene	ND	40.7	204	U
59-50-7	4-Chloro-3-methylphenol	ND	40.7	204	U
91-57-6	2-Methylnaphthylene	4470	40.7	204	

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	40.7	204	U
88-06-2	2,4,6-Trichlorophenol	ND	40.7	204	U
95-95-4	2,4,5-Trichlorophenol	ND	40.7	204	U
91-58-7	2-Chloronaphthalene	ND	40.7	204	U
88-74-4	2-Nitroaniline	ND	40.7	204	U
131-11-3	Dimethylphthalate	ND	40.7	204	U
208-96-8	Acenaphthylene	235	40.7	204	
99-09-2	3-Nitroaniline	ND	40.7	204	U
83-32-9	Acenaphthene	5530	40.7	204	E
51-28-5	2,4-Dinitrophenol	ND	40.7	407	U
100-02-7	4-Nitrophenol	ND	40.7	204	U
132-64-9	Dibenzofuran	6210	40.7	204	E
606-20-2	2,6-Dinitrotoluene	ND	40.7	204	U
121-14-2	2,4-Dinitrotoluene	ND	40.7	204	U
84-66-2	Diethyl phthalate	ND	40.7	204	U
7005-72-3	4-Chlorophenyl-phenylether	ND	40.7	204	U
86-73-7	Fluorene	6940	40.7	204	E
100-01-6	4-Nitroaniline	ND	40.7	204	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	40.7	204	U
86-30-6	N-Nitrosodiphenylamine	ND	40.7	204	U
101-55-3	4-Bromophenyl-phenylether	ND	40.7	204	U
118-74-1	Hexachlorobenzene	ND	40.7	204	U
87-86-5	Pentachlorophenol	ND	40.7	204	U
85-01-8	Phenanthrene	40200	40.7	204	E
120-12-7	Anthracene	9420	40.7	204	E
84-74-2	Di-n-butyl phthalate	ND	40.7	204	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4288.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 19:36
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	36600	40.7	204	E
129-00-0	Pyrene	47300	40.7	204	E
85-68-7	Butylbenzylphthalate	ND	40.7	204	U
91-94-1	3,3'-Dichlorobenzidine	ND	101	204	U
56-55-3	Benzo[a]anthracene	21900	40.7	204	E
117-81-7	bis(2-ethylhexyl)phthalate	ND	40.7	204	U
218-01-9	Chrysene	14400	40.7	204	E
117-84-0	Di-n-octyl phthalate	ND	40.7	204	U
205-99-2	Benzo[b]fluoranthene	30900	40.7	204	E
207-08-9	Benzo[k]fluoranthene	7450	40.7	204	E
50-32-8	Benzo[a]pyrene	15600	40.7	204	E
193-39-5	Indeno(1,2,3-cd)pyrene	3760	40.7	204	
53-70-3	Dibenzo(a,h)anthracene	1360	40.7	204	
191-24-2	Benzo[ghi]perylene	3780	40.7	204	

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	66%		30-130
Phenol-d5	74%		30-130
Nitrobenzene-d5	88%		30-130
2-Fluorobiphenyl	79%		30-130
2,4,6-Tribromophenol	96%		30-130
Terphenyl-d14	206%	*	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06RE1
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	813	4080	U
108-95-2	Phenol	ND	813	4080	U
111-44-4	bis(2-chloroethyl)ether	ND	813	4080	U
95-57-8	2-Chlorophenol	ND	813	4080	U
541-73-1	1,3-Dichlorobenzene	ND	813	4080	U
106-46-7	1,4-Dichlorobenzene	ND	813	4080	U
100-51-6	Benzyl alcohol	ND	813	4080	U
95-50-1	1,2-Dichlorobenzene	ND	813	4080	U
95-48-7	2-Methylphenol	ND	813	4080	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	813	4080	U
106-44-5	3 & 4-Methylphenol	ND	813	4080	U
621-64-7	N-Nitroso-di-n-propylamine	ND	813	4080	U
67-72-1	Hexachloroethane	ND	813	4080	U
98-95-3	Nitrobenzene	ND	813	4080	U
78-59-1	Isophorone	ND	813	4080	U
88-75-5	2-Nitrophenol	ND	813	4080	U
105-67-9	2,4-Dimethylphenol	ND	813	4080	U
65-85-0	Benzoic acid	ND	2030	8130	U
111-91-1	bis(2-chloroethoxy)methane	ND	813	4080	U
120-83-2	2,4-Dichlorophenol	ND	813	4080	U
120-82-1	1,2,4-Trichlorobenzene	ND	813	4080	U
91-20-3	Naphthalene	16600	813	4080	D
106-47-8	4-Chloroaniline	ND	813	4080	U
87-68-3	Hexachlorobutadiene	ND	813	4080	U
59-50-7	4-Chloro-3-methylphenol	ND	813	4080	U
91-57-6	2-Methylnaphthylene	4970	813	4080	D

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06RE1
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	813	4080	U
88-06-2	2,4,6-Trichlorophenol	ND	813	4080	U
95-95-4	2,4,5-Trichlorophenol	ND	813	4080	U
91-58-7	2-Chloronaphthalene	ND	813	4080	U
88-74-4	2-Nitroaniline	ND	813	4080	U
131-11-3	Dimethylphthalate	ND	813	4080	U
208-96-8	Acenaphthylene	ND	813	4080	U
99-09-2	3-Nitroaniline	ND	813	4080	U
83-32-9	Acenaphthene	7080	813	4080	D
51-28-5	2,4-Dinitrophenol	ND	813	8130	U
100-02-7	4-Nitrophenol	ND	813	4080	U
132-64-9	Dibenzofuran	7820	813	4080	D
606-20-2	2,6-Dinitrotoluene	ND	813	4080	U
121-14-2	2,4-Dinitrotoluene	ND	813	4080	U
84-66-2	Diethyl phthalate	ND	813	4080	U
7005-72-3	4-Chlorophenyl-phenylether	ND	813	4080	U
86-73-7	Fluorene	8970	813	4080	D
100-01-6	4-Nitroaniline	ND	813	4080	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	813	4080	U
86-30-6	N-Nitrosodiphenylamine	ND	813	4080	U
101-55-3	4-Bromophenyl-phenylether	ND	813	4080	U
118-74-1	Hexachlorobenzene	ND	813	4080	U
87-86-5	Pentachlorophenol	ND	813	4080	U
85-01-8	Phenanthrene	59100	813	4080	D
120-12-7	Anthracene	11600	813	4080	D
84-74-2	Di-n-butyl phthalate	ND	813	4080	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06RE1
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 3550B GCMS	File ID:	B4305.D
Prep Batch:	B6L0503	Sequence:	S6L0605	Analyzed:	12/06/16 21:11
Dilution:	20			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	41900	813	4080	D
129-00-0	Pyrene	88800	813	4080	D
85-68-7	Butylbenzylphthalate	ND	813	4080	U
91-94-1	3,3'-Dichlorobenzidine	ND	2030	4080	U
56-55-3	Benzo[a]anthracene	19800	813	4080	D
117-81-7	bis(2-ethylhexyl)phthalate	ND	813	4080	U
218-01-9	Chrysene	18900	813	4080	D
117-84-0	Di-n-octyl phthalate	ND	813	4080	U
205-99-2	Benzo[b]fluoranthene	27500	813	4080	D
207-08-9	Benzo[k]fluoranthene	8260	813	4080	D
50-32-8	Benzo[a]pyrene	15700	813	4080	D
193-39-5	Indeno(1,2,3-cd)pyrene	4770	813	4080	D
53-70-3	Dibenzo(a,h)anthracene	ND	813	4080	U
191-24-2	Benzo[ghi]perylene	4660	813	4080	D

Surrogate	% Recovery		Recovery Limits
2-Fluorophenol	73%		30-130
Phenol-d5	82%		30-130
Nitrobenzene-d5	83%		30-130
2-Fluorobiphenyl	86%		30-130
2,4,6-Tribromophenol	78%		30-130
Terphenyl-d14	219%	*	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.2	192	U
108-95-2	Phenol	ND	38.2	192	U
111-44-4	bis(2-chloroethyl)ether	ND	38.2	192	U
95-57-8	2-Chlorophenol	ND	38.2	192	U
541-73-1	1,3-Dichlorobenzene	ND	38.2	192	U
106-46-7	1,4-Dichlorobenzene	ND	38.2	192	U
100-51-6	Benzyl alcohol	ND	38.2	192	U
95-50-1	1,2-Dichlorobenzene	ND	38.2	192	U
95-48-7	2-Methylphenol	ND	38.2	192	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.2	192	U
106-44-5	3 & 4-Methylphenol	ND	38.2	192	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.2	192	U
67-72-1	Hexachloroethane	ND	38.2	192	U
98-95-3	Nitrobenzene	ND	38.2	192	U
78-59-1	Isophorone	ND	38.2	192	U
88-75-5	2-Nitrophenol	ND	38.2	192	U
105-67-9	2,4-Dimethylphenol	ND	38.2	192	U
65-85-0	Benzoic acid	ND	95.3	382	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.2	192	U
120-83-2	2,4-Dichlorophenol	ND	38.2	192	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.2	192	U
91-20-3	Naphthalene	ND	38.2	192	U
106-47-8	4-Chloroaniline	ND	38.2	192	U
87-68-3	Hexachlorobutadiene	ND	38.2	192	U
59-50-7	4-Chloro-3-methylphenol	ND	38.2	192	U
91-57-6	2-Methylnaphthylene	ND	38.2	192	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	38.2	192	U
88-06-2	2,4,6-Trichlorophenol	ND	38.2	192	U
95-95-4	2,4,5-Trichlorophenol	ND	38.2	192	U
91-58-7	2-Chloronaphthalene	ND	38.2	192	U
88-74-4	2-Nitroaniline	ND	38.2	192	U
131-11-3	Dimethylphthalate	ND	38.2	192	U
208-96-8	Acenaphthylene	ND	38.2	192	U
99-09-2	3-Nitroaniline	ND	38.2	192	U
83-32-9	Acenaphthene	ND	38.2	192	U
51-28-5	2,4-Dinitrophenol	ND	38.2	382	U
100-02-7	4-Nitrophenol	ND	38.2	192	U
132-64-9	Dibenzofuran	ND	38.2	192	U
606-20-2	2,6-Dinitrotoluene	ND	38.2	192	U
121-14-2	2,4-Dinitrotoluene	ND	38.2	192	U
84-66-2	Diethyl phthalate	ND	38.2	192	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.2	192	U
86-73-7	Fluorene	ND	38.2	192	U
100-01-6	4-Nitroaniline	ND	38.2	192	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.2	192	U
86-30-6	N-Nitrosodiphenylamine	ND	38.2	192	U
101-55-3	4-Bromophenyl-phenylether	ND	38.2	192	U
118-74-1	Hexachlorobenzene	ND	38.2	192	U
87-86-5	Pentachlorophenol	ND	38.2	192	U
85-01-8	Phenanthrene	ND	38.2	192	U
120-12-7	Anthracene	ND	38.2	192	U
84-74-2	Di-n-butyl phthalate	ND	38.2	192	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 3550B GCMS	File ID:	B4281.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 14:25
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	56.8	38.2	192	J
129-00-0	Pyrene	47.1	38.2	192	J
85-68-7	Butylbenzylphthalate	ND	38.2	192	U
91-94-1	3,3'-Dichlorobenzidine	ND	95.3	192	U
56-55-3	Benzo[a]anthracene	ND	38.2	192	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.2	192	U
218-01-9	Chrysene	ND	38.2	192	U
117-84-0	Di-n-octyl phthalate	ND	38.2	192	U
205-99-2	Benzo[b]fluoranthene	ND	38.2	192	U
207-08-9	Benzo[k]fluoranthene	ND	38.2	192	U
50-32-8	Benzo[a]pyrene	ND	38.2	192	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.2	192	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.2	192	U
191-24-2	Benzo[ghi]perylene	ND	38.2	192	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	52%	30-130
Phenol-d5	56%	30-130
Nitrobenzene-d5	60%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	67%	30-130
Terphenyl-d14	64%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	38.7	194	U
108-95-2	Phenol	ND	38.7	194	U
111-44-4	bis(2-chloroethyl)ether	ND	38.7	194	U
95-57-8	2-Chlorophenol	ND	38.7	194	U
541-73-1	1,3-Dichlorobenzene	ND	38.7	194	U
106-46-7	1,4-Dichlorobenzene	ND	38.7	194	U
100-51-6	Benzyl alcohol	ND	38.7	194	U
95-50-1	1,2-Dichlorobenzene	ND	38.7	194	U
95-48-7	2-Methylphenol	ND	38.7	194	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	38.7	194	U
106-44-5	3 & 4-Methylphenol	ND	38.7	194	U
621-64-7	N-Nitroso-di-n-propylamine	ND	38.7	194	U
67-72-1	Hexachloroethane	ND	38.7	194	U
98-95-3	Nitrobenzene	ND	38.7	194	U
78-59-1	Isophorone	ND	38.7	194	U
88-75-5	2-Nitrophenol	ND	38.7	194	U
105-67-9	2,4-Dimethylphenol	ND	38.7	194	U
65-85-0	Benzoic acid	ND	96.4	387	U
111-91-1	bis(2-chloroethoxy)methane	ND	38.7	194	U
120-83-2	2,4-Dichlorophenol	ND	38.7	194	U
120-82-1	1,2,4-Trichlorobenzene	ND	38.7	194	U
91-20-3	Naphthalene	ND	38.7	194	U
106-47-8	4-Chloroaniline	ND	38.7	194	U
87-68-3	Hexachlorobutadiene	ND	38.7	194	U
59-50-7	4-Chloro-3-methylphenol	ND	38.7	194	U
91-57-6	2-Methylnaphthylene	ND	38.7	194	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
77-47-4	Hexachlorocyclopentadiene	ND	38.7	194	U
88-06-2	2,4,6-Trichlorophenol	ND	38.7	194	U
95-95-4	2,4,5-Trichlorophenol	ND	38.7	194	U
91-58-7	2-Chloronaphthalene	ND	38.7	194	U
88-74-4	2-Nitroaniline	ND	38.7	194	U
131-11-3	Dimethylphthalate	ND	38.7	194	U
208-96-8	Acenaphthylene	ND	38.7	194	U
99-09-2	3-Nitroaniline	ND	38.7	194	U
83-32-9	Acenaphthene	ND	38.7	194	U
51-28-5	2,4-Dinitrophenol	ND	38.7	387	U
100-02-7	4-Nitrophenol	ND	38.7	194	U
132-64-9	Dibenzofuran	ND	38.7	194	U
606-20-2	2,6-Dinitrotoluene	ND	38.7	194	U
121-14-2	2,4-Dinitrotoluene	ND	38.7	194	U
84-66-2	Diethyl phthalate	ND	38.7	194	U
7005-72-3	4-Chlorophenyl-phenylether	ND	38.7	194	U
86-73-7	Fluorene	ND	38.7	194	U
100-01-6	4-Nitroaniline	ND	38.7	194	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	38.7	194	U
86-30-6	N-Nitrosodiphenylamine	ND	38.7	194	U
101-55-3	4-Bromophenyl-phenylether	ND	38.7	194	U
118-74-1	Hexachlorobenzene	ND	38.7	194	U
87-86-5	Pentachlorophenol	ND	38.7	194	U
85-01-8	Phenanthrene	96.4	38.7	194	J
120-12-7	Anthracene	ND	38.7	194	U
84-74-2	Di-n-butyl phthalate	ND	38.7	194	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 08:13	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 3550B GCMS	File ID:	B4282.D
Prep Batch:	B6L0503	Sequence:	S6L0506	Analyzed:	12/05/16 15:10
Dilution:	1			Analyst:	DSM

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
206-44-0	Fluoranthene	143	38.7	194	J
129-00-0	Pyrene	113	38.7	194	J
85-68-7	Butylbenzylphthalate	ND	38.7	194	U
91-94-1	3,3'-Dichlorobenzidine	ND	96.4	194	U
56-55-3	Benzo[a]anthracene	58.3	38.7	194	J
117-81-7	bis(2-ethylhexyl)phthalate	ND	38.7	194	U
218-01-9	Chrysene	61.9	38.7	194	J
117-84-0	Di-n-octyl phthalate	ND	38.7	194	U
205-99-2	Benzo[b]fluoranthene	63.3	38.7	194	J
207-08-9	Benzo[k]fluoranthene	ND	38.7	194	U
50-32-8	Benzo[a]pyrene	53.5	38.7	194	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38.7	194	U
53-70-3	Dibenzo(a,h)anthracene	ND	38.7	194	U
191-24-2	Benzo[ghi]perylene	ND	38.7	194	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	51%	30-130
Phenol-d5	55%	30-130
Nitrobenzene-d5	59%	30-130
2-Fluorobiphenyl	58%	30-130
2,4,6-Tribromophenol	69%	30-130
Terphenyl-d14	64%	30-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.20	12.0	U
107-13-1	Acrylonitrile	ND	2.40	12.0	U
67-64-1	Acetone	7.17	1.20	2.40	
75-71-8	Dichlorodifluoromethane	ND	1.20	2.40	U
74-87-3	Chloromethane	ND	1.20	2.40	U
75-01-4	Vinyl chloride	ND	1.20	2.40	U
74-83-9	Bromomethane	ND	1.20	2.40	U
75-00-3	Chloroethane	ND	1.20	2.40	U
75-69-4	Trichlorofluoromethane	ND	1.20	2.40	U
75-35-4	1,1-Dichloroethene	ND	1.20	2.40	U
75-15-0	Carbon disulfide	ND	1.20	2.40	U
75-09-2	Methylene Chloride	ND	1.20	2.40	U
156-60-5	trans-1,2-Dichloroethene	ND	1.20	2.40	U
75-34-3	1,1-Dichloroethane	ND	1.20	2.40	U
108-05-4	Vinyl acetate	ND	1.20	2.40	U
590-20-7	2,2-Dichloropropane	ND	1.20	2.40	U
78-93-3	2-Butanone	ND	1.20	2.40	U
156-59-4	cis-1,2-Dichloroethene	ND	1.20	2.40	U
67-66-3	Chloroform	ND	1.20	2.40	U
74-97-5	Bromochloromethane	ND	1.20	2.40	U
71-55-6	1,1,1-Trichloroethane	ND	1.20	2.40	U
563-58-6	1,1-Dichloropropene	ND	1.20	2.40	U
56-23-5	Carbon Tetrachloride	ND	1.20	2.40	U
107-06-2	1,2-Dichloroethane	ND	1.20	2.40	U
71-43-2	Benzene	ND	1.20	2.40	U
79-01-6	Trichloroethene	ND	1.20	2.40	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.20	2.40	U
75-27-4	Bromodichloromethane	ND	1.20	2.40	U
74-95-3	Dibromomethane	ND	1.20	2.40	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.20	2.40	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.20	2.40	U
108-88-3	Toluene	ND	1.20	2.40	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.20	2.40	U
79-00-5	1,1,2-Trichloroethane	ND	1.20	2.40	U
108-10-1	4-Methyl-2-pentanone	ND	1.20	2.40	U
106-93-4	1,2-Dibromoethane	ND	1.20	2.40	U
591-78-6	2-Hexanone	ND	1.20	2.40	U
142-28-9	1,3-Dichloropropane	ND	1.20	2.40	U
127-18-4	Tetrachloroethene	ND	1.20	2.40	U
124-48-1	Dibromochloromethane	ND	1.20	2.40	U
100-41-4	Ethylbenzene	ND	1.20	2.40	U
108-90-7	Chlorobenzene	ND	1.20	2.40	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.20	2.40	U
108-38-3/106-42	m,p-Xylenes	ND	2.40	4.80	U
95-47-6	o-Xylene	ND	2.40	4.80	U
100-42-5	Styrene	ND	1.20	4.80	U
75-25-2	Bromoform	ND	1.20	2.40	U
98-82-8	Isopropylbenzene	ND	1.20	2.40	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.20	2.40	U
96-18-4	1,2,3-Trichloropropane	ND	1.20	2.40	U
103-65-1	n-Propyl Benzene	ND	1.20	2.40	U
108-86-1	Bromobenzene	ND	1.20	2.40	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Prep Date:	12/06/16 13:28	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10500.D
Prep Batch:	B6L0614	Sequence:	S6L0607	Analyzed:	12/06/16 13:28
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.20	2.40	U
95-49-8	2-Chlorotoluene	ND	1.20	2.40	U
106-43-4	4-Chlorotoluene	ND	1.20	2.40	U
98-06-6	tert-Butylbenzene	ND	1.20	2.40	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.20	2.40	U
135-98-8	sec-Butylbenzene	ND	1.20	2.40	U
99-87-6	p-Isopropyltoluene	ND	1.20	2.40	U
541-73-1	1,3-Dichlorobenzene	ND	1.20	2.40	U
106-46-7	1,4-Dichlorobenzene	ND	1.20	2.40	U
104-51-8	n-Butyl Benzene	ND	1.20	2.40	U
95-50-1	1,2-Dichlorobenzene	ND	1.20	2.40	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.20	2.40	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.20	2.40	U
87-68-3	Hexachlorobutadiene	ND	1.20	2.40	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.20	2.40	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	110%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	94%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.05	11.7	U
107-13-1	Acrylonitrile	ND	2.35	11.7	U
67-64-1	Acetone	ND	1.17	2.35	U
75-71-8	Dichlorodifluoromethane	ND	1.17	2.35	U
74-87-3	Chloromethane	ND	1.17	2.35	U
75-01-4	Vinyl chloride	ND	1.17	2.35	U
74-83-9	Bromomethane	ND	1.17	2.35	U
75-00-3	Chloroethane	ND	1.17	2.35	U
75-69-4	Trichlorofluoromethane	ND	1.17	2.35	U
75-35-4	1,1-Dichloroethene	ND	1.17	2.35	U
75-15-0	Carbon disulfide	ND	1.17	2.35	U
75-09-2	Methylene Chloride	ND	1.17	2.35	U
156-60-5	trans-1,2-Dichloroethene	ND	1.17	2.35	U
75-34-3	1,1-Dichloroethane	ND	1.17	2.35	U
108-05-4	Vinyl acetate	ND	1.17	2.35	U
590-20-7	2,2-Dichloropropane	ND	1.17	2.35	U
78-93-3	2-Butanone	ND	1.17	2.35	U
156-59-4	cis-1,2-Dichloroethene	ND	1.17	2.35	U
67-66-3	Chloroform	ND	1.17	2.35	U
74-97-5	Bromochloromethane	ND	1.17	2.35	U
71-55-6	1,1,1-Trichloroethane	ND	1.17	2.35	U
563-58-6	1,1-Dichloropropene	ND	1.17	2.35	U
56-23-5	Carbon Tetrachloride	ND	1.17	2.35	U
107-06-2	1,2-Dichloroethane	ND	1.17	2.35	U
71-43-2	Benzene	ND	1.17	2.35	U
79-01-6	Trichloroethene	ND	1.17	2.35	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.17	2.35	U
75-27-4	Bromodichloromethane	ND	1.17	2.35	U
74-95-3	Dibromomethane	ND	1.17	2.35	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.17	2.35	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.17	2.35	U
108-88-3	Toluene	ND	1.17	2.35	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.17	2.35	U
79-00-5	1,1,2-Trichloroethane	ND	1.17	2.35	U
108-10-1	4-Methyl-2-pentanone	ND	1.17	2.35	U
106-93-4	1,2-Dibromoethane	ND	1.17	2.35	U
591-78-6	2-Hexanone	ND	1.17	2.35	U
142-28-9	1,3-Dichloropropane	ND	1.17	2.35	U
127-18-4	Tetrachloroethene	ND	1.17	2.35	U
124-48-1	Dibromochloromethane	ND	1.17	2.35	U
100-41-4	Ethylbenzene	ND	1.17	2.35	U
108-90-7	Chlorobenzene	ND	1.17	2.35	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.17	2.35	U
108-38-3/106-42	m,p-Xylenes	ND	2.35	4.70	U
95-47-6	o-Xylene	ND	2.35	4.70	U
100-42-5	Styrene	ND	1.17	4.70	U
75-25-2	Bromoform	ND	1.17	2.35	U
98-82-8	Isopropylbenzene	ND	1.17	2.35	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.17	2.35	U
96-18-4	1,2,3-Trichloropropane	ND	1.17	2.35	U
103-65-1	n-Propyl Benzene	ND	1.17	2.35	U
108-86-1	Bromobenzene	ND	1.17	2.35	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Prep Date:	12/05/16 18:37	Matrix:	Soil
Percent Solids:	76.70	Prep Method:	EPA 5035A	File ID:	A10481.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 18:37
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.17	2.35	U
95-49-8	2-Chlorotoluene	ND	1.17	2.35	U
106-43-4	4-Chlorotoluene	ND	1.17	2.35	U
98-06-6	tert-Butylbenzene	ND	1.17	2.35	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.17	2.35	U
135-98-8	sec-Butylbenzene	ND	1.17	2.35	U
99-87-6	p-Isopropyltoluene	ND	1.17	2.35	U
541-73-1	1,3-Dichlorobenzene	ND	1.17	2.35	U
106-46-7	1,4-Dichlorobenzene	ND	1.17	2.35	U
104-51-8	n-Butyl Benzene	ND	1.17	2.35	U
95-50-1	1,2-Dichlorobenzene	ND	1.17	2.35	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.17	2.35	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.17	2.35	U
87-68-3	Hexachlorobutadiene	ND	1.17	2.35	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.17	2.35	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	111%	70-130
Toluene-d8	86%	70-130
Bromofluorobenzene	75%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.54	12.6	U
107-13-1	Acrylonitrile	ND	2.51	12.6	U
67-64-1	Acetone	ND	1.26	2.51	U
75-71-8	Dichlorodifluoromethane	ND	1.26	2.51	U
74-87-3	Chloromethane	ND	1.26	2.51	U
75-01-4	Vinyl chloride	ND	1.26	2.51	U
74-83-9	Bromomethane	ND	1.26	2.51	U
75-00-3	Chloroethane	ND	1.26	2.51	U
75-69-4	Trichlorofluoromethane	ND	1.26	2.51	U
75-35-4	1,1-Dichloroethene	ND	1.26	2.51	U
75-15-0	Carbon disulfide	ND	1.26	2.51	U
75-09-2	Methylene Chloride	ND	1.26	2.51	U
156-60-5	trans-1,2-Dichloroethene	ND	1.26	2.51	U
75-34-3	1,1-Dichloroethane	ND	1.26	2.51	U
108-05-4	Vinyl acetate	ND	1.26	2.51	U
590-20-7	2,2-Dichloropropane	ND	1.26	2.51	U
78-93-3	2-Butanone	ND	1.26	2.51	U
156-59-4	cis-1,2-Dichloroethene	ND	1.26	2.51	U
67-66-3	Chloroform	ND	1.26	2.51	U
74-97-5	Bromochloromethane	ND	1.26	2.51	U
71-55-6	1,1,1-Trichloroethane	ND	1.26	2.51	U
563-58-6	1,1-Dichloropropene	ND	1.26	2.51	U
56-23-5	Carbon Tetrachloride	ND	1.26	2.51	U
107-06-2	1,2-Dichloroethane	ND	1.26	2.51	U
71-43-2	Benzene	ND	1.26	2.51	U
79-01-6	Trichloroethene	ND	1.26	2.51	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.26	2.51	U
75-27-4	Bromodichloromethane	ND	1.26	2.51	U
74-95-3	Dibromomethane	ND	1.26	2.51	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.26	2.51	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.26	2.51	U
108-88-3	Toluene	ND	1.26	2.51	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.26	2.51	U
79-00-5	1,1,2-Trichloroethane	ND	1.26	2.51	U
108-10-1	4-Methyl-2-pentanone	ND	1.26	2.51	U
106-93-4	1,2-Dibromoethane	ND	1.26	2.51	U
591-78-6	2-Hexanone	ND	1.26	2.51	U
142-28-9	1,3-Dichloropropane	ND	1.26	2.51	U
127-18-4	Tetrachloroethene	ND	1.26	2.51	U
124-48-1	Dibromochloromethane	ND	1.26	2.51	U
100-41-4	Ethylbenzene	ND	1.26	2.51	U
108-90-7	Chlorobenzene	ND	1.26	2.51	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.26	2.51	U
108-38-3/106-42	m,p-Xylenes	ND	2.51	5.03	U
95-47-6	o-Xylene	ND	2.51	5.03	U
100-42-5	Styrene	ND	1.26	5.03	U
75-25-2	Bromoform	ND	1.26	2.51	U
98-82-8	Isopropylbenzene	ND	1.26	2.51	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.26	2.51	U
96-18-4	1,2,3-Trichloropropane	ND	1.26	2.51	U
103-65-1	n-Propyl Benzene	ND	1.26	2.51	U
108-86-1	Bromobenzene	ND	1.26	2.51	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Prep Date:	12/05/16 19:09	Matrix:	Soil
Percent Solids:	79.40	Prep Method:	EPA 5035A	File ID:	A10482.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:09
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.26	2.51	U
95-49-8	2-Chlorotoluene	ND	1.26	2.51	U
106-43-4	4-Chlorotoluene	ND	1.26	2.51	U
98-06-6	tert-Butylbenzene	ND	1.26	2.51	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.26	2.51	U
135-98-8	sec-Butylbenzene	ND	1.26	2.51	U
99-87-6	p-Isopropyltoluene	ND	1.26	2.51	U
541-73-1	1,3-Dichlorobenzene	ND	1.26	2.51	U
106-46-7	1,4-Dichlorobenzene	ND	1.26	2.51	U
104-51-8	n-Butyl Benzene	ND	1.26	2.51	U
95-50-1	1,2-Dichlorobenzene	ND	1.26	2.51	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.26	2.51	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.26	2.51	U
87-68-3	Hexachlorobutadiene	ND	1.26	2.51	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.26	2.51	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	115%	70-130
Toluene-d8	91%	70-130
Bromofluorobenzene	78%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	7.10	11.8	U
107-13-1	Acrylonitrile	ND	2.37	11.8	U
67-64-1	Acetone	ND	1.18	2.37	U
75-71-8	Dichlorodifluoromethane	ND	1.18	2.37	U
74-87-3	Chloromethane	ND	1.18	2.37	U
75-01-4	Vinyl chloride	ND	1.18	2.37	U
74-83-9	Bromomethane	ND	1.18	2.37	U
75-00-3	Chloroethane	ND	1.18	2.37	U
75-69-4	Trichlorofluoromethane	ND	1.18	2.37	U
75-35-4	1,1-Dichloroethene	ND	1.18	2.37	U
75-15-0	Carbon disulfide	ND	1.18	2.37	U
75-09-2	Methylene Chloride	ND	1.18	2.37	U
156-60-5	trans-1,2-Dichloroethene	ND	1.18	2.37	U
75-34-3	1,1-Dichloroethane	ND	1.18	2.37	U
108-05-4	Vinyl acetate	ND	1.18	2.37	U
590-20-7	2,2-Dichloropropane	ND	1.18	2.37	U
78-93-3	2-Butanone	ND	1.18	2.37	U
156-59-4	cis-1,2-Dichloroethene	ND	1.18	2.37	U
67-66-3	Chloroform	ND	1.18	2.37	U
74-97-5	Bromochloromethane	ND	1.18	2.37	U
71-55-6	1,1,1-Trichloroethane	ND	1.18	2.37	U
563-58-6	1,1-Dichloropropene	ND	1.18	2.37	U
56-23-5	Carbon Tetrachloride	ND	1.18	2.37	U
107-06-2	1,2-Dichloroethane	ND	1.18	2.37	U
71-43-2	Benzene	ND	1.18	2.37	U
79-01-6	Trichloroethene	ND	1.18	2.37	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.18	2.37	U
75-27-4	Bromodichloromethane	ND	1.18	2.37	U
74-95-3	Dibromomethane	ND	1.18	2.37	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.18	2.37	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.18	2.37	U
108-88-3	Toluene	ND	1.18	2.37	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.18	2.37	U
79-00-5	1,1,2-Trichloroethane	ND	1.18	2.37	U
108-10-1	4-Methyl-2-pentanone	ND	1.18	2.37	U
106-93-4	1,2-Dibromoethane	ND	1.18	2.37	U
591-78-6	2-Hexanone	ND	1.18	2.37	U
142-28-9	1,3-Dichloropropane	ND	1.18	2.37	U
127-18-4	Tetrachloroethene	ND	1.18	2.37	U
124-48-1	Dibromochloromethane	ND	1.18	2.37	U
100-41-4	Ethylbenzene	ND	1.18	2.37	U
108-90-7	Chlorobenzene	ND	1.18	2.37	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.18	2.37	U
108-38-3/106-42	m,p-Xylenes	ND	2.37	4.73	U
95-47-6	o-Xylene	ND	2.37	4.73	U
100-42-5	Styrene	ND	1.18	4.73	U
75-25-2	Bromoform	ND	1.18	2.37	U
98-82-8	Isopropylbenzene	ND	1.18	2.37	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.18	2.37	U
96-18-4	1,2,3-Trichloropropane	ND	1.18	2.37	U
103-65-1	n-Propyl Benzene	ND	1.18	2.37	U
108-86-1	Bromobenzene	ND	1.18	2.37	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Prep Date:	12/05/16 19:40	Matrix:	Soil
Percent Solids:	80.00	Prep Method:	EPA 5035A	File ID:	A10483.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 19:40
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.18	2.37	U
95-49-8	2-Chlorotoluene	ND	1.18	2.37	U
106-43-4	4-Chlorotoluene	ND	1.18	2.37	U
98-06-6	tert-Butylbenzene	ND	1.18	2.37	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.18	2.37	U
135-98-8	sec-Butylbenzene	ND	1.18	2.37	U
99-87-6	p-Isopropyltoluene	ND	1.18	2.37	U
541-73-1	1,3-Dichlorobenzene	ND	1.18	2.37	U
106-46-7	1,4-Dichlorobenzene	ND	1.18	2.37	U
104-51-8	n-Butyl Benzene	ND	1.18	2.37	U
95-50-1	1,2-Dichlorobenzene	ND	1.18	2.37	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.18	2.37	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.18	2.37	U
87-68-3	Hexachlorobutadiene	ND	1.18	2.37	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.18	2.37	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	110%	70-130
Toluene-d8	82%	70-130
Bromofluorobenzene	73%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.56	9.27	U
107-13-1	Acrylonitrile	ND	1.85	9.27	U
67-64-1	Acetone	1.85	0.927	1.85	
75-71-8	Dichlorodifluoromethane	ND	0.927	1.85	U
74-87-3	Chloromethane	ND	0.927	1.85	U
75-01-4	Vinyl chloride	ND	0.927	1.85	U
74-83-9	Bromomethane	ND	0.927	1.85	U
75-00-3	Chloroethane	ND	0.927	1.85	U
75-69-4	Trichlorofluoromethane	ND	0.927	1.85	U
75-35-4	1,1-Dichloroethene	ND	0.927	1.85	U
75-15-0	Carbon disulfide	ND	0.927	1.85	U
75-09-2	Methylene Chloride	ND	0.927	1.85	U
156-60-5	trans-1,2-Dichloroethene	ND	0.927	1.85	U
75-34-3	1,1-Dichloroethane	ND	0.927	1.85	U
108-05-4	Vinyl acetate	ND	0.927	1.85	U
590-20-7	2,2-Dichloropropane	ND	0.927	1.85	U
78-93-3	2-Butanone	ND	0.927	1.85	U
156-59-4	cis-1,2-Dichloroethene	ND	0.927	1.85	U
67-66-3	Chloroform	ND	0.927	1.85	U
74-97-5	Bromochloromethane	ND	0.927	1.85	U
71-55-6	1,1,1-Trichloroethane	ND	0.927	1.85	U
563-58-6	1,1-Dichloropropene	ND	0.927	1.85	U
56-23-5	Carbon Tetrachloride	ND	0.927	1.85	U
107-06-2	1,2-Dichloroethane	ND	0.927	1.85	U
71-43-2	Benzene	ND	0.927	1.85	U
79-01-6	Trichloroethene	ND	0.927	1.85	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.927	1.85	U
75-27-4	Bromodichloromethane	ND	0.927	1.85	U
74-95-3	Dibromomethane	ND	0.927	1.85	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.927	1.85	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.927	1.85	U
108-88-3	Toluene	ND	0.927	1.85	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.927	1.85	U
79-00-5	1,1,2-Trichloroethane	ND	0.927	1.85	U
108-10-1	4-Methyl-2-pentanone	ND	0.927	1.85	U
106-93-4	1,2-Dibromoethane	ND	0.927	1.85	U
591-78-6	2-Hexanone	ND	0.927	1.85	U
142-28-9	1,3-Dichloropropane	ND	0.927	1.85	U
127-18-4	Tetrachloroethene	ND	0.927	1.85	U
124-48-1	Dibromochloromethane	ND	0.927	1.85	U
100-41-4	Ethylbenzene	ND	0.927	1.85	U
108-90-7	Chlorobenzene	ND	0.927	1.85	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.927	1.85	U
108-38-3/106-42	m,p-Xylenes	ND	1.85	3.71	U
95-47-6	o-Xylene	ND	1.85	3.71	U
100-42-5	Styrene	ND	0.927	3.71	U
75-25-2	Bromoform	ND	0.927	1.85	U
98-82-8	Isopropylbenzene	ND	0.927	1.85	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.927	1.85	U
96-18-4	1,2,3-Trichloropropane	ND	0.927	1.85	U
103-65-1	n-Propyl Benzene	ND	0.927	1.85	U
108-86-1	Bromobenzene	ND	0.927	1.85	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Prep Date:	12/05/16 20:11	Matrix:	Soil
Percent Solids:	83.20	Prep Method:	EPA 5035A	File ID:	A10484.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 20:11
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.927	1.85	U
95-49-8	2-Chlorotoluene	ND	0.927	1.85	U
106-43-4	4-Chlorotoluene	ND	0.927	1.85	U
98-06-6	tert-Butylbenzene	ND	0.927	1.85	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.927	1.85	U
135-98-8	sec-Butylbenzene	ND	0.927	1.85	U
99-87-6	p-Isopropyltoluene	ND	0.927	1.85	U
541-73-1	1,3-Dichlorobenzene	ND	0.927	1.85	U
106-46-7	1,4-Dichlorobenzene	ND	0.927	1.85	U
104-51-8	n-Butyl Benzene	ND	0.927	1.85	U
95-50-1	1,2-Dichlorobenzene	ND	0.927	1.85	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.927	1.85	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.927	1.85	U
87-68-3	Hexachlorobutadiene	ND	0.927	1.85	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.927	1.85	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	101%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	91%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	6.72	11.2	U
107-13-1	Acrylonitrile	ND	2.24	11.2	U
67-64-1	Acetone	ND	1.12	2.24	U
75-71-8	Dichlorodifluoromethane	ND	1.12	2.24	U
74-87-3	Chloromethane	ND	1.12	2.24	U
75-01-4	Vinyl chloride	ND	1.12	2.24	U
74-83-9	Bromomethane	ND	1.12	2.24	U
75-00-3	Chloroethane	ND	1.12	2.24	U
75-69-4	Trichlorofluoromethane	ND	1.12	2.24	U
75-35-4	1,1-Dichloroethene	ND	1.12	2.24	U
75-15-0	Carbon disulfide	ND	1.12	2.24	U
75-09-2	Methylene Chloride	ND	1.12	2.24	U
156-60-5	trans-1,2-Dichloroethene	ND	1.12	2.24	U
75-34-3	1,1-Dichloroethane	ND	1.12	2.24	U
108-05-4	Vinyl acetate	ND	1.12	2.24	U
590-20-7	2,2-Dichloropropane	ND	1.12	2.24	U
78-93-3	2-Butanone	ND	1.12	2.24	U
156-59-4	cis-1,2-Dichloroethene	ND	1.12	2.24	U
67-66-3	Chloroform	ND	1.12	2.24	U
74-97-5	Bromochloromethane	ND	1.12	2.24	U
71-55-6	1,1,1-Trichloroethane	ND	1.12	2.24	U
563-58-6	1,1-Dichloropropene	ND	1.12	2.24	U
56-23-5	Carbon Tetrachloride	ND	1.12	2.24	U
107-06-2	1,2-Dichloroethane	ND	1.12	2.24	U
71-43-2	Benzene	ND	1.12	2.24	U
79-01-6	Trichloroethene	ND	1.12	2.24	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	1.12	2.24	U
75-27-4	Bromodichloromethane	ND	1.12	2.24	U
74-95-3	Dibromomethane	ND	1.12	2.24	U
110-75-8	2-Chloroethyl vinyl ether	ND	1.12	2.24	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.12	2.24	U
108-88-3	Toluene	ND	1.12	2.24	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.12	2.24	U
79-00-5	1,1,2-Trichloroethane	ND	1.12	2.24	U
108-10-1	4-Methyl-2-pentanone	ND	1.12	2.24	U
106-93-4	1,2-Dibromoethane	ND	1.12	2.24	U
591-78-6	2-Hexanone	ND	1.12	2.24	U
142-28-9	1,3-Dichloropropane	ND	1.12	2.24	U
127-18-4	Tetrachloroethene	ND	1.12	2.24	U
124-48-1	Dibromochloromethane	ND	1.12	2.24	U
100-41-4	Ethylbenzene	ND	1.12	2.24	U
108-90-7	Chlorobenzene	ND	1.12	2.24	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.12	2.24	U
108-38-3/106-42	m,p-Xylenes	ND	2.24	4.48	U
95-47-6	o-Xylene	ND	2.24	4.48	U
100-42-5	Styrene	ND	1.12	4.48	U
75-25-2	Bromoform	ND	1.12	2.24	U
98-82-8	Isopropylbenzene	ND	1.12	2.24	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.12	2.24	U
96-18-4	1,2,3-Trichloropropane	ND	1.12	2.24	U
103-65-1	n-Propyl Benzene	ND	1.12	2.24	U
108-86-1	Bromobenzene	ND	1.12	2.24	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Prep Date:	12/07/16 13:17	Matrix:	Soil
Percent Solids:	81.90	Prep Method:	EPA 5035A	File ID:	A10522.D
Prep Batch:	B6L0715	Sequence:	S6L0708	Analyzed:	12/07/16 13:17
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	1.12	2.24	U
95-49-8	2-Chlorotoluene	ND	1.12	2.24	U
106-43-4	4-Chlorotoluene	ND	1.12	2.24	U
98-06-6	tert-Butylbenzene	ND	1.12	2.24	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.12	2.24	U
135-98-8	sec-Butylbenzene	ND	1.12	2.24	U
99-87-6	p-Isopropyltoluene	ND	1.12	2.24	U
541-73-1	1,3-Dichlorobenzene	ND	1.12	2.24	U
106-46-7	1,4-Dichlorobenzene	ND	1.12	2.24	U
104-51-8	n-Butyl Benzene	ND	1.12	2.24	U
95-50-1	1,2-Dichlorobenzene	ND	1.12	2.24	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.12	2.24	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.12	2.24	U
87-68-3	Hexachlorobutadiene	ND	1.12	2.24	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.12	2.24	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	120%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	87%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.60	9.33	U
107-13-1	Acrylonitrile	ND	1.87	9.33	U
67-64-1	Acetone	6.59	0.933	1.87	
75-71-8	Dichlorodifluoromethane	ND	0.933	1.87	U
74-87-3	Chloromethane	ND	0.933	1.87	U
75-01-4	Vinyl chloride	ND	0.933	1.87	U
74-83-9	Bromomethane	ND	0.933	1.87	U
75-00-3	Chloroethane	ND	0.933	1.87	U
75-69-4	Trichlorofluoromethane	ND	0.933	1.87	U
75-35-4	1,1-Dichloroethene	ND	0.933	1.87	U
75-15-0	Carbon disulfide	ND	0.933	1.87	U
75-09-2	Methylene Chloride	ND	0.933	1.87	U
156-60-5	trans-1,2-Dichloroethene	ND	0.933	1.87	U
75-34-3	1,1-Dichloroethane	ND	0.933	1.87	U
108-05-4	Vinyl acetate	ND	0.933	1.87	U
590-20-7	2,2-Dichloropropane	ND	0.933	1.87	U
78-93-3	2-Butanone	ND	0.933	1.87	U
156-59-4	cis-1,2-Dichloroethene	ND	0.933	1.87	U
67-66-3	Chloroform	ND	0.933	1.87	U
74-97-5	Bromochloromethane	ND	0.933	1.87	U
71-55-6	1,1,1-Trichloroethane	ND	0.933	1.87	U
563-58-6	1,1-Dichloropropene	ND	0.933	1.87	U
56-23-5	Carbon Tetrachloride	ND	0.933	1.87	U
107-06-2	1,2-Dichloroethane	ND	0.933	1.87	U
71-43-2	Benzene	ND	0.933	1.87	U
79-01-6	Trichloroethene	ND	0.933	1.87	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.933	1.87	U
75-27-4	Bromodichloromethane	ND	0.933	1.87	U
74-95-3	Dibromomethane	ND	0.933	1.87	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.933	1.87	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.933	1.87	U
108-88-3	Toluene	ND	0.933	1.87	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.933	1.87	U
79-00-5	1,1,2-Trichloroethane	ND	0.933	1.87	U
108-10-1	4-Methyl-2-pentanone	ND	0.933	1.87	U
106-93-4	1,2-Dibromoethane	ND	0.933	1.87	U
591-78-6	2-Hexanone	ND	0.933	1.87	U
142-28-9	1,3-Dichloropropane	ND	0.933	1.87	U
127-18-4	Tetrachloroethene	ND	0.933	1.87	U
124-48-1	Dibromochloromethane	ND	0.933	1.87	U
100-41-4	Ethylbenzene	ND	0.933	1.87	U
108-90-7	Chlorobenzene	ND	0.933	1.87	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.933	1.87	U
108-38-3/106-42	m,p-Xylenes	ND	1.87	3.73	U
95-47-6	o-Xylene	ND	1.87	3.73	U
100-42-5	Styrene	ND	0.933	3.73	U
75-25-2	Bromoform	ND	0.933	1.87	U
98-82-8	Isopropylbenzene	ND	0.933	1.87	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.933	1.87	U
96-18-4	1,2,3-Trichloropropane	ND	0.933	1.87	U
103-65-1	n-Propyl Benzene	ND	0.933	1.87	U
108-86-1	Bromobenzene	ND	0.933	1.87	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Prep Date:	12/05/16 21:14	Matrix:	Soil
Percent Solids:	87.10	Prep Method:	EPA 5035A	File ID:	A10486.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:14
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.933	1.87	U
95-49-8	2-Chlorotoluene	ND	0.933	1.87	U
106-43-4	4-Chlorotoluene	ND	0.933	1.87	U
98-06-6	tert-Butylbenzene	ND	0.933	1.87	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.933	1.87	U
135-98-8	sec-Butylbenzene	ND	0.933	1.87	U
99-87-6	p-Isopropyltoluene	ND	0.933	1.87	U
541-73-1	1,3-Dichlorobenzene	ND	0.933	1.87	U
106-46-7	1,4-Dichlorobenzene	ND	0.933	1.87	U
104-51-8	n-Butyl Benzene	ND	0.933	1.87	U
95-50-1	1,2-Dichlorobenzene	ND	0.933	1.87	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.933	1.87	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.933	1.87	U
87-68-3	Hexachlorobutadiene	ND	0.933	1.87	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.933	1.87	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	107%	70-130
Toluene-d8	100%	70-130
Bromofluorobenzene	91%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
107-02-8	Acrolein	ND	5.56	9.26	U
107-13-1	Acrylonitrile	ND	1.85	9.26	U
67-64-1	Acetone	18.2	0.926	1.85	
75-71-8	Dichlorodifluoromethane	ND	0.926	1.85	U
74-87-3	Chloromethane	ND	0.926	1.85	U
75-01-4	Vinyl chloride	ND	0.926	1.85	U
74-83-9	Bromomethane	ND	0.926	1.85	U
75-00-3	Chloroethane	ND	0.926	1.85	U
75-69-4	Trichlorofluoromethane	ND	0.926	1.85	U
75-35-4	1,1-Dichloroethene	ND	0.926	1.85	U
75-15-0	Carbon disulfide	ND	0.926	1.85	U
75-09-2	Methylene Chloride	ND	0.926	1.85	U
156-60-5	trans-1,2-Dichloroethene	ND	0.926	1.85	U
75-34-3	1,1-Dichloroethane	ND	0.926	1.85	U
108-05-4	Vinyl acetate	ND	0.926	1.85	U
590-20-7	2,2-Dichloropropane	ND	0.926	1.85	U
78-93-3	2-Butanone	5.22	0.926	1.85	
156-59-4	cis-1,2-Dichloroethene	ND	0.926	1.85	U
67-66-3	Chloroform	ND	0.926	1.85	U
74-97-5	Bromochloromethane	ND	0.926	1.85	U
71-55-6	1,1,1-Trichloroethane	ND	0.926	1.85	U
563-58-6	1,1-Dichloropropene	ND	0.926	1.85	U
56-23-5	Carbon Tetrachloride	ND	0.926	1.85	U
107-06-2	1,2-Dichloroethane	ND	0.926	1.85	U
71-43-2	Benzene	ND	0.926	1.85	U
79-01-6	Trichloroethene	ND	0.926	1.85	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.926	1.85	U
75-27-4	Bromodichloromethane	ND	0.926	1.85	U
74-95-3	Dibromomethane	ND	0.926	1.85	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.926	1.85	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.926	1.85	U
108-88-3	Toluene	ND	0.926	1.85	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.926	1.85	U
79-00-5	1,1,2-Trichloroethane	ND	0.926	1.85	U
108-10-1	4-Methyl-2-pentanone	ND	0.926	1.85	U
106-93-4	1,2-Dibromoethane	ND	0.926	1.85	U
591-78-6	2-Hexanone	ND	0.926	1.85	U
142-28-9	1,3-Dichloropropane	ND	0.926	1.85	U
127-18-4	Tetrachloroethene	ND	0.926	1.85	U
124-48-1	Dibromochloromethane	ND	0.926	1.85	U
100-41-4	Ethylbenzene	ND	0.926	1.85	U
108-90-7	Chlorobenzene	ND	0.926	1.85	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.926	1.85	U
108-38-3/106-42	m,p-Xylenes	ND	1.85	3.70	U
95-47-6	o-Xylene	ND	1.85	3.70	U
100-42-5	Styrene	ND	0.926	3.70	U
75-25-2	Bromoform	ND	0.926	1.85	U
98-82-8	Isopropylbenzene	ND	0.926	1.85	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.926	1.85	U
96-18-4	1,2,3-Trichloropropane	ND	0.926	1.85	U
103-65-1	n-Propyl Benzene	ND	0.926	1.85	U
108-86-1	Bromobenzene	ND	0.926	1.85	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Prep Date:	12/05/16 21:46	Matrix:	Soil
Percent Solids:	86.10	Prep Method:	EPA 5035A	File ID:	A10487.D
Prep Batch:	B6L0515	Sequence:	S6L0509	Analyzed:	12/05/16 21:46
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/kg dry)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.926	1.85	U
95-49-8	2-Chlorotoluene	ND	0.926	1.85	U
106-43-4	4-Chlorotoluene	ND	0.926	1.85	U
98-06-6	tert-Butylbenzene	ND	0.926	1.85	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.926	1.85	U
135-98-8	sec-Butylbenzene	ND	0.926	1.85	U
99-87-6	p-Isopropyltoluene	ND	0.926	1.85	U
541-73-1	1,3-Dichlorobenzene	ND	0.926	1.85	U
106-46-7	1,4-Dichlorobenzene	ND	0.926	1.85	U
104-51-8	n-Butyl Benzene	ND	0.926	1.85	U
95-50-1	1,2-Dichlorobenzene	ND	0.926	1.85	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.926	1.85	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.926	1.85	U
87-68-3	Hexachlorobutadiene	ND	0.926	1.85	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.926	1.85	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	107%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	86%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

METALS

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Matrix:	Soil
Percent Solids:	79.40	File ID:	120616A-019

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10600	18.1	18.1	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-97-6	Mercury	0.215	0.0945	0.0945	1		12/06/16 07:56	EPA 7471A	12/07/16 11:38 PRT	EPA 7471
7440-36-0	Antimony	ND	3.62	3.62	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-38-2	Arsenic	2.28	0.906	0.906	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-39-3	Barium	76.9	18.1	18.1	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-41-7	Beryllium	0.492	0.453	0.453	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-43-9	Cadmium	1.35	0.453	0.453	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-70-2	Calcium	13200	22.7	22.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-47-3	Chromium	21.0	1.81	1.81	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-48-4	Cobalt	9.53	4.53	4.53	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-50-8	Copper	46.1	2.72	2.72	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-89-6	Iron	24100	566	566	25	D	12/05/16 08:56	EPA 3050B	12/06/16 13:51 LIT	EPA 6010
7439-92-1	Lead	169	0.906	0.906	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-95-4	Magnesium	7500	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7439-96-5	Manganese	400	1.81	1.81	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-02-0	Nickel	18.3	3.62	3.62	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-09-7	Potassium	1540	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7782-49-2	Selenium	ND	3.62	3.62	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-22-4	Silver	ND	0.453	0.453	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-23-5	Sodium	275	45.3	45.3	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-28-0	Thallium	ND	1.36	2.72	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010
7440-62-2	Vanadium	30.6	4.53	4.53	1		12/05/16 08:56	EPA 3050B	12/07/16 11:31 LIT	EPA 6010
7440-66-6	Zinc	150	5.44	5.44	1		12/05/16 08:56	EPA 3050B	12/06/16 11:25 LIT	EPA 6010

* Values outside of QC limits
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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Matrix:	Soil
Percent Solids:	76.70	File ID:	120616A-022

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11100	25.5	25.5	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-97-6	Mercury	0.223	0.0978	0.0978	1		12/06/16 07:56	EPA 7471A	12/07/16 11:47 PRT	EPA 7471
7440-36-0	Antimony	ND	5.10	5.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-38-2	Arsenic	2.84	1.27	1.27	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-39-3	Barium	76.7	25.5	25.5	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.637	0.637	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-43-9	Cadmium	1.27	0.637	0.637	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-70-2	Calcium	6920	31.9	31.9	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-47-3	Chromium	20.8	2.55	2.55	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-48-4	Cobalt	9.86	6.37	6.37	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-50-8	Copper	46.0	3.82	3.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-89-6	Iron	27100	797	797	25	D	12/05/16 08:56	EPA 3050B	12/06/16 13:56 LIT	EPA 6010
7439-92-1	Lead	134	1.27	1.27	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-95-4	Magnesium	5830	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7439-96-5	Manganese	411	2.55	2.55	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-02-0	Nickel	18.7	5.10	5.10	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-09-7	Potassium	1490	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7782-49-2	Selenium	ND	2.55	5.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-22-4	Silver	ND	0.637	0.637	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-23-5	Sodium	283	63.7	63.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-28-0	Thallium	ND	1.91	3.82	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010
7440-62-2	Vanadium	30.7	6.37	6.37	1		12/05/16 08:56	EPA 3050B	12/07/16 11:46 LIT	EPA 6010
7440-66-6	Zinc	151	7.65	7.65	1		12/05/16 08:56	EPA 3050B	12/06/16 11:40 LIT	EPA 6010

* Values outside of QC limits
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B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Matrix:	Soil
Percent Solids:	79.40	File ID:	120616A-023

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	12000	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-97-6	Mercury	0.202	0.0945	0.0945	1		12/06/16 07:56	EPA 7471A	12/07/16 11:49 PRT	EPA 7471
7440-36-0	Antimony	ND	4.10	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-38-2	Arsenic	1.73	1.02	1.02	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-39-3	Barium	52.5	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.512	0.512	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-43-9	Cadmium	0.770	0.512	0.512	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-70-2	Calcium	3580	25.6	25.6	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-47-3	Chromium	21.1	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-48-4	Cobalt	8.71	5.12	5.12	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-50-8	Copper	24.8	3.07	3.07	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-89-6	Iron	20600	640	640	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:01 LIT	EPA 6010
7439-92-1	Lead	48.8	1.02	1.02	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-95-4	Magnesium	5090	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7439-96-5	Manganese	389	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-02-0	Nickel	15.7	4.10	4.10	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-09-7	Potassium	1230	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7782-49-2	Selenium	ND	2.05	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-22-4	Silver	ND	0.512	0.512	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-23-5	Sodium	227	51.2	51.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-28-0	Thallium	ND	1.54	3.07	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010
7440-62-2	Vanadium	28.3	5.12	5.12	1		12/05/16 08:56	EPA 3050B	12/07/16 11:51 LIT	EPA 6010
7440-66-6	Zinc	92.3	6.15	6.15	1		12/05/16 08:56	EPA 3050B	12/06/16 11:45 LIT	EPA 6010

* Values outside of QC limits
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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Matrix:	Soil
Percent Solids:	80.00	File ID:	120616A-024

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11200	22.6	22.6	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-97-6	Mercury	0.269	0.0938	0.0938	1		12/06/16 07:56	EPA 7471A	12/07/16 11:51 PRT	EPA 7471
7440-36-0	Antimony	ND	4.51	4.51	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-38-2	Arsenic	2.11	1.13	1.13	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-39-3	Barium	69.9	22.6	22.6	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.564	0.564	1	U	12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-43-9	Cadmium	1.15	0.564	0.564	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-70-2	Calcium	7290	28.2	28.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-47-3	Chromium	21.5	2.26	2.26	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-48-4	Cobalt	9.88	5.64	5.64	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-50-8	Copper	48.3	3.38	3.38	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-89-6	Iron	24900	705	705	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:06 LIT	EPA 6010
7439-92-1	Lead	174	1.13	1.13	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-95-4	Magnesium	6270	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7439-96-5	Manganese	466	2.26	2.26	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-02-0	Nickel	17.6	4.51	4.51	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-09-7	Potassium	1530	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7782-49-2	Selenium	ND	2.26	4.51	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-22-4	Silver	ND	0.564	0.564	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-23-5	Sodium	279	56.4	56.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-28-0	Thallium	ND	1.69	3.38	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010
7440-62-2	Vanadium	29.7	5.64	5.64	1		12/05/16 08:56	EPA 3050B	12/07/16 11:56 LIT	EPA 6010
7440-66-6	Zinc	127	6.77	6.77	1		12/05/16 08:56	EPA 3050B	12/06/16 11:50 LIT	EPA 6010

* Values outside of QC limits
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B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Matrix:	Soil
Percent Solids:	83.20	File ID:	120616A-025

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	11500	18.2	18.2	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0901	0.0901	1	U	12/06/16 07:56	EPA 7471A	12/07/16 11:53 PRT	EPA 7471
7440-36-0	Antimony	ND	3.63	3.63	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-38-2	Arsenic	ND	0.908	0.908	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-39-3	Barium	52.5	18.2	18.2	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-41-7	Beryllium	0.526	0.454	0.454	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-43-9	Cadmium	0.695	0.454	0.454	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-70-2	Calcium	1150	22.7	22.7	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-47-3	Chromium	21.3	1.82	1.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-48-4	Cobalt	10.7	4.54	4.54	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-50-8	Copper	19.8	2.72	2.72	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-89-6	Iron	19800	567	567	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:11 LIT	EPA 6010
7439-92-1	Lead	17.3	0.908	0.908	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-95-4	Magnesium	4790	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7439-96-5	Manganese	360	1.82	1.82	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-02-0	Nickel	17.3	3.63	3.63	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-09-7	Potassium	1760	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7782-49-2	Selenium	ND	3.63	3.63	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-22-4	Silver	ND	0.454	0.454	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-23-5	Sodium	126	45.4	45.4	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-28-0	Thallium	ND	1.36	2.72	1	U	12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010
7440-62-2	Vanadium	33.8	4.54	4.54	1		12/05/16 08:56	EPA 3050B	12/07/16 12:01 LIT	EPA 6010
7440-66-6	Zinc	61.3	5.45	5.45	1		12/05/16 08:56	EPA 3050B	12/06/16 11:55 LIT	EPA 6010

* Values outside of QC limits
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J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Matrix:	Soil
Percent Solids:	81.90	File ID:	120616A-026

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10300	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-97-6	Mercury	0.237	0.0916	0.0916	1		12/06/16 07:56	EPA 7471A	12/07/16 11:55 PRT	EPA 7471
7440-36-0	Antimony	ND	4.65	4.65	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-38-2	Arsenic	2.30	1.16	1.16	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-39-3	Barium	72.2	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.581	0.581	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-43-9	Cadmium	1.06	0.581	0.581	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-70-2	Calcium	6750	29.0	29.0	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-47-3	Chromium	19.8	2.32	2.32	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-48-4	Cobalt	9.73	5.81	5.81	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-50-8	Copper	44.3	3.49	3.49	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-89-6	Iron	23200	726	726	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:17 LIT	EPA 6010
7439-92-1	Lead	162	1.16	1.16	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-95-4	Magnesium	6280	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7439-96-5	Manganese	401	2.32	2.32	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-02-0	Nickel	17.4	4.65	4.65	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-09-7	Potassium	1530	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7782-49-2	Selenium	ND	2.32	4.65	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-22-4	Silver	ND	0.581	0.581	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-23-5	Sodium	239	58.1	58.1	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-28-0	Thallium	ND	1.74	3.49	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010
7440-62-2	Vanadium	29.0	5.81	5.81	1		12/05/16 08:56	EPA 3050B	12/07/16 12:07 LIT	EPA 6010
7440-66-6	Zinc	131	6.97	6.97	1		12/05/16 08:56	EPA 3050B	12/06/16 12:00 LIT	EPA 6010

* Values outside of QC limits
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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Matrix:	Soil
Percent Solids:	87.10	File ID:	120616A-027

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	9890	18.5	18.5	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-97-6	Mercury	ND	0.0861	0.0861	1	U	12/06/16 07:56	EPA 7471A	12/07/16 11:57 PRT	EPA 7471
7440-36-0	Antimony	ND	3.71	3.71	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-38-2	Arsenic	1.56	0.927	0.927	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-39-3	Barium	55.1	18.5	18.5	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.463	0.463	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-43-9	Cadmium	0.913	0.463	0.463	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-70-2	Calcium	3270	23.2	23.2	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-47-3	Chromium	18.4	1.85	1.85	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-48-4	Cobalt	10.2	4.63	4.63	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-50-8	Copper	30.7	2.78	2.78	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-89-6	Iron	21400	579	579	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:22 LIT	EPA 6010
7439-92-1	Lead	63.6	0.927	0.927	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-95-4	Magnesium	5080	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7439-96-5	Manganese	412	1.85	1.85	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-02-0	Nickel	17.2	3.71	3.71	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-09-7	Potassium	1440	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7782-49-2	Selenium	ND	3.71	3.71	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-22-4	Silver	ND	0.463	0.463	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-23-5	Sodium	129	46.3	46.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-28-0	Thallium	ND	1.39	2.78	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010
7440-62-2	Vanadium	25.9	4.63	4.63	1		12/05/16 08:56	EPA 3050B	12/07/16 12:12 LIT	EPA 6010
7440-66-6	Zinc	100	5.56	5.56	1		12/05/16 08:56	EPA 3050B	12/06/16 12:05 LIT	EPA 6010

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Matrix:	Soil
Percent Solids:	86.10	File ID:	120616A-028

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
7429-90-5	Aluminum	10600	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-97-6	Mercury	0.0883	0.0871	0.0871	1		12/06/16 07:56	EPA 7471A	12/07/16 11:59 PRT	EPA 7471
7440-36-0	Antimony	ND	4.10	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-38-2	Arsenic	1.73	1.03	1.03	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-39-3	Barium	42.9	20.5	20.5	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-41-7	Beryllium	ND	0.513	0.513	1	U	12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-43-9	Cadmium	0.554	0.513	0.513	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-70-2	Calcium	1380	25.7	25.7	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-47-3	Chromium	17.5	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-48-4	Cobalt	11.1	5.13	5.13	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-50-8	Copper	18.3	3.08	3.08	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-89-6	Iron	18000	641	641	25	D	12/05/16 08:56	EPA 3050B	12/06/16 14:27 LIT	EPA 6010
7439-92-1	Lead	31.8	1.03	1.03	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-95-4	Magnesium	4270	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7439-96-5	Manganese	227	2.05	2.05	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-02-0	Nickel	16.4	4.10	4.10	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-09-7	Potassium	1110	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7782-49-2	Selenium	ND	2.05	4.10	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-22-4	Silver	ND	0.513	0.513	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-23-5	Sodium	138	51.3	51.3	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-28-0	Thallium	ND	1.54	3.08	1	U	12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010
7440-62-2	Vanadium	22.7	5.13	5.13	1		12/05/16 08:56	EPA 3050B	12/07/16 12:17 LIT	EPA 6010
7440-66-6	Zinc	55.6	6.16	6.16	1		12/05/16 08:56	EPA 3050B	12/06/16 12:10 LIT	EPA 6010

* Values outside of QC limits
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Accredited Analytical Resources, LLC.

WET CHEMISTRY

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-34
Lab Sample ID: 1602245-01
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:15	Matrix:	Soil
Percent Solids:	79.40	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.0	1.44	1.44	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.52	2.52	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.26	1.26	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	79.4	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
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Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-35
Lab Sample ID: 1602245-02
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:24	Matrix:	Soil
Percent Solids:	76.70	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	20.8	1.96	1.96	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.61	2.61	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.30	1.30	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	76.7	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
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MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-36
Lab Sample ID: 1602245-03
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:32	Matrix:	Soil
Percent Solids:	79.40	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.1	1.63	1.63	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.52	2.52	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.26	1.26	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	79.4	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-37
Lab Sample ID: 1602245-04
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:40	Matrix:	Soil
Percent Solids:	80.00	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.5	1.81	1.81	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.50	2.50	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.25	1.25	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	80.0	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

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RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-38
Lab Sample ID: 1602245-05
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 14:55	Matrix:	Soil
Percent Solids:	83.20	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	21.3	1.51	1.51	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.40	2.40	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.20	1.20	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	83.2	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-39
Lab Sample ID: 1602245-06
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:05	Matrix:	Soil
Percent Solids:	81.90	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	19.8	1.90	1.90	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.44	2.44	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.22	1.22	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	81.9	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: EP-40
Lab Sample ID: 1602245-07
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:10	Matrix:	Soil
Percent Solids:	87.10	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	18.4	1.61	1.61	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.30	2.30	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.15	1.15	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	87.1	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Inorganics

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: DUP-2
Lab Sample ID: 1602245-08
Project: 255 East 138th Street
Work Order: 1602245

Date Sampled:	12/02/16 15:20	Matrix:	Soil
Percent Solids:	86.10	File ID:	

CAS NO.	Analyte	Concentration (mg/kg dry)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
16065-83-1	Trivalent Chromium	17.5	1.77	1.77	1		12/05/16 14:34	[CALC]	12/07/16 15:08 NNM	[CALC]
1854-02-99	Chromium, Hexava	ND	2.32	2.32	1	U	12/05/16 14:34	SW 846 3060A	12/07/16 15:08 NNM	EPA 7196A
NA	Cyanide (total)	ND	1.16	1.16	1	U	12/05/16 14:32	EPA 9010C	12/07/16 13:54 NNM	EPA 9014

CAS NO.	Analyte	Concentration (%)	MDL	RL	DF	Q	Prepared	Prep Method	Analyzed By	Method
NA	Percent Solids	86.1	0.100	0.100	1		12/05/16 11:00	Percent Solids	12/07/16 10:03 KMC	SM 2540 G

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

ATTACHMENT XXII

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street

AAR Work Order: 1501458

Client Sample ID:	Lab Sample ID:
TMW-1	1501458-01
TMW-1	1501458-01RE1

This data has been reviewed and accepted by:

Daniel Miguel 09/23/2015
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

This report shall not be reproduced, except in its entirety, without the written consent of Accredited Analytical Resources, LLC.
The test results included in this report relate only to the samples analyzed.

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Case Narrative

Conformance / Non-Conformance Summary

Accredited Analytical Resources, LLC received 1 sample(s) from BRINKERHOFF ENVIRONMENTAL (Project: 255 East 138th Street) on 8/20/2015 1:15:00 PM.

All analyses were performed within the required holding time.

In the Volatile Organic analyses, the MDL level was elevated due to matrix interference. The methylene chloride result reported is due to laboratory contamination.

Except for the parameters tested AAR makes no representation as to the fitness or quality of the sample (s) taken.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analyses.

Daniel Miguel
Technical Director

Methodology Summary

Semivolatile Organic Compounds EPA Method SW846 8270:
NJ 8270C
NY 8270D

Volatile Organic Compounds EPA Method SW846 8260:
NJ 8260B
NY 8260C

Accredited Analytical Resources, LLC.

Internal Chain of Custody

	Out	In
1501458-01 (A)		
Start	8/20/15 13:42 by KMC	8/20/15 13:42 by KMC
Extractions	8/25/15 6:11 by ECS	by ECS
1501458-01 (B)		
Start	8/20/15 13:42 by KMC	8/20/15 13:42 by KMC
Walk-In Storage	8/21/15 11:18 by SG	8/24/15 14:07 by SG
VOA Storage	8/24/15 14:07 by DSM	8/24/15 18:08 by DSM
1501458-01 (C)		
Start	8/20/15 13:42 by KMC	8/20/15 13:42 by KMC
1501458-01RE1 (A)		
Extractions	8/27/15 13:50 by JMM	8/27/15 13:53 by JMM
Extractions	8/27/15 13:53 by JMM	by JMM
1501458-01RE1 (B)		
Walk-In Storage	8/25/15 16:32 by DSM	8/27/15 13:46 by DSM
VOA Storage	8/27/15 13:46 by DSM	by DSM

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1501458**

Received: 8/20/15 13:15

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

CHAIN OF CUSTODY FORM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street
CONTACT:	Doug Harm
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Doug Harm
EMAIL FOR INVOICE:	dharm@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Avenue
CITY:	Manasquan
STATE:	New Jersey ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1591458
P.O. #	10BR188

ANALYSIS

PRES. CODE →
CONT. CODE →

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TCL VOCs	TCL SVOCs	AAR SAMPLE #
TMW-1	8/20/15 09:55	GW	-	3		X	X	-01

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE) (STANDARD) 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL X EDD ____ EXCEL SPREADSHEET ____

COMMENTS: Need NYSDEC CATEGORY B Data Package. Also, please compare results to NYSDEC TOGS Ambient Groundwater Quality Standards COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Sean Harrison SIGN: [signature]

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Sean Harrison	Print Name: M. Urbizondo	Print Name:	Print Name:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR LLC	Agent of:	Agent of:
Date Received: 8 / 20 / 15 Time: 1:15 PM		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / / Tim	

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TMW-1	1501458-01	Ground Water	08/20/2015 09:55	08/20/2015 13:15

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

SEMIVOLATILES

Accredited Analytical Resources, LLC.

SEMIVOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/25/15 06:03	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 3510C GCMS	File ID:	F11527.D
Prep Batch:	B5H2503	Sequence:	S5H2607	Analyzed:	08/26/15 18:20
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	0.515	2.58	U
108-95-2	Phenol	ND	0.515	2.58	U
111-44-4	bis(2-chloroethyl)ether	ND	0.515	2.58	U
95-57-8	2-Chlorophenol	ND	0.515	2.58	U
541-73-1	1,3-Dichlorobenzene	ND	0.515	2.58	U
106-46-7	1,4-Dichlorobenzene	ND	0.515	2.58	U
100-51-6	Benzyl alcohol	ND	0.515	2.58	U
95-50-1	1,2-Dichlorobenzene	ND	0.515	2.58	U
95-48-7	2-Methylphenol	ND	0.515	2.58	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	0.515	2.58	U
106-44-5	3 & 4-Methylphenol	ND	0.515	2.58	U
621-64-7	N-Nitroso-di-n-propylamine	ND	0.515	2.58	U
67-72-1	Hexachloroethane	ND	0.515	2.58	U
98-95-3	Nitrobenzene	ND	0.515	2.58	U
78-59-1	Isophorone	ND	0.515	2.58	U
88-75-5	2-Nitrophenol	ND	0.515	2.58	U
105-67-9	2,4-Dimethylphenol	ND	0.515	2.58	U
65-85-0	Benzoic acid	ND	2.06	5.15	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.515	2.58	U
120-83-2	2,4-Dichlorophenol	ND	0.515	2.58	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.515	2.58	U
91-20-3	Naphthalene	99.8	0.515	2.58	E
106-47-8	4-Chloroaniline	ND	0.515	2.58	U
87-68-3	Hexachlorobutadiene	ND	0.515	2.58	U
59-50-7	4-Chloro-3-methylphenol	ND	0.515	2.58	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/25/15 06:03	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 3510C GCMS	File ID:	F11527.D
Prep Batch:	B5H2503	Sequence:	S5H2607	Analyzed:	08/26/15 18:20
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	54.9	0.515	2.58	
77-47-4	Hexachlorocyclopentadiene	ND	0.515	2.58	U
88-06-2	2,4,6-Trichlorophenol	ND	0.515	2.58	U
95-95-4	2,4,5-Trichlorophenol	ND	0.515	2.58	U
91-58-7	2-Chloronaphthalene	ND	0.515	2.58	U
88-74-4	2-Nitroaniline	ND	0.515	2.58	U
131-11-3	Dimethylphthalate	ND	0.515	2.58	U
208-96-8	Acenaphthylene	ND	0.515	2.58	U
99-09-2	3-Nitroaniline	ND	0.515	2.58	U
83-32-9	Acenaphthene	ND	0.515	2.58	U
51-28-5	2,4-Dinitrophenol	ND	1.03	5.15	U
100-02-7	4-Nitrophenol	ND	0.515	2.58	U
132-64-9	Dibenzofuran	ND	0.515	2.58	U
606-20-2	2,6-Dinitrotoluene	ND	0.515	2.58	U
121-14-2	2,4-Dinitrotoluene	ND	0.515	2.58	U
84-66-2	Diethyl phthalate	ND	0.515	2.58	U
7005-72-3	4-Chlorophenyl-phenylether	ND	0.515	2.58	U
86-73-7	Fluorene	ND	0.515	2.58	U
100-01-6	4-Nitroaniline	ND	0.515	2.58	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.515	2.58	U
86-30-6	N-Nitrosodiphenylamine	ND	0.515	2.58	U
101-55-3	4-Bromophenyl-phenylether	ND	0.515	2.58	U
118-74-1	Hexachlorobenzene	ND	0.515	2.58	U
87-86-5	Pentachlorophenol	ND	0.515	2.58	U
85-01-8	Phenanthrene	0.572	0.103	2.58	J

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/25/15 06:03	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 3510C GCMS	File ID:	F11527.D
Prep Batch:	B5H2503	Sequence:	S5H2607	Analyzed:	08/26/15 18:20
Dilution:	1			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
120-12-7	Anthracene	ND	0.515	2.58	U
84-74-2	Di-n-butyl phthalate	ND	0.515	2.58	U
206-44-0	Fluoranthene	ND	0.515	2.58	U
129-00-0	Pyrene	ND	0.515	2.58	U
85-68-7	Butylbenzylphthalate	ND	0.515	2.58	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.515	2.58	U
56-55-3	Benzo[a]anthracene	ND	0.103	2.58	U
117-81-7	bis(2-ethylhexyl)phthalate	0.629	0.515	2.58	B, J
218-01-9	Chrysene	ND	0.103	2.58	U
117-84-0	Di-n-octyl phthalate	ND	0.515	2.58	U
205-99-2	Benzo[b]fluoranthene	ND	0.206	2.58	U
207-08-9	Benzo[k]fluoranthene	ND	0.515	2.58	U
50-32-8	Benzo[a]pyrene	ND	0.103	2.58	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.515	2.58	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.206	2.58	U
191-24-2	Benzo[ghi]perylene	ND	0.103	2.58	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	34%	15-110
Phenol-d5	25%	15-110
Nitrobenzene-d5	48%	30-130
2-Fluorobiphenyl	55%	30-130
2,4,6-Tribromophenol	84%	15-110
Terphenyl-d14	67%	30-130

Accredited Analytical Resources, LLC.

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Data File : C:\F\DATA15\AUG15\F0826\F11527.D Vial: 7
Acq On : 26 Aug 2015 18:20 Operator: JMM
Sample : 1501458-01 Inst : GC/MS F
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 27 9:09 2015 Quant Results File: SVF80528.RES

Quant Method : C:\F\METHODS\SVF80528.M (RTE Integrator)
Title : SEMI-VOA TCL 8270C CALIBRATION HP5971AF
Last Update : Tue Jul 28 14:11:16 2015
Response via : Initial Calibration
DataAcq Meth : SVF80528

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.50	152	159737	40.00	ul/l	-0.11
21) Naphthalene-d8	13.69	136	684994	40.00	ul/l	-0.14
37) Acenaphthene-d10	18.21	164	332294	40.00	ul/l	-0.18
61) Phenanthrene-d10	21.98	188	620913	40.00	ul/l	-0.20
75) Chrysene-d12	28.82	240	590649	40.00	ul/l	-0.22
84) Perylene-d12	32.23	264	586418	40.00	ul/l	-0.22

System Monitoring Compounds						
4) 2-Fluorophenol	7.56	112	233253	40.59	ul/l	-0.08
Spiked Amount 120.000	Range 21 - 100		Recovery = 33.83%			
7) Phenol-d5	9.95	99	244357	29.98	ul/l	-0.04
Spiked Amount 120.000	Range 10 - 94		Recovery = 24.98%			
22) Nitrobenzene-d5	12.00	82	314281m	47.64	ul/l	-0.09
Spiked Amount 100.000	Range 35 - 114		Recovery = 47.64%			
42) 2-Fluorobiphenyl	16.54	172	666946	54.63	ul/l	-0.18
Spiked Amount 100.000	Range 43 - 116		Recovery = 54.63%			
60) 2,4,6-Tribromophenol	20.27	330	211414	100.69	ul/l	-0.18
Spiked Amount 120.000	Range 10 - 123		Recovery = 83.91%			
78) Terphenyl-d14	26.18	244	808237	67.09	ul/l	-0.17
Spiked Amount 100.000	Range 33 - 141		Recovery = 67.09%			

Target Compounds						Qvalue
31) Naphthalene	13.78	128	3448760	193.52	ul/l	98
36) 2-Methylnaphthalene	15.54	142	1210992	106.53	ul/l	98
71) Phenanthrene	22.02	178	19939	1.11	ul/l	97
82) bis(2-Ethylhexyl)phthalate	29.07	149	21866	1.22	ul/l	92

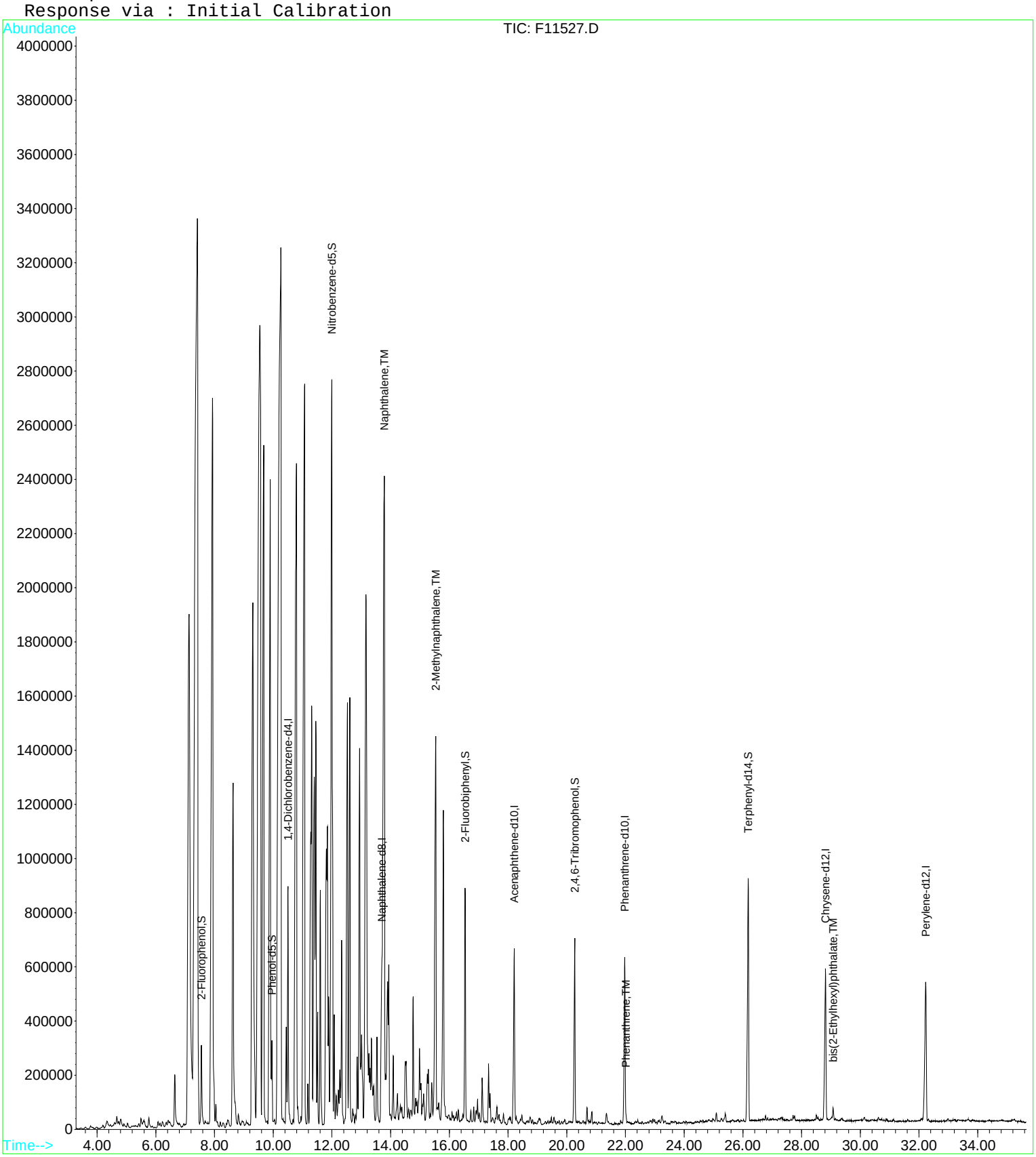
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Table of Contents

Data File : C:\F\DATA15\AUG15\F0826\F11527.D Vial: 7
Acq On : 26 Aug 2015 18:20 Operator: JMM
Sample : 1501458-01 Inst : GC/MS F
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 27 9:09 2015 Quant Results File: SVF80528.RES

Method : C:\F\METHODS\SVF80528.M (RTE Integrator)
Title : SEMI-VOA TCL 8270C CALIBRATION HP5971AF
Last Update : Tue Jul 28 14:11:16 2015
Response via : Initial Calibration



Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01RE1
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/25/15 06:03	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 3510C GCMS	File ID:	F11542.D
Prep Batch:	B5H2503	Sequence:	S5H2708	Analyzed:	08/27/15 16:13
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	2.58	12.9	U
108-95-2	Phenol	ND	2.58	12.9	U
111-44-4	bis(2-chloroethyl)ether	ND	2.58	12.9	U
95-57-8	2-Chlorophenol	ND	2.58	12.9	U
541-73-1	1,3-Dichlorobenzene	ND	2.58	12.9	U
106-46-7	1,4-Dichlorobenzene	ND	2.58	12.9	U
100-51-6	Benzyl alcohol	ND	2.58	12.9	U
95-50-1	1,2-Dichlorobenzene	ND	2.58	12.9	U
95-48-7	2-Methylphenol	ND	2.58	12.9	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	2.58	12.9	U
106-44-5	3 & 4-Methylphenol	ND	2.58	12.9	U
621-64-7	N-Nitroso-di-n-propylamine	ND	2.58	12.9	U
67-72-1	Hexachloroethane	ND	2.58	12.9	U
98-95-3	Nitrobenzene	ND	2.58	12.9	U
78-59-1	Isophorone	ND	2.58	12.9	U
88-75-5	2-Nitrophenol	ND	2.58	12.9	U
105-67-9	2,4-Dimethylphenol	ND	2.58	12.9	U
65-85-0	Benzoic acid	ND	10.3	25.8	U
111-91-1	bis(2-chloroethoxy)methane	ND	2.58	12.9	U
120-83-2	2,4-Dichlorophenol	ND	2.58	12.9	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.58	12.9	U
91-20-3	Naphthalene	117	2.58	12.9	D
106-47-8	4-Chloroaniline	ND	2.58	12.9	U
87-68-3	Hexachlorobutadiene	ND	2.58	12.9	U
59-50-7	4-Chloro-3-methylphenol	ND	2.58	12.9	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01RE1
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/25/15 06:03	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 3510C GCMS	File ID:	F11542.D
Prep Batch:	B5H2503	Sequence:	S5H2708	Analyzed:	08/27/15 16:13
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
91-57-6	2-Methylnaphthylene	62.0	2.58	12.9	D
77-47-4	Hexachlorocyclopentadiene	ND	2.58	12.9	U
88-06-2	2,4,6-Trichlorophenol	ND	2.58	12.9	U
95-95-4	2,4,5-Trichlorophenol	ND	2.58	12.9	U
91-58-7	2-Chloronaphthalene	ND	2.58	12.9	U
88-74-4	2-Nitroaniline	ND	2.58	12.9	U
131-11-3	Dimethylphthalate	ND	2.58	12.9	U
208-96-8	Acenaphthylene	ND	2.58	12.9	U
99-09-2	3-Nitroaniline	ND	2.58	12.9	U
83-32-9	Acenaphthene	ND	2.58	12.9	U
51-28-5	2,4-Dinitrophenol	ND	5.15	25.8	U
100-02-7	4-Nitrophenol	ND	2.58	12.9	U
132-64-9	Dibenzofuran	ND	2.58	12.9	U
606-20-2	2,6-Dinitrotoluene	ND	2.58	12.9	U
121-14-2	2,4-Dinitrotoluene	ND	2.58	12.9	U
84-66-2	Diethyl phthalate	ND	2.58	12.9	U
7005-72-3	4-Chlorophenyl-phenylether	ND	2.58	12.9	U
86-73-7	Fluorene	ND	2.58	12.9	U
100-01-6	4-Nitroaniline	ND	2.58	12.9	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	2.58	12.9	U
86-30-6	N-Nitrosodiphenylamine	ND	2.58	12.9	U
101-55-3	4-Bromophenyl-phenylether	ND	2.58	12.9	U
118-74-1	Hexachlorobenzene	ND	2.58	12.9	U
87-86-5	Pentachlorophenol	ND	2.58	12.9	U
85-01-8	Phenanthrene	ND	0.515	12.9	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01RE1
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/25/15 06:03	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 3510C GCMS	File ID:	F11542.D
Prep Batch:	B5H2503	Sequence:	S5H2708	Analyzed:	08/27/15 16:13
Dilution:	5			Analyst:	JMM

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
120-12-7	Anthracene	ND	2.58	12.9	U
84-74-2	Di-n-butyl phthalate	ND	2.58	12.9	U
206-44-0	Fluoranthene	ND	2.58	12.9	U
129-00-0	Pyrene	ND	2.58	12.9	U
85-68-7	Butylbenzylphthalate	ND	2.58	12.9	U
91-94-1	3,3'-Dichlorobenzidine	ND	2.58	12.9	U
56-55-3	Benzo[a]anthracene	ND	0.515	12.9	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	2.58	12.9	U
218-01-9	Chrysene	ND	0.515	12.9	U
117-84-0	Di-n-octyl phthalate	ND	2.58	12.9	U
205-99-2	Benzo[b]fluoranthene	ND	1.03	12.9	U
207-08-9	Benzo[k]fluoranthene	ND	2.58	12.9	U
50-32-8	Benzo[a]pyrene	ND	0.515	12.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.58	12.9	U
53-70-3	Dibenzo(a,h)anthracene	ND	1.03	12.9	U
191-24-2	Benzo[ghi]perylene	ND	0.515	12.9	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	29%	15-110
Phenol-d5	24%	15-110
Nitrobenzene-d5	54%	30-130
2-Fluorobiphenyl	56%	30-130
2,4,6-Tribromophenol	69%	15-110
Terphenyl-d14	71%	30-130

Accredited Analytical Resources, LLC.

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Data File : C:\F\DATA15\AUG15\F0827\F11542.D Vial: 5
Acq On : 27 Aug 2015 16:13 Operator: JMM
Sample : 1501458-01RE1@5 Inst : GC/MS F
Misc : WATER Multiplr: 5.00
MS Integration Params: rteint.p
Quant Time: Aug 27 16:53 2015 Quant Results File: SVF80528.RES

Quant Method : C:\F\METHODS\SVF80528.M (RTE Integrator)
Title : SEMI-VOA TCL 8270C CALIBRATION HP5971AF
Last Update : Tue Jul 28 14:11:16 2015
Response via : Initial Calibration
DataAcq Meth : SVF80528

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.45	152	157863	40.00	ul/l	-0.16
21) Naphthalene-d8	13.65	136	693911	40.00	ul/l	-0.18
37) Acenaphthene-d10	18.19	164	340890	40.00	ul/l	-0.20
61) Phenanthrene-d10	21.95	188	681741	40.00	ul/l	-0.22
75) Chrysene-d12	28.79	240	637906	40.00	ul/l	-0.24
84) Perylene-d12	32.20	264	647317	40.00	ul/l	-0.24

System Monitoring Compounds						
4) 2-Fluorophenol	7.51	112	39337	6.93	ul/l	-0.13
Spiked Amount 120.000	Range 21 - 100		Recovery = 5.77%#			
7) Phenol-d5	9.86	99	46130	5.73	ul/l	-0.14
Spiked Amount 120.000	Range 10 - 94		Recovery = 4.78%#			
22) Nitrobenzene-d5	11.90	82	72560	10.86	ul/l	-0.19
Spiked Amount 100.000	Range 35 - 114		Recovery = 10.86%#			
42) 2-Fluorobiphenyl	16.50	172	141096	11.27	ul/l	-0.21
Spiked Amount 100.000	Range 43 - 116		Recovery = 11.27%#			
60) 2,4,6-Tribromophenol	20.23	330	35688	16.57	ul/l	-0.23
Spiked Amount 120.000	Range 10 - 123		Recovery = 13.81%			
78) Terphenyl-d14	26.13	244	185434	14.25	ul/l	-0.23
Spiked Amount 100.000	Range 33 - 141		Recovery = 14.25%#			

Target Compounds						Qvalue
31) Naphthalene	13.71	128	816352	45.22	ul/l	99
36) 2-Methylnaphthalene	15.48	142	277016	24.06	ul/l	97

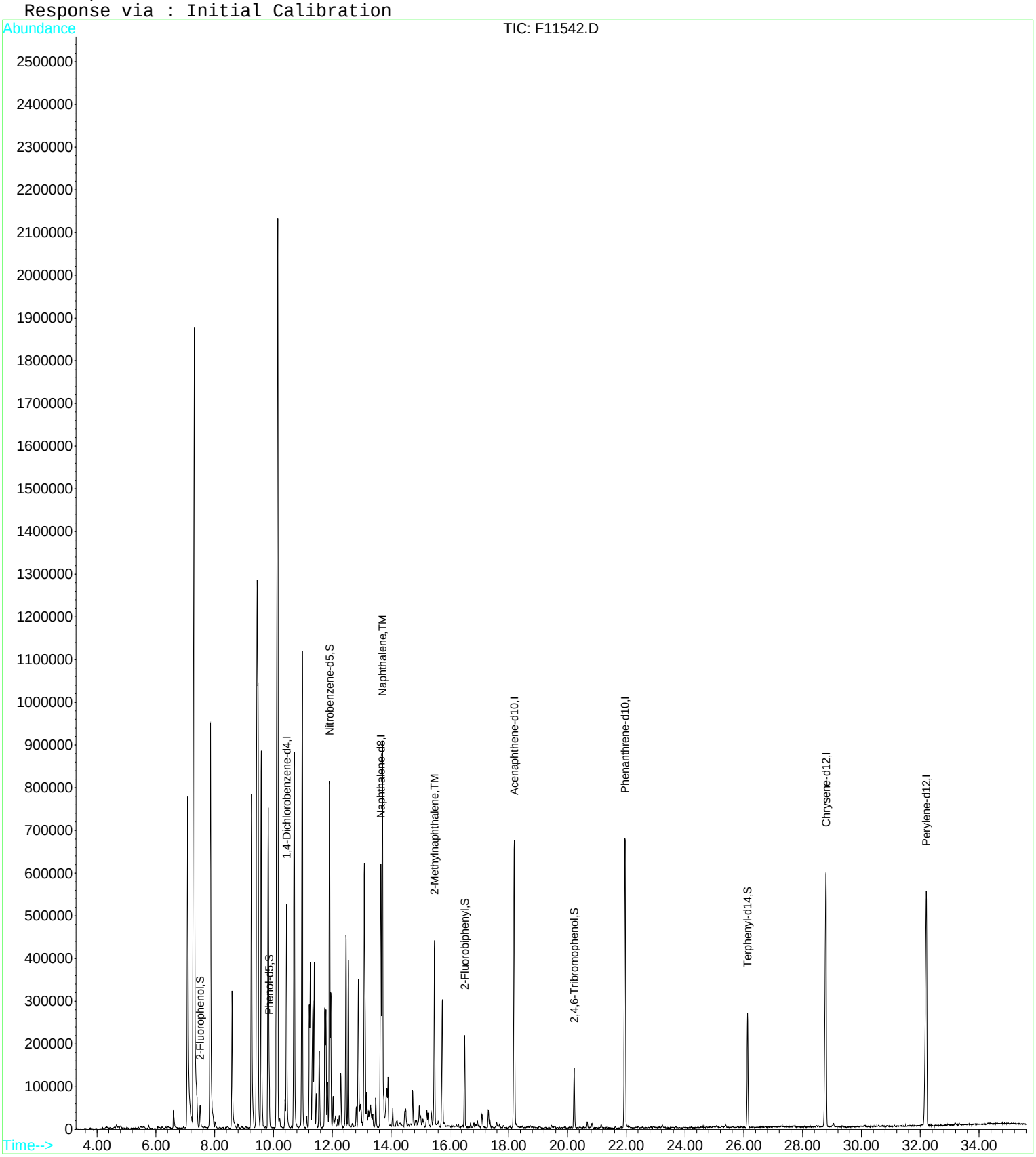
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Table of Contents

Data File : C:\F\DATA15\AUG15\F0827\F11542.D Vial: 5
Acq On : 27 Aug 2015 16:13 Operator: JMM
Sample : 1501458-01RE1@5 Inst : GC/MS F
Misc : WATER Multiplr: 5.00
MS Integration Params: rteint.p
Quant Time: Aug 27 16:53 2015 Quant Results File: SVF80528.RES

Method : C:\F\METHODS\SVF80528.M (RTE Integrator)
Title : SEMI-VOA TCL 8270C CALIBRATION HP5971AF
Last Update : Tue Jul 28 14:11:16 2015
Response via : Initial Calibration



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SEMIVOLATILES QC DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Matrix:	Aqueous	Laboratory ID:	B5H2503-BLK1	File ID:	F11528.D
Batch:	B5H2503	Prepared:	08/25/15 06:03	Analyzed:	08/26/15 19:06
Column:	1	Preparation:	EPA 3510C GCMS	Dilution:	
		Sequence:	S5H2607	Instrument:	GC/MS F

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	ND	0.500	2.50	U
108-95-2	Phenol	ND	0.500	2.50	U
111-44-4	bis(2-chloroethyl)ether	ND	0.500	2.50	U
95-57-8	2-Chlorophenol	ND	0.500	2.50	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	2.50	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	2.50	U
100-51-6	Benzyl alcohol	ND	0.500	2.50	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	2.50	U
95-48-7	2-Methylphenol	ND	0.500	2.50	U
39638-32-9	bis(2-chloroisopropyl)ether	ND	0.500	2.50	U
106-44-5	3 & 4-Methylphenol	ND	0.500	2.50	U
621-64-7	N-Nitroso-di-n-propylamine	ND	0.500	2.50	U
67-72-1	Hexachloroethane	ND	0.500	2.50	U
98-95-3	Nitrobenzene	ND	0.500	2.50	U
78-59-1	Isophorone	ND	0.500	2.50	U
88-75-5	2-Nitrophenol	ND	0.500	2.50	U
105-67-9	2,4-Dimethylphenol	ND	0.500	2.50	U
65-85-0	Benzoic acid	ND	2.00	5.00	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.500	2.50	U
120-83-2	2,4-Dichlorophenol	ND	0.500	2.50	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	2.50	U
91-20-3	Naphthalene	ND	0.500	2.50	U
106-47-8	4-Chloroaniline	ND	0.500	2.50	U
87-68-3	Hexachlorobutadiene	ND	0.500	2.50	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Matrix:	Aqueous	Laboratory ID:	B5H2503-BLK1	File ID:	F11528.D
Batch:	B5H2503	Prepared:	08/25/15 06:03	Analyzed:	08/26/15 19:06
Column:	1	Preparation:	EPA 3510C GCMS	Dilution:	
		Sequence:	S5H2607	Instrument:	GC/MS F

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
59-50-7	4-Chloro-3-methylphenol	ND	0.500	2.50	U
91-57-6	2-Methylnaphthylene	ND	0.500	2.50	U
77-47-4	Hexachlorocyclopentadiene	ND	0.500	2.50	U
88-06-2	2,4,6-Trichlorophenol	ND	0.500	2.50	U
95-95-4	2,4,5-Trichlorophenol	ND	0.500	2.50	U
91-58-7	2-Chloronaphthalene	ND	0.500	2.50	U
88-74-4	2-Nitroaniline	ND	0.500	2.50	U
131-11-3	Dimethylphthalate	ND	0.500	2.50	U
208-96-8	Acenaphthylene	ND	0.500	2.50	U
99-09-2	3-Nitroaniline	ND	0.500	2.50	U
83-32-9	Acenaphthene	ND	0.500	2.50	U
51-28-5	2,4-Dinitrophenol	ND	1.00	5.00	U
100-02-7	4-Nitrophenol	ND	0.500	2.50	U
132-64-9	Dibenzofuran	ND	0.500	2.50	U
606-20-2	2,6-Dinitrotoluene	ND	0.500	2.50	U
121-14-2	2,4-Dinitrotoluene	ND	0.500	2.50	U
84-66-2	Diethyl phthalate	ND	0.500	2.50	U
7005-72-3	4-Chlorophenyl-phenylether	ND	0.500	2.50	U
86-73-7	Fluorene	ND	0.500	2.50	U
100-01-6	4-Nitroaniline	ND	0.500	2.50	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.500	2.50	U
86-30-6	N-Nitrosodiphenylamine	ND	0.500	2.50	U
101-55-3	4-Bromophenyl-phenylether	ND	0.500	2.50	U
118-74-1	Hexachlorobenzene	ND	0.500	2.50	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Matrix:	Aqueous	Laboratory ID:	B5H2503-BLK1	File ID:	F11528.D
Batch:	B5H2503	Prepared:	08/25/15 06:03	Analyzed:	08/26/15 19:06
Column:	1	Preparation:	EPA 3510C GCMS	Dilution:	
		Sequence:	S5H2607	Instrument:	GC/MS F

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
87-86-5	Pentachlorophenol	ND	0.500	2.50	U
85-01-8	Phenanthrene	ND	0.100	2.50	U
120-12-7	Anthracene	ND	0.500	2.50	U
84-74-2	Di-n-butyl phthalate	ND	0.500	2.50	U
206-44-0	Fluoranthene	ND	0.500	2.50	U
129-00-0	Pyrene	ND	0.500	2.50	U
85-68-7	Butylbenzylphthalate	ND	0.500	2.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.500	2.50	U
56-55-3	Benzo[a]anthracene	ND	0.100	2.50	U
117-81-7	bis(2-ethylhexyl)phthalate	2.22	0.500	2.50	J
218-01-9	Chrysene	ND	0.100	2.50	U
117-84-0	Di-n-octyl phthalate	ND	0.500	2.50	U
205-99-2	Benzo[b]fluoranthene	ND	0.200	2.50	U
207-08-9	Benzo[k]fluoranthene	ND	0.500	2.50	U
50-32-8	Benzo[a]pyrene	ND	0.100	2.50	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.500	2.50	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.200	2.50	U
191-24-2	Benzo[ghi]perylene	ND	0.100	2.50	U

Surrogate	% Recovery	Recovery Limits
2-Fluorophenol	45%	15-110
Phenol-d5	48%	15-110
Nitrobenzene-d5	54%	30-130
2-Fluorobiphenyl	47%	30-130
2,4,6-Tribromophenol	69%	15-110
Terphenyl-d14	71%	30-130

Accredited Analytical Resources, LLC.

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Data File : C:\F\DATA15\AUG15\F0826\F11528.D Vial: 8
Acq On : 26 Aug 2015 19:06 Operator: JMM
Sample : B5H2503-BLK1 Inst : GC/MS F
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 27 9:10 2015 Quant Results File: SVF80528.RES

Quant Method : C:\F\METHODS\SVF80528.M (RTE Integrator)
Title : SEMI-VOA TCL 8270C CALIBRATION HP5971AF
Last Update : Tue Jul 28 14:11:16 2015
Response via : Initial Calibration
DataAcq Meth : SVF80528

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.45	152	146144	40.00	ul/l	-0.16
21) Naphthalene-d8	13.66	136	652663	40.00	ul/l	-0.17
37) Acenaphthene-d10	18.20	164	323072	40.00	ul/l	-0.19
61) Phenanthrene-d10	21.97	188	619348	40.00	ul/l	-0.21
75) Chrysene-d12	28.80	240	583005	40.00	ul/l	-0.23
84) Perylene-d12	32.21	264	528703	40.00	ul/l	-0.23

System Monitoring Compounds

4) 2-Fluorophenol	7.54	112	286475	54.49	ul/l	-0.09
Spiked Amount 120.000	Range 21 - 100		Recovery = 45.41%			
7) Phenol-d5	9.88	99	428650	57.48	ul/l	-0.11
Spiked Amount 120.000	Range 10 - 94		Recovery = 47.90%			
22) Nitrobenzene-d5	11.92	82	341106	54.27	ul/l	-0.17
Spiked Amount 100.000	Range 35 - 114		Recovery = 54.27%			
42) 2-Fluorobiphenyl	16.53	172	562575	47.39	ul/l	-0.19
Spiked Amount 100.000	Range 43 - 116		Recovery = 47.39%			
60) 2,4,6-Tribromophenol	20.26	330	170224	83.39	ul/l	-0.19
Spiked Amount 120.000	Range 10 - 123		Recovery = 69.49%			
78) Terphenyl-d14	26.17	244	847389	71.27	ul/l	-0.18
Spiked Amount 100.000	Range 33 - 141		Recovery = 71.27%			

Target Compounds						Qvalue
82) bis(2-Ethylhexyl)phthalate	29.07	149	78468	4.43	ul/l	91

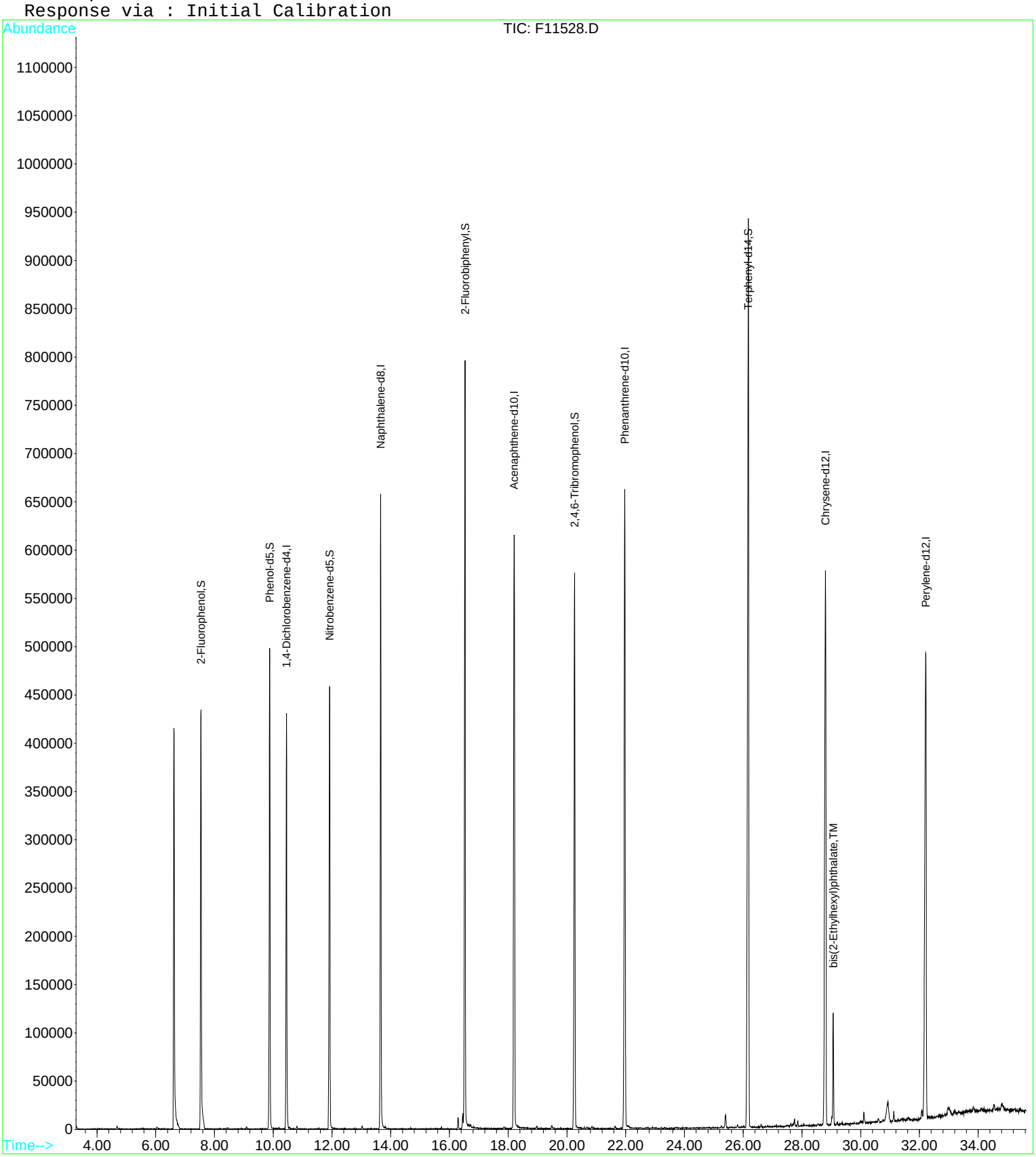
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Table of Contents

Data File : C:\F\DATA15\AUG15\F0826\F11528.D Vial: 8
Acq On : 26 Aug 2015 19:06 Operator: JMM
Sample : B5H2503-BLK1 Inst : GC/MS F
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 27 9:10 2015 Quant Results File: SVF80528.RES

Method : C:\F\METHODS\SVF80528.M (RTE Integrator)
Title : SEMI-VOA TCL 8270C CALIBRATION HP5971AF
Last Update : Tue Jul 28 14:11:16 2015
Response via : Initial Calibration



Accredited Analytical Resources, LLC.

SEMIVOLATILES QC SUMMARY

Accredited Analytical Resources, LLC.

SYSTEM MONITORING COMPOUND SUMMARY

EPA 8270

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street**
Work Order: **1501458**

Matrix: Aqueous
Instrument: GC/MS F

Lab Sample ID:	2FP (15% - 110%)	FBP (30% - 130%)	NBZ (30% - 130%)	PHL (15% - 110%)	TBP (15% - 110%)	TPH (30% - 130%)
1501458-01	34	55	48	25	84	67
1501458-01RE1	29	56	54	24	69	71
B5H2503-BLK1	45	47	54	48	69	71
B5H2503-BS1	61	63	71	61	83	77
B5H2503-BSD1	61	63	73	62	89	83

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Prep Method:	EPA 3510C GCMS
Prep Batch:	B5H2503	Lab Sample ID:	B5H2503-BS1

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Pyridine	25.0	19.2	77	20 - 160
N-Nitrosodimethylamine	25.0	20.9	84	20 - 160
Aniline	25.0	19.1	76	20 - 160
Phenol	25.0	25.4	101	20 - 160
bis(2-chloroethyl)ether	25.0	24.4	98	70 - 130
2-Chlorophenol	25.0	25.2	101	70 - 130
1,3-Dichlorobenzene	25.0	22.6	91	70 - 130
1,4-Dichlorobenzene	25.0	23.1	92	70 - 130
Benzyl alcohol	25.0	27.0	108	20 - 160
1,2-Dichlorobenzene	25.0	23.0	92	70 - 130
2-Methylphenol	25.0	25.2	101	70 - 130
bis(2-chloroisopropyl)ether	25.0	25.0	100	70 - 130
3 & 4-Methylphenol	25.0	26.6	107	20 - 160
N-Nitroso-di-n-propylamine	25.0	25.9	103	70 - 130
Hexachloroethane	25.0	22.9	92	20 - 160
Nitrobenzene	25.0	24.6	98	70 - 130
Isophorone	25.0	23.2	93	70 - 130
2-Nitrophenol	25.0	23.5	94	70 - 130
2,4-Dimethylphenol	25.0	22.8	91	70 - 130
bis(2-chloroethoxy)methane	25.0	23.0	92	70 - 130
2,4-Dichlorophenol	25.0	23.6	95	70 - 130
1,2,4-Trichlorobenzene	25.0	21.6	86	70 - 130
Naphthalene	25.0	23.2	93	70 - 130
4-Chloroaniline	25.0	10.8	43	20 - 160
Hexachlorobutadiene	25.0	21.7	87	70 - 130
4-Chloro-3-methylphenol	25.0	26.0	104	70 - 130
2-Methylnaphthylene	25.0	22.9	92	70 - 130
Hexachlorocyclopentadiene	25.0	14.5	58	20 - 160

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Prep Method:	EPA 3510C GCMS
Prep Batch:	B5H2503	Lab Sample ID:	B5H2503-BS1

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2,4,6-Trichlorophenol	25.0	22.7	91	70 - 130
2,4,5-Trichlorophenol	25.0	22.3	89	70 - 130
2-Chloronaphthalene	25.0	23.9	96	70 - 130
2-Nitroaniline	25.0	27.5	110	70 - 130
Dimethylphthalate	25.0	23.8	95	70 - 130
Acenaphthylene	25.0	22.8	91	70 - 130
3-Nitroaniline	25.0	18.6	74	70 - 130
Acenaphthene	25.0	23.2	93	70 - 130
2,4-Dinitrophenol	25.0	20.5	82	20 - 160
4-Nitrophenol	25.0	24.1	96	20 - 160
Dibenzofuran	25.0	23.2	93	70 - 130
2,6-Dinitrotoluene	25.0	24.4	98	70 - 130
2,4-Dinitrotoluene	25.0	25.6	103	70 - 130
Diethyl phthalate	25.0	25.0	100	70 - 130
4-Chlorophenyl-phenylether	25.0	23.0	92	70 - 130
Fluorene	25.0	23.3	93	70 - 130
4-Nitroaniline	25.0	24.4	98	70 - 130
4,6-Dinitro-2-methylphenol	25.0	24.4	97	70 - 130
Carbazole	25.0	24.0	96	70 - 130
N-Nitrosodiphenylamine	25.0	22.6	91	70 - 130
Azobenzene	25.0	24.7	99	70 - 130
4-Bromophenyl-phenylether	25.0	22.1	89	70 - 130
Hexachlorobenzene	25.0	21.6	86	70 - 130
Pentachlorophenol	25.0	20.0	80	20 - 160
Phenanthrene	25.0	22.3	89	70 - 130
Anthracene	25.0	22.3	89	70 - 130
Di-n-butyl phthalate	25.0	23.8	95	70 - 130
Fluoranthene	25.0	22.6	90	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Prep Method:	EPA 3510C GCMS
Prep Batch:	B5H2503	Lab Sample ID:	B5H2503-BS1

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Pyrene	25.0	22.7	91	70 - 130
Butylbenzylphthalate	25.0	24.7	99	70 - 130
Benzo[a]anthracene	25.0	23.1	92	70 - 130
bis(2-ethylhexyl)phthalate	25.0	23.2	93	70 - 130
Chrysene	25.0	21.9	88	70 - 130
Di-n-octyl phthalate	25.0	24.4	98	70 - 130
Benzo[b]fluoranthene	25.0	23.4	94	70 - 130
Benzo[k]fluoranthene	25.0	21.8	87	70 - 130
Benzo[a]pyrene	25.0	23.1	92	70 - 130
Indeno(1,2,3-cd)pyrene	25.0	23.0	92	70 - 130
Dibenzo(a,h)anthracene	25.0	22.7	91	70 - 130
Benzo[ghi]perylene	25.0	23.3	93	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Pyridine	25.0	19.6	78	2	20	20 - 160
N-Nitrosodimethylamine	25.0	22.2	89	6	20	20 - 160
Aniline	25.0	20.0	80	5	20	20 - 160
Phenol	25.0	25.9	104	2	20	20 - 160
bis(2-chloroethyl)ether	25.0	24.4	98	0.2	20	70 - 130
2-Chlorophenol	25.0	25.3	101	0.3	20	70 - 130
1,3-Dichlorobenzene	25.0	22.8	91	0.7	20	70 - 130
1,4-Dichlorobenzene	25.0	23.2	93	0.3	20	70 - 130
Benzyl alcohol	25.0	27.4	110	1	20	20 - 160
1,2-Dichlorobenzene	25.0	23.0	92	0.2	20	70 - 130
2-Methylphenol	25.0	25.3	101	0.6	20	70 - 130
bis(2-chloroisopropyl)ether	25.0	25.3	101	0.9	20	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Prep Method:	EPA 3510C GCMS
Prep Batch:	B5H2503	Lab Sample ID:	B5H2503-BSD1

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #		QC LIMITS RPD	QC LIMITS REC.
3 & 4-Methylphenol	25.0	26.2	105	2		20	20 - 160
N-Nitroso-di-n-propylamine	25.0	26.3	105	2		20	70 - 130
Hexachloroethane	25.0	22.3	89	3		20	20 - 160
Nitrobenzene	25.0	25.3	101	3		20	70 - 130
Isophorone	25.0	24.0	96	3		20	70 - 130
2-Nitrophenol	25.0	24.5	98	5		20	70 - 130
2,4-Dimethylphenol	25.0	22.8	91	0		20	70 - 130
bis(2-chloroethoxy)methane	25.0	23.6	94	2		20	70 - 130
2,4-Dichlorophenol	25.0	23.8	95	0.7		20	70 - 130
1,2,4-Trichlorobenzene	25.0	22.1	89	2		20	70 - 130
Naphthalene	25.0	23.2	93	0.02		20	70 - 130
4-Chloroaniline	25.0	10.2	41	5		20	20 - 160
Hexachlorobutadiene	25.0	21.8	87	0.7		20	70 - 130
4-Chloro-3-methylphenol	25.0	26.4	105	2		20	70 - 130
2-Methylnaphthylene	25.0	23.2	93	1		20	70 - 130
Hexachlorocyclopentadiene	25.0	15.8	63	8		20	20 - 160
2,4,6-Trichlorophenol	25.0	23.6	95	4		20	70 - 130
2,4,5-Trichlorophenol	25.0	23.3	93	5		20	70 - 130
2-Chloronaphthalene	25.0	24.4	97	2		20	70 - 130
2-Nitroaniline	25.0	27.9	112	1		20	70 - 130
Dimethylphthalate	25.0	23.9	95	0.2		20	70 - 130
Acenaphthylene	25.0	23.2	93	2		20	70 - 130
3-Nitroaniline	25.0	19.3	77	4		20	70 - 130
Acenaphthene	25.0	23.4	94	0.9		20	70 - 130
2,4-Dinitrophenol	25.0	25.9	104	23	*	20	20 - 160
4-Nitrophenol	25.0	27.4	110	13		20	20 - 160
Dibenzofuran	25.0	23.4	94	0.9		20	70 - 130
2,6-Dinitrotoluene	25.0	25.5	102	5		20	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Prep Method:	EPA 3510C GCMS
Prep Batch:	B5H2503	Lab Sample ID:	B5H2503-BSD1

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
2,4-Dinitrotoluene	25.0	26.7	107	4	20	70 - 130
Diethyl phthalate	25.0	25.2	101	0.9	20	70 - 130
4-Chlorophenyl-phenylether	25.0	23.2	93	0.7	20	70 - 130
Fluorene	25.0	23.3	93	0.04	20	70 - 130
4-Nitroaniline	25.0	26.3	105	7	20	70 - 130
4,6-Dinitro-2-methylphenol	25.0	26.5	106	9	20	70 - 130
Carbazole	25.0	24.2	97	0.6	20	70 - 130
N-Nitrosodiphenylamine	25.0	22.9	92	1	20	70 - 130
Azobenzene	25.0	26.5	106	7	20	70 - 130
4-Bromophenyl-phenylether	25.0	22.7	91	3	20	70 - 130
Hexachlorobenzene	25.0	22.4	89	4	20	70 - 130
Pentachlorophenol	25.0	21.4	86	7	20	20 - 160
Phenanthrene	25.0	22.1	88	0.9	20	70 - 130
Anthracene	25.0	22.2	89	0.6	20	70 - 130
Di-n-butyl phthalate	25.0	23.8	95	0.08	20	70 - 130
Fluoranthene	25.0	23.0	92	2	20	70 - 130
Pyrene	25.0	22.9	92	1	20	70 - 130
Butylbenzylphthalate	25.0	25.1	101	2	20	70 - 130
Benzo[a]anthracene	25.0	23.5	94	2	20	70 - 130
bis(2-ethylhexyl)phthalate	25.0	23.4	94	0.7	20	70 - 130
Chrysene	25.0	21.9	88	0.05	20	70 - 130
Di-n-octyl phthalate	25.0	24.0	96	2	20	70 - 130
Benzo[b]fluoranthene	25.0	23.1	93	1	20	70 - 130
Benzo[k]fluoranthene	25.0	21.9	88	0.3	20	70 - 130
Benzo[a]pyrene	25.0	22.8	91	1	20	70 - 130
Indeno(1,2,3-cd)pyrene	25.0	22.7	91	1	20	70 - 130
Dibenzo(a,h)anthracene	25.0	22.5	90	0.7	20	70 - 130
Benzo[ghi]perylene	25.0	22.8	91	2	20	70 - 130

Accredited Analytical Resources, LLC.

* Values outside of QC limits

Accredited Analytical Resources, LLC.

METHOD BLANK SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Blank ID:	B5H2503-BLK1	Batch:	B5H2503

Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
TMW-1	1501458-01	F11527.D	08/26/2015 18:20
LCS	B5H2503-BS1	F11539.D	08/27/2015 13:50
LCS Dup	B5H2503-BSD1	F11540.D	08/27/2015 14:38
TMW-1	1501458-01RE1	F11542.D	08/27/2015 16:13

Accredited Analytical Resources, LLC.

INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1501458
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Lab File ID:	F10672.D	Injection Date:	05/28/15
Instrument ID:	GC/MS F	Injection Time:	11:15
Sequence:	S5E2815	Lab Sample ID:	S5E2815-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	38.2	PASS
68	Less than 2% of 69	0.766	PASS
69	Less than 100% of 198	51.2	PASS
70	Less than 2% of 69	0.151	PASS
127	40 - 60% of 198	43.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.5	PASS
275	10 - 30% of 198	18.4	PASS
365	1 - 100% of 198	1.81	PASS
441	0.01 - 100% of 443	74.6	PASS
442	40 - 100% of 198	72.2	PASS
443	17 - 23% of 442	19.3	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Cal Standard	S5E2815-CAL4	F10673.D	05/28/2015	11:38:00
Cal Standard	S5E2815-CAL6	F10674.D	05/28/2015	12:23:00
Cal Standard	S5E2815-CAL1	F10675.D	05/28/2015	13:08:00
Cal Standard	S5E2815-CAL2	F10676.D	05/28/2015	13:53:00
Cal Standard	S5E2815-CAL3	F10677.D	05/28/2015	14:38:00
Cal Standard	S5E2815-CAL5	F10678.D	05/28/2015	15:24:00

Accredited Analytical Resources, LLC.

INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1501458
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Lab File ID:	F11519.D	Injection Date:	08/26/15
Instrument ID:	GC/MS F	Injection Time:	12:37
Sequence:	S5H2607	Lab Sample ID:	S5H2607-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	33.9	PASS
68	Less than 2% of 69	0.36	PASS
69	Less than 100% of 198	48.5	PASS
70	Less than 2% of 69	0.231	PASS
127	40 - 60% of 198	41.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	5.96	PASS
275	10 - 30% of 198	17.6	PASS
365	1 - 100% of 198	1.71	PASS
441	0.01 - 100% of 443	82.3	PASS
442	40 - 100% of 198	65.6	PASS
443	17 - 23% of 442	17.8	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S5H2607-CCV1	F11520.D	08/26/2015	12:53:00
TMW-1	1501458-01	F11527.D	08/26/2015	18:20:00
Blank	B5H2503-BLK1	F11528.D	08/26/2015	19:06:00

Accredited Analytical Resources, LLC.

INSTRUMENT PERFORMANCE CHECK

EPA 8270

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1501458
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Lab File ID:	F11536.D	Injection Date:	08/27/15
Instrument ID:	GC/MS F	Injection Time:	11:13
Sequence:	S5H2708	Lab Sample ID:	S5H2708-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	37.4	PASS
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	55	PASS
70	Less than 2% of 69	0.0249	PASS
127	40 - 60% of 198	43.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.72	PASS
275	10 - 30% of 198	17.7	PASS
365	1 - 100% of 198	1.95	PASS
441	0.01 - 100% of 443	87.2	PASS
442	40 - 100% of 198	62.6	PASS
443	17 - 23% of 442	18	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S5H2708-CCV1	F11537.D	08/27/2015	12:17:00
LCS	B5H2503-BS1	F11539.D	08/27/2015	13:50:00
LCS Dup	B5H2503-BSD1	F11540.D	08/27/2015	14:38:00
TMW-1	1501458-01RE1	F11542.D	08/27/2015	16:13:00

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Sequence: S5H2607 Instrument: GC/MS F
Calibration: 15F1602

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S5H2607-CCV1)			*Lab File ID: F11520.D*			*Analyzed: 08/26/15 12:53*			
1,4-Dichlorobenzene-d4	149978	10.46	164732	10.41	91	50 - 200	0.0500	+/-0.50	
Naphthalene-d8	663175	13.68	656328	13.63	101	50 - 200	0.0500	+/-0.50	
Acenaphthene-d10	296548	18.22	263091	18.17	113	50 - 200	0.0500	+/-0.50	
Phenanthrene-d10	549746	21.99	491374	21.91	112	50 - 200	0.0800	+/-0.50	
Chrysene-d12	488962	28.84	458512	28.75	107	50 - 200	0.0900	+/-0.50	
Perylene-d12	484037	32.25	477734	32.14	101	50 - 200	0.1100	+/-0.50	
TMW-1 (1501458-01)			*Lab File ID: F11527.D*			*Analyzed: 08/26/15 18:20*			
1,4-Dichlorobenzene-d4	159737	10.5	149978	10.46	107	50 - 200	0.0400	+/-0.50	
Naphthalene-d8	684994	13.69	663175	13.68	103	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	332294	18.21	296548	18.22	112	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	620913	21.98	549746	21.99	113	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	590649	28.82	488962	28.84	121	50 - 200	-0.0200	+/-0.50	
Perylene-d12	586418	32.23	484037	32.25	121	50 - 200	-0.0200	+/-0.50	
Blank (B5H2503-BLK1)			*Lab File ID: F11528.D*			*Analyzed: 08/26/15 19:06*			
1,4-Dichlorobenzene-d4	146144	10.45	149978	10.46	97	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	652663	13.66	663175	13.68	98	50 - 200	-0.0200	+/-0.50	
Acenaphthene-d10	323072	18.2	296548	18.22	109	50 - 200	-0.0200	+/-0.50	
Phenanthrene-d10	619348	21.97	549746	21.99	113	50 - 200	-0.0200	+/-0.50	
Chrysene-d12	583005	28.8	488962	28.84	119	50 - 200	-0.0400	+/-0.50	
Perylene-d12	528703	32.21	484037	32.25	109	50 - 200	-0.0400	+/-0.50	

* Values outside of QC limits

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Sequence: S5H2708 Instrument: GC/MS F
Calibration: 15F1602

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S5H2708-CCV1)			*Lab File ID: F11537.D*			*Analyzed: 08/27/15 12:17*			
1,4-Dichlorobenzene-d4	161933	10.44	164732	10.41	98	50 - 200	0.0300	+/-0.50	
Naphthalene-d8	719873	13.66	656328	13.63	110	50 - 200	0.0300	+/-0.50	
Acenaphthene-d10	334461	18.21	263091	18.17	127	50 - 200	0.0400	+/-0.50	
Phenanthrene-d10	670118	21.98	491374	21.91	136	50 - 200	0.0700	+/-0.50	
Chrysene-d12	642058	28.83	458512	28.75	140	50 - 200	0.0800	+/-0.50	
Perylene-d12	646844	32.24	477734	32.14	135	50 - 200	0.1000	+/-0.50	
LCS (B5H2503-BS1)			*Lab File ID: F11539.D*			*Analyzed: 08/27/15 13:50*			
1,4-Dichlorobenzene-d4	127725	10.44	161933	10.44	79	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	574251	13.65	719873	13.66	80	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	263470	18.2	334461	18.21	79	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	515344	21.96	670118	21.98	77	50 - 200	-0.0200	+/-0.50	
Chrysene-d12	476710	28.81	642058	28.83	74	50 - 200	-0.0200	+/-0.50	
Perylene-d12	478219	32.21	646844	32.24	74	50 - 200	-0.0300	+/-0.50	
LCS Dup (B5H2503-BSD1)			*Lab File ID: F11540.D*			*Analyzed: 08/27/15 14:38*			
1,4-Dichlorobenzene-d4	152065	10.44	161933	10.44	94	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	677681	13.66	719873	13.66	94	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	306608	18.21	334461	18.21	92	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	603575	21.97	670118	21.98	90	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	556373	28.81	642058	28.83	87	50 - 200	-0.0200	+/-0.50	
Perylene-d12	569131	32.23	646844	32.24	88	50 - 200	-0.0100	+/-0.50	

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Sequence: S5H2708 Instrument: GC/MS F
Calibration: 15F1602

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
TMW-1 (1501458-01RE1)			*Lab File ID: F11542.D*			*Analyzed: 08/27/15 16:13*			
1,4-Dichlorobenzene-d4	157863	10.45	161933	10.44	97	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	693911	13.65	719873	13.66	96	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	340890	18.19	334461	18.21	102	50 - 200	-0.0200	+/-0.50	
Phenanthrene-d10	681741	21.95	670118	21.98	102	50 - 200	-0.0300	+/-0.50	
Chrysene-d12	637906	28.79	642058	28.83	99	50 - 200	-0.0400	+/-0.50	
Perylene-d12	647317	32.2	646844	32.24	100	50 - 200	-0.0400	+/-0.50	

* Values outside of QC limits

Accredited Analytical Resources, LLC.

SEMIVOLATILES CALIBRATION DATA

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration: 15F1602 Instrument: GC/MS F
Calibration Date: 5/28/2015 1:16:38PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Pyridine	5	1.356227	10	1.33329	20	1.448612	50	1.510555	80	1.331544	120	1.318605
N-Nitrosodimethylamine	5	1.041567	10	1.050243	20	1.012547	50	1.12696	80	1.068454	120	1.080101
Benzaldehyde	5	0.1503948	10	0.1685508	20	0.1694507	50	0.1592647	80	0.1645981	120	0.1468821
Aniline	5	2.799738	10	2.622689	20	2.727217	50	2.698774	80	2.609138	120	2.595384
Phenol	5	2.145242	10	2.23956	20	2.225162	50	2.177836	80	2.143965	120	1.94104
bis(2-chloroethyl)ether	5	2.013563	10	1.944342	20	2.045948	50	1.92189	80	1.890192	120	1.71012
2-Chlorophenol	5	1.601092	10	1.639298	20	1.653678	50	1.559629	80	1.53976	120	1.429755
1,3-Dichlorobenzene	5	1.70453	10	1.694891	20	1.672135	50	1.553962	80	1.523002	120	1.419933
1,4-Dichlorobenzene	5	1.742574	10	1.698097	20	1.651348	50	1.532958	80	1.486855	120	1.402696
Benzyl alcohol	5	1.157928	10	1.166225	20	1.196271	50	1.181041	80	1.197052	120	1.21709
1,2-Dichlorobenzene	5	1.642701	10	1.614721	20	1.613729	50	1.369779	80	1.338012	120	1.315816
2-Methylphenol	5	1.465904	10	1.509842	20	1.502631	50	1.379394	80	1.35375	120	1.360227
bis(2-chloroisopropyl)ether	5	2.954199	10	2.941286	20	2.905403	50	2.689731	80	2.620145	120	2.406987
Acetophenone	5	2.435616	10	2.443896	20	2.43486	50	2.285292	80	2.347341	120	2.276401
3 & 4-Methylphenol	5	1.587055	10	1.581281	20	1.562337	50	1.297278	80	1.326734	120	1.342444
N-Nitroso-di-n-propylamine	5	1.262926	10	1.256925	20	1.222068	50	1.132802	80	1.155412	120	1.176649
Hexachloroethane	5	0.7258498	10	0.7168427	20	0.7197692	50	0.6223053	80	0.6176327	120	0.641179
Nitrobenzene	5	0.375871	10	0.3977217	20	0.407263	50	0.3936593	80	0.373292	120	0.3861759
Isophorone	5	0.9279021	10	0.9091188	20	0.9335809	50	0.9059044	80	0.8727985	120	0.8890414
2-Nitrophenol	5	0.2135683	10	0.2206597	20	0.2376103	50	0.2405249	80	0.2196867	120	0.2337197
2,4-Dimethylphenol	5	0.3432821	10	0.3612473	20	0.3632887	50	0.3516876	80	0.3349119	120	0.3448844
Benzoic acid	5	7.642751E-02	10	0.1246828	20	0.1472683	50	0.1633159	80	0.1978441	120	0.1933198
bis(2-chloroethoxy)methane	5	0.5899172	10	0.5678024	20	0.5798889	50	0.5619056	80	0.5214121	120	0.5241129
2,4-Dichlorophenol	5	0.3035393	10	0.3097714	20	0.3078741	50	0.2966956	80	0.2823132	120	0.2918987
1,2,4-Trichlorobenzene	5	0.3200999	10	0.3390581	20	0.3316495	50	0.3058702	80	0.2822866	120	0.2964353
Naphthalene	5	1.139941	10	1.13043	20	1.122638	50	1.019928	80	0.9416096	120	0.8893897

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration: 15F1602 Instrument: GC/MS F
Calibration Date: 5/28/2015 1:16:38PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
4-Chloroaniline	5	0.5216949	10	0.5078096	20	0.5230598	50	0.4904072	80	0.476857	120	0.4638548
Hexachlorobutadiene	5	0.1708219	10	0.164306	20	0.1769767	50	0.1611658	80	0.156613	120	0.1717005
Caprolactam	5	0.1623573	10	0.1615896	20	0.1573745	50	0.1616996	80	0.1711202	120	0.1568154
4-Chloro-3-methylphenol	5	0.311922	10	0.3014868	20	0.3070931	50	0.2993954	80	0.2894239	120	0.2953885
2-Methylnaphthylene	5	0.7286827	10	0.7228172	20	0.7149427	50	0.6371778	80	0.6047669	120	0.5745235
1,2,4,5-Tetrachlorobenzene	5	0.7762347	10	0.784466	20	0.8135382	50	0.7913186	80	0.7531282	120	0.743536
Hexachlorocyclopentadiene	5	0.3504251	10	0.3735246	20	0.4010582	50	0.4814699	80	0.417126	120	0.4615093
2,4,6-Trichlorophenol	5	0.4536757	10	0.4664744	20	0.4774156	50	0.4787788	80	0.4653998	120	0.4459562
2,4,5-Trichlorophenol	5	0.4969046	10	0.5034087	20	0.5033247	50	0.5148454	80	0.497066	120	0.4459562
2-Chloronaphthalene	5	1.48752	10	1.468978	20	1.41284	50	1.282294	80	1.208378	120	1.14732
1,1-Biphenyl	5	2.061756	10	2.080646	20	1.923022	50	1.782282	80	1.680992	120	1.578066
2-Nitroaniline	5	0.3963312	10	0.424598	20	0.4362471	50	0.45746	80	0.4471876	120	0.4268921
Dimethylphthalate	5	1.739166	10	1.714607	20	1.715559	50	1.580104	80	1.497917	120	1.317846
Acenaphthylene	5	2.445279	10	2.423421	20	2.389901	50	2.288747	80	2.115389	120	1.83249
3-Nitroaniline	5	0.4877173	10	0.5190392	20	0.525911	50	0.5091014	80	0.5137083	120	0.4631622
Acenaphthene	5	1.462787	10	1.418344	20	1.420969	50	1.300298	80	1.265431	120	1.097521
2,4-Dinitrophenol	5	0.104224	10	0.1641865	20	0.2251212	50	0.2725171	80	0.2928774	120	0.2873753
4-Nitrophenol	5	0.1188568	10	0.1327499	20	0.1459026	50	0.1529053	80	0.1585343	120	0.1487265
Dibenzofuran	5	2.116241	10	2.060804	20	1.961572	50	1.838482	80	1.785412	120	1.642445
2,6-Dinitrotoluene	5	0.4038757	10	0.4514726	20	0.456714	50	0.4468416	80	0.4339995	120	0.4078937
2,4-Dinitrotoluene	5	0.5215156	10	0.5590148	20	0.6027378	50	0.5940241	80	0.5971071	120	0.5578109
2,3,4,6-Tetrachlorophenol	5	0.3622895	10	0.3858506	20	0.4018529	50	0.3925607	80	0.4067309	120	0.3817022
Diethyl phthalate	5	1.790183	10	1.77963	20	1.778792	50	1.590607	80	1.531056	120	1.297461
4-Chlorophenyl-phenylether	5	0.7214761	10	0.7257747	20	0.7021129	50	0.662922	80	0.6462965	120	0.5963549
Fluorene	5	1.633391	10	1.597415	20	1.529873	50	1.357802	80	1.335491	120	1.190474
4-Nitroaniline	5	0.4274524	10	0.5064938	20	0.5340403	50	0.5329532	80	0.530346	120	0.498304

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration: 15F1602 Instrument: GC/MS F
Calibration Date: 5/28/2015 1:16:38PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
4,6-Dinitro-2-methylphenol	5	0.1095472	10	0.1363803	20	0.1705374	50	0.1863232	80	0.1818082	120	0.1770229
Carbazole	5	1.173316	10	1.16848	20	1.19185	50	1.086841	80	1.045555	120	0.9931044
1,2-Diphenylhydrazine	5	1.030371	10	1.046733	20	1.030462	50	1.091799	80	1.063091	120	0.9899843
Azobenzene	5	1.030371	10	1.046733	20	1.030462	50	1.091799	80	1.063091	120	0.9899843
4-Bromophenyl-phenylether	5	0.2125976	10	0.2153819	20	0.2155342	50	0.1996947	80	0.1997389	120	0.2041611
Atrazine	5	0.2450314	10	0.2678588	20	0.2575139	50	0.2408984	80	0.2305406	120	0.2166055
Hexachlorobenzene	5	0.2446825	10	0.2569426	20	0.2602992	50	0.2495321	80	0.2501665	120	0.2710952
Pentachlorophenol	5	0.1381095	10	0.1517066	20	0.1699844	50	0.1653649	80	0.1665937	120	0.1728305
Phenanthrene	5	1.309116	10	1.259389	20	1.217008	50	1.096735	80	1.043471	120	1.001017
Anthracene	5	1.294926	10	1.277546	20	1.268686	50	1.145243	80	1.078226	120	1.036406
Di-n-butyl phthalate	5	1.847863	10	1.828001	20	1.810262	50	1.683218	80	1.59321	120	1.476315
Fluoranthene	5	1.299147	10	1.304997	20	1.28513	50	1.136155	80	1.107768	120	1.079179
Benzidine	5	0.496134	10	0.6223256	20	0.6053474	50	0.6151028	80	0.616762	120	0.561916
Pyrene	5	1.5115	10	1.514012	20	1.392822	50	1.297318	80	1.211396	120	1.165766
Butylbenzylphthalate	5	0.8897589	10	0.9018679	20	0.8994153	50	0.8704784	80	0.8159861	120	0.73887
3,3'-Dichlorobenzidine	5	0.433724	10	0.4044154	20	0.410599	50	0.3990299	80	0.4293287	120	0.4436408
Benzo[a]anthracene	5	1.312506	10	1.297482	20	1.240357	50	1.171982	80	1.156573	120	1.136337
bis(2-ethylhexyl)phthalate	5	1.285744	10	1.290273	20	1.31237	50	1.226702	80	1.145712	120	1.022825
Chrysene	5	1.192459	10	1.222302	20	1.174012	50	1.089387	80	1.05472	120	1.01739
Di-n-octyl phthalate	5	2.303995	10	2.31097	20	2.260119	50	2.10772	80	1.918984	120	1.843093
Benzo[b]fluoranthene	5	1.351077	10	1.319138	20	1.266111	50	1.228178	80	1.141033	120	1.229182
Benzo[k]fluoranthene	5	1.190026	10	1.197352	20	1.15629	50	1.038953	80	1.163761	120	1.067831
Benzo[a]pyrene	5	1.208785	10	1.218341	20	1.214616	50	1.118569	80	1.102885	120	1.112563
Indeno(1,2,3-cd)pyrene	5	1.368657	10	1.352201	20	1.348277	50	1.278496	80	1.258077	120	1.192774
Dibenzo(a,h)anthracene	5	1.087415	10	1.128329	20	1.090801	50	1.037069	80	1.054249	120	1.02083
Benzo[ghi]perylene	5	1.162838	10	1.173742	20	1.167454	50	1.094229	80	1.041155	120	0.9489085

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration: 15F1602 Instrument: GC/MS F
Calibration Date: 5/28/2015 1:16:38PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
2-Fluorophenol	5	1.400565	10	1.40658	20	1.487057	50	1.477411	80	1.457242	120	1.405046
Phenol-d5	5	2.08113	10	2.028396	20	2.089594	50	2.069436	80	2.042513	120	1.936274
Nitrobenzene-d5	5	0.3796391	10	0.384985	20	0.3964999	50	0.3920503	80	0.370179	120	0.3879278
2-Fluorobiphenyl	5	1.55107	10	1.549851	20	1.545595	50	1.479813	80	1.391397	120	1.30045
2,4,6-Tribromophenol	5	0.2043411	10	0.2282878	20	0.2492516	50	0.2602324	80	0.2771091	120	0.2972716
Terphenyl-d14	5	0.8879175	10	0.8666998	20	0.8096253	50	0.7770772	80	0.7700679	120	0.7834091

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15F1602	Instrument:	GC/MS F
		Calibration Date:	5/28/2015 1:16:38PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Pyridine	1.383139	5.652059		
N-Nitrosodimethylamine	1.063312	3.661821		
Benzaldehyde	0.1598569	5.923564		
Aniline	2.67549	3.002347		
Phenol	2.145467	5.021986	CCC (20)	
bis(2-chloroethyl)ether	1.921009	6.165734		
2-Chlorophenol	1.570535	5.208699		
1,3-Dichlorobenzene	1.594742	7.173787		
1,4-Dichlorobenzene	1.585755	8.346766	CCC (20)	
Benzyl alcohol	1.185934	1.84653		
1,2-Dichlorobenzene	1.48246	10.52539		
2-Methylphenol	1.428625	5.064157		
bis(2-chloroisopropyl)ether	2.752958	7.967231		
Acetophenone	2.370568	3.290378		
3 & 4-Methylphenol	1.449521	9.693963		
N-Nitroso-di-n-propylamine	1.20113	4.518585	SPCC (0.05)	
Hexachloroethane	0.6739298	7.723221		
Nitrobenzene	0.3889972	3.368301		
Isophorone	0.906391	2.534756		
2-Nitrophenol	0.2276283	4.861807	CCC (20)	
2,4-Dimethylphenol	0.3498837	3.143396		
Benzoic acid	0.1504764	30.31271		
bis(2-chloroethoxy)methane	0.5575065	5.133073		
2,4-Dichlorophenol	0.298682	3.508124	CCC (20)	
1,2,4-Trichlorobenzene	0.3125666	6.928049		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15F1602	Instrument:	GC/MS F
		Calibration Date:	5/28/2015 1:16:38PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Naphthalene	1.040656	10.32805		
4-Chloroaniline	0.4972805	4.887128		
Hexachlorobutadiene	0.1669307	4.525848	CCC (20)	
Caprolactam	0.1618261	3.170956		
4-Chloro-3-methylphenol	0.300785	2.678105	CCC (20)	
2-Methylnaphthylene	0.6638185	10.09926		
1,2,4,5-Tetrachlorobenzene	0.7770369	3.299235		
Hexachlorocyclopentadiene	0.4141855	12.15197	SPCC (0.05)	
2,4,6-Trichlorophenol	0.4646168	2.783673	CCC (20)	
2,4,5-Trichlorophenol	0.4935843	4.90862		
2-Chloronaphthalene	1.334555	10.66582		
1,1-Biphenyl	1.851127	11.08316		
2-Nitroaniline	0.4314527	4.914799		
Dimethylphthalate	1.5942	10.34838		
Acenaphthylene	2.249204	10.55334		
3-Nitroaniline	0.5031066	4.665325		
Acenaphthene	1.327558	10.26066	CCC (20)	
2,4-Dinitrophenol	0.2243836	33.96354	SPCC (0.05)	
4-Nitrophenol	0.1429459	10.22701	SPCC (0.05)	
Dibenzofuran	1.900826	9.400761		
2,6-Dinitrotoluene	0.4334662	5.233781		
2,4-Dinitrotoluene	0.5720351	5.516413		
2,3,4,6-Tetrachlorophenol	0.3884978	4.098073		
Diethyl phthalate	1.627955	12.03983		
4-Chlorophenyl-phenylether	0.6758229	7.434965		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15F1602	Instrument:	GC/MS F
		Calibration Date:	5/28/2015 1:16:38PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Fluorene	1.440741	12.02977		
4-Nitroaniline	0.5049316	8.082541		
4,6-Dinitro-2-methylphenol	0.1602699	19.07334		
Carbazole	1.109858	7.262234		
1,2-Diphenylhydrazine	1.042073	3.302349		
Azobenzene	1.042073	3.302349		
4-Bromophenyl-phenylether	0.2078514	3.627354		
Atrazine	0.2430748	7.561256		
Hexachlorobenzene	0.255453	3.71122		
Pentachlorophenol	0.1607649	8.256949	CCC (20)	
Phenanthrene	1.154456	10.82146		
Anthracene	1.183506	9.461892		
Di-n-butyl phthalate	1.706478	8.765564		
Fluoranthene	1.202063	8.745428	CCC (20)	
Benzidine	0.5862646	8.405785		
Pyrene	1.348802	11.03344		
Butylbenzylphthalate	0.8527294	7.52624		
3,3'-Dichlorobenzidine	0.420123	4.264792		
Benzo[a]anthracene	1.219206	6.17062		
bis(2-ethylhexyl)phthalate	1.213938	9.174088		
Chrysene	1.125045	7.352061		
Di-n-octyl phthalate	2.124147	9.580971	CCC (20)	
Benzo[b]fluoranthene	1.255787	5.941878		
Benzo[k]fluoranthene	1.135702	5.831333		
Benzo[a]pyrene	1.162627	4.858561	CCC (20)	

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15F1602	Instrument:	GC/MS F
		Calibration Date:	5/28/2015 1:16:38PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Indeno(1,2,3-cd)pyrene	1.299747	5.273084		
Dibenzo(a,h)anthracene	1.069782	3.712872		
Benzo[ghi]perylene	1.098054	8.169812		
2-Fluorophenol	1.438984	2.744572		
Phenol-d5	2.041224	2.763391		
Nitrobenzene-d5	0.3852135	2.431473		
2-Fluorobiphenyl	1.469696	7.050359		
2,4,6-Tribromophenol	0.2527489	13.22392		
Terphenyl-d14	0.8157995	6.121572		

* Values outside of QC limits

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS F	Calibration:	15F1602
Lab File ID:	F11520.D	Calibration Date:	05/28/15 13:16
Sequence:	S5H2607	Injection Date:	08/26/15
Lab Sample ID:	S5H2607-CCV1	Injection Time:	12:53

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	50.5	1.383139	1.395794		0.9	
N-Nitrosodimethylamine	A	50.0	49.9	1.063312	1.061638		-0.2	
Benzaldehyde	A	50.0	86.3	0.1598569	0.2758965		72.6	
Aniline	A	50.0	50.9	2.67549	2.72345		1.8	
Phenol	A	50.0	54.5	2.145467	2.340157		9.1	20
bis(2-chloroethyl)ether	A	50.0	52.6	1.921009	2.021331		5.2	
2-Chlorophenol	A	50.0	52.3	1.570535	1.642124		4.6	
1,3-Dichlorobenzene	A	50.0	49.8	1.594742	1.586825		-0.5	
1,4-Dichlorobenzene	A	50.0	49.7	1.585755	1.576962		-0.6	20
Benzyl alcohol	A	50.0	58.3	1.185934	1.383584		16.7	
1,2-Dichlorobenzene	A	50.0	49.1	1.48246	1.454869		-1.9	
2-Methylphenol	A	50.0	52.7	1.428625	1.505698		5.4	
bis(2-chloroisopropyl)ether	A	50.0	56.3	2.752958	3.102215		12.7	
Acetophenone	A	50.0	53.1	2.370568	2.516796		6.2	
3 & 4-Methylphenol	A	50.0	52.9	1.449521	1.534721		5.9	
N-Nitroso-di-n-propylamine	A	50.0	55.6	1.20113	1.334436	0.05	11.1	
Hexachloroethane	A	50.0	48.5	0.6739298	0.6539146		-3.0	
Nitrobenzene	A	50.0	53.0	0.3889972	0.4124172		6.0	
Isophorone	A	50.0	50.0	0.906391	0.9063864		-0.0005	
2-Nitrophenol	A	50.0	50.3	0.2276283	0.2289483		0.6	20
2,4-Dimethylphenol	A	50.0	50.3	0.3498837	0.3520302		0.6	
Benzoic acid	A	50.0	37.4	0.1504764	0.1126231		-25.2	
bis(2-chloroethoxy)methane	A	50.0	49.5	0.5575065	0.5515962		-1.1	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS F	Calibration:	15F1602
Lab File ID:	F11520.D	Calibration Date:	05/28/15 13:16
Sequence:	S5H2607	Injection Date:	08/26/15
Lab Sample ID:	S5H2607-CCV1	Injection Time:	12:53

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.0	49.3	0.298682	0.294601		-1.4	20
1,2,4-Trichlorobenzene	A	50.0	45.8	0.3125666	0.2861821		-8.4	
Naphthalene	A	50.0	48.8	1.040656	1.015284		-2.4	
4-Chloroaniline	A	50.0	49.2	0.4972805	0.4895999		-1.5	
Hexachlorobutadiene	A	50.0	45.8	0.1669307	0.1530902		-8.3	20
Caprolactam	A	50.0	43.8	0.1618261	0.1416809		-12.4	
4-Chloro-3-methylphenol	A	50.0	53.7	0.300785	0.3230653		7.4	20
2-Methylnaphthylene	A	50.0	50.1	0.6638185	0.6647452		0.1	
1,2,4,5-Tetrachlorobenzene	A	50.0	44.5	0.7770369	0.6922131		-10.9	
Hexachlorocyclopentadiene	A	50.0	39.5	0.4141855	0.3274478	0.05	-20.9	
2,4,6-Trichlorophenol	A	50.0	46.8	0.4646168	0.4351619		-6.3	20
2,4,5-Trichlorophenol	A	50.0	47.8	0.4935843	0.4722096		-4.3	
2-Chloronaphthalene	A	50.0	45.4	1.334555	1.212979		-9.1	
1,1-Biphenyl	A	50.0	45.3	1.851127	1.678641		-9.3	
2-Nitroaniline	A	50.0	57.3	0.4314527	0.4946788		14.7	
Dimethylphthalate	A	50.0	48.7	1.5942	1.552965		-2.6	
Acenaphthylene	A	50.0	48.3	2.249204	2.172125		-3.4	
3-Nitroaniline	A	50.0	49.8	0.5031066	0.5013772		-0.3	
Acenaphthene	A	50.0	48.2	1.327558	1.279774		-3.6	20
2,4-Dinitrophenol	A	50.0	53.9	0.2243836	0.241774	0.05	7.8	
4-Nitrophenol	A	50.0	58.2	0.1429459	0.166284	0.05	16.3	
Dibenzofuran	A	50.0	47.4	1.900826	1.801662		-5.2	
2,6-Dinitrotoluene	A	50.0	51.6	0.4334662	0.446986		3.1	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS F	Calibration:	15F1602
Lab File ID:	F11520.D	Calibration Date:	05/28/15 13:16
Sequence:	S5H2607	Injection Date:	08/26/15
Lab Sample ID:	S5H2607-CCV1	Injection Time:	12:53

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrotoluene	A	50.0	52.8	0.5720351	0.6039899		5.6	
2,3,4,6-Tetrachlorophenol	A	50.0	46.4	0.3884978	0.3607106		-7.2	
Diethyl phthalate	A	50.0	51.9	1.627955	1.689847		3.8	
4-Chlorophenyl-phenylether	A	50.0	46.7	0.6758229	0.6315011		-6.6	
Fluorene	A	50.0	47.8	1.440741	1.375931		-4.5	
4-Nitroaniline	A	50.0	51.6	0.5049316	0.5210273		3.2	
4,6-Dinitro-2-methylphenol	A	50.0	56.2	0.1602699	0.1802098		12.4	
Carbazole	A	50.0	44.6	1.109858	0.9894941		-10.8	
1,2-Diphenylhydrazine	A	50.0	56.5	1.042073	1.176805		12.9	
Azobenzene	A	50.0	56.5	1.042073	1.176805		12.9	
4-Bromophenyl-phenylether	A	50.0	46.6	0.2078514	0.1935599		-6.9	
Atrazine	A	50.0	41.2	0.2430748	0.2002539		-17.6	
Hexachlorobenzene	A	50.0	46.0	0.255453	0.2351282		-8.0	
Pentachlorophenol	A	50.0	46.3	0.1607649	0.1488673		-7.4	20
Phenanthrene	A	50.0	47.1	1.154456	1.086711		-5.9	
Anthracene	A	50.0	47.8	1.183506	1.132363		-4.3	
Di-n-butyl phthalate	A	50.0	49.7	1.706478	1.69525		-0.7	
Fluoranthene	A	50.0	46.9	1.202063	1.126715		-6.3	20
Benzidine	A	50.0	49.9	0.5862646	0.5845853		-0.3	
Pyrene	A	50.0	48.6	1.348802	1.310058		-2.9	
Butylbenzylphthalate	A	50.0	51.4	0.8527294	0.8772101		2.9	
3,3'-Dichlorobenzidine	A	50.0	44.2	0.420123	0.37108		-11.7	
Benzo[a]anthracene	A	50.0	46.9	1.219206	1.144068		-6.2	

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CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS F	Calibration:	15F1602
Lab File ID:	F11520.D	Calibration Date:	05/28/15 13:16
Sequence:	S5H2607	Injection Date:	08/26/15
Lab Sample ID:	S5H2607-CCV1	Injection Time:	12:53

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
bis(2-ethylhexyl)phthalate	A	50.0	49.0	1.213938	1.190951		-1.9	
Chrysene	A	50.0	46.5	1.125045	1.046418		-7.0	
Di-n-octyl phthalate	A	50.0	49.6	2.124147	2.104841		-0.9	20
Benzo[b]fluoranthene	A	50.0	48.8	1.255787	1.226817		-2.3	
Benzo[k]fluoranthene	A	50.0	44.0	1.135702	1.000153		-11.9	
Benzo[a]pyrene	A	50.0	47.1	1.162627	1.094878		-5.8	20
Indeno(1,2,3-cd)pyrene	A	50.0	46.4	1.299747	1.207418		-7.1	
Dibenzo(a,h)anthracene	A	50.0	46.7	1.069782	0.9986774		-6.6	
Benzo[ghi]perylene	A	50.0	47.4	1.098054	1.040403		-5.3	
2-Fluorophenol	A	50.0	50.7	1.438984	1.460358		1.5	
Phenol-d5	A	50.0	52.0	2.041224	2.123719		4.0	
Nitrobenzene-d5	A	50.0	50.6	0.3852135	0.389806		1.2	
2-Fluorobiphenyl	A	50.0	46.3	1.469696	1.360033		-7.5	
2,4,6-Tribromophenol	A	50.0	46.5	0.2527489	0.2348895		-7.1	
Terphenyl-d14	A	50.0	47.4	0.8157995	0.7737714		-5.2	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS F	Calibration:	15F1602
Lab File ID:	F11537.D	Calibration Date:	05/28/15 13:16
Sequence:	S5H2708	Injection Date:	08/27/15
Lab Sample ID:	S5H2708-CCV1	Injection Time:	12:17

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Pyridine	A	50.0	49.2	1.383139	1.362346		-1.5	
N-Nitrosodimethylamine	A	50.0	44.5	1.063312	0.9471819		-10.9	
Benzaldehyde	A	50.0	104	0.1598569	0.3340295		109	
Aniline	A	50.0	49.4	2.67549	2.645356		-1.1	
Phenol	A	50.0	51.7	2.145467	2.217287		3.3	20
bis(2-chloroethyl)ether	A	50.0	50.7	1.921009	1.94762		1.4	
2-Chlorophenol	A	50.0	50.4	1.570535	1.584107		0.9	
1,3-Dichlorobenzene	A	50.0	47.0	1.594742	1.500285		-5.9	
1,4-Dichlorobenzene	A	50.0	47.5	1.585755	1.505042		-5.1	20
Benzyl alcohol	A	50.0	56.1	1.185934	1.331667		12.3	
1,2-Dichlorobenzene	A	50.0	47.5	1.48246	1.409304		-4.9	
2-Methylphenol	A	50.0	51.1	1.428625	1.461064		2.3	
bis(2-chloroisopropyl)ether	A	50.0	52.4	2.752958	2.887411		4.9	
Acetophenone	A	50.0	51.6	2.370568	2.444843		3.1	
3 & 4-Methylphenol	A	50.0	52.4	1.449521	1.519532		4.8	
N-Nitroso-di-n-propylamine	A	50.0	54.1	1.20113	1.298621	0.05	8.1	
Hexachloroethane	A	50.0	46.6	0.6739298	0.627583		-6.9	
Nitrobenzene	A	50.0	50.2	0.3889972	0.3902666		0.3	
Isophorone	A	50.0	49.9	0.906391	0.9038483		-0.3	
2-Nitrophenol	A	50.0	50.2	0.2276283	0.2285803		0.4	20
2,4-Dimethylphenol	A	50.0	50.1	0.3498837	0.3504151		0.2	
Benzoic acid	A	50.0	41.0	0.1504764	0.1234107		-18.0	
bis(2-chloroethoxy)methane	A	50.0	47.8	0.5575065	0.5330829		-4.4	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS F	Calibration:	15F1602
Lab File ID:	F11537.D	Calibration Date:	05/28/15 13:16
Sequence:	S5H2708	Injection Date:	08/27/15
Lab Sample ID:	S5H2708-CCV1	Injection Time:	12:17

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.0	48.4	0.298682	0.2893277		-3.1	20
1,2,4-Trichlorobenzene	A	50.0	45.3	0.3125666	0.2833089		-9.4	
Naphthalene	A	50.0	47.1	1.040656	0.9805241		-5.8	
4-Chloroaniline	A	50.0	48.9	0.4972805	0.486368		-2.2	
Hexachlorobutadiene	A	50.0	44.4	0.1669307	0.1481339		-11.3	20
Caprolactam	A	50.0	46.3	0.1618261	0.1497775		-7.4	
4-Chloro-3-methylphenol	A	50.0	54.8	0.300785	0.3297593		9.6	20
2-Methylnaphthylene	A	50.0	47.5	0.6638185	0.6306368		-5.0	
1,2,4,5-Tetrachlorobenzene	A	50.0	43.1	0.7770369	0.6698969		-13.8	
Hexachlorocyclopentadiene	A	50.0	35.4	0.4141855	0.2929872	0.05	-29.3	
2,4,6-Trichlorophenol	A	50.0	45.8	0.4646168	0.4251569		-8.5	20
2,4,5-Trichlorophenol	A	50.0	47.6	0.4935843	0.469998		-4.8	
2-Chloronaphthalene	A	50.0	44.1	1.334555	1.17735		-11.8	
1,1-Biphenyl	A	50.0	44.2	1.851127	1.637694		-11.5	
2-Nitroaniline	A	50.0	56.2	0.4314527	0.485		12.4	
Dimethylphthalate	A	50.0	48.0	1.5942	1.530293		-4.0	
Acenaphthylene	A	50.0	46.6	2.249204	2.097436		-6.7	
3-Nitroaniline	A	50.0	51.3	0.5031066	0.5160996		2.6	
Acenaphthene	A	50.0	47.0	1.327558	1.247765		-6.0	20
2,4-Dinitrophenol	A	50.0	54.1	0.2243836	0.2428696	0.05	8.2	
4-Nitrophenol	A	50.0	59.7	0.1429459	0.1707655	0.05	19.5	
Dibenzofuran	A	50.0	47.4	1.900826	1.802843		-5.2	
2,6-Dinitrotoluene	A	50.0	51.6	0.4334662	0.4474758		3.2	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS F	Calibration:	15F1602
Lab File ID:	F11537.D	Calibration Date:	05/28/15 13:16
Sequence:	S5H2708	Injection Date:	08/27/15
Lab Sample ID:	S5H2708-CCV1	Injection Time:	12:17

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrotoluene	A	50.0	54.4	0.5720351	0.6227668		8.9	
2,3,4,6-Tetrachlorophenol	A	50.0	48.3	0.3884978	0.3750321		-3.5	
Diethyl phthalate	A	50.0	50.9	1.627955	1.658322		1.9	
4-Chlorophenyl-phenylether	A	50.0	46.8	0.6758229	0.6319326		-6.5	
Fluorene	A	50.0	47.0	1.440741	1.354497		-6.0	
4-Nitroaniline	A	50.0	56.5	0.5049316	0.5702835		12.9	
4,6-Dinitro-2-methylphenol	A	50.0	53.1	0.1602699	0.1701145		6.1	
Carbazole	A	50.0	45.7	1.109858	1.013956		-8.6	
1,2-Diphenylhydrazine	A	50.0	52.3	1.042073	1.08921		4.5	
Azobenzene	A	50.0	52.3	1.042073	1.08921		4.5	
4-Bromophenyl-phenylether	A	50.0	44.7	0.2078514	0.1857846		-10.6	
Atrazine	A	50.0	44.2	0.2430748	0.2146798		-11.7	
Hexachlorobenzene	A	50.0	45.0	0.255453	0.2299356		-10.0	
Pentachlorophenol	A	50.0	43.3	0.1607649	0.1393068		-13.3	20
Phenanthrene	A	50.0	45.2	1.154456	1.043867		-9.6	
Anthracene	A	50.0	45.3	1.183506	1.07203		-9.4	
Di-n-butyl phthalate	A	50.0	47.7	1.706478	1.626703		-4.7	
Fluoranthene	A	50.0	44.7	1.202063	1.073708		-10.7	20
Benzidine	A	50.0	50.1	0.5862646	0.5876055		0.2	
Pyrene	A	50.0	44.4	1.348802	1.196549		-11.3	
Butylbenzylphthalate	A	50.0	48.1	0.8527294	0.8203608		-3.8	
3,3'-Dichlorobenzidine	A	50.0	47.8	0.420123	0.401322		-4.5	
Benzo[a]anthracene	A	50.0	45.7	1.219206	1.113283		-8.7	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8270

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS F	Calibration:	15F1602
Lab File ID:	F11537.D	Calibration Date:	05/28/15 13:16
Sequence:	S5H2708	Injection Date:	08/27/15
Lab Sample ID:	S5H2708-CCV1	Injection Time:	12:17

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
bis(2-ethylhexyl)phthalate	A	50.0	44.8	1.213938	1.086759		-10.5	
Chrysene	A	50.0	43.6	1.125045	0.9807874		-12.8	
Di-n-octyl phthalate	A	50.0	47.1	2.124147	2.000254		-5.8	20
Benzo[b]fluoranthene	A	50.0	46.6	1.255787	1.171755		-6.7	
Benzo[k]fluoranthene	A	50.0	43.1	1.135702	0.9787943		-13.8	
Benzo[a]pyrene	A	50.0	45.8	1.162627	1.06618		-8.3	20
Indeno(1,2,3-cd)pyrene	A	50.0	45.8	1.299747	1.191758		-8.3	
Dibenzo(a,h)anthracene	A	50.0	45.7	1.069782	0.9773856		-8.6	
Benzo[ghi]perylene	A	50.0	46.2	1.098054	1.014371		-7.6	
2-Fluorophenol	A	50.0	49.4	1.438984	1.420153		-1.3	
Phenol-d5	A	50.0	50.8	2.041224	2.075812		1.7	
Nitrobenzene-d5	A	50.0	48.4	0.3852135	0.3727713		-3.2	
2-Fluorobiphenyl	A	50.0	44.6	1.469696	1.312275		-10.7	
2,4,6-Tribromophenol	A	50.0	51.0	0.2527489	0.2579171		2.0	
Terphenyl-d14	A	50.0	44.9	0.8157995	0.7319152		-10.3	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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VOLATILES SAMPLE DATA

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VOLATILES SAMPLE DATA

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ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/24/15 20:48	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M17097.D
Prep Batch:	B5H2410	Sequence:	S5H2407	Analyzed:	08/24/15 20:48
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	120	200	U
107-13-1	Acrylonitrile	ND	40.0	200	U
67-64-1	Acetone	59.8	20.0	20.0	D
75-71-8	Dichlorodifluoromethane	ND	20.0	20.0	U
74-87-3	Chloromethane	ND	20.0	20.0	U
75-01-4	Vinyl chloride	ND	20.0	20.0	U
74-83-9	Bromomethane	ND	20.0	20.0	U
75-00-3	Chloroethane	ND	20.0	20.0	U
75-69-4	Trichlorofluoromethane	ND	20.0	20.0	U
75-35-4	1,1-Dichloroethene	ND	8.00	20.0	U
75-15-0	Carbon disulfide	ND	8.00	20.0	U
75-09-2	Methylene Chloride	29.2	8.00	20.0	D, B
156-60-5	trans-1,2-Dichloroethene	ND	8.00	20.0	U
75-34-3	1,1-Dichloroethane	ND	8.00	20.0	U
108-05-4	Vinyl acetate	ND	8.00	20.0	U
590-20-7	2,2-Dichloropropane	ND	8.00	20.0	U
78-93-3	2-Butanone	ND	10.0	20.0	U
156-59-4	cis-1,2-Dichloroethene	ND	10.0	20.0	U
67-66-3	Chloroform	ND	10.0	20.0	U
74-97-5	Bromochloromethane	ND	10.0	20.0	U
71-55-6	1,1,1-Trichloroethane	ND	10.0	20.0	U
563-58-6	1,1-Dichloropropene	ND	10.0	20.0	U
56-23-5	Carbon Tetrachloride	ND	10.0	20.0	U
107-06-2	1,2-Dichloroethane	ND	10.0	20.0	U
71-43-2	Benzene	ND	10.0	20.0	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/24/15 20:48	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M17097.D
Prep Batch:	B5H2410	Sequence:	S5H2407	Analyzed:	08/24/15 20:48
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
79-01-6	Trichloroethene	ND	10.0	20.0	U
78-87-5	1,2-Dichloropropane	ND	10.0	20.0	U
75-27-4	Bromodichloromethane	ND	10.0	20.0	U
74-95-3	Dibromomethane	ND	10.0	20.0	U
110-75-8	2-Chloroethyl vinyl ether	ND	10.0	20.0	U
10061-01-5	cis-1,3-Dichloropropene	ND	10.0	20.0	U
108-88-3	Toluene	24.2	10.0	20.0	D
10061-02-6	trans-1,3-Dichloropropene	ND	10.0	20.0	U
79-00-5	1,1,2-Trichloroethane	ND	10.0	20.0	U
108-10-1	4-Methyl-2-pentanone	ND	10.0	20.0	U
106-93-4	1,2-Dibromoethane	ND	10.0	20.0	U
591-78-6	2-Hexanone	ND	10.0	20.0	U
142-28-9	1,3-Dichloropropane	ND	10.0	20.0	U
127-18-4	Tetrachloroethene	ND	10.0	20.0	U
124-48-1	Dibromochloromethane	ND	10.0	20.0	U
100-41-4	Ethylbenzene	1180	10.0	20.0	D
108-90-7	Chlorobenzene	ND	10.0	20.0	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	10.0	20.0	U
108-38-3/106-42	m,p-Xylenes	3560	20.0	40.0	D
95-47-6	o-Xylene	1200	20.0	40.0	D
100-42-5	Styrene	ND	20.0	40.0	U
75-25-2	Bromoform	ND	10.0	20.0	U
98-82-8	Isopropylbenzene	296	10.0	20.0	D
79-34-5	1,1,2,2-Tetrachloroethane	ND	10.0	20.0	U
96-18-4	1,2,3-Trichloropropane	ND	10.0	20.0	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/24/15 20:48	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M17097.D
Prep Batch:	B5H2410	Sequence:	S5H2407	Analyzed:	08/24/15 20:48
Dilution:	20			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
103-65-1	n-Propyl Benzene	845	10.0	20.0	D
108-86-1	Bromobenzene	ND	10.0	20.0	U
108-67-8	1,3,5-Trimethylbenzene	998	10.0	20.0	D
95-49-8	2-Chlorotoluene	ND	10.0	20.0	U
106-43-4	4-Chlorotoluene	ND	10.0	20.0	U
98-06-6	tert-Butylbenzene	ND	10.0	20.0	U
95-63-6	1,2,4-Trimethylbenzene	3280	10.0	20.0	E, D
135-98-8	sec-Butylbenzene	88.8	10.0	20.0	D
99-87-6	p-Isopropyltoluene	41.2	10.0	20.0	D
541-73-1	1,3-Dichlorobenzene	ND	10.0	20.0	U
106-46-7	1,4-Dichlorobenzene	ND	10.0	20.0	U
104-51-8	n-Butyl Benzene	259	10.0	20.0	D
95-50-1	1,2-Dichlorobenzene	ND	10.0	20.0	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	10.0	20.0	U
120-82-1	1,2,4-Trichlorobenzene	ND	10.0	20.0	U
87-68-3	Hexachlorobutadiene	ND	10.0	20.0	U
87-61-6	1,2,3-Trichlorobenzene	ND	10.0	20.0	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	122%	70-130
Toluene-d8	118%	70-130
Bromofluorobenzene	103%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Data File : D:\M\DATA\DATA15\AUG15\M0824\M17097.D Vial: 8
Acq On : 24 Aug 2015 20:48 Operator: SG
Sample : 1501458-01@20 Inst : GC/MS M
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 22 12:36 2015 Quant Results File: VM8A0813.RES

Quant Method : D:\M\METHODS\VM8A0813.M (RTE Integrator)
Title : VOA 8260 AQ TCL
Last Update : Thu Aug 13 17:06:41 2015
Response via : Initial Calibration
DataAcq Meth : VM8A0813

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.60	168	1134902	25.00	ug/l	0.01
27) 1,4-Difluorobenzene	7.69	114	1781764	25.00	ug/l	0.01
47) Chlorobenzene-d5	12.46	117	1558174	25.00	ug/l	0.02
59) 1,4-Dichlorobenzene-d4	18.86	152	875574	25.00	ug/l	0.00
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	7.01	65	457958	30.39	ug/l	0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 121.56%			
40) Toluene-d8	9.95	98	1702435	29.48	ug/l	0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 117.92%			
46) Bromofluorobenzene	15.61	95	584395	25.87	ug/l	0.03
Spiked Amount 25.000	Range 70 - 130		Recovery = 103.48%			

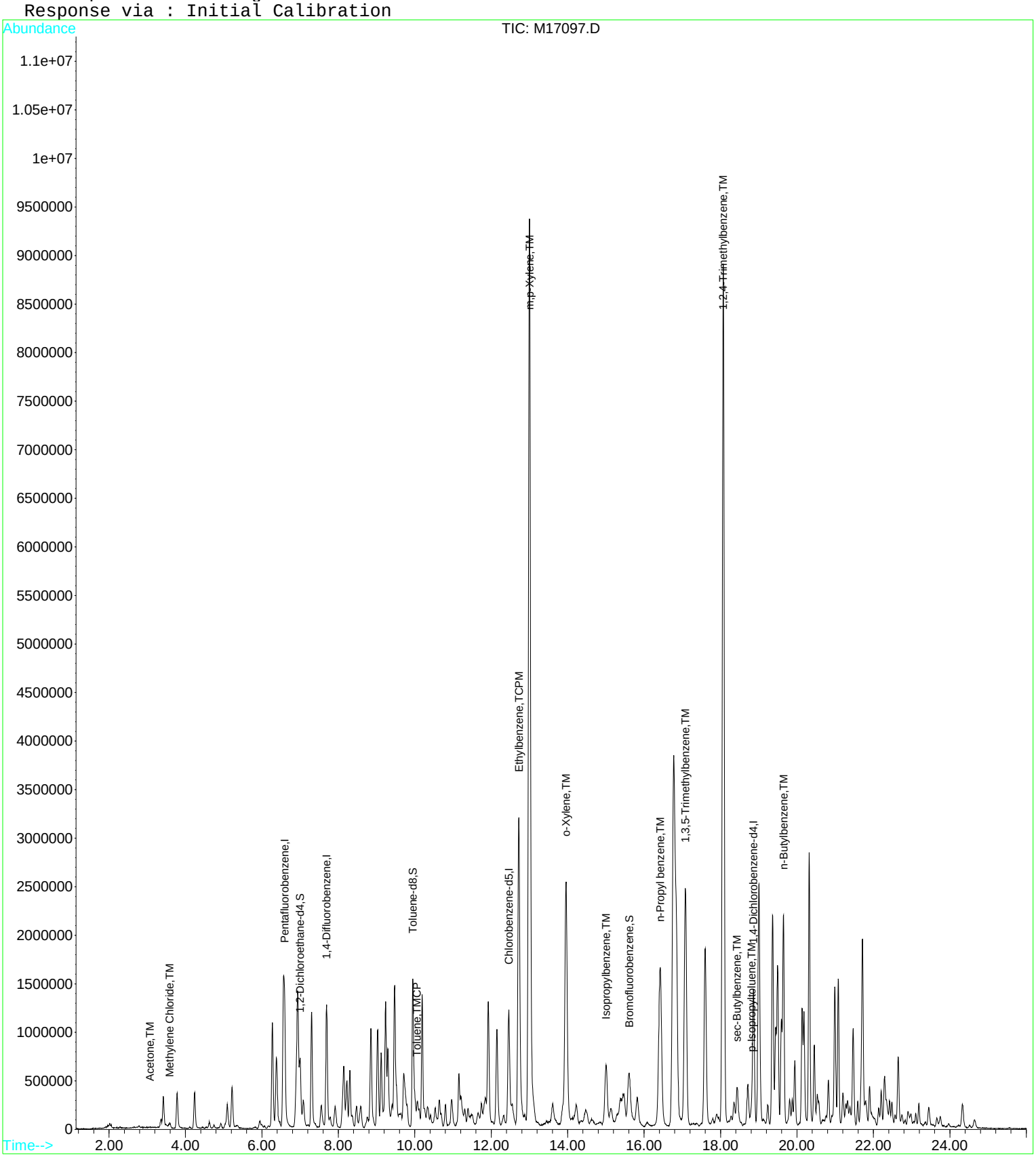
Target Compounds						Qvalue
4) Acetone	3.07	43	9645	2.99	ug/l	87
15) Methylene Chloride	3.59	49	39646	1.46	ug/l	90
41) Toluene	10.05	91	97722	1.21	ug/l	97
52) Ethylbenzene	12.72	91	5169168	58.80	ug/l	98
55) m,p-Xylene	13.00	91	11584666	178.15	ug/l	99
56) o-Xylene	13.96	91	3866079	60.11	ug/l	100
60) Isopropylbenzene	15.01	105	1272019	14.78	ug/l	96
63) n-Propyl benzene	16.42	91	4221617	42.26	ug/l	98
65) 1,3,5-Trimethylbenzene	17.08	105	3252168	49.89	ug/l	94
69) 1,2,4-Trimethylbenzene	18.07	105	11026048	163.96	ug/l	98
70) sec-Butylbenzene	18.44	105	402490	4.44	ug/l	97
71) p-Isopropyltoluene	18.81	119	181069	2.06	ug/l	98
74) n-Butylbenzene	19.64	91	905088	12.93	ug/l	81

(#) = qualifier out of range (m) = manual integration
M17097.D VM8A0813.M Tue Sep 22 12:36:21 2015

Quantitation Report

Data File : D:\M\DATA\DATA15\AUG15\M0824\M17097.D Vial: 8
Acq On : 24 Aug 2015 20:48 Operator: SG
Sample : 1501458-01@20 Inst : GC/MS M
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 22 12:36 2015 Quant Results File: VM8A0813.RES

Method : D:\M\METHODS\VM8A0813.M (RTE Integrator)
Title : VOA 8260 AQ TCL
Last Update : Thu Aug 13 17:06:41 2015
Response via : Initial Calibration



Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01RE1
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/24/15 21:22	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M17098.D
Prep Batch:	B5H2410	Sequence:	S5H2407	Analyzed:	08/24/15 21:22
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	600	1000	U
107-13-1	Acrylonitrile	ND	200	1000	U
67-64-1	Acetone	ND	100	100	U
75-71-8	Dichlorodifluoromethane	ND	100	100	U
74-87-3	Chloromethane	ND	100	100	U
75-01-4	Vinyl chloride	ND	100	100	U
74-83-9	Bromomethane	ND	100	100	U
75-00-3	Chloroethane	ND	100	100	U
75-69-4	Trichlorofluoromethane	ND	100	100	U
75-35-4	1,1-Dichloroethene	ND	40.0	100	U
75-15-0	Carbon disulfide	ND	40.0	100	U
75-09-2	Methylene Chloride	ND	40.0	100	U
156-60-5	trans-1,2-Dichloroethene	ND	40.0	100	U
75-34-3	1,1-Dichloroethane	ND	40.0	100	U
108-05-4	Vinyl acetate	ND	40.0	100	U
590-20-7	2,2-Dichloropropane	ND	40.0	100	U
78-93-3	2-Butanone	ND	50.0	100	U
156-59-4	cis-1,2-Dichloroethene	ND	50.0	100	U
67-66-3	Chloroform	ND	50.0	100	U
74-97-5	Bromochloromethane	ND	50.0	100	U
71-55-6	1,1,1-Trichloroethane	ND	50.0	100	U
563-58-6	1,1-Dichloropropene	ND	50.0	100	U
56-23-5	Carbon Tetrachloride	ND	50.0	100	U
107-06-2	1,2-Dichloroethane	ND	50.0	100	U
71-43-2	Benzene	ND	50.0	100	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01RE1
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/24/15 21:22	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M17098.D
Prep Batch:	B5H2410	Sequence:	S5H2407	Analyzed:	08/24/15 21:22
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
79-01-6	Trichloroethene	ND	50.0	100	U
78-87-5	1,2-Dichloropropane	ND	50.0	100	U
75-27-4	Bromodichloromethane	ND	50.0	100	U
74-95-3	Dibromomethane	ND	50.0	100	U
110-75-8	2-Chloroethyl vinyl ether	ND	50.0	100	U
10061-01-5	cis-1,3-Dichloropropene	ND	50.0	100	U
108-88-3	Toluene	ND	50.0	100	U
10061-02-6	trans-1,3-Dichloropropene	ND	50.0	100	U
79-00-5	1,1,2-Trichloroethane	ND	50.0	100	U
108-10-1	4-Methyl-2-pentanone	ND	50.0	100	U
106-93-4	1,2-Dibromoethane	ND	50.0	100	U
591-78-6	2-Hexanone	ND	50.0	100	U
142-28-9	1,3-Dichloropropane	ND	50.0	100	U
127-18-4	Tetrachloroethene	ND	50.0	100	U
124-48-1	Dibromochloromethane	ND	50.0	100	U
100-41-4	Ethylbenzene	1200	50.0	100	D
108-90-7	Chlorobenzene	ND	50.0	100	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	50.0	100	U
108-38-3/106-42	m,p-Xylenes	3650	100	200	D
95-47-6	o-Xylene	1180	100	200	D
100-42-5	Styrene	ND	100	200	U
75-25-2	Bromoform	ND	50.0	100	U
98-82-8	Isopropylbenzene	245	50.0	100	D
79-34-5	1,1,2,2-Tetrachloroethane	ND	50.0	100	U
96-18-4	1,2,3-Trichloropropane	ND	50.0	100	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: TMW-1
Lab Sample ID: 1501458-01RE1
Project: 255 East 138th Street
Work Order: 1501458

Date Sampled:	08/20/15 09:55	Prep Date:	08/24/15 21:22	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M17098.D
Prep Batch:	B5H2410	Sequence:	S5H2407	Analyzed:	08/24/15 21:22
Dilution:	100			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
103-65-1	n-Propyl Benzene	676	50.0	100	D
108-86-1	Bromobenzene	ND	50.0	100	U
108-67-8	1,3,5-Trimethylbenzene	787	50.0	100	D
95-49-8	2-Chlorotoluene	ND	50.0	100	U
106-43-4	4-Chlorotoluene	ND	50.0	100	U
98-06-6	tert-Butylbenzene	ND	50.0	100	U
95-63-6	1,2,4-Trimethylbenzene	2850	50.0	100	D
135-98-8	sec-Butylbenzene	ND	50.0	100	U
99-87-6	p-Isopropyltoluene	ND	50.0	100	U
541-73-1	1,3-Dichlorobenzene	ND	50.0	100	U
106-46-7	1,4-Dichlorobenzene	ND	50.0	100	U
104-51-8	n-Butyl Benzene	ND	50.0	100	U
95-50-1	1,2-Dichlorobenzene	ND	50.0	100	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	50.0	100	U
120-82-1	1,2,4-Trichlorobenzene	ND	50.0	100	U
87-68-3	Hexachlorobutadiene	ND	50.0	100	U
87-61-6	1,2,3-Trichlorobenzene	ND	50.0	100	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	118%	70-130
Toluene-d8	116%	70-130
Bromofluorobenzene	101%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Data File : D:\M\DATA\DATA15\AUG15\M0824\M17098.D Vial: 9
Acq On : 24 Aug 2015 21:22 Operator: SG
Sample : 1501458-01RE1@100 Inst : GC/MS M
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 25 15:59 2015 Quant Results File: VM8A0813.RES

Quant Method : D:\M\METHODS\VM8A0813.M (RTE Integrator)
Title : VOA 8260 AQ TCL
Last Update : Thu Aug 13 17:06:41 2015
Response via : Initial Calibration
DataAcq Meth : VM8A0813

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.60	168	1076593	25.00	ug/l	0.01
27) 1,4-Difluorobenzene	7.70	114	1716367	25.00	ug/l	0.02
47) Chlorobenzene-d5	12.46	117	1502636	25.00	ug/l	0.02
59) 1,4-Dichlorobenzene-d4	18.86	152	821905	25.00	ug/l	0.00
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	7.00	65	427562	29.46	ug/l	0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 117.84%			
40) Toluene-d8	9.95	98	1615589	29.04	ug/l	0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 116.16%			
46) Bromofluorobenzene	15.61	95	550623	25.30	ug/l	0.03
Spiked Amount 25.000	Range 70 - 130		Recovery = 101.20%			

Target Compounds						Qvalue
52) Ethylbenzene	12.72	91	1013096	11.95	ug/l	96
55) m,p-Xylene	13.00	91	2286790	36.47	ug/l	98
56) o-Xylene	13.95	91	732411	11.81	ug/l	98
60) Isopropylbenzene	15.01	105	197605	2.45	ug/l	93
63) n-Propyl benzene	16.40	91	633506	6.76	ug/l	98
65) 1,3,5-Trimethylbenzene	17.08	105	481394	7.87	ug/l	96
69) 1,2,4-Trimethylbenzene	18.06	105	1796315	28.46	ug/l	99

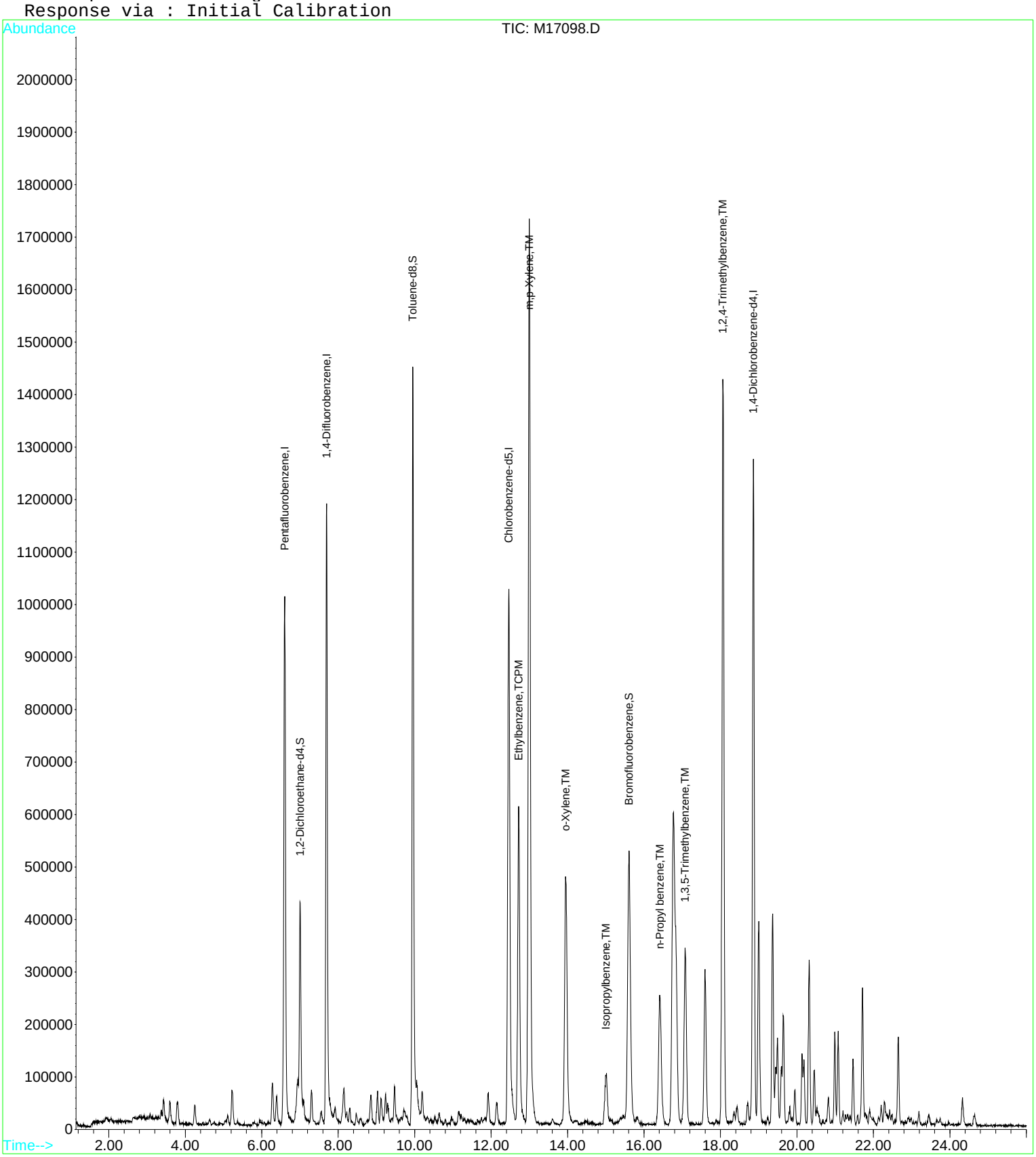
(#) = qualifier out of range (m) = manual integration
M17098.D VM8A0813.M Tue Aug 25 16:48:01 2015

Quantitation Report

Table of Contents

Data File : D:\M\DATA\DATA15\AUG15\M0824\M17098.D Vial: 9
Acq On : 24 Aug 2015 21:22 Operator: SG
Sample : 1501458-01RE1@100 Inst : GC/MS M
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 25 15:59 2015 Quant Results File: VM8A0813.RES

Method : D:\M\METHODS\VM8A0813.M (RTE Integrator)
Title : VOA 8260 AQ TCL
Last Update : Thu Aug 13 17:06:41 2015
Response via : Initial Calibration



Accredited Analytical Resources, LLC.

VOLATILES QC DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Matrix:	Aqueous	Laboratory ID:	B5H2410-BLK1	File ID:	M17091.D
Batch:	B5H2410	Prepared:	08/24/15 17:30	Analyzed:	08/24/15 17:30
Column:	1	Preparation:	EPA 5030B	Dilution:	
		Sequence:	S5H2407	Instrument:	GC/MS M

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND	1.00	1.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	U
74-87-3	Chloromethane	ND	1.00	1.00	U
75-01-4	Vinyl chloride	ND	1.00	1.00	U
74-83-9	Bromomethane	ND	1.00	1.00	U
75-00-3	Chloroethane	ND	1.00	1.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	U
75-15-0	Carbon disulfide	ND	0.400	1.00	U
75-09-2	Methylene Chloride	1.05	0.400	1.00	
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	U
108-05-4	Vinyl acetate	ND	0.400	1.00	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	U
78-93-3	2-Butanone	ND	0.500	1.00	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	U
67-66-3	Chloroform	ND	0.500	1.00	U
74-97-5	Bromochloromethane	ND	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Matrix:	Aqueous	Laboratory ID:	B5H2410-BLK1	File ID:	M17091.D
Batch:	B5H2410	Prepared:	08/24/15 17:30	Analyzed:	08/24/15 17:30
Column:	1	Preparation:	EPA 5030B	Dilution:	
		Sequence:	S5H2407	Instrument:	GC/MS M

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
71-43-2	Benzene	ND	0.500	1.00	U
79-01-6	Trichloroethene	ND	0.500	1.00	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	U
75-27-4	Bromodichloromethane	ND	0.500	1.00	U
74-95-3	Dibromomethane	ND	0.500	1.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	U
108-88-3	Toluene	ND	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	U
591-78-6	2-Hexanone	ND	0.500	1.00	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	U
100-41-4	Ethylbenzene	ND	0.500	1.00	U
108-90-7	Chlorobenzene	ND	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	U
108-38-3/106-42-3	m,p-Xylenes	ND	1.00	2.00	U
95-47-6	o-Xylene	ND	1.00	2.00	U
100-42-5	Styrene	ND	1.00	2.00	U
75-25-2	Bromoform	ND	0.500	1.00	U
98-82-8	Isopropylbenzene	ND	0.500	1.00	U

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ANALYSIS DATA SHEET

Blank

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Matrix:	Aqueous	Laboratory ID:	B5H2410-BLK1	File ID:	M17091.D
Batch:	B5H2410	Prepared:	08/24/15 17:30	Analyzed:	08/24/15 17:30
Column:	1	Preparation:	EPA 5030B	Dilution:	
		Sequence:	S5H2407	Instrument:	GC/MS M

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	U
103-65-1	n-Propyl Benzene	ND	0.500	1.00	U
108-86-1	Bromobenzene	ND	0.500	1.00	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	U
135-98-8	sec-Butylbenzene	ND	0.500	1.00	U
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	U
91-20-3	Naphthalene	ND	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	100%	70-130
Toluene-d8	119%	70-130
Bromofluorobenzene	92%	70-130

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* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Quantitation Report (QT Reviewed)

Data File : D:\M\DATA\DATA15\AUG15\M0824\M17091.D Vial: 13
Acq On : 24 Aug 2015 17:30 Operator: SG
Sample : B5H2410-BLK1 Inst : GC/MS M
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 25 16:39 2015 Quant Results File: VM8A0813.RES

Quant Method : D:\M\METHODS\VM8A0813.M (RTE Integrator)
Title : VOA 8260 AQ TCL
Last Update : Thu Aug 13 17:06:41 2015
Response via : Initial Calibration
DataAcq Meth : VM8A0813

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.60	168	1139699	25.00	ug/l	0.02
27) 1,4-Difluorobenzene	7.70	114	1731541	25.00	ug/l	0.02
47) Chlorobenzene-d5	12.46	117	1461038	25.00	ug/l	0.02
59) 1,4-Dichlorobenzene-d4	18.85	152	752006	25.00	ug/l	0.00
System Monitoring Compounds						
28) 1,2-Dichloroethane-d4	7.01	65	366494	25.03	ug/l	0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 100.12%			
40) Toluene-d8	9.95	98	1666940	29.71	ug/l	0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 118.84%			
46) Bromofluorobenzene	15.61	95	503091	22.91	ug/l	0.03
Spiked Amount 25.000	Range 70 - 130		Recovery = 91.64%			

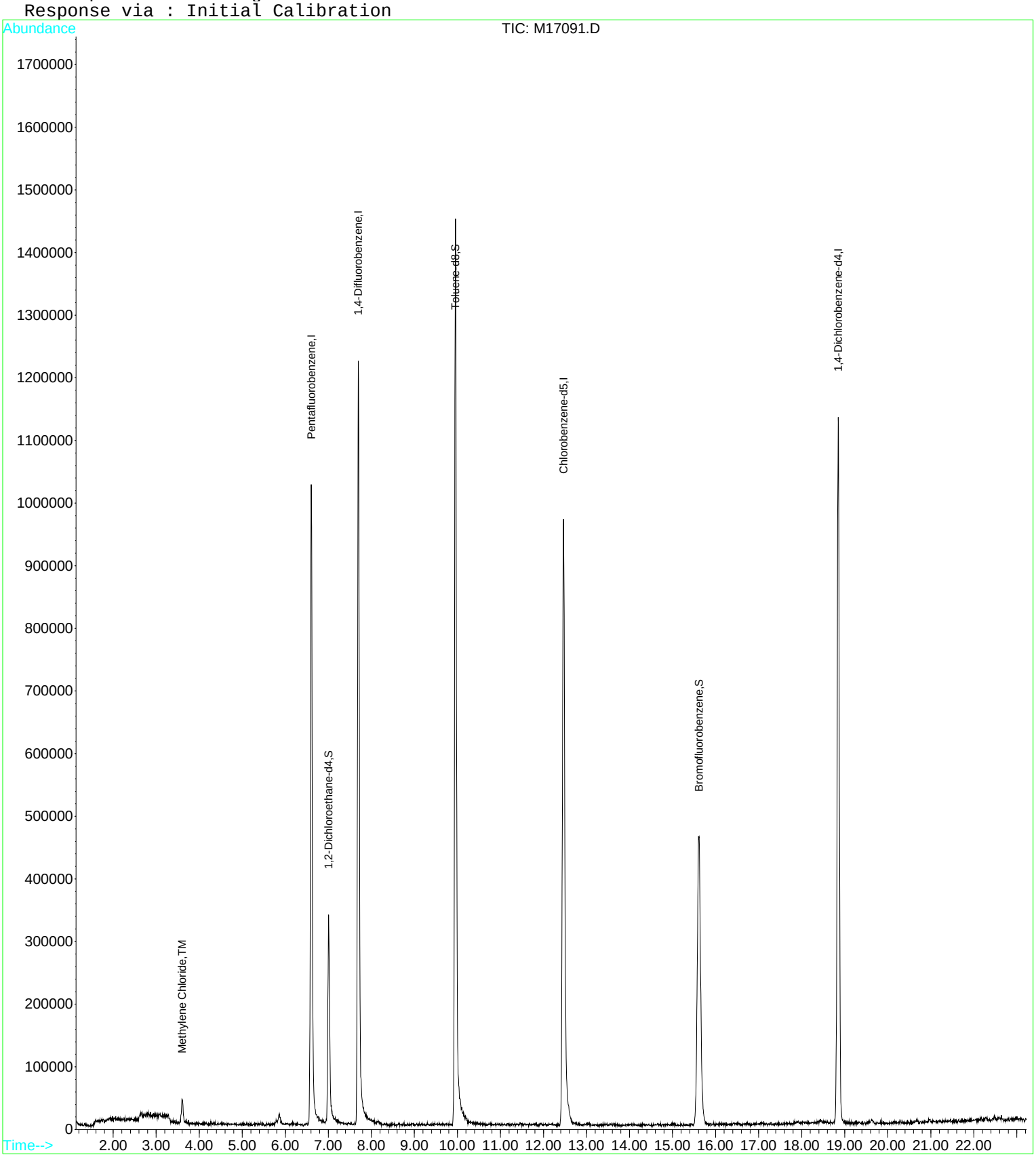
Target Compounds						Qvalue
15) Methylene Chloride	3.60	49	31569m	1.05	ug/l	

(#) = qualifier out of range (m) = manual integration
M17091.D VM8A0813.M Tue Aug 25 16:47:44 2015

Quantitation Report

Data File : D:\M\DATA\DATA15\AUG15\M0824\M17091.D Vial: 13
Acq On : 24 Aug 2015 17:30 Operator: SG
Sample : B5H2410-BLK1 Inst : GC/MS M
Misc : WATER Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 25 16:39 2015 Quant Results File: VM8A0813.RES

Method : D:\M\METHODS\VM8A0813.M (RTE Integrator)
Title : VOA 8260 AQ TCL
Last Update : Thu Aug 13 17:06:41 2015
Response via : Initial Calibration



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VOLATILES QC SUMMARY

Accredited Analytical Resources, LLC.

SYSTEM MONITORING COMPOUND SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix: Aqueous
Instrument: GC/MS M

Lab Sample ID:	1,2-DCE-d4 (70% - 130%)	BFB (70% - 130%)	TOL-d8 (70% - 130%)
1501458-01	122	103	118
1501458-01RE1	118	101	116
B5H2410-BLK1	100	92	119
B5H2410-BS1	109	115	115
B5H2410-MS1	113	118	114
B5H2410-MSD1	118	121	118

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B5H2410	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B5H2410-MS1
		Client Sample ID:	1501444-02

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	QC LIMITS REC.
Acrolein	125	ND	138	110	40 - 160
Acrylonitrile	125	ND	156	125	70 - 130
Acetone	25.0	ND	34.1	136	40 - 160
Dichlorodifluoromethane	25.0	ND	16.1	64	40 - 160
Chloromethane	25.0	ND	22.2	89	40 - 160
Vinyl chloride	25.0	ND	26.2	105	70 - 130
Bromomethane	25.0	ND	24.6	99	40 - 160
Chloroethane	25.0	ND	27.7	111	40 - 160
Trichlorofluoromethane	25.0	ND	25.8	103	40 - 160
Freon 113	25.0	ND	25.4	102	70 - 130
1,1-Dichloroethene	25.0	ND	24.7	99	70 - 130
Carbon disulfide	25.0	ND	22.2	89	70 - 130
Methyl Acetate	25.0	ND	30.5	122	70 - 130
Methylene Chloride	25.0	1.91	29.1	109	70 - 130
trans-1,2-Dichloroethene	25.0	ND	25.8	103	70 - 130
1,1-Dichloroethane	25.0	ND	27.0	108	70 - 130
2,2-Dichloropropane	25.0	ND	23.4	94	70 - 130
2-Butanone	25.0	ND	32.0	128	40 - 160
cis-1,2-Dichloroethene	25.0	12.5	42.0	118	70 - 130
Chloroform	25.0	ND	26.8	107	70 - 130
Bromochloromethane	25.0	ND	28.8	115	70 - 130
Cyclohexane	25.0	ND	27.8	111	70 - 130
1,1,1-Trichloroethane	25.0	ND	27.3	109	70 - 130
t-Butyl alcohol	250	ND	332	133	40 - 160
1,1-Dichloropropene	25.0	ND	23.2	93	70 - 130
Carbon Tetrachloride	25.0	ND	23.6	94	70 - 130

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B5H2410	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B5H2410-MS1
		Client Sample ID:	1501444-02

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	QC LIMITS REC.
1,2-Dichloroethane	25.0	ND	26.5	106	70 - 130
Benzene	25.0	ND	24.5	98	70 - 130
Trichloroethene	25.0	2.01	27.2	101	70 - 130
Methylcyclohexane	25.0	ND	25.7	103	70 - 130
1,2-Dichloropropane	25.0	ND	27.1	108	70 - 130
Bromodichloromethane	25.0	ND	25.6	103	70 - 130
Dibromomethane	25.0	ND	26.8	107	70 - 130
2-Chloroethyl vinyl ether	25.0	ND	28.8	115	70 - 130
cis-1,3-Dichloropropene	25.0	ND	25.7	103	70 - 130
Toluene	25.0	ND	25.8	103	70 - 130
trans-1,3-Dichloropropene	25.0	ND	27.0	108	70 - 130
1,1,2-Trichloroethane	25.0	ND	29.3	117	70 - 130
4-Methyl-2-pentanone	25.0	ND	29.3	117	40 - 160
1,2-Dibromoethane	25.0	ND	28.0	112	70 - 130
2-Hexanone	25.0	ND	29.0	116	40 - 160
1,3-Dichloropropane	25.0	ND	25.8	103	70 - 130
Tetrachloroethene	25.0	4.74	28.1	93	70 - 130
Dibromochloromethane	25.0	ND	25.6	102	70 - 130
Ethylbenzene	25.0	ND	25.1	100	70 - 130
Chlorobenzene	25.0	ND	26.2	105	70 - 130
1,1,1,2-Tetrachloroethane	25.0	ND	26.4	105	70 - 130
m,p-Xylenes	50.0	ND	50.0	100	70 - 130
o-Xylene	50.0	ND	51.6	103	70 - 130
Styrene	50.0	ND	54.1	108	70 - 130
Bromoform	25.0	ND	26.4	106	70 - 130
Isopropylbenzene	25.0	ND	25.1	100	70 - 130

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B5H2410	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B5H2410-MS1
		Client Sample ID:	1501444-02

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	QC LIMITS REC.
1,1,2,2-Tetrachloroethane	25.0	ND	25.9	104	70 - 130
1,2,3-Trichloropropane	25.0	ND	26.4	106	70 - 130
n-Propyl Benzene	25.0	ND	24.8	99	70 - 130
Bromobenzene	25.0	ND	24.9	99	70 - 130
1,3,5-Trimethylbenzene	25.0	ND	25.7	103	70 - 130
2-Chlorotoluene	25.0	ND	24.7	99	70 - 130
4-Chlorotoluene	25.0	ND	25.3	101	70 - 130
tert-Butylbenzene	25.0	ND	25.5	102	70 - 130
1,2,4-Trimethylbenzene	25.0	ND	25.6	103	70 - 130
sec-Butylbenzene	25.0	ND	25.9	103	70 - 130
p-Isopropyltoluene	25.0	ND	26.0	104	70 - 130
1,3-Dichlorobenzene	25.0	ND	25.7	103	70 - 130
1,4-Dichlorobenzene	25.0	ND	25.4	102	70 - 130
n-Butyl Benzene	25.0	ND	25.5	102	70 - 130
1,2-Dichlorobenzene	25.0	1.59	27.4	103	70 - 130
1,2-Dibromo-3-chloropropane	25.0	ND	24.8	99	40 - 160
1,2,4-Trichlorobenzene	25.0	ND	27.4	110	70 - 130
Hexachlorobutadiene	25.0	ND	26.6	106	70 - 130
Naphthalene	25.0	ND	29.0	116	40 - 160
1,2,3-Trichlorobenzene	25.0	ND	28.4	114	70 - 130
Methyl tert-Butyl Ether	50.0	ND	47.7	95	70 - 130

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B5H2410	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B5H2410-MSD1
		Client Sample ID:	1501444-02

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Acrolein	125	145	116	5	20	40 - 160
Acrylonitrile	125	160	128	2	20	70 - 130
Acetone	25.0	36.9	147	8	20	40 - 160
Dichlorodifluoromethane	25.0	17.8	71	10	20	40 - 160
Chloromethane	25.0	22.8	91	3	20	40 - 160
Vinyl chloride	25.0	27.5	110	5	20	70 - 130
Bromomethane	25.0	28.9	116	16	20	40 - 160
Chloroethane	25.0	29.4	118	6	20	40 - 160
Trichlorofluoromethane	25.0	27.8	111	7	20	40 - 160
Freon 113	25.0	26.8	107	5	20	70 - 130
1,1-Dichloroethene	25.0	24.9	99	0.6	20	70 - 130
Carbon disulfide	25.0	22.8	91	2	20	70 - 130
Methyl Acetate	25.0	29.7	119	2	20	70 - 130
Methylene Chloride	25.0	30.8	116	6	20	70 - 130
trans-1,2-Dichloroethene	25.0	26.2	105	1	20	70 - 130
1,1-Dichloroethane	25.0	28.6	114	6	20	70 - 130
2,2-Dichloropropane	25.0	23.5	94	0.3	20	70 - 130
2-Butanone	25.0	30.6	122	5	20	40 - 160
cis-1,2-Dichloroethene	25.0	43.3	123	3	20	70 - 130
Chloroform	25.0	26.7	107	0.4	20	70 - 130
Bromochloromethane	25.0	29.2	117	1	20	70 - 130
Cyclohexane	25.0	28.7	115	3	20	70 - 130
1,1,1-Trichloroethane	25.0	27.8	111	2	20	70 - 130
t-Butyl alcohol	250	328	131	1	20	40 - 160
1,1-Dichloropropene	25.0	23.6	95	2	20	70 - 130
Carbon Tetrachloride	25.0	24.5	98	4	20	70 - 130
1,2-Dichloroethane	25.0	26.7	107	0.8	20	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B5H2410	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B5H2410-MSD1
		Client Sample ID:	1501444-02

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	25.0	25.4	101	4	20	70 - 130
Trichloroethene	25.0	28.3	105	4	20	70 - 130
Methylcyclohexane	25.0	26.9	108	5	20	70 - 130
1,2-Dichloropropane	25.0	27.9	112	3	20	70 - 130
Bromodichloromethane	25.0	27.2	109	6	20	70 - 130
Dibromomethane	25.0	28.2	113	5	20	70 - 130
2-Chloroethyl vinyl ether	25.0	28.6	115	0.7	20	70 - 130
cis-1,3-Dichloropropene	25.0	26.6	106	3	20	70 - 130
Toluene	25.0	26.5	106	3	20	70 - 130
trans-1,3-Dichloropropene	25.0	27.0	108	0.2	20	70 - 130
1,1,2-Trichloroethane	25.0	28.3	113	3	20	70 - 130
4-Methyl-2-pentanone	25.0	30.4	122	4	20	40 - 160
1,2-Dibromoethane	25.0	28.8	115	3	20	70 - 130
2-Hexanone	25.0	27.5	110	5	20	40 - 160
1,3-Dichloropropane	25.0	26.0	104	0.8	20	70 - 130
Tetrachloroethene	25.0	28.5	95	1	20	70 - 130
Dibromochloromethane	25.0	26.9	107	5	20	70 - 130
Ethylbenzene	25.0	25.4	101	1	20	70 - 130
Chlorobenzene	25.0	26.6	106	1	20	70 - 130
1,1,1,2-Tetrachloroethane	25.0	26.3	105	0.1	20	70 - 130
m,p-Xylenes	50.0	50.7	101	1	20	70 - 130
o-Xylene	50.0	51.6	103	0.08	20	70 - 130
Styrene	50.0	53.8	108	0.6	20	70 - 130
Bromoform	25.0	26.2	105	0.7	20	70 - 130
Isopropylbenzene	25.0	26.3	105	5	20	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.8	107	4	20	70 - 130
1,2,3-Trichloropropane	25.0	27.3	109	3	20	70 - 130

Accredited Analytical Resources, LLC.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Analysis Method:	EPA 8260
Prep Batch:	B5H2410	Prep Method:	EPA 5030B
Percent Solids:		Laboratory ID:	B5H2410-MSD1
		Client Sample ID:	1501444-02

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
n-Propyl Benzene	25.0	26.0	104	5	20	70 - 130
Bromobenzene	25.0	25.5	102	3	20	70 - 130
1,3,5-Trimethylbenzene	25.0	26.6	106	4	20	70 - 130
2-Chlorotoluene	25.0	25.2	101	2	20	70 - 130
4-Chlorotoluene	25.0	26.2	105	3	20	70 - 130
tert-Butylbenzene	25.0	26.7	107	5	20	70 - 130
1,2,4-Trimethylbenzene	25.0	26.3	105	3	20	70 - 130
sec-Butylbenzene	25.0	27.0	108	4	20	70 - 130
p-Isopropyltoluene	25.0	27.1	108	4	20	70 - 130
1,3-Dichlorobenzene	25.0	26.0	104	1	20	70 - 130
1,4-Dichlorobenzene	25.0	25.9	103	2	20	70 - 130
n-Butyl Benzene	25.0	26.3	105	3	20	70 - 130
1,2-Dichlorobenzene	25.0	27.5	104	0.3	20	70 - 130
1,2-Dibromo-3-chloropropane	25.0	27.5	110	11	20	40 - 160
1,2,4-Trichlorobenzene	25.0	26.0	104	5	20	70 - 130
Hexachlorobutadiene	25.0	26.1	104	2	20	70 - 130
Naphthalene	25.0	29.2	117	0.7	20	40 - 160
1,2,3-Trichlorobenzene	25.0	25.6	102	10	20	70 - 130
Methyl tert-Butyl Ether	50.0	48.2	96	1	20	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Prep Method:	EPA 5030B
Prep Batch:	B5H2410	Lab Sample ID:	B5H2410-BS1

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acrolein	125	142	114	40 - 160
Acrylonitrile	125	143	115	70 - 130
Acetone	25.0	24.6	98	40 - 160
Dichlorodifluoromethane	25.0	19.5	78	40 - 160
Chloromethane	25.0	24.6	99	40 - 160
Vinyl chloride	25.0	28.6	114	70 - 130
Bromomethane	25.0	28.2	113	40 - 160
Chloroethane	25.0	31.2	125	40 - 160
Trichlorofluoromethane	25.0	28.8	115	40 - 160
Freon 113	25.0	26.5	106	70 - 130
1,1-Dichloroethene	25.0	25.1	100	70 - 130
Carbon disulfide	25.0	23.1	92	70 - 130
Methyl Acetate	25.0	28.2	113	70 - 130
Methylene Chloride	25.0	28.5	114	70 - 130
trans-1,2-Dichloroethene	25.0	26.6	107	70 - 130
1,1-Dichloroethane	25.0	28.2	113	70 - 130
2,2-Dichloropropane	25.0	25.9	104	70 - 130
2-Butanone	25.0	27.8	111	40 - 160
cis-1,2-Dichloroethene	25.0	28.2	113	70 - 130
Chloroform	25.0	27.0	108	70 - 130
Bromochloromethane	25.0	28.3	113	70 - 130
Cyclohexane	25.0	28.1	112	70 - 130
1,1,1-Trichloroethane	25.0	27.4	110	70 - 130
t-Butyl alcohol	250	289	116	40 - 160
1,1-Dichloropropene	25.0	23.7	95	70 - 130
Carbon Tetrachloride	25.0	24.4	98	70 - 130
1,2-Dichloroethane	25.0	25.0	100	70 - 130
Benzene	25.0	25.0	100	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Prep Method:	EPA 5030B
Prep Batch:	B5H2410	Lab Sample ID:	B5H2410-BS1

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Trichloroethene	25.0	24.9	100	70 - 130
Methylcyclohexane	25.0	25.8	103	70 - 130
1,2-Dichloropropane	25.0	27.2	109	70 - 130
Bromodichloromethane	25.0	25.6	102	70 - 130
Dibromomethane	25.0	25.3	101	70 - 130
2-Chloroethyl vinyl ether	25.0	26.1	104	70 - 130
cis-1,3-Dichloropropene	25.0	25.4	102	70 - 130
Toluene	25.0	27.0	108	70 - 130
trans-1,3-Dichloropropene	25.0	25.4	102	70 - 130
1,1,2-Trichloroethane	25.0	26.2	105	70 - 130
4-Methyl-2-pentanone	25.0	26.9	107	40 - 160
1,2-Dibromoethane	25.0	26.0	104	70 - 130
2-Hexanone	25.0	24.0	96	40 - 160
1,3-Dichloropropane	25.0	24.1	96	70 - 130
Tetrachloroethene	25.0	23.8	95	70 - 130
Dibromochloromethane	25.0	25.1	100	70 - 130
Ethylbenzene	25.0	25.5	102	70 - 130
Chlorobenzene	25.0	26.2	105	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.4	102	70 - 130
m,p-Xylenes	50.0	50.6	101	70 - 130
o-Xylene	50.0	51.9	104	70 - 130
Styrene	50.0	53.6	107	70 - 130
Bromoform	25.0	24.1	96	70 - 130
Isopropylbenzene	25.0	26.3	105	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.4	97	70 - 130
1,2,3-Trichloropropane	25.0	25.2	101	70 - 130
n-Propyl Benzene	25.0	25.7	103	70 - 130
Bromobenzene	25.0	24.9	100	70 - 130

Accredited Analytical Resources, LLC.

LCS / LCS DUPLICATE RECOVERY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Project: 255 East 138th Street
Work Order: 1501458

Matrix:	Aqueous	Prep Method:	EPA 5030B
Prep Batch:	B5H2410	Lab Sample ID:	B5H2410-BS1

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	25.0	26.9	108	70 - 130
2-Chlorotoluene	25.0	25.6	103	70 - 130
4-Chlorotoluene	25.0	25.7	103	70 - 130
tert-Butylbenzene	25.0	26.8	107	70 - 130
1,2,4-Trimethylbenzene	25.0	26.2	105	70 - 130
sec-Butylbenzene	25.0	27.0	108	70 - 130
p-Isopropyltoluene	25.0	27.0	108	70 - 130
1,3-Dichlorobenzene	25.0	26.0	104	70 - 130
1,4-Dichlorobenzene	25.0	25.1	101	70 - 130
n-Butyl Benzene	25.0	26.4	105	70 - 130
1,2-Dichlorobenzene	25.0	25.1	100	70 - 130
1,2-Dibromo-3-chloropropane	25.0	21.4	86	40 - 160
1,2,4-Trichlorobenzene	25.0	24.6	98	70 - 130
Hexachlorobutadiene	25.0	26.3	105	70 - 130
Naphthalene	25.0	23.7	95	40 - 160
1,2,3-Trichlorobenzene	25.0	24.5	98	70 - 130
Methyl tert-Butyl Ether	50.0	46.1	92	70 - 130

* Values outside of QC limits

Accredited Analytical Resources, LLC.

METHOD BLANK SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Blank ID:	B5H2410-BLK1	Batch:	B5H2410

Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B5H2410-BS1	M17092.D	08/24/2015 18:01
TMW-1	1501458-01	M17097.D	08/24/2015 20:48
TMW-1	1501458-01RE1	M17098.D	08/24/2015 21:22
MW 107 RRMS	B5H2410-MS1	M17099.D	08/24/2015 21:55
MW 107 RRMSD	B5H2410-MSD1	M17100.D	08/24/2015 22:28

Accredited Analytical Resources, LLC.

INSTRUMENT PERFORMANCE CHECK

EPA 8260

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1501458
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Lab File ID:	M16949.D	Injection Date:	08/13/15
Instrument ID:	GC/MS M	Injection Time:	12:14
Sequence:	S5H1404	Lab Sample ID:	S5H1404-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	15.9	PASS
75	30 - 60% of 95	52.1	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.45	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	96.6	PASS
175	5 - 9% of 174	6.69	PASS
176	95 - 101% of 174	97.8	PASS
177	5 - 9% of 176	6.1	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
1 ppb 8260	S5H1404-CAL1	M16950.D	08/13/2015	13:06:00
5 ppb 8260	S5H1404-CAL2	M16951.D	08/13/2015	13:40:00
10 ppb 8260	S5H1404-CAL3	M16952.D	08/13/2015	14:14:00
25 ppb 8260	S5H1404-CAL4	M16953.D	08/13/2015	14:47:00
50 ppb 8260	S5H1404-CAL5	M16954.D	08/13/2015	15:21:00
100 ppb 8260	S5H1404-CAL6	M16955.D	08/13/2015	15:54:00

Accredited Analytical Resources, LLC.

INSTRUMENT PERFORMANCE CHECK

EPA 8260

Laboratory:	Accredited Analytical Resources LLC	Work Order:	1501458
Client:	BRINKERHOFF ENVIRONMENTAL	Project:	255 East 138th Street
Lab File ID:	M17088.D	Injection Date:	08/24/15
Instrument ID:	GC/MS M	Injection Time:	15:01
Sequence:	S5H2407	Lab Sample ID:	S5H2407-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	15.9	PASS
75	30 - 60% of 95	51.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.52	PASS
173	Less than 2% of 174	0.566	PASS
174	50 - 100% of 95	85.2	PASS
175	5 - 9% of 174	6.92	PASS
176	95 - 101% of 174	98.8	PASS
177	5 - 9% of 176	6.62	PASS

Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Calibration Check	S5H2407-CCV1	M17089.D	08/24/2015	15:54:00
VBLK01	B5H2410-BLK1	M17091.D	08/24/2015	17:30:00
LCS	B5H2410-BS1	M17092.D	08/24/2015	18:01:00
TMW-1	1501458-01	M17097.D	08/24/2015	20:48:00
TMW-1	1501458-01RE1	M17098.D	08/24/2015	21:22:00
MW 107 RRMS	B5H2410-MS1	M17099.D	08/24/2015	21:55:00
MW 107 RRMSD	B5H2410-MSD1	M17100.D	08/24/2015	22:28:00

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Sequence: S5H2407 Instrument: GC/MS M
Calibration: 15H2701

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S5H2407-CCV1)			*Lab File ID: M17089.D*			*Analyzed: 08/24/15 15:54*			
Pentafluorobenzene	952158	6.59	1139833	6.59	84	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1630432	7.69	1680925	7.68	97	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1573479	12.46	1579339	12.45	100	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	928526	18.87	917707	18.85	101	50 - 200	0.0200	+/-0.50	
Blank (B5H2410-BLK1)			*Lab File ID: M17091.D*			*Analyzed: 08/24/15 17:30*			
Pentafluorobenzene	1139699	6.6	952158	6.59	120	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1731541	7.7	1630432	7.69	106	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1461038	12.46	1573479	12.46	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	752006	18.85	928526	18.87	81	50 - 200	-0.0200	+/-0.50	
LCS (B5H2410-BS1)			*Lab File ID: M17092.D*			*Analyzed: 08/24/15 18:01*			
Pentafluorobenzene	915613	6.6	952158	6.59	96	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1572212	7.7	1630432	7.69	96	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1529449	12.47	1573479	12.46	97	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	877319	18.87	928526	18.87	94	50 - 200	0.0000	+/-0.50	
TMW-1 (1501458-01)			*Lab File ID: M17097.D*			*Analyzed: 08/24/15 20:48*			
Pentafluorobenzene	1134902	6.6	952158	6.59	119	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1781764	7.69	1630432	7.69	109	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1558174	12.46	1573479	12.46	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	875574	18.86	928526	18.87	94	50 - 200	-0.0100	+/-0.50	
TMW-1 (1501458-01RE1)			*Lab File ID: M17098.D*			*Analyzed: 08/24/15 21:22*			
Pentafluorobenzene	1076593	6.6	952158	6.59	113	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1716367	7.7	1630432	7.69	105	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1502636	12.46	1573479	12.46	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	821905	18.86	928526	18.87	89	50 - 200	-0.0100	+/-0.50	

Accredited Analytical Resources, LLC.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Sequence: S5H2407 Instrument: GC/MS M
Calibration: 15H2701

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (B5H2410-MS1)			*Lab File ID: M17099.D*			*Analyzed: 08/24/15 21:55*			
Pentafluorobenzene	936862	6.6	952158	6.59	98	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1580429	7.7	1630432	7.69	97	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1553656	12.46	1573479	12.46	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	918945	18.87	928526	18.87	99	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B5H2410-MSD1)			*Lab File ID: M17100.D*			*Analyzed: 08/24/15 22:28*			
Pentafluorobenzene	882606	6.6	952158	6.59	93	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1476837	7.7	1630432	7.69	91	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	1491073	12.46	1573479	12.46	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	859594	18.86	928526	18.87	93	50 - 200	-0.0100	+/-0.50	

* Values outside of QC limits

Accredited Analytical Resources, LLC.

VOLATILES CALIBRATION DATA

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration: 15H2701 Instrument: GC/MS M
Calibration Date: 8/13/2015 12:43:35PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Acrolein	5	1.418376E-02	25	1.361939E-02	50	1.359103E-02	125	1.183644E-02	250	1.105567E-02	500	1.244766E-02
Acrylonitrile	5	6.752359E-02	25	6.469325E-02	50	5.605646E-02	125	0.0569193	250	5.435432E-02	500	6.181562E-02
Acetone	1	0.1920179	5	6.303527E-02	10	5.710266E-02	25	3.874487E-02	50	4.644504E-02	100	4.470219E-02
Dichlorodifluoromethane	1	0.3018752	5	0.4096173	10	0.4124595	25	0.3725036	50	0.3543631	100	0.3606048
Chloromethane	1	0.4158349	5	0.4324344	10	0.429473	25	0.3520679	50	0.3517133	100	0.3520999
Vinyl chloride	1	0.4052276	5	0.5024441	10	0.484106	25	0.4419462	50	0.4330746	100	0.4627179
Bromomethane	1	0.1671997	5	0.1687891	10	0.1608152	25	0.1534272	50	0.1620141	100	0.1803384
Chloroethane	1	0.263322	5	0.2782238	10	0.2746894	25	0.2342191	50	0.2409617	100	0.1927087
Trichlorofluoromethane	1	0.5835786	5	0.5951309	10	0.5999958	25	0.5592976	50	0.5565483	100	0.5773766
Freon 113	1	0.2296192	5	0.2257457	10	0.214878	25	0.1992951	50	0.2047223	100	0.2224982
1,1-Dichloroethene	1	0.5330356	5	0.5700232	10	0.5201047	25	0.4986154	50	0.4946412	100	0.5286698
Carbon disulfide	1	1.053968	5	1.204448	10	1.108814	25	1.033245	50	1.045709	100	1.15454
Methyl Acetate	1	0.2273753	5	0.2750842	10	0.2338084	25	0.2325533	50	0.2259211	100	0.2569792
Methylene Chloride	1	1.115232	5	0.5978414	10	0.5037383	25	0.4197645	50	0.4195039	100	0.4533997
trans-1,2-Dichloroethene	1	0.6385639	5	0.6991494	10	0.6595133	25	0.6014018	50	0.5932711	100	0.6493641
1,1-Dichloroethane	1	0.8514789	5	0.9435743	10	0.8858491	25	0.810793	50	0.831271	100	0.9146797
Vinyl acetate	1	0.4447781	5	0.4677215	10	0.4418805	25	0.4211693	50	0.4242539	100	0.4747076
2,2-Dichloropropane	1	0.82725	5	0.811691	10	0.7539262	25	0.6983818	50	0.7066249	100	0.7913087
2-Butanone	1	8.290859E-02	5	6.757444E-02	10	8.265027E-02	25	6.970111E-02	50	7.413324E-02	100	8.089342E-02
cis-1,2-Dichloroethene	1	0.6193439	5	0.6911253	10	0.5983267	25	0.60615	50	0.588681	100	0.6477638
Chloroform	1	0.8998461	5	0.8379744	10	0.7484803	25	0.6721484	50	0.6816171	100	0.76439
Bromochloromethane	1	0.3731113	5	0.3918991	10	0.3663673	25	0.3409668	50	0.359641	100	0.3879611
Cyclohexane	1	0.6490578	5	0.6806988	10	0.6123265	25	0.5865336	50	0.5719096	100	0.6136135
1,1,1-Trichloroethane	1	0.5397218	5	0.6286592	10	0.5638107	25	0.5423758	50	0.5359945	100	0.6046219
t-Butyl alcohol	10	1.919499E-02	50	1.863021E-02	100	0.0174655	250	1.896218E-02	500	0.0178547	1000	1.993132E-02
1,1-Dichloropropene	1	0.2020189	5	0.1614289	10	0.1611241	25	0.1452665	50	0.1418084	100	0.1546289

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration: 15H2701 Instrument: GC/MS M
Calibration Date: 8/13/2015 12:43:35PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Carbon Tetrachloride	1	0.4057088	5	0.3877415	10	0.3836652	25	0.3596318	50	0.3479233	100	0.4004396
1,2-Dichloroethane	1	0.277848	5	0.3032849	10	0.286378	25	0.2690022	50	0.2697742	100	0.3020417
Benzene	1	1.31864	5	1.301291	10	1.31119	25	1.169706	50	1.142495	100	1.269477
Trichloroethene	1	0.255592	5	0.2879195	10	0.2875634	25	0.2513236	50	0.2547085	100	0.2814439
Methylcyclohexane	1	0.444819	5	0.4904661	10	0.4984979	25	0.4611549	50	0.4550928	100	0.5062903
1,2-Dichloropropane	1	0.2885079	5	0.3216603	10	0.3290093	25	0.3011023	50	0.2959459	100	0.3323531
Bromodichloromethane	1	0.3099285	5	0.3349525	10	0.3450689	25	0.3205614	50	0.3227992	100	0.3771171
Dibromomethane	1	0.1790426	5	0.1726682	10	0.1775957	25	0.1705704	50	0.1619223	100	0.1949969
2-Chloroethyl vinyl ether	1	0.126233	5	0.1216103	10	0.1301203	25	0.1254474	50	0.1276131	100	0.1460486
cis-1,3-Dichloropropene	1	0.4995301	5	0.5185409	10	0.5523164	25	0.5049918	50	0.4993023	100	0.5688787
Toluene	1	1.229818	5	1.134054	10	1.181049	25	1.056522	50	1.036652	100	1.139382
trans-1,3-Dichloropropene	1	0.3619746	5	0.4104055	10	0.4358523	25	0.402512	50	0.3954866	100	0.4630968
1,1,2-Trichloroethane	1	0.1634561	5	0.1941056	10	0.1837456	25	0.1719033	50	0.1660072	100	0.1811763
4-Methyl-2-pentanone	1	0.1087595	5	0.1099536	10	0.1148594	25	0.103577	50	0.1021107	100	0.1129034
1,2-Dibromoethane	1	0.1848047	5	0.2015288	10	0.205082	25	0.1825092	50	0.1849749	100	0.2137524
2-Hexanone	1	8.410196E-02	5	7.732736E-02	10	8.088669E-02	25	8.400648E-02	50	8.726853E-02	100	9.363486E-02
1,3-Dichloropropane	1	0.4204163	5	0.4674075	10	0.465288	25	0.4535031	50	0.4505009	100	0.5029428
Tetrachloroethene	1	0.3945687	5	0.4307047	10	0.4521306	25	0.4270394	50	0.4202394	100	0.4678569
Dibromochloromethane	1	0.264957	5	0.3070432	10	0.3023338	25	0.3128204	50	0.3253117	100	0.3690365
Ethylbenzene	1	1.450782	5	1.406553	10	1.412292	25	1.368282	50	1.35512	100	1.470025
Chlorobenzene	1	0.8723825	5	0.909462	10	0.9070693	25	0.8737644	50	0.8757942	100	0.9617871
1,1,1,2-Tetrachloroethane	1	0.3165742	5	0.365876	10	0.3648457	25	0.3617089	50	0.3608368	100	0.3996218
m,p-Xylenes	2	1.04699	10	1.056673	20	1.073416	50	1.015947	100	1.000952	200	1.065843
o-Xylene	2	1.0423	10	1.051398	20	1.039926	50	0.9959538	100	0.9961985	200	1.065963
Styrene	2	0.8764178	10	0.9085807	20	0.924321	50	0.8715522	100	0.8668409	200	0.9249965
Bromoform	1	0.1260906	5	0.1307118	10	0.1381163	25	0.1438391	50	0.1507688	100	0.1770352

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration: 15H2701 Instrument: GC/MS M
Calibration Date: 8/13/2015 12:43:35PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Isopropylbenzene	1	2.329549	5	2.528951	10	2.494178	25	2.401072	50	2.360299	100	2.628915
1,1,2,2-Tetrachloroethane	1	0.3437907	5	0.3839093	10	0.3699274	25	0.3582781	50	0.3603578	100	0.394693
1,2,3-Trichloropropane	1	0.2810644	5	0.3035616	10	0.2960885	25	0.2955969	50	0.3025496	100	0.3359582
n-Propyl Benzene	1	2.736727	5	2.903511	10	2.894905	25	2.801876	50	2.752223	100	3.022825
Bromobenzene	1	0.9203379	5	0.9583966	10	0.9573889	25	0.9297031	50	0.9217049	100	1.039409
1,3,5-Trimethylbenzene	1	1.740541	5	1.89981	10	1.896621	25	1.842505	50	1.817037	100	1.970101
2-Chlorotoluene	1	1.522574	5	1.597842	10	1.574364	25	1.529835	50	1.504337	100	1.655257
4-Chlorotoluene	1	1.729033	5	1.861442	10	1.806173	25	1.764793	50	1.71833	100	1.893631
tert-Butylbenzene	1	1.875756	5	1.91925	10	1.961718	25	1.900251	50	1.865715	100	2.045539
1,2,4-Trimethylbenzene	1	1.925625	5	1.894952	10	1.958986	25	1.874055	50	1.852759	100	2.014451
sec-Butylbenzene	1	2.450927	5	2.642501	10	2.671637	25	2.5542	50	2.486284	100	2.708957
p-Isopropyltoluene	1	2.380635	5	2.554376	10	2.540272	25	2.501905	50	2.420668	100	2.624556
1,3-Dichlorobenzene	1	1.444371	5	1.631913	10	1.553301	25	1.509019	50	1.509084	100	1.645678
1,4-Dichlorobenzene	1	1.545563	5	1.595424	10	1.589835	25	1.503802	50	1.493088	100	1.624298
n-Butyl Benzene	1	1.986552	5	2.005913	10	2.051755	25	1.979213	50	1.92341	100	2.048609
1,2-Dichlorobenzene	1	1.358046	5	1.316595	10	1.382685	25	1.290726	50	1.274857	100	1.353299
1,2-Dibromo-3-chloropropane	1	0.0867215	5	0.0726367	10	7.987571E-02	25	7.964557E-02	50	8.126601E-02	100	9.095439E-02
1,2,4-Trichlorobenzene	1	0.5755683	5	0.6361152	10	0.6748695	25	0.609987	50	0.6499264	100	0.6759509
Hexachlorobutadiene	1	0.3823101	5	0.3883337	10	0.3944396	25	0.3747078	50	0.3770722	100	0.415865
Naphthalene	1	1.277304	5	1.088176	10	1.252622	25	1.08828	50	1.230617	100	1.208338
1,2,3-Trichlorobenzene	1	0.438687	5	0.4105765	10	0.4958064	25	0.4021922	50	0.4835429	100	0.458537
Methyl tert-Butyl Ether	2	1.053674	10	1.215167	20	1.187381	50	1.134694	100	1.124165	200	1.25487
1,2-Dichloroethane-d4	1	0.1990226	5	0.2201681	10	0.2215462	25	0.2067017	50	0.1969233	100	0.2240865
Toluene-d8	1	0.8362955	5	0.8254476	10	0.8301099	25	0.784211	50	0.7460116	100	0.8391692
Bromofluorobenzene	1	0.3606781	5	0.3235886	10	0.323087	25	0.2889756	50	0.2873782	100	0.3183068

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15H2701	Instrument:	GC/MS M
		Calibration Date:	8/13/2015 12:43:35PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Acrolein	1.278899E-02	9.452192		
Acrylonitrile	6.022709E-02	8.739797		
Acetone	7.367466E-02	79.59468		
Dichlorodifluoromethane	0.3685706	11.08104		
Chloromethane	0.3889372	10.51366	SPCC (0.1)	
Vinyl chloride	0.4549194	7.794145	CCC (20)	
Bromomethane	0.1654306	5.498504		
Chloroethane	0.2473541	12.98062		
Trichlorofluoromethane	0.5786546	3.106954		
Freon 113	0.2161264	5.591091		
1,1-Dichloroethene	0.5241816	5.219601	CCC (20)	
Carbon disulfide	1.100121	6.229626		
Methyl Acetate	0.2419536	8.157217		
Methylene Chloride	0.5849133	45.87005		
trans-1,2-Dichloroethene	0.6402106	6.106667		
1,1-Dichloroethane	0.872941	5.831586	SPCC (0.1)	
Vinyl acetate	0.4457518	4.918627		
2,2-Dichloropropane	0.7648638	7.092785		
2-Butanone	7.631018E-02	8.877679		
cis-1,2-Dichloroethene	0.6252318	6.114777		
Chloroform	0.7674094	11.55585	CCC (20)	
Bromochloromethane	0.3699911	5.092812		
Cyclohexane	0.6190233	6.484092		
1,1,1-Trichloroethane	0.5691973	6.808938		
t-Butyl alcohol	1.867315E-02	4.831047		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15H2701	Instrument:	GC/MS M
		Calibration Date:	8/13/2015 12:43:35PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
1,1-Dichloropropene	0.161046	13.43067		
Carbon Tetrachloride	0.3808517	5.977727		
1,2-Dichloroethane	0.2847215	5.361367		
Benzene	1.252133	6.128497		
Trichloroethene	0.2697585	6.527788		
Methylcyclohexane	0.4760535	5.365935		
1,2-Dichloropropane	0.3114298	5.961231	CCC (20)	
Bromodichloromethane	0.3350713	7.139141		
Dibromomethane	0.1761327	6.277938		
2-Chloroethyl vinyl ether	0.1295121	6.616399		
cis-1,3-Dichloropropene	0.5239267	5.672157		
Toluene	1.129579	6.479632	CCC (20)	
trans-1,3-Dichloropropene	0.4115546	8.449615		
1,1,2-Trichloroethane	0.1767323	6.624634		
4-Methyl-2-pentanone	0.1086939	4.633918		
1,2-Dibromoethane	0.195442	6.69171		
2-Hexanone	8.453765E-02	6.607495		
1,3-Dichloropropane	0.4600098	5.854312		
Tetrachloroethene	0.43209	5.906411		
Dibromochloromethane	0.3135838	10.81144		
Ethylbenzene	1.410509	3.175958	CCC (20)	
Chlorobenzene	0.9000432	3.846929	SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.3615772	7.319746		
m,p-Xylenes	1.043304	2.761142		
o-Xylene	1.031957	2.835085		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15H2701	Instrument:	GC/MS M
		Calibration Date:	8/13/2015 12:43:35PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Styrene	0.8954515	3.009332		
Bromoform	0.144427	12.64638	SPCC (0.1)	
Isopropylbenzene	2.457161	4.634371		
1,1,2,2-Tetrachloroethane	0.3684927	5.014038	SPCC (0.3)	
1,2,3-Trichloropropane	0.3024699	6.040016		
n-Propyl Benzene	2.852011	3.822682		
Bromobenzene	0.9544901	4.706525		
1,3,5-Trimethylbenzene	1.861102	4.262299		
2-Chlorotoluene	1.564035	3.619454		
4-Chlorotoluene	1.795567	3.970084		
tert-Butylbenzene	1.928038	3.472163		
1,2,4-Trimethylbenzene	1.920138	3.101418		
sec-Butylbenzene	2.585751	4.05032		
p-Isopropyltoluene	2.503735	3.597058		
1,3-Dichlorobenzene	1.548894	5.032425		
1,4-Dichlorobenzene	1.558668	3.408465		
n-Butyl Benzene	1.999242	2.404191		
1,2-Dichlorobenzene	1.329368	3.16755		
1,2-Dibromo-3-chloropropane	8.184998E-02	7.738687		
1,2,4-Trichlorobenzene	0.6370696	6.128889		
Hexachlorobutadiene	0.3887881	3.888528		
Naphthalene	1.19089	6.948793		
1,2,3-Trichlorobenzene	0.4482237	8.492619		
Methyl tert-Butyl Ether	1.161659	6.208389		
1,2-Dichloroethane-d4	0.2114081	5.698338		

Accredited Analytical Resources, LLC.

INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Calibration:	15H2701	Instrument:	GC/MS M
		Calibration Date:	8/13/2015 12:43:35PM

COMPOUND	Mean RF	RF RSD	LIMIT	Q
Toluene-d8	0.8102075	4.599849		
Bromofluorobenzene	0.3170024	8.526366		

* Values outside of QC limits

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS M	Calibration:	15H2701
Lab File ID:	M17089.D	Calibration Date:	08/13/15 12:43
Sequence:	S5H2407	Injection Date:	08/24/15
Lab Sample ID:	S5H2407-CCV1	Injection Time:	15:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acrolein	A	125	129	1.278899E-02	1.322764E-02		3.4	
Acrylonitrile	A	125	146	6.022709E-02	7.017806E-02		16.5	
Acetone	L	25.0	37.5	7.367466E-02	6.876065E-02		-6.7	
Dichlorodifluoromethane	A	25.0	20.0	0.3685706	0.2956495		-19.8	
Chloromethane	A	25.0	22.0	0.3889372	0.3420409	0.1	-12.1	
Vinyl chloride	A	25.0	27.2	0.4549194	0.4945755		8.7	20
Bromomethane	A	25.0	27.7	0.1654306	0.1830684		10.7	
Chloroethane	L	25.0	27.8	0.2473541	0.2755204		11.4	
Trichlorofluoromethane	A	25.0	27.4	0.5786546	0.6341448		9.6	
Freon 113	A	25.0	27.2	0.2161264	0.2354063		8.9	
1,1-Dichloroethene	A	25.0	25.5	0.5241816	0.534928		2.1	20
Carbon disulfide	A	25.0	23.7	1.100121	1.041529		-5.3	
Methyl Acetate	A	25.0	29.5	0.2419536	0.2853455		17.9	
Methylene Chloride	L	25.0	27.8	0.5849133	0.5025185		-14.1	
trans-1,2-Dichloroethene	A	25.0	26.7	0.6402106	0.6832416		6.7	
1,1-Dichloroethane	A	25.0	28.5	0.872941	0.9935935	0.1	13.8	
Vinyl acetate	A	25.0	25.6	0.4457518	0.4564946		2.4	
2,2-Dichloropropane	A	25.0	25.4	0.7648638	0.7763092		1.5	
2-Butanone	A	25.0	29.8	7.631018E-02	9.101956E-02		19.3	
cis-1,2-Dichloroethene	A	25.0	29.6	0.6252318	0.7395632		18.3	
Chloroform	A	25.0	27.1	0.7674094	0.8317296		8.4	20
Bromochloromethane	A	25.0	28.6	0.3699911	0.4235274		14.5	
Cyclohexane	A	25.0	28.6	0.6190233	0.7069678		14.2	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS M	Calibration:	15H2701
Lab File ID:	M17089.D	Calibration Date:	08/13/15 12:43
Sequence:	S5H2407	Injection Date:	08/24/15
Lab Sample ID:	S5H2407-CCV1	Injection Time:	15:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1-Trichloroethane	A	25.0	27.4	0.5691973	0.6237641		9.6	
t-Butyl alcohol	A	250	296	1.867315E-02	2.208016E-02		18.2	
1,1-Dichloropropene	A	25.0	23.8	0.161046	0.1533594		-4.8	
Carbon Tetrachloride	A	25.0	24.0	0.3808517	0.3662968		-3.8	
1,2-Dichloroethane	A	25.0	25.4	0.2847215	0.2898355		1.8	
Benzene	A	25.0	25.0	1.252133	1.250089		-0.2	
Trichloroethene	A	25.0	25.6	0.2697585	0.2762311		2.4	
Methylcyclohexane	A	25.0	25.8	0.4760535	0.4920579		3.4	
1,2-Dichloropropane	A	25.0	27.2	0.3114298	0.3388863		8.8	20
Bromodichloromethane	A	25.0	25.5	0.3350713	0.3414788		1.9	
Dibromomethane	A	25.0	26.3	0.1761327	0.1851718		5.1	
2-Chloroethyl vinyl ether	A	25.0	27.3	0.1295121	0.1414766		9.2	
cis-1,3-Dichloropropene	A	25.0	25.8	0.5239267	0.5410566		3.3	
Toluene	A	25.0	26.5	1.129579	1.198476		6.1	20
trans-1,3-Dichloropropene	A	25.0	27.0	0.4115546	0.4444301		8.0	
1,1,2-Trichloroethane	A	25.0	26.6	0.1767323	0.1882986		6.5	
4-Methyl-2-pentanone	A	25.0	27.2	0.1086939	0.1181123		8.7	
1,2-Dibromoethane	A	25.0	26.2	0.195442	0.2051242		5.0	
2-Hexanone	A	25.0	25.9	8.453765E-02	8.752452E-02		3.5	
1,3-Dichloropropane	A	25.0	24.7	0.4600098	0.454137		-1.3	
Tetrachloroethene	A	25.0	24.1	0.43209	0.4162877		-3.7	
Dibromochloromethane	A	25.0	25.8	0.3135838	0.3229303		3.0	
Ethylbenzene	A	25.0	25.4	1.410509	1.434859		1.7	20

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS M	Calibration:	15H2701
Lab File ID:	M17089.D	Calibration Date:	08/13/15 12:43
Sequence:	S5H2407	Injection Date:	08/24/15
Lab Sample ID:	S5H2407-CCV1	Injection Time:	15:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Chlorobenzene	A	25.0	25.8	0.9000432	0.9280709	0.3	3.1	
1,1,1,2-Tetrachloroethane	A	25.0	26.3	0.3615772	0.3806692		5.3	
m,p-Xylenes	A	50.0	51.4	1.043304	1.07154		2.7	
o-Xylene	A	50.0	51.7	1.031957	1.066626		3.4	
Styrene	A	50.0	53.7	0.8954515	0.9615454		7.4	
Bromoform	A	25.0	26.3	0.144427	0.1518717	0.1	5.2	
Isopropylbenzene	A	25.0	25.5	2.457161	2.508911		2.1	
1,1,2,2-Tetrachloroethane	A	25.0	24.7	0.3684927	0.3645348	0.3	-1.1	
1,2,3-Trichloropropane	A	25.0	25.8	0.3024699	0.3124748		3.3	
n-Propyl Benzene	A	25.0	25.3	2.852011	2.886621		1.2	
Bromobenzene	A	25.0	25.2	0.9544901	0.9610878		0.7	
1,3,5-Trimethylbenzene	A	25.0	25.6	1.861102	1.905601		2.4	
2-Chlorotoluene	A	25.0	25.1	1.564035	1.570378		0.4	
4-Chlorotoluene	A	25.0	25.5	1.795567	1.829934		1.9	
tert-Butylbenzene	A	25.0	26.1	1.928038	2.010307		4.3	
1,2,4-Trimethylbenzene	A	25.0	25.5	1.920138	1.95549		1.8	
sec-Butylbenzene	A	25.0	26.2	2.585751	2.705144		4.6	
p-Isopropyltoluene	A	25.0	26.2	2.503735	2.627835		5.0	
1,3-Dichlorobenzene	A	25.0	25.6	1.548894	1.588898		2.6	
1,4-Dichlorobenzene	A	25.0	25.5	1.558668	1.591553		2.1	
n-Butyl Benzene	A	25.0	25.9	1.999242	2.073175		3.7	
1,2-Dichlorobenzene	A	25.0	25.4	1.329368	1.348437		1.4	
1,2-Dibromo-3-chloropropane	A	25.0	24.6	8.184998E-02	8.063533E-02		-1.5	

Accredited Analytical Resources, LLC.

CONTINUING CALIBRATION VERIFICATION

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Work Order: 1501458
Project: 255 East 138th Street

Instrument ID:	GC/MS M	Calibration:	15H2701
Lab File ID:	M17089.D	Calibration Date:	08/13/15 12:43
Sequence:	S5H2407	Injection Date:	08/24/15
Lab Sample ID:	S5H2407-CCV1	Injection Time:	15:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2,4-Trichlorobenzene	A	25.0	26.6	0.6370696	0.6782136		6.5	
Hexachlorobutadiene	A	25.0	25.9	0.3887881	0.4022031		3.5	
Naphthalene	A	25.0	26.1	1.19089	1.243929		4.5	
1,2,3-Trichlorobenzene	A	25.0	27.6	0.4482237	0.4950491		10.4	
Methyl tert-Butyl Ether	A	50.0	47.1	1.161659	1.09453		-5.8	
1,2-Dichloroethane-d4	A	25.0	27.2	0.2114081	0.2301629		8.9	
Toluene-d8	A	25.0	28.3	0.8102075	0.9180892		13.3	
Bromofluorobenzene	A	25.0	28.7	0.3170024	0.3635766		14.7	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Accredited Analytical Resources, LLC.

28 October 2016 AAR Work Order: 1601998

Sean Harrison
BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

Enclosed are the results of analyses for samples received by the laboratory on 10/18/2016 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Miguel
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	10/28/2016 14:49

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SMW-1	1601998-01	Ground Water	10/18/2016 09:40	10/18/2016 15:45
TMW-2	1601998-02	Ground Water	10/18/2016 10:20	10/18/2016 15:45
Trip Blank	1601998-03	Aqueous	10/18/2016 13:18	10/18/2016 15:45

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Indicates estimated value for TICs and all results when detected below the RL
ND	Indicates compound analyzed for but not detected
U	Indicates compound analyzed for but not detected
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
MDL	Method Detection Limit

Methodology Summary

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	10/28/2016 14:49

Condition of Samples on Receipt

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

Accredited Analytical Resources LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	10/28/2016 14:49

Client ID: SMW-1

Lab ID: 1601998-01 (Ground Water)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5030B

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	6.00	10.0	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.00	10.0	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
67-64-1	Acetone	ND	1.00	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.00	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.00	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.00	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.00	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	0.400	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	0.400	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	0.400	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
78-93-3	2-Butanone	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
67-66-3	Chloroform	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
71-43-2	Benzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	10/28/2016 14:49

Client ID: SMW-1

Lab ID: 1601998-01 (Ground Water)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
108-88-3	Toluene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
100-41-4	**Ethylbenzene**	**0.500**	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	J
108-90-7	Chlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
108-38-3/106-4	**m,p-Xylenes**	**1.03**	1.00	2.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	J
95-47-6	o-Xylene	ND	1.00	2.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
100-42-5	Styrene	ND	1.00	2.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
75-25-2	Bromoform	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
98-82-8	**Isopropylbenzene**	**2.98**	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
103-65-1	**n-Propyl Benzene**	**5.57**	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	
108-86-1	Bromobenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	10/28/2016 14:49

Client ID: SMW-1

Lab ID: 1601998-01 (Ground Water)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
98-06-6	tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
135-98-8	**sec-Butylbenzene**	**0.680**	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	J
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
104-51-8	**n-Butyl Benzene**	**0.990**	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	J
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
91-20-3	Naphthalene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 17:35	10/20/16 17:35/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*90 %*	*70-130*		*10/20/16 17:35*	*10/20/16 17:35/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*97 %*	*70-130*		*10/20/16 17:35*	*10/20/16 17:35/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*109 %*	*70-130*		*10/20/16 17:35*	*10/20/16 17:35/SG*	*EPA 8260*	

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	10/28/2016 14:49

Client ID: TMW-2

Lab ID: 1601998-02 (Ground Water)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5030B

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	6.00	10.0	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.00	10.0	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
67-64-1	Acetone	ND	1.00	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.00	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.00	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.00	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.00	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	0.400	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	0.400	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	0.400	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
78-93-3	**2-Butanone**	**0.650**	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	J
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
67-66-3	Chloroform	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
71-43-2	**Benzene**	**0.690**	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	J
79-01-6	Trichloroethene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U

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BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	10/28/2016 14:49

Client ID: TMW-2

Lab ID: 1601998-02 (Ground Water)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
108-88-3	Toluene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	1.00	2.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
95-47-6	o-Xylene	ND	1.00	2.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
100-42-5	Styrene	ND	1.00	2.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
75-25-2	Bromoform	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
98-82-8	**Isopropylbenzene**	**0.560**	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
103-65-1	**n-Propyl Benzene**	**0.870**	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	J
108-86-1	Bromobenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	10/28/2016 14:49

Client ID: TMW-2

Lab ID: 1601998-02 (Ground Water)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
98-06-6	tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
91-20-3	Naphthalene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 18:39	10/20/16 18:39/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*90 %*	*70-130*		*10/20/16 18:39*	*10/20/16 18:39/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*97 %*	*70-130*		*10/20/16 18:39*	*10/20/16 18:39/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*110 %*	*70-130*		*10/20/16 18:39*	*10/20/16 18:39/SG*	*EPA 8260*	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	10/28/2016 14:49

Client ID: Trip Blank

Lab ID: 1601998-03 (Aqueous)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

Sample Prepared by Method:EPA 5030B

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
107-02-8	Acrolein	ND	6.00	10.0	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
107-13-1	Acrylonitrile	ND	2.00	10.0	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
67-64-1	Acetone	ND	1.00	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
74-87-3	Chloromethane	ND	1.00	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-01-4	Vinyl chloride	ND	1.00	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
74-83-9	Bromomethane	ND	1.00	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-00-3	Chloroethane	ND	1.00	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-15-0	Carbon disulfide	ND	0.400	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-09-2	Methylene Chloride	ND	0.400	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
108-05-4	Vinyl acetate	ND	0.400	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
78-93-3	2-Butanone	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
67-66-3	Chloroform	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
74-97-5	Bromochloromethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
71-43-2	Benzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
79-01-6	Trichloroethene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	10/28/2016 14:49

Client ID: Trip Blank

Lab ID: 1601998-03 (Aqueous)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
75-27-4	Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
74-95-3	Dibromomethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
108-88-3	Toluene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
591-78-6	2-Hexanone	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
100-41-4	Ethylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
108-90-7	Chlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
108-38-3/106-4	m,p-Xylenes	ND	1.00	2.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
95-47-6	o-Xylene	ND	1.00	2.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
100-42-5	Styrene	ND	1.00	2.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
75-25-2	Bromoform	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
98-82-8	Isopropylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
103-65-1	n-Propyl Benzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
108-86-1	Bromobenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

Accredited Analytical Resources, LLC.

BRINKERHOFF ENVIRONMENTAL		
1805 Atlantic Ave.	Project: 255 East 138th Street, Bronx, NY	**Reported:**
Manasquan NJ, 08736	Project Manager: Sean Harrison	10/28/2016 14:49

Client ID: Trip Blank

Lab ID: 1601998-03 (Aqueous)

Accredited Analytical Resources LLC

Volatile Organic Compounds EPA Method SW846 8260

CAS #	Analyte	Result	MDL	RL	Units	Dilution	Prepared Date	Analyzed Date/By	Method	Notes
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
135-98-8	sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
91-20-3	Naphthalene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	ug/L	1	10/20/16 14:43	10/20/16 14:43/SG	EPA 8260	U
Surrogate: 1,2-Dichloroethane-d4				*93 %*	*70-130*		*10/20/16 14:43*	*10/20/16 14:43/SG*	*EPA 8260*	
Surrogate: Toluene-d8				*97 %*	*70-130*		*10/20/16 14:43*	*10/20/16 14:43/SG*	*EPA 8260*	
Surrogate: Bromofluorobenzene				*108 %*	*70-130*		*10/20/16 14:43*	*10/20/16 14:43/SG*	*EPA 8260*	

Accredited Analytical Resources LLC

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Daniel Miguel, Technical Director

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ NY PA
PROJECT NAME:	255 East 138th Street, Bronx, NY
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP: 08736

AAR QUOTE #	
AAR WORK ORDER #	1601998
P.O. #	10BR188

ANALYSIS

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TCL VOCs	AAR SAMPLE #
PRES. CODE →						1	
CONT. CODE →						6	
SMW-1	10/18/16/09:40	GW	-	2	G	X	-01
TMW-2	10/18/16/10:20	GW	-	2	G	X	-02
Trip Blank	10/18/16/1318	TB	-	2	TB	X	-03

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER _____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. 24 HRS. OTHER _____
(IF BLANK STANDARD WILL APPLY)

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL ____ EDD ✓ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverable. Hardcopy Report due by November 4, 2016.

COOLER TEMP: 4°C

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: Sean Harrison SIGN:

SIGN BELOW WHEN DELIVERING SAMPLES. EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY, CUSTODY MUST BE DOCUMENTED

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Sean Harrison	Print Name: K. Muniz	Print Name:	Print Name:
Signature:	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 10/18/16 Time: 1545		Date Received: / / Time:	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / / Time:		Date Received: / /	

Accredited Analytical Resources, LLC.

ANALYTICAL REPORT

for

BRINKERHOFF ENVIRONMENTAL
1805 Atlantic Ave.
Manasquan, NJ 08736

Project: 255 East 138th Street, Bronx, NY

AAR Work Order: 1602078

Client Sample ID:	Lab Sample ID:
SMW-1	1602078-01
Trip Blank	1602078-02

This data has been reviewed and accepted by:

Daniel Miguel 11/04/2016
Technical Director

New Jersey Certification Number: 12007
New York Certification Number: 11109
Pennsylvania Certification Number: 68-02799

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The test results included in this report relate only to the samples analyzed.

Accredited Analytical Resources, LLC.

Methodology Summary

Volatile Organic Compounds EPA Method SW846 8260:

NJ 8260B
NY 8260C

Accredited Analytical Resources, LLC.

Internal Chain of Custody

Out	*In*
by	by

Accredited Analytical Resources, LLC.

Condition of Samples on Receipt

Client: **BRINKERHOFF ENVIRONMENTAL**
Project: **255 East 138th Street, Bronx, NY**
Work Order: **1602078**

Received: 11/2/16 10:25

Cooler

Temperature °C	4.00
Chain of Custody Filled Out Properly	Yes
Proper Containers and Volumes	Yes
Received Within Holding Time	Yes
Samples Received with Correct Preservation	Yes
Samples Received On Ice	Yes
Sample Received Via Field Services	No
Samples Hand Delivered	Yes

CHAIN OF CUSTODY FORM

Accredited Analytical Resources, LLC.
20 PERSHING AVE, CARTERET, NJ 07008
Tel. 732-969-6112 FAX 732-541-1383
WEB: WWW.ACCREDITEDANALYTICAL.COM

STATE AGENCY (CIRCLE ONE)	NJ (NY) PA
PROJECT NAME:	255 East 138th Street, Bronx, NY
CONTACT:	Sean Harrison
OFFICE PHONE #	732-223-2225
OFFICE FAX #	732-223-3666
INITIAL RESULTS TO:	Sean Harrison
EMAIL FOR INVOICE:	sharrison@brinkenv.com

CLIENT NAME:	Brinkerhoff Environmental
ADDRESS:	1805 Atlantic Ave
CITY:	Manasquan
STATE:	NJ ZIP:

AAR QUOTE #	
AAR WORK ORDER #	1602078
P.O. #	10BR188

ANALYSIS

PRES. CODE → 1
CONT. CODE → G

COLLECTION INFORMATION

CUSTOMER SAMPLE # / ID	DATE / TIME SAMPLED	MATRIX CODE	DEPTH	# OF CONTAINERS	GRAB (G) COMP (C)	TCL VOCs	AAR SAMPLE #
SMW-1	11/2/16 / 0843	GW	-	2	G	X	-01
Trip Blank	11/2/16 / 0800	TB	-	2	TB	X	-02

MATRIX CODES: S = SOIL A = AQUEOUS GW = GROUND WATER WW = WASTE WATER SW = SURFACE WATER P = POTABLE WATER O = OIL K = SOLID X = OTHER _____

CONTAINER TYPE CODES: G = GLASS P = PLASTIC E = ENCORE PRESERVATIVES CODES: 1 = HCL 2 = HNO_3 3 = H_2SO_4 4 = NaOH 5 = OTHER_____

TURNAROUND TIME: (CIRCLE ONE) STANDARD 5 DAY 72 HRS. 48 HRS. (24 HRS.) OTHER _____ (IF BLANK STANDARD WILL APPLY)
→ Evening of 11/3/16 preferable

REPORT TYPE: RESULTS ONLY ____ REDUCED ____ FULL ____ EDD ____ EXCEL SPREADSHEET ____

COMMENTS: NYSDEC Category B Data Deliverable. Hardcopy Report due by November 16, 2016.

COOLER TEMP: 4°C

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RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name: Monica Norton	Print Name: K. Muniz	Print Name:	Print Name:
Signature: Monica Norton	Signature: K. Muniz	Signature:	Signature:
Agent of: Brinkerhoff	Agent of: AAR	Agent of:	Agent of:
Date Received: 11 / 2 / 16	Time: 1025	Date Received: / /	Time:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Print Name:	Print Name:	Print Name:	Print Name:
Signature:	Signature:	Signature:	Signature:
Agent of:	Agent of:	Agent of:	Agent of:
Date Received: / /	Time:	Date Received: / /	Time:

Accredited Analytical Resources, LLC.

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SMW-1	1602078-01	Ground Water	11/02/2016 08:43	11/02/2016 10:25
Trip Blank	1602078-02	Aqueous	11/02/2016 08:00	11/02/2016 10:25

Data Qualifiers

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

VOLATILES SAMPLE DATA

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: SMW-1
Lab Sample ID: 1602078-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Date Sampled:	11/02/16 08:43	Prep Date:	11/02/16 17:27	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21813.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 17:27
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND	1.00	1.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	U
74-87-3	Chloromethane	ND	1.00	1.00	U
75-01-4	Vinyl chloride	ND	1.00	1.00	U
74-83-9	Bromomethane	ND	1.00	1.00	U
75-00-3	Chloroethane	ND	1.00	1.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	U
75-15-0	Carbon disulfide	ND	0.400	1.00	U
75-09-2	Methylene Chloride	ND	0.400	1.00	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	U
108-05-4	Vinyl acetate	ND	0.400	1.00	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	U
78-93-3	2-Butanone	ND	0.500	1.00	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	U
67-66-3	Chloroform	ND	0.500	1.00	U
74-97-5	Bromochloromethane	ND	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	U
71-43-2	Benzene	ND	0.500	1.00	U
79-01-6	Trichloroethene	ND	0.500	1.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: SMW-1
Lab Sample ID: 1602078-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Date Sampled:	11/02/16 08:43	Prep Date:	11/02/16 17:27	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21813.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 17:27
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	U
75-27-4	Bromodichloromethane	ND	0.500	1.00	U
74-95-3	Dibromomethane	ND	0.500	1.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	U
108-88-3	Toluene	ND	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	U
591-78-6	2-Hexanone	ND	0.500	1.00	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	U
100-41-4	Ethylbenzene	ND	0.500	1.00	U
108-90-7	Chlorobenzene	ND	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	U
108-38-3/106-42	m,p-Xylenes	ND	1.00	2.00	U
95-47-6	o-Xylene	ND	1.00	2.00	U
100-42-5	Styrene	ND	1.00	2.00	U
75-25-2	Bromoform	ND	0.500	1.00	U
98-82-8	Isopropylbenzene	1.66	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	U
103-65-1	n-Propyl Benzene	1.76	0.500	1.00	
108-86-1	Bromobenzene	ND	0.500	1.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: SMW-1
Lab Sample ID: 1602078-01
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Date Sampled:	11/02/16 08:43	Prep Date:	11/02/16 17:27	Matrix:	Ground Water
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21813.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 17:27
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	1.00	U
95-49-8	2-Chlorotoluene	ND	0.500	1.00	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	U
135-98-8	sec-Butylbenzene	0.600	0.500	1.00	J
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	U
91-20-3	Naphthalene	ND	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	101%	70-130
Toluene-d8	98%	70-130
Bromofluorobenzene	104%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

Client: BRINKERHOFF ENVIRONMENTAL
Client Sample ID: Trip Blank
Lab Sample ID: 1602078-02
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

Date Sampled:	11/02/16 08:00	Prep Date:	11/02/16 16:54	Matrix:	Aqueous
Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21812.D
Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 16:54
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
107-02-8	Acrolein	ND	6.00	10.0	U
107-13-1	Acrylonitrile	ND	2.00	10.0	U
67-64-1	Acetone	ND	1.00	1.00	U
75-71-8	Dichlorodifluoromethane	ND	1.00	1.00	U
74-87-3	Chloromethane	ND	1.00	1.00	U
75-01-4	Vinyl chloride	ND	1.00	1.00	U
74-83-9	Bromomethane	ND	1.00	1.00	U
75-00-3	Chloroethane	ND	1.00	1.00	U
75-69-4	Trichlorofluoromethane	ND	1.00	1.00	U
75-35-4	1,1-Dichloroethene	ND	0.400	1.00	U
75-15-0	Carbon disulfide	ND	0.400	1.00	U
75-09-2	Methylene Chloride	ND	0.400	1.00	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	1.00	U
75-34-3	1,1-Dichloroethane	ND	0.400	1.00	U
108-05-4	Vinyl acetate	ND	0.400	1.00	U
590-20-7	2,2-Dichloropropane	ND	0.400	1.00	U
78-93-3	2-Butanone	ND	0.500	1.00	U
156-59-4	cis-1,2-Dichloroethene	ND	0.500	1.00	U
67-66-3	Chloroform	ND	0.500	1.00	U
74-97-5	Bromochloromethane	ND	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane	ND	0.500	1.00	U
563-58-6	1,1-Dichloropropene	ND	0.500	1.00	U
56-23-5	Carbon Tetrachloride	ND	0.500	1.00	U
107-06-2	1,2-Dichloroethane	ND	0.500	1.00	U
71-43-2	Benzene	ND	0.500	1.00	U
79-01-6	Trichloroethene	ND	0.500	1.00	U

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ANALYSIS DATA SHEET

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Client Sample ID: Trip Blank
Lab Sample ID: 1602078-02
Project: 255 East 138th Street, Bronx, NY
Work Order: 1602078

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Prep Batch:	B6K0218	Sequence:	S6K0209	Analyzed:	11/02/16 16:54
Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	ND	0.500	1.00	U
75-27-4	Bromodichloromethane	ND	0.500	1.00	U
74-95-3	Dibromomethane	ND	0.500	1.00	U
110-75-8	2-Chloroethyl vinyl ether	ND	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	1.00	U
108-88-3	Toluene	ND	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane	ND	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	1.00	U
106-93-4	1,2-Dibromoethane	ND	0.500	1.00	U
591-78-6	2-Hexanone	ND	0.500	1.00	U
142-28-9	1,3-Dichloropropane	ND	0.500	1.00	U
127-18-4	Tetrachloroethene	ND	0.500	1.00	U
124-48-1	Dibromochloromethane	ND	0.500	1.00	U
100-41-4	Ethylbenzene	ND	0.500	1.00	U
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630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	1.00	U
108-38-3/106-42	m,p-Xylenes	ND	1.00	2.00	U
95-47-6	o-Xylene	ND	1.00	2.00	U
100-42-5	Styrene	ND	1.00	2.00	U
75-25-2	Bromoform	ND	0.500	1.00	U
98-82-8	Isopropylbenzene	ND	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	1.00	U
96-18-4	1,2,3-Trichloropropane	ND	0.500	1.00	U
103-65-1	n-Propyl Benzene	ND	0.500	1.00	U
108-86-1	Bromobenzene	ND	0.500	1.00	U

Accredited Analytical Resources, LLC.

ANALYSIS DATA SHEET

EPA 8260

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Client Sample ID: Trip Blank
Lab Sample ID: 1602078-02
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Percent Solids:		Prep Method:	EPA 5030B	File ID:	M21812.D
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Dilution:	1			Analyst:	SG

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
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95-49-8	2-Chlorotoluene	ND	0.500	1.00	U
106-43-4	4-Chlorotoluene	ND	0.500	1.00	U
98-06-6	tert-Butylbenzene	ND	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	1.00	U
135-98-8	sec-Butylbenzene	ND	0.500	1.00	U
99-87-6	p-Isopropyltoluene	ND	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene	ND	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene	ND	0.500	1.00	U
104-51-8	n-Butyl Benzene	ND	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene	ND	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	1.00	U
87-68-3	Hexachlorobutadiene	ND	0.500	1.00	U
91-20-3	Naphthalene	ND	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.500	1.00	U

Surrogate	% Recovery	Recovery Limits
1,2-Dichloroethane-d4	104%	70-130
Toluene-d8	99%	70-130
Bromofluorobenzene	103%	70-130

* Values outside of QC limits
ND - Indicates compound analyzed for but not detected
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
B - Indicates compound found in associated blank

E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

ATTACHMENT XXIII

EXCAVATION WORK PLAN (EWP)

Contaminated soil remains in the Track 4 and Track 2 Remedial Areas under the Site building. Therefore, to the extent any future excavation will impact these areas of the site, this EWP will apply.

[VI]-1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination, the site owner or their representative will notify the New York State Department of Environmental Conservation (NYSDEC). The table below includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in **Appendix II** of the Site Management Plan.

Notifications* Table

Name	**Contact Information**
Bryan Wong	yukyin.wong@dec.ny.gov
Jane O'Connell	jane.oconnell@dec.ny.gov
Kelly Lewandowski	kelly.lewandowski@dec.ny.gov

* Note: Notifications are subject to change and will be updated as necessary.

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent of excavation, plans/drawings for site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated and any work that may impact an engineering control;

- A summary of environmental conditions anticipated to be encountered in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;

- A schedule for the work, detailing the start and completion of all intrusive work;
- A summary of the applicable components of this EWP;
- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120;
- A copy of the health and safety plan (HASP), in electronic format, is provided in **Appendix VII** of this Site Management Plan (SMP);
- Identification of disposal facilities for potential waste streams; and
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

[VI]-2 SOIL SCREENING METHODS

Visual, olfactory and instrument-based (e.g. photoionization detector) soil screening will be performed by a qualified environmental professional during all excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed when invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the Certificate of Completion.

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal and material that requires testing to determine if the material can be reused on-site as soil beneath a cover or if the material can be used as cover soil. Further discussion of off-site disposal of materials and on-site reuse is provided in Section 4 of this Appendix.

[VI]-3 SOIL STAGING METHODS

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points. Accumulated sediments will be removed as required to keep the barrier and hay bale check functional. All

undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Silt fencing or hay bales will be installed around the entire perimeter of the remedial construction area.

Excavated soil from suspected areas of contamination (e.g., hot spots, USTs, drains, etc.) will be stockpiled separately and will be segregated from clean soil and construction materials. Stockpiles will be used only when necessary and will be removed as soon as practicable. Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by the NYSDEC.

[VI]-4 MATERIALS EXCAVATION AND LOAD-OUT

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The owner of the property and remedial party (if applicable) and its contractors are responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the site.

Loaded vehicles leaving the site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and New York State Department of Transportation (NYSDOT) requirements (and all other applicable transportation requirements).

A truck wash will be operated on-site, as appropriate. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the site until the activities performed under this section are complete. Truck wash waters will be collected and disposed of off-site in an appropriate manner.

Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials.

[VI]-5 MATERIALS TRANSPORT OFF-SITE

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

Truck transport routes are as follows: head northwest on E. 138th Street toward Rider Ave, turn right onto Gerard Ave, take the I-87 N/Major Deegan Expressway ramp on the left to Albany, merge onto I-87, take exit 7S and merge onto I-95 South towards the George Washington Bridge to New Jersey. All trucks loaded with site materials will exit the vicinity of the site using only these approved truck routes. This is the most appropriate route and takes into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; (f) overall safety in transport; and (g) community input.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project site. Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development. Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

[VI]-6 MATERIALS DISPOSAL OFF-SITE

All material excavated and removed from the Track 4 and under the Track 2 areas on the site will be treated as contaminated and regulated material and will be transported and disposed

in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of material from this site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-site management of materials from this site will not occur without formal NYSDEC approval.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

[VI]-7 MATERIALS REUSE ON-SITE

Soil originating from the site may be reused on the site if sampling of the soil demonstrates compliance with the NYSDEC Restricted-Residential Use (Track 2) Soil Cleanup Objectives (SCOs).

The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for reuse on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps,

etc.) or other solid waste derived from clearing and grubbing of the site will not be reused on-site.

[VI]-8 FLUIDS MANAGEMENT

All liquids to be removed from the site, including but not limited to, excavation dewatering, decontamination waters and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Liquids discharged into the New York City sewer system will receive prior approval by the New York City Department of Environmental Protection (NYCDEP). The NYCDEP regulates discharges to the New York City sewers under Title 15, Rules of the City of New York, Chapter 19. Discharge to the New York City sewer system will require an authorization and sampling data demonstrating that the groundwater meets the City's discharge criteria. The dewatering fluid will be pretreated as necessary to meet the NYCDEP discharge criteria. If discharge to the City sewer system is not appropriate, the dewatering fluids will be managed by transportation and disposal at an off-Site treatment facility. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the site, and will be managed off-site, unless prior approval is obtained from NYSDEC.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a SPDES permit.

[VI]-9 COVER SYSTEM RESTORATION

After the completion of soil removal and any other invasive activities in the Track 1, 2, and 4 Areas, the cover system will be restored in a manner that complies with the RAWP and Decision Document. The existing Track 4 Remedial Area cover system is comprised of at a minimum, a four (4) to six (6)-inch concrete slab and an approximate one (1) to two (2)-foot layer of recycled concrete aggregate (RCA) and/or virgin quarry stone. As part of development, the Track 4 Remedial Area cover system overlies the second engineering control that serves the Track 4 and Track 2 Areas of the Site, the vapor barrier membrane. The demarcation layer, consisting of the Preprufe 300R waterproofing/vapor barrier membrane will be replaced to provide a visual reference to the top of the remaining contamination zone, the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this

SMP. If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the remaining contamination. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in an updated SMP.

[VI]-10 BACKFILL FROM OFF-SITE SOURCES

All materials proposed for import onto the site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP prior to receipt at the site. A Request to Import/Reuse Fill or Soil form, which can be found at http://www.dec.ny.gov/regulations/67386.html, will be prepared and submitted to the NYSDEC project manager allowing a minimum of 5 business days for review.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the site.

All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). Based on an evaluation of the land use, protection of groundwater and protection of ecological resources criteria, the resulting soil quality standards are listed in Table 375-6.8(b). Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

[VI]-11 STORMWATER POLLUTION PREVENTION

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by the NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

Silt fencing or hay bales will be installed around the entire perimeter of the construction area.

[VI]-12 EXCAVATION CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for a full list of analytes (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides and PCBs), unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the Periodic Review Report.

[VI]-13 OTHER NUISANCES

Odor Control

All necessary means will be employed to prevent on- and off-Site odor nuisances. At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and, (c) use of foams to cover exposed odorous soils. If odors develop and cannot otherwise be controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-Site disposal; and, (e) use of chemical

odorants in spray or misting systems.

This odor control plan is capable of controlling emissions of nuisance odors. If nuisance odors are identified, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC will be notified of all odor complaint events. Implementation of all odor controls, including halt of work, will be the responsibility of the PE/QEP certifying the FER.

Dust Control

Dust management during invasive on-Site work will include, at a minimum:

- Use of a dedicated water spray methodology for roads, excavation areas, and stockpiles;
- Use of properly anchored tarps to cover stockpiles;
- Exercise of extra care during dry and high-wind periods; and,
- Use of gravel or RCA on egress and other roadways to provide a clean and dust-free road surface.

This dust control plan is capable of controlling dust generation. If nuisance dust emissions are identified, work will be halted and the source of dusts will be identified and corrected. Work will not resume until all nuisance dust emissions have been abated. NYSDEC will be notified of all dust complaint events. Implementation of all dust controls, including halt of work, will be the responsibility of the PE/QEP responsible for certifying the FER.

Other Nuisance Controls

A plan for rodent control will be developed and utilized by the contractor prior to and during site clearing and site grubbing, and during all remedial work.

A plan will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances.

ATTACHMENT XXIV

GRACE

PREPRUFE® 300R & 160R

Pre-applied waterproofing membranes that bond integrally to poured concrete for use below slabs or behind basement walls on confined sites

Description

Preprufe® 300R & 160R membranes are unique composite sheets comprising a thick HDPE film, an aggressive pressure sensitive adhesive and a weather resistant protective coating.

Unlike conventional non-adhering membranes, which are vulnerable to water ingress tracking between the unbonded membrane and structure, the unique Preprufe bond to concrete prevents ingress or migration of water around the structure.

The Preprufe R System includes:

- **Preprufe 300R**—heavy-duty grade for use below slabs and on rafts (i.e. mud slabs). Designed to accept the placing of heavy reinforcement using conventional concrete spacers.
- **Preprufe 160R**—thinner grade for blindside, zero property line applications against soil retention systems.
- **Preprufe Tape LT**—for covering cut edges, roll ends, penetrations and detailing (temperatures between 25°F (-4°C) and 86°F (+30°C)).
- **Preprufe Tape HC**—as above for use in Hot Climates (minimum 50°F (10°C)).
- **Bituthene® Liquid Membrane**—for sealing around penetrations, etc.

Preprufe 300R & 160R membranes are applied either horizontally to smooth prepared concrete, carton forms or well rolled and compacted sand or crushed stone substrate; or vertically to permanent formwork or adjoining structures. Concrete is then cast directly against the adhesive side of the membranes. The specially developed Preprufe adhesive layers work together to form a continuous and integral seal to the structure.

Preprufe can be returned up the inside face of slab formwork but is not recommended for conventional twin-sided formwork on walls, etc. Use Bituthene self-adhesive membrane or Procor® fluid applied membrane to walls after removal of formwork for a fully bonded system to all structural surfaces.

Advantages

- **Forms a unique continuous adhesive bond to concrete poured against it**—prevents water migration and makes it unaffected by ground settlement beneath slabs
- **Fully-adhered watertight laps** and detailing
- **Provides a barrier to water, moisture and gas**—physically isolates the structure from the surrounding ground
- **BBA Certified** for basement Grades 2, 3, & 4 to BS 8102:1990
- **Zero permeance** to moisture
- **Solar reflective**—reduced temperature gain
- **Simple and quick to install**—requiring no priming or fillets
- **Can be applied to permanent formwork**—allows maximum use of confined sites
- **Self protecting**—can be trafficked immediately after application and ready for immediate placing of reinforcement
- **Unaffected by wet conditions**—cannot activate prematurely
- Inherently waterproof, non-reactive system:
  - not reliant on confining pressures or hydration
  - unaffected by freeze/thaw, wet/dry cycling
- **Chemical resistant**—effective in most types of soils and waters, protects structure from salt or sulphate attack

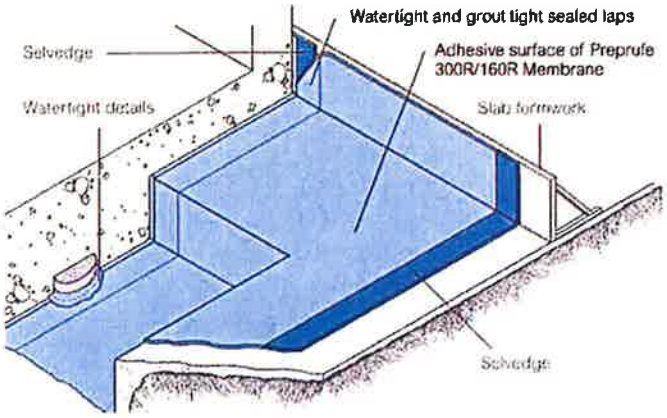
Installation

The most current application instructions, detail drawings and technical letters can be viewed at www.graceconstruction.com. Technical letters are provided for the following subjects to assist in the installation of Preprufe:

- Chemical Resistance
- Minimizing Concrete Shrinkage and Curling
- Rebar Chairs on Preprufe 300R Membrane
- Removal of Formwork Placed Against Preprufe Membranes
- Winter Lap Sealing and the use of Preprufe Tape LT

For other technical information contact your local Grace representative.

Preprufe 300R & 160R membranes are supplied in rolls 4 ft (1.2 m) wide, with a selvedge on one side to provide self-adhered laps for continuity between rolls. The rolls of Preprufe Membrane and Preprufe Tape are interwound with a disposable plastic release liner which must be removed before placing reinforcement and concrete.



Drawings are for illustration purposes only.
Please refer to www.graceconstruction.com for specific application details.

Substrate Preparation

All surfaces—It is essential to create a sound and solid substrate to eliminate movement during the concrete pour. Substrates must be regular and smooth with no gaps or voids greater than 0.5 in. (12 mm). Grout around all penetrations such as utility conduits, etc. for stability (see Figure 1).

Horizontal—The substrate must be free of loose aggregate and sharp protrusions. Avoid curved or rounded substrates. The surface does not need to be dry, but standing water must be removed.

Vertical—Use concrete, plywood, insulation or other approved facing to sheet piling to provide support to the membrane. Board systems such as timber lagging must be close butted to provide support and not more than 0.5 in. (12 mm) out of alignment.

Membrane Installation

Preprufe can be applied at temperatures of 25°F (-4°C) or above. When installing Preprufe in cold or marginal weather conditions 55°F (<13°C) the use of Preprufe Tape LT is recommended at all laps and detailing. Preprufe Tape LT should be applied to clean, dry surfaces and the release liner must be removed immediately after application.

Horizontal substrates—Place the membrane HDPE film side to the substrate with the clear plastic release liner facing towards the concrete pour. End laps should be staggered to avoid a build up of layers. Leave plastic release liner in position until overlap procedure is completed (see Figure 2).

Accurately position succeeding sheets to overlap the previous sheet 3 in. (75 mm) along the marked selvedge. Ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap. Peel back the plastic release liner from between the overlaps as the two layers are bonded together. Ensure a continuous bond is achieved without creases and roll firmly with a heavy roller. Completely remove the plastic liner to expose the protective coating. Any initial tack will quickly disappear.

Refer to Grace Tech Letters for information on suitable rebar chairs for Preprufe.

Vertical substrates—Mechanically fasten the membrane vertically using fasteners appropriate to the substrate with the the clear plastic release liner facing towards the concrete pour. The membrane may be installed in any convenient length. Secure the top of the membrane using a batten such as a termination bar or similar 2 in. (50 mm) below the top edge (see Figure 3). Fastening can be made through the selvedge so that the membrane lays flat and allows firmly rolled overlaps. Immediately remove the plastic release liner. Any additional fasteners must be covered with a patch of Preprufe Tape (see Figure 4).

Ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap. Roll firmly to ensure a watertight seal.

Roll ends and cut edges—Overlap all roll ends and cut edges by a minimum 3 in. (75 mm) and ensure the area is clean and free from contamination, wiping with a damp cloth if necessary. Allow to dry and apply Preprufe Tape LT (or HC in hot climates) centered over the lap and roll firmly. Immediately remove printed plastic release liner from the tape.

Details

Refer to Preprufe Field Application Manual, Section V Application Instructions or visit www.graceconstruction.com. This Manual gives comprehensive guidance and standard details for:

- internal and external corners
- penetrations
- tiebacks
- columns
- grade beam pilecaps
- tie-ins
- terminations

Membrane Repair

Inspect the membrane before installation of reinforcement steel, formwork and final placement of concrete. The membrane can be easily cleaned by jet washing if required. Repair damage by wiping the area with a damp cloth to ensure the area is clean and free from dust, and allow to dry. Repair small punctures (0.5 in. (12 mm) or less) and slices by applying Preprufe Tape centered over the damaged area and roll firmly. Remove the release liner from the tape. Repair holes and large punctures by applying a patch of Preprufe membrane, which extends 6 in. (150 mm) beyond the damaged area. Seal all edges of the patch with Preprufe Tape, remove the release liner from the tape and roll firmly. Any areas of damaged adhesive should be covered with Preprufe Tape. Remove printed plastic release liner from tape. Where exposed selvedge has lost adhesion or laps have not been sealed, ensure the area is clean and dry and cover with fresh Preprufe Tape, rolling firmly. Alternatively, use a hot air gun or similar to activate adhesive and firmly roll lap to achieve continuity.

Pouring of Concrete

Ensure the plastic release liner is removed from all areas of Preprufe R Membrane and Tape.

It is recommended that concrete be poured within 56 days (42 days in hot climates) of application of the membrane. Concrete must be placed and compacted carefully to avoid damage to the membrane. Never use a sharp object to consolidate the concrete.

Removal of Formwork

Preprufe membranes can be applied to removable formwork, such as slab perimeters, elevator and lift pits, etc. Once the concrete is poured the formwork must remain in place until the concrete has gained sufficient compressive strength to develop the surface bond. Preprufe membranes are not recommended for conventional twin-sided wall forming systems.

A minimum concrete compressive strength of 1500 psi (10 N/mm²) is recommended prior to stripping formwork supporting Preprufe membranes. Premature stripping may result in displacement of the membrane and/or spalling of the concrete.

As a guide, to reach the minimum compressive strength stated above, a structural concrete mix with an ultimate strength of 6000 psi (40 N/mm²) will typically require a cure time of approximately 6 days at an average ambient temperature of 25°F (-4°C), or 2 days at 70°F (21°C).

Figure 1

Figure 2

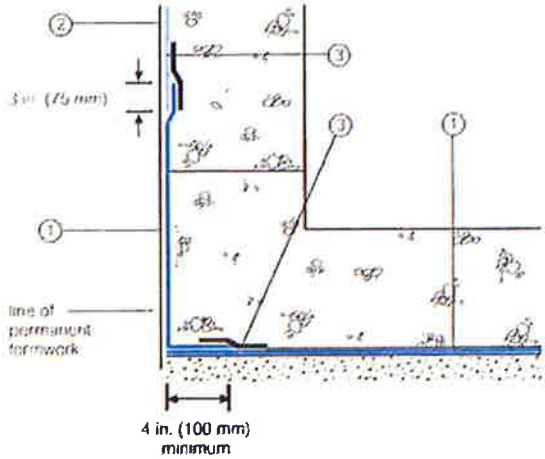
Figure 3

Figure 4

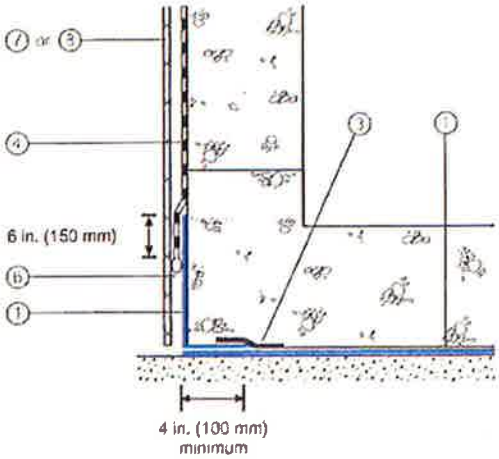
Detail Drawings

Details shown are typical illustrations and not working details. For a list of the most current details, visit us at www.graceconstruction.com. For technical assistance with detailing and problem solving please call toll free at 866-333-3SBM (3726).

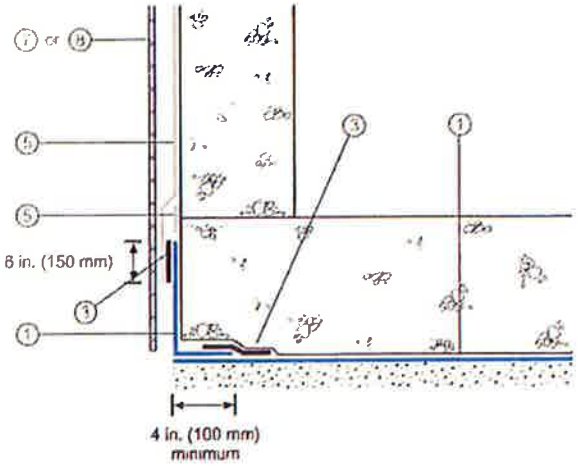
Wall base detail against permanent shutter



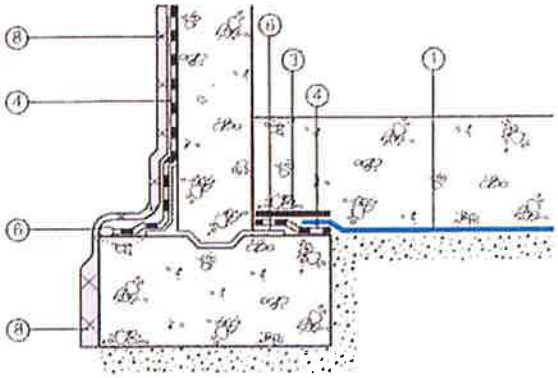
Bituthene wall base detail (Option 1)



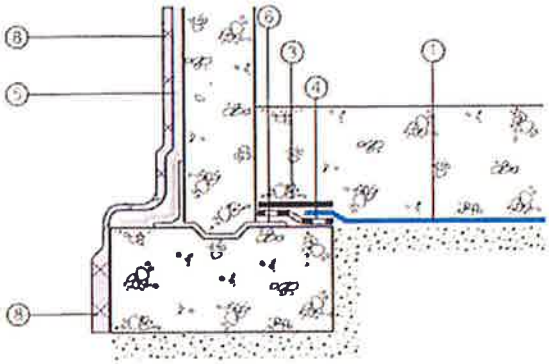
Procor wall base detail (Option 1)



Bituthene wall base detail (Option 2)



Procor wall base detail (Option 2)



1 Preprufe 300R
2 Preprufe 160R
3 Preprufe Tape
4 Bituthene
5 Procor
6 Bituthene Liquid Membrane
7 Protection
8 Hydroduct®

Supply

Dimensions (Nominal)	Preprufe 300R Membrane	Preprufe 160R Membrane	Preprufe Tape (LT or HC*)
Thickness	0.046 in. (1.2 mm)	0.032 in. (0.8 mm)	
Roll size	4 ft x 98 ft (1.2 m x 30 m)	4 ft x 115 ft (1.2 m x 35 m)	4 in. x 49 ft (100 mm x 15 m)
Roll area	392 ft² (36 m²)	460 ft² (42 m²)	
Roll weight	108 lbs (50 kg)	92 lbs (42 kg)	4.3 lbs (2 kg)
Minimum side/end laps	3 in. (75 mm)	3 in. (75 mm)	3 in. (75 mm)
* LT denotes Low Temperature (between 25°F (-4°C) and 86°F (+30°C)) HC denotes Hot Climate (50°F (>+10°C))			
Ancillary Products			
Bituthene Liquid Membrane—1.5 US gal (5.7 liter) or 4 US gal (15.1 liter)			

Physical Properties

Property	Typical Value 300R	Typical Value 160R	Test Method
Color	white	white	
Thickness	0.046 in. (1.2 mm) nominal	0.032 in. (0.8 mm) nominal	ASTM D3767
Low temperature flexibility	Unaffected at -10°F (-23°C)	Unaffected at -10°F (-23°C)	ASTM D1970
Resistance to hydrostatic head, minimum	231 ft (70 m)	231 ft (70 m)	ASTM D5385, modified[1]
Elongation, minimum	300%	300%	ASTM D412, modified[2]
Tensile strength, film, minimum	4000 psi (27.6 MPa)	4000 psi (27.6 MPa)	ASTM D412
Crack cycling at -10°F (-23°C), 100 cycles	Unaffected	Unaffected	ASTM C836
Puncture resistance, minimum	221 lbs (990 N)	100 lbs (445 N)	ASTM E154
Peel adhesion to concrete, minimum	5.0 lbs/in. (880 N/m) width	5.0 lbs/in. (880 N/m) width	ASTM D903, modified[3]
Lap peel adhesion	2.5 lbs/in. (440 N/m) width	2.5 lbs/in. (440 N/m) width	ASTM D1876, modified[4]
Permeance to water vapor transmission, maximum	0.01 perms (0.6 ng/(Pa × s × m²))	0.01 perms (0.6 ng/(Pa × s × m²))	ASTM E96, method B
Water absorption, maximum	0.5%	0.5%	ASTM D570
Methane permeability	9.1 mls/m²/day	N/A	University of London, QMW College[3]
Permeability[5] (hydraulic conductivity)	$K=<1.4 \times 10^{-11} cm.s^{-1}$	$K=<1.4 \times 10^{-11} cm.s^{-1}$	ASTM D5084-90

Footnotes:

1. Hydrostatic head tests of Preprufe Membranes are performed by casting concrete against the membrane with a lap. Before the concrete cures, a 0.125 in. (3 mm) spacer is inserted perpendicular to the membrane to create a gap. The cured block is placed in a chamber where water is introduced to the membrane surface up to the head indicated.
2. Elongation of membrane is run at a rate of 2 in. (50 mm) per minute.
3. Concrete is cast against the protective coating surface of the membrane and allowed to properly dry (7 days minimum). Peel adhesion of membrane to concrete is measured at a rate of 2 in. (50 mm) per minute at room temperature.
4. The test is conducted 15 minutes after the lap is formed (per Grace published recommendations) and run at a rate of 2 in. (50 mm) per minute at 25°F (-4°C).
5. Result is lower limit of apparatus. Membrane therefore considered impermeable.

Specification Clauses

Preprufe 300R or 160R shall be applied with its adhesive face presented to receive fresh concrete to which it will integrally bond. Only Grace Construction Products approved membranes shall be bonded to Preprufe 300R/160R. All Preprufe 300R/160R system materials shall be supplied by Grace Construction Products, and applied strictly in accordance with their instructions.

Specimen performance and formatted clauses are also available.

NOTE: Use Preprufe Tape to tie-in Procor with Preprufe.

Health and Safety

Refer to relevant Material Safety data sheet. Complete rolls should be handled by a minimum of two persons.

www.graceconstruction.com

For technical assistance call toll free at 866-333-3SBM (3726)

Preprufe, Bituthene and Hydroduct are registered trademarks of W. R. Grace & Co.–Conn.
Procor is a U.S. registered trademark of W. R. Grace & Co.–Conn., and is used in Canada under license from PROCOR LIMITED.

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate and is offered for the users' consideration, investigation and verification, but we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation or suggestion is intended for any use which would infringe any patent or copyright. W. R. Grace & Co.–Conn., 62 Whittemore Avenue, Cambridge, MA 02140. In Canada, Grace Canada, Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6.

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PF-111E Printed in U.S.A. 3/07 FA/LI/1M

GRACE

Submittal #071500-3.0
071500 - Underslab Membrane

Lettire Construction

Project: EAS-138 - 255 East 138th Street
255 East 138th Street
Bronx, New York 10451
Phone: 212-996-6640

Foundation Waterproofing Materials product Information

SPEC SECTION:	071500 - Underslab Membrane	**CREATED BY:**	Alexander Adduci**(Lettire Construction)**
STATUS:	Open	**DATE CREATED:**	02/12/2016
ISSUE DATE:	//	**REVISION:**	0
RESPONSIBLE CONTRACTOR:	ACA Contracting, Inc.	**RECEIVED FROM:**	Nick Mustakas
RECEIVED DATE:	//	**SUBMIT BY:**	//
FINAL DUE DATE:	02/19/2016	**LOCATION:**	
TYPE:	Product Information	**COST CODE:**	
APPROVERS:	Eli Cohn **(MHG Architects)**		

BALL IN COURT:
Eli Cohn **(MHG Architects)**

DISTRIBUTION:
Nick Mustakas **(ACA Contracting, Inc.)**, Sam Massaro **(Lettire Construction)**, Ratko Krneta **(Lettire Construction)**, Jen Hlavac **(Lettire Construction)**, Alexander Adduci **(Lettire Construction)**

DESCRIPTION:

ATTACHMENTS:
Grace B2 LVC Primer Data.pdf Grace Preprufe Tape _ CJ Tape Data.pdf

SUBMITTAL WORKFLOW

#	NAME	SUBMITTER/ APPROVER	SENT DATE	DUE DATE	RETURNED DATE	RESPONSE	ATTACHMENTS	COMMENTS
1	Eli Cohn	Approver	2/12/2016	2/19/2016		Pending		

MHG ARCHITECTS, P.C.
443 PARK AVENUE SOUTH
NEW YORK, NY 10016
TEL: (212) 689-7070

X	NO EXCEPTION TAKEN
	EXCEPTIONS TAKEN AS NOTED
	REVISE AND RESUBMIT
	REJECTED
	SUBMIT SPECIFIED ITEM

DATE	CHECKED BY
2/17/16	EC

CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR QUANTITIES, DIMENSIONS, AND COMPLIANCE WITH CONTRACT DOCUMENTS, AND FOR INFORMATION THAT PERTAINS TO FABRICATION PROCESSES OR TECHNIQUES OF CONSTRUCTION, AND FOR COORDINATION OF ALL TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.

BY **DATE** **COPIES TO**

BITUTHENE® ADHESIVE PRIMER B2 LVC

Specially formulated low VOC primer for use with Grace self-adhered membranes on green concrete or damp substrates

Description

Bituthene® Adhesive Primer B2 LVC is a low VOC primer in solvent specially formulated to provide good initial adhesion of Grace self-adhered membranes.

In addition, its formulation promotes the adhesion of Grace self-adhered membranes to green concrete and damp surfaces.

The VOC (Volatile Organic Compound) content is <200 g/L and is compliant with all state and local VOC requirements for Adhesives and Sealants.

Architectural and Industrial Maintenance Regulations limit the VOC content in products classified as Adhesive Primers. Refer to Technical Letters at graceconstruction.com for most current list of allowable limits.

Use

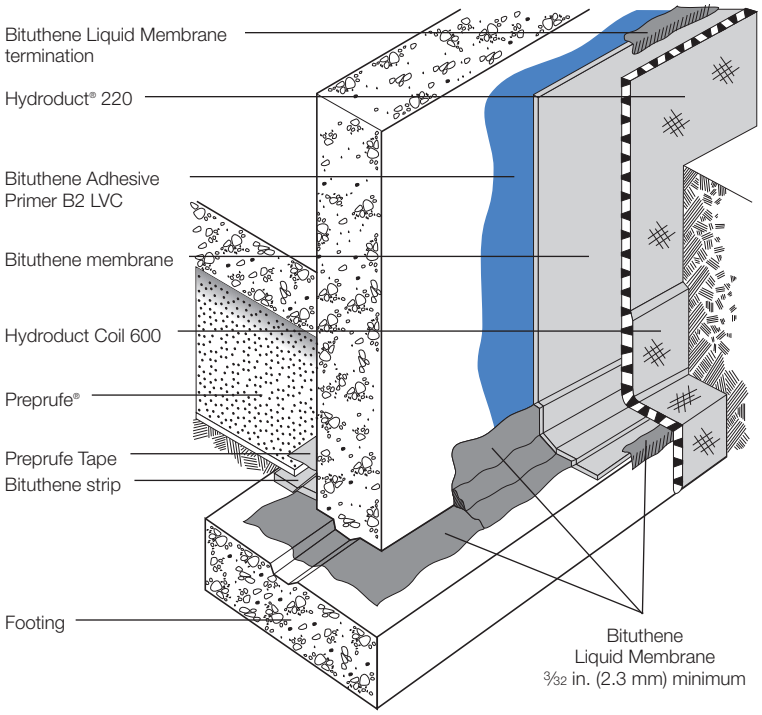
Bituthene Adhesive Primer B2 LVC is used to prime green concrete (less than seven day cure for normal structural concrete). It is also used to prime damp concrete, masonry, gypsum sheathing or wood surfaces on which Grace self-adhered membranes will be applied.

Bituthene Adhesive Primer B2 LVC is used for vertical and horizontal applications at 25ºF (-4ºC) or above.

Application Procedures

Safety, Storage and Handling Information

Grace products must be handled properly. Vapors from solvent-based primers and mastic are harmful and flammable. For these products, the best available information on safe handling, storage, personal protection, health and environmental considerations has been gathered. Material Safety Data Sheets (MSDS) are available at graceconstruction.com and users should acquaint themselves with this information. Carefully read detailed precaution statements on product labels and the MSDS before use.



Drawings are for illustration purposes only.
Please refer to graceconstruction.com for specific application details.

Supply

Bituthene Adhesive Primer B2 LVC	
Unit size	5 gal (18.9 L) pail
Weight	44 lbs (20 kg)/pail
Units per pallet	48 pails
Approximate Coverage	325–425 ft^2/gal (7.5–10.0 m^2/L)

Application

Bituthene Adhesive Primer B2 LVC may be applied by roller or brush. Use a heavy nap roller made of natural material, such as lamb's wool.

Stir until a uniform color and consistency is achieved.

Apply it to clean, dirt free, frost-free surfaces at an approximate coverage rate of 325–425 ft^2/gal (7.5–10.0 m^2/L). Do not apply to frozen concrete or to areas with standing or visible water. Do not use during wet weather. Allow Bituthene Adhesive Primer B2 LVC to dry one hour or until tack-free. Dry time may be longer in cold temperatures. Deep puddles of primer should be avoided as this will lengthen drying time. Rollers or brushes should be dipped into pans. Avoid pouring primer directly onto a horizontal substrate. Do not apply directly to Grace self-adhered membrane.

In general, priming should be limited to an area that can be covered with membrane within 24 hours. Areas that accumulate significant amounts of dust or dirt must be reprimed before membrane is applied.

Although it may be used on green concrete and damp surfaces, moisture may become trapped under the membrane. This may result in blistering, particularly on warm, sunny days. Therefore, cover the membrane as soon as possible to minimize blistering. If blistering occurs, allow membrane to cool and re-roll with heavy roller. Blisters over 4 in. (100 mm) in diameter should be cut and patched.

Clean tools with mineral spirits at the end of each day. Mineral spirits is a combustible liquid and should be used only in accordance with the manufacturer's safety recommendations. **Do not use solvents to clean hands or skin.**

www.graceconstruction.com

For technical assistance call toll free at 866-333-3SBM (3726)

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PREPRUFE® TAPE and PREPRUFE® CJ TAPE

Description

Preprufe® Tape and Preprufe® CJ Tape are specially formulated two sided, reinforced pressure sensitive tapes. The bottom side of the tape has a highly aggressive pressure sensitive adhesive which is designed to adhere to penetrations, protrusions and Grace waterproofing membranes and accessories. The top side of the tape has a pressure sensitive adhesive, a weather resistant protective coating an a release liner. Concrete is cast directly against the top adhesive side of the tape. The specially developed Preprufe adhesive layers work together to form a continuous and integral seal to the structure.

Preprufe Tape and Preprufe CJ Tape are provided in Low Temperature and Hot Climate Grades as follows:

- **Preprufe Tape LT Grade and Preprufe CJ Tape LT Grade**—for temperatures between 25°F (-4°C) and 86°F (+30°C).
- **Preprufe Tape HC Grade and Preprufe CJ Tape HC Grade**—for use in Hot Climates (minimum 50°F (10°C)).

Use

Preprufe Tape is a 4 in. (100 mm) wide tape used in detail areas including end laps, penetrations and various tie-ins. It is also used to patch damaged areas in the Preprufe membranes.

Preprufe CJ Tape is an 8 in. (200 mm) wide tape used at construction joints in the concrete that is cast against it or in critical areas where a wider tape is required.

Application

Wipe substrates to receive Preprufe Tape and Preprufe CJ Tape clean to remove any dirt, dust or moisture. Clean the surface of penetrations or protrusions with a wire brush to remove dirt, dust, rust and loose particles.

Unroll the tape and adhere the exposed pressure sensitive adhesive surface to the membrane or penetration. The protective coating surface of the tape should face toward the concrete to be cast onto the tape.

Use heavy hand pressure or a hand roller to maximize adhesion. Remove the release liner during application.

Ensure the plastic release liner is removed from all areas of Preprufe Tape and Preprufe CJ Tape. It is recommended that concrete be poured within 56 days (42 days in hot climates) of application of the tape. Following proper ACI guidelines, concrete must be placed carefully and consolidated properly to avoid damage to the membrane. Never use a sharp object to consolidate the concrete. Provide temporary protection from concrete over splash for areas of the tape that are adjacent to a concrete pour.

Dimensions (Nominal)	**Preprufe Tape (HC or LT)**	**Preprufe CJ Tape (HC or LT)**
Roll Size	4 in. x 49 ft. (100 mm x 15 m)	8 in. x 49 ft. (200 mm x 15 m)
Roll Weight	4.3 lbs (2 kg)	8.6 lbs (4 kg)

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For technical assistance call toll free at 866-333-3SBM (3726)

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