

February 26, 2016

Mr. John R. Strang, P.E. Environmental Engineer 2 New York State Department of Environmental Conservation Region 4 1130 South Westcott Road Schenectady, New York 12306-2014

### Via Electronic Mail

Re: Tank 010

Spill No. 1507232

ALCO – BCP Site C447042

Schenectady, NY

Dear Mr. Strang:

On behalf of Maxon ALCO Holdings, LLC, Barton & Loguidice, Inc. (B&L) has prepared the following report for the results of the sampling for the Tank 010 including Spill 1507232 closure activities.

## **Summary of IRM Activities**

Excavation activities were undertaken at the Tank 010 area in accordance with the approved November 2014 Addendum to the Excavation Work Plan (EXC-WP) dated May 2014. The tank was not vacuum pumped free of product as tank location inaccessible by vac. truck due to soft site soil. The top of the tank was removed by the excavator and approximately 75 tons of the flowable fill (concrete) was removed and stockpiled on a separate storage area that was lined with plastic sheeting and bermed to prohibit run-off. Tank 010 was removed on October 9, 2015. A small quantity of Non-Aqueous Phase Liquid (NAPL) spilled from the tank during the tank removal process and a Spill was reported (NYSDEC Spill No. 1507232). With concurrence from the NYSDEC clean sand was utilized to absorb the NAPL and the utilized sand was removed and stockpiled within the plastic sheeting lined storage area. The tank was staged on polyvinyl sheeting and subsequently cleaned by Precision Industrial Maintenance and the associated steel was combined with the facilities scrap metal for recycling.

Visibly clean overlying soils were removed and stockpiled. Groundwater was not encountered. Soil sampling of the excavation was conducted on October 12, 2015 with concurrence from NYSDEC on the number and locations of the soil samples.

## **Summary of Sample Results**

A total of five soil samples were collected, at locations shown on the attached sketch. In addition to volatile organic compounds (VOCs), soil samples were also analyzed for semi-VOCs at the request of NYSDEC. Detections for VOCs and SVOCs are summarized on the attached table. SVOCs were detected in each of the soil samples. Two of the five samples had one or more of the following at concentrations above their respective Restricted Residential Soil Cleanup Objective (SCO):

The experience to 115tc 11.

The power to SOVE.





Mr. John R. Strang, P.E. NYSDEC February 26, 2016 Page 2

- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Dibenzo(a,h)anthracene
- Indeno(1,2,3-cd)pyrene

The SVOCs that were detected were all polynuclear aromatic hydrocarbons (PAHs), that are typically related to coal usage; the PAH detections are consistent with the site-wide PAH detections that constitute Area of Concern 3 that will be addressed by the soil cover. With respect to VOCs, there was one (1) petroleum-related detection. The detection was reported at a concentration roughly three orders of magnitude below the SCO. The laboratory results for the soil samples are also attached to this letter. No additional investigation or remediation is recommended for Tank 010.

Additional items to be forwarded to the NYSDEC upon receipt are non-hazardous waste manifests for disposal of associated contaminated soil and concrete.

Please feel free to contact the undersigned at (518) 218-1801 with any questions or need for additional information.

Very truly yours,

BARTON & LOGUIDICE, INC.

Andrew J. Barber

Sr. Environmental Consultant

AJB/akd Enclosure

cc: Steve Porter, Esq. - Maxon ALCO Holdings LLC

Steve Luciano - Maxon ALCO Holdings LLC
Paul Fallati - Maxon ALCO Holdings LLC

Dean Sommer, Esq. - Young Sommer

Rich Ostrov - NYSDEC Region 4, OGC

Al DeMarco -NYSDOH

ALCO Brownfield Site 301 Nott Road, Schenectady NY									
COMPOUND	NYSDEC Part 375 Restricted Use SCO's -Restricted Residential (1)	UNIT	TP010-N	TP010-E	TP010-S	TP010- BOTTOM	DUP-X		
Acetone	100000	μg/kg	-	-	-	12 B	-		
Benzo(a)anthracene	1000	μg/kg	-	-	350	1900	-		
Benzo(a)pyrene	1000	μg/kg	190	-	540	2600	-		
Benzo(b)fluoranthene	1000	μg/kg	290	-	1100	5100	-		
Benzo(g,h,i)perylene	100000	μg/kg	220	-	5220	1300	-		
Benzo(k)fluoranthene	3900	μg/kg	1	-	310	1600	-		
Chrysene	3900	μg/kg	190	-	590	2400	-		
Dibenzo(a,h)anthracene	330	μg/kg	•	-	-	440	-		
Di-n-butyl phthalate	-	μg/kg	880	810	-	1000	770		
Fluoranthene	100000	μg/kg	220	-	290	2100	-		
Indeno(1,2,3-cd)pyrene	500	μg/kg	-	-	460	1300	-		
Phenanthrene	100000	μg/kg	-	-	210	690	-		
Pyrene	100000	μg/kg	220	-	320	2000	-		

<sup>-</sup> Not Detected

Blind duplicate sample "Dup" collected at TP010-E.

<sup>1.</sup> NYSDEC Part 375 Table 375-6.8(b) Restricted Use Soil Cleanup Objectives (SCOs) for the Protection of Public Health.

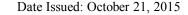


Engineers • Environmental Scientists • Planners • Landscape Architects

10 Airline Drive • Suite 200 • Albany, NY 12205
Telephone: (518) 218-1801 • Facsimile (518) 218-1805

JOB ALCO	1368.001.001
SHEET NO.	OF
CALCULATED BY	RIMZ DATE February 2016
CHECKED BY	DATÉDATÉ
DESCRIPTION TO	AV 010 Confirmation Sampling Locations

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## Pace Analytical e-Report

Report prepared for: BARTON AND LOGUIDICE 10 AIRLINE DRIVE ALBANY, NY 12205 CONTACT: ANDY BARBER

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Project ID: ALCO

Sampling Date(s): October 12, 2015

**Lab Report ID:** 15100280

Client Service Contact: Chelsea Farmer (518) 346-4592 ext. 3843

-----

Analysis Included: 8260- Sub Pace NY 8270D - Sub Pace LI

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Roy Smith Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com

Pace Analytical Services, Inc. October 21, 2015 15100280 - Page 1 of 75

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# Table of Contents

Section 1: CASE NARRATIVE	4
Section 2: QUALIFIERS	(
Section 3: SAMPLE CHAIN OF CUSTODY	8
Section 4: SAMPLE RECEIPT	11
Section 5: Subcontract Analysis	13

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## **CASE NARRATIVE**

### CASE NARRATIVE

This data package (SDG ID: 15100280) consists of 5 soil samples received on 10/12/2015. The samples are from Project Name: ALCO.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AS32217	TP010-N	10/12/2015 13:40
AS32218	TP010-E	10/12/2015 13:35
AS32219	TP010-S	10/12/2015 13:45
AS32220	TP010-BOTTOM	10/12/2015 13:30
AS32221	DUP-X	10/12/2015

## Sample Delivery and Receipt Conditions

- (1.) Lab provided sample pickup service on 10/12/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, with the following exceptions:
  - (a.) Samples for volatile analysis were not collected as per Method 5035A guidance.

### Subcontract Analysis

Please see Pace NY LI lab report for quality assurance details regarding the volatile and semi-volatile analysis.

Respectfully submitted,

Jill Grygas

Project Manager

# **QUALIFIERS**

## **Definitions**

- B Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.
- D Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- MDL Adjusted Method Detection Limit.
- P Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.
- PQL Practical Quantitation Limit. PQLs are adjusted for sample weight/volume and dilution factors.
- RL Reporting Limit Denotes lowest analyte concentration reportable for the sample based on regulatory or project specific limits.
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.
- Z Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.
- \* Value not within control limits.

## SAMPLE CHAIN OF CUSTODY



New York Office 2190 Technology Dr. Schenectady, NY 12308 (518) 346-4592

## **CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be <15100280P1>

(518)	346-4592		81 <b>8</b> 18 8 8 1 8 8 8 1 <b>8 8 8 1 8 9 1 8 9</b> 1 8 9 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1	
Section A	Section B	Section C	151302801	Page: 1 of 1
Required Client Information:	Required Project Information:	Invoice Information:		Page: 1 of 1
Company: Barton and Loguidice DPC	Report To: Andy Barber	Attention: Accounts Payable	REGULATORY AC	SENCY
Address: 10 Airline Drive, Suite 200	Copy To: Nathan Shaffer	Company Name: Barton and Loguidice, DPC	NPDES GROUND WATER DE	RINKING WATER
Albany, NY 12205	Rosmany Meromick	Address: 290 Elwood Davis Road, Box 3107 Syracuse NY, 13220		IER NYSDEC
Email To: nshaffer@bartonandloguidice.com	Purchase Order No.:	Pace Quote Reference: 00014909		EN EVI EVC
Phone: 518-218-1801 Fax: 518-218-1805	Project Name: ALCO	Pace Project Manager: Kelly Miller		C NI DOTHER MY
Requested Standard Due Date/TAT:	Project Number: 1368.001.001	Pace Profile #:	Filtered (Y/N) ///////////////////////////////////	7/////
Section D Required Client Information  SAMPLE ID  (A-Z, 0-9 /,-)  Sample IDs MUST BE UNIQUE  OTHER ITSSUE	CODE  WAT  WAT  WAT  WAT  WAT  WAT  WAT  WA	COLLECTION	Requested Analysis:	Pace Project No.
TPCIO-N NISTMED	SLG -	10112 15 40 6 x		AS32217
2 TP010-E	SL G -	133 2 ×		AS32218
3 TP010-5	SL G	1346 2 4		4532219
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIA	TION DATE TIME ACCEPTED BY	AFFILIATION DATE TIME	SAMPLE CONDITIONS
Part 375 List	Rh/1301		PACE IUlizlis 14:37	4.2
	SAMPLE	R NAME AND SIGNATURE	·	
	PRINT		DATE Signed (MM / DD / YY): 10/12/15	Temp in °C Received on lce Custody Sealed Cooler Samples
Pace Analytical Services, Inc.	· •	October 21, 2015	Manar DD / 11): 10 / 1 - // 3	15100280 - Page 9 of 7



## Sample Condition Upon Receipt

151002802

						CLIENT NAME: B	AR-ALE	, 
		کاری				PROJECT: ALC	)	
COURIER: FedEx D UPS D CI	iente	CUSTODY	— Other SEAL PRESEN	T: Yes □	No De		No 🗆	N/A)
PACKING MATERIAL: Bubble Wrap	Bubble Bags		None)200	Other 🗆		ICE USED: Wet	Blue □ 4. 2	None □.
	n 03 🗆	#122087	967 🗆	C	OOLER TE	MPERATURE (°C):		
BIOLOGICAL TISSUE IS FROZEN: Yes	No □	N/A				Temp should be ab	ove freezing to	o 6°C
COMMENTS:				T	emperatu	re is Acceptable?	⊠res	□No
Chain of Custody Present:	Ĵ <b>⊠</b> ?es	□No		1.				
Chain of Custody Filled Out:	<b>√</b> 277es	□No		2.				
Chain of Custody Relinquished:	<b>&gt; ≥ 4 2 2 3 3 3 3 3 3 3 3 3 3</b>	□No		3.				
Sampler Name / Signature on COC:	Dogs	□No		4.				
Samples Arrived within Hold Time:	DDPes	□No		5.				
Short Hold Time Analysis (<72hr):	□Yes	<u>∑⊒#</u> #8		6.				
Rush Turn Around Time Requested:	□Yes	ASTRO		7.				
Sufficient Volume:	<b>X</b> es	□No		8.				
Correct Containers Used:	<b>∑</b> 2es	□No		9.Sall Sampl	25 for 8	<u>260 analysis n</u>	of collected	per method 5035 guidance
- Pace Containers Used:	<b>X</b> Øes	□No				<u> </u>		
Containers Intact:	Pes	□No		10.				
Filtered volume received for Dissolved tes	tS: □Yes	□No_	Susa	11.				
Sample Labels match COC:	<b>Sel</b> es	□No		12.				
- Includes date/time/ID/Analysis  All containers needing preservation have been checked:	□Yes	□No	<b>Ser</b> ia	13.				
All containers needing preservation are in compliance with EPA recommendation:	□Yes	□No	<b>)546</b> /A	Initial when completed:	UIA	Lot # of added pres	ervative:	NIA
- Exceptions that are not checked: TOC, VOA, Subcor			V30::	14.				
Headspace in VOA Vials (>6mm):	□Yes	□No	)200/A )25R/A	15.				
Trip Blank Present:	□Yes	□No	ZONIA ZONA	15.				
Trip Blank Custody Seals Present:	□Yes	□No	A/WIEC	٠				
Pace Trip Blank Lot #: NA		Line-Out /	Includes Con	ving Shinning	Docume	nts and verifying sar	nple pH):	RAC 10/12/15
Sample Receipt form filled in: PACIOI215		Line-Out (	includes cop	ing PM of anv	discrena	cies and documenting	ng in LIMS):	KAC iolizlis
						ing LAB IDs into pH		RACIONZIS

## SAMPLE RECEIPT



Pace Analytical Services, Inc.



## SAMPLE RECEIPT REPORT 15100280

**CLIENT: BARTON AND LOGUIDICE** 

PROJECT: ALCO LRF: 15100280

REPORT: ANALYTICAL REPORT

EDD: YES LRF TAT: 7 DAYS **RECEIVED DATE:** 10/12/2015 14:37

SHIPPED VIA: PICK UP 1. SAMPLES PRESERVED PER METHOD GUIDANCE: YES

<sup>3</sup> SAMPLES REC'D IN HOLDTIME: YES SHIPPING ID:

**DISPOSAL:** BY LAB (45 DAYS) NUMBER OF COOLERS: 1 CUSTODY SEAL INTACT: NA **COC DISCREPANCY: NO** 

COOLER STATUS: CHILLED TEMPERATURE(S): <sup>5</sup>4.2 °C

COMMENTS:

SOIL SAMPLES FOR 8260 ANALYSIS NOT COLLECTED PER METHOD 5035 GUIDANCE.

	4	DATE-TIME			TEST	QC
CLIENT ID (LAB ID)	TAT-DUE Date	SAMPLED	MATRIX	METHOD	DESCRIPTION	REQUEST
TP010-N (AS32217)	7 DAYS 10-21-15	10/12/2015 13:40	Soil	E8260C	8260- Sub Pace NY	MS, MSD
	7 DAYS 10-21-15	10/12/2015 13:40	Soil	E8270D	8270D - Sub Pace LI	MS, MSD
TP010-E (AS32218)	7 DAYS 10-21-15	10/12/2015 13:35	Soil	E8260C	8260- Sub Pace NY	
	7 DAYS 10-21-15	10/12/2015 13:35	Soil	E8270D	8270D - Sub Pace LI	
TP010-S (AS32219)	7 DAYS 10-21-15	10/12/2015 13:45	Soil	E8260C	8260- Sub Pace NY	
	7 DAYS 10-21-15	10/12/2015 13:45	Soil	E8270D	8270D - Sub Pace LI	
TP010-BOTTOM (AS32220)	7 DAYS 10-21-15	10/12/2015 13:30	Soil	E8260C	8260- Sub Pace NY	
	7 DAYS 10-21-15	10/12/2015 13:30	Soil	E8270D	8270D - Sub Pace LI	
DUP-X (AS32221)	7 DAYS 10-21-15	10/12/2015	Soil	E8260C	8260- Sub Pace NY	
	7 DAYS 10-21-15	10/12/2015	Soil	E8270D	8270D - Sub Pace LI	

The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.

## **Reporting Parameters and Lists**

The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it 4 is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.

The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.

<sup>&</sup>lt;sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

<sup>6</sup>Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

# Subcontract Analysis



575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

AS32217

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected : 10/12/2015 1:40:00 PM Received : 10/12/2015

## LABORATORY RESULTS

Results for the samples and analytes requested

Lab No. : 1510856-001

Client Sample ID: TP010-N

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT						
Analytical Method: SW8260C :		Prep N	Method: 500	35A-L		Analyst: KG
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,1,1-Trichloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,1,2,2-Tetrachloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,1,2-Trichloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,1-Dichloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,1-Dichloroethene	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,1-Dichloropropene	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,2,3-Trichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,2,3-Trichloropropane	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,2,4-Trichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,2,4-Trimethylbenzene	< 2.2	С	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,2-Dibromo-3-chloropropane	< 2.2	С	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,2-Dibromoethane	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,2-Dichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,2-Dichloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,2-Dichloropropane	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,3,5-Trimethylbenzene/P- ethyltoluene	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,3-Dichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,3-Dichloropropane	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
1,4-Dichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
2,2-Dichloropropane	< 2.2	С	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
2-Butanone	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
2-Chloroethylvinyl ether	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
2-Chlorotoluene/4-Chlorotoluene	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
2-Hexanone	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
4-Isopropyltoluene	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
4-Methyl-2-pentanone	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Acetone	< 11		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Benzene	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Bromobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Bromochloromethane	< 2.2		1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015

Cathlin Panzarella

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Page 1 of 59



AS32217

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected : 10/12/2015 1:40:00 PM Received :10/12/2015

## LABORATORY RESULTS

Lab No. : 1510856-001

Client Sample ID: TP010-N

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT					
Analytical Method: SW8260C:	Prep N	Method: 503	35A-L		Analyst: KG
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Bromodichloromethane	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Bromoform	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Bromomethane	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Carbon disulfide	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Carbon tetrachloride	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Chlorobenzene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Chloroethane	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Chloroform	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Chloromethane	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
cis-1,2-Dichloroethene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
cis-1,3-Dichloropropene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Dibromochloromethane	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Dibromomethane	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Dichlorodifluoromethane	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Ethylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Hexachlorobutadiene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Isopropylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
m,p-Xylene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Methyl tert-butyl ether	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Methylene chloride	< 11	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Naphthalene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
n-Butylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
n-Propylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
o-Xylene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
sec-Butylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Styrene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
tert-Butylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Tetrachloroethene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Toluene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
trans-1,2-Dichloroethene	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

Trichloroethene

trans-1,3-Dichloropropene

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

< 22

< 2.2

1

1

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015



10/16/2015 2:03 PM Container-01 of 03

10/16/2015 2:03 PM Container-01 of 03

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 2 of 59

µg/Kg-dry

μg/Kg-dry





LABORATORY RESULTS Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at

the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Lab No. : 1510856-001

Client Sample ID: TP010-N

**Sample Information:** 

Type: Soil

Attn To: William A. Kotas

Collected : 10/12/2015 1:40:00 PM Received : 10/12/2015

AS32217

www.pacelabs.com

Origin:

Collected By CLIENT

Analytical Method: SW8260C:	Prep	Analyst: KG			
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Trichlorofluoromethane	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Vinyl acetate	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Vinyl chloride	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Xylene (total)	< 2.2	1	μg/Kg-dry	10/16/2015 2:03 PM	Container-01 of 03
Surr: 1,2-Dichloroethane-d4	82.8	1	%REC Limit 33-145	10/16/2015 2:03 PM	Container-01 of 03
Surr: 4-Bromofluorobenzene	80.6	1	%REC Limit 60-148	10/16/2015 2:03 PM	Container-01 of 03
Surr: Toluene-d8	96.0	1	%REC Limit 60-132	10/16/2015 2:03 PM	Container-01 of 03

### NOTES:

Results may be biased low due to sample not being collected according to 5035A low level specifications.

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015 Cathlin Panzarella

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 3 of 59



575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

AS32217

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Collected

Attn To: William A. Kotas

Received : 10/12/2015

: 10/12/2015 1:40:00 PM

## LABORATORY RESULTS

Results for the samples and analytes requested

Lab No. : 1510856-001

Client Sample ID: TP010-N

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Sample Information:

Type: Soil

Origin:

Analytical Method: SW8270D:	Prep N	Method: SW	/3545A	Prep Date: 10/14/2015 9:21:17 PM	Analyst: GMV
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
2,4,5-Trichlorophenol	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
2,4,6-Trichlorophenol	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
2,4-Dichlorophenol	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
2,4-Dimethylphenol	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
2,4-Dinitrophenol	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
2,4-Dinitrotoluene	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
2,6-Dinitrotoluene	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
2-Chloronaphthalene	< 180	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
2-Chlorophenol	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
2-Methylnaphthalene	< 180	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
2-Methylphenol	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
2-Nitroaniline	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
2-Nitrophenol	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
3,3'-Dichlorobenzidine	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
3-Methylphenol/4-Methylphenol	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
3-Nitroaniline	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
4,6-Dinitro-2-methylphenol	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
4-Bromophenyl-phenylether	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
4-Chloro-3-methylphenol	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
4-Chloroaniline	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
4-Chlorophenyl-phenylether	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
4-Nitroaniline	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
4-Nitrophenol	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Acenaphthene	< 180	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Acenaphthylene	< 180	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Anthracene	< 180	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Benzo(a)anthracene	< 180	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Benzo(a)pyrene	190	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Benzo(b)fluoranthene	290	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Benzo(g,h,i)perylene	220	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Benzo(k)fluoranthene	< 180	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Bis(2-chloroethoxy)methane	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported : 10/21/2015



Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 4 of 59



AS32217

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected : 10/12/2015 1:40:00 PM Received :10/12/2015

Collected By CLIENT

## LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT					
Analytical Method: SW8270D :	<u>Prep</u>	Method: SW	/3545A	Prep Date: 10/14/2015 9:21:17 PM	Analyst: GMV
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Bis(2-chloroethyl)ether	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Bis(2-ethylhexyl)phthalate	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Butyl benzyl phthalate	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Carbazole	< 180	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Chrysene	190	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Dibenzo(a,h)anthracene	< 180	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Dibenzofuran	< 180	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Diethylphthalate	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Dimethylphthalate	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Di-n-butyl phthalate	880 B	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Di-n-octyl phthalate	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Fluoranthene	220	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Fluorene	< 180	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Hexachlorobenzene	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Hexachlorobutadiene	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Hexachlorocyclopentadiene	< 360 c	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Hexachloroethane	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Indeno(1,2,3-cd)pyrene	< 180	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Isophorone	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Naphthalene	< 180	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
Nitrobenzene	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03
N-Nitroso-di-n-propylamine	< 360	1	μg/Kg-dry	10/16/2015 1:53 AM	Container-01 of 03

µg/Kg-dry

μg/Kg-dry

μg/Kg-dry

μg/Kg-dry

µg/Kg-dry

Limit 20-130

Limit 25-121

19-122

20-130

30-115

Limit

Limit

Limit

%REC

%REC

%REC

%REC

%REC

1

1

Lab No. : 1510856-001

Client Sample ID: TP010-N

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

N-Nitrosodiphenylamine

Surr: 1,2-Dichlorobenzene-d4

Surr: 2,4,6-Tribromophenol

Surr: 2-Chlorophenol-d4

Surr: 2-Fluorobiphenyl

Surr: 2-Fluorophenol

Pentachlorophenol

Phenanthrene

Phenol

Pyrene

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

< 360

< 360

< 180

< 360

220

59.3

44.0

65.1

74.6

61.4

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015



10/16/2015 1:53 AM

10/16/2015 1:53 AM Container-01 of 03

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 5 of 59

Container-01 of 03





LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Lab No. : 1510856-001

Client Sample ID: TP010-N

**Sample Information:** 

Type: Soil

Attn To: William A. Kotas

Collected : 10/12/2015 1:40:00 PM : 10/12/2015

AS32217

Origin:

Collected By CLIENT

Analytical Method: SW8270D :	Prep	Prep Method: SW3545A			Prep Dat	e: 10/14/2015 9:21:17 PM	Analyst: GMV
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Surr: 4-Terphenyl-d14	80.6	1	%REC	Limit	18-137	10/16/2015 1:53 AM	Container-01 of 03
Surr: Nitrobenzene-d5	81.7	1	%REC	Limit	23-120	10/16/2015 1:53 AM	Container-01 of 03
Surr: Phenol-d5	64.5	1	%REC	Limit	24-113	10/16/2015 1:53 AM	Container-01 of 03
NOTES:							
R= Di-n-butyl ohthalate found in me	thod blank @5 45ug/k	a-dry					

Received

			<u> </u>					
Analytical Method:	D2216:						Analyst: JL	
Parameter(s)		Results	Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:	
Percent Moisture		8.3		1	wt%	10/14/2015 5:49 PM	Container-01 of 03	

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015



Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 6 of 59



AS32218

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected : 10/12/2015 1:35:00 PM : 10/12/2015 Received

## LABORATORY RESULTS

Results for the samples and analytes requested

Lab No. : 1510856-002

Client Sample ID: TP010-E

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Analytical Method: SW8260C :		Pren M	Method: 503	35A-L		Analyst: KG
Parameter(s)	Results		<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,1,1-Trichloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,1,2,2-Tetrachloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,1,2-Trichloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,1-Dichloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,1-Dichloroethene	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,1-Dichloropropene	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,2,3-Trichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,2,3-Trichloropropane	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,2,4-Trichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,2,4-Trimethylbenzene	< 2.2	С	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,2-Dibromo-3-chloropropane	< 2.2	С	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,2-Dibromoethane	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,2-Dichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,2-Dichloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,2-Dichloropropane	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,3,5-Trimethylbenzene/P-ethyltoluene	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,3-Dichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,3-Dichloropropane	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
1,4-Dichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
2,2-Dichloropropane	< 2.2	С	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
2-Butanone	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
2-Chloroethylvinyl ether	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
2-Chlorotoluene/4-Chlorotoluene	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
2-Hexanone	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
4-Isopropyltoluene	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
4-Methyl-2-pentanone	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Acetone	< 11		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Benzene	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Bromobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Dramachlaramathana	400		4		10/16/201E 2:20 DM	Container 01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

Bromochloromethane

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

< 2.2

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015



10/16/2015 2:28 PM Container-01 of 01

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 7 of 59

µg/Kg-dry



AS32218

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected : 10/12/2015 1:35:00 PM Received :10/12/2015

## LABORATORY RESULTS

Results for the samples and analytes requested

Lab No. : 1510856-002

Client Sample ID: TP010-E

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT					
Analytical Method: SW8260C:	Prep N	Method: 503	35A-L		Analyst: KG
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Bromodichloromethane	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Bromoform	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Bromomethane	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Carbon disulfide	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Carbon tetrachloride	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Chlorobenzene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Chloroethane	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Chloroform	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Chloromethane	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
cis-1,2-Dichloroethene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
cis-1,3-Dichloropropene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Dibromochloromethane	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Dibromomethane	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Dichlorodifluoromethane	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Ethylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Hexachlorobutadiene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Isopropylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
m,p-Xylene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Methyl tert-butyl ether	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Methylene chloride	< 11	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Naphthalene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
n-Butylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
n-Propylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
o-Xylene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
sec-Butylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Styrene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
tert-Butylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Tetrachloroethene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Toluene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
trans-1,2-Dichloroethene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
trans-1,3-Dichloropropene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01
Trichloroethene	< 2.2	1	μg/Kg-dry	10/16/2015 2:28 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

Date Reported:

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

10/21/2015

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Test results meet the requirements of NELAC unless otherwise noted.

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Cathlin Panzarella

Project Manager

Page 8 of 59





Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Received :10/12/2015

Collected By CLIENT

Collected

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Client Sample ID: TP010-E : 10/12/2015 1:35:00 PM

Lab No. : 1510856-002

Analytical Method: SW8260C: Prep Method: 5035A-L Analyst: KG Parameter(s) Results Qualifier <u>D.F.</u> **Units** Analyzed: Container: Trichlorofluoromethane 10/16/2015 2:28 PM < 2.2 1 µg/Kg-dry Container-01 of 01 Vinyl acetate < 2.2 10/16/2015 2:28 PM Container-01 of 01 1 μg/Kg-dry Vinyl chloride < 2.2 1 μg/Kg-dry 10/16/2015 2:28 PM Container-01 of 01 Xylene (total) 10/16/2015 2:28 PM Container-01 of 01 < 2.2 µg/Kg-dry Surr: 1,2-Dichloroethane-d4 8.88 1 %REC Limit 33-145 10/16/2015 2:28 PM Container-01 of 01 Surr: 4-Bromofluorobenzene 77.7 1 %REC Limit 60-148 10/16/2015 2:28 PM Container-01 of 01 10/16/2015 2:28 PM Surr: Toluene-d8 100 1 %REC Limit 60-132 Container-01 of 01

Results may be biased low due to sample not being collected according to 5035A low level specifications.

AS32218

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

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J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015 Cathlin Panzarella

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 9 of 59



Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected :10/12/2015 1:35:00 PM

AS32218 Received : 10/12/2015

Collected By CLIENT

## LABORATORY RESULTS

Results for the samples and analytes requested

Lab No. : 1510856-002

Client Sample ID: TP010-E

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Analytical Method: SW8270D :	Prep N	Method: SW	/3545A	Prep Date: 10/14/2015 9:21:17 PM	Analyst: GMV
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
2,4,5-Trichlorophenol	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
2,4,6-Trichlorophenol	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
2,4-Dichlorophenol	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
2,4-Dimethylphenol	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
2,4-Dinitrophenol	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
2,4-Dinitrotoluene	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
2,6-Dinitrotoluene	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
2-Chloronaphthalene	< 190	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
2-Chlorophenol	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
2-Methylnaphthalene	< 190	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
2-Methylphenol	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
2-Nitroaniline	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
2-Nitrophenol	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
3,3´-Dichlorobenzidine	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
3-Methylphenol/4-Methylphenol	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
3-Nitroaniline	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
4,6-Dinitro-2-methylphenol	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
4-Bromophenyl-phenylether	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
4-Chloro-3-methylphenol	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
4-Chloroaniline	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
4-Chlorophenyl-phenylether	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
4-Nitroaniline	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
4-Nitrophenol	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
Acenaphthene	< 190	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
Acenaphthylene	< 190	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
Anthracene	< 190	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
Benzo(a)anthracene	< 190	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
Benzo(a)pyrene	< 190	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
Benzo(b)fluoranthene	< 190	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
Benzo(g,h,i)perylene	< 190	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
Benzo(k)fluoranthene	< 190	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0
Bis(2-chloroethoxy)methane	< 370	1	μg/Kg-dry	10/16/2015 12:27 AM	Container-01 of 0

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

Date Reported:

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

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c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

10/21/2015

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Test results meet the requirements of NELAC

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Cathlin Panzarella

Project Manager

Page 10 of 59

15100280 - Page 23 of 75

unless otherwise noted.



Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected : 10/12/2015 1:35:00 PM AS32218 Received : 10/12/2015

## LABORATORY RESULTS

Lab No. : 1510856-002

Client Sample ID: TP010-E

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT							
Analytical Method: SW8270D:		Prep M	Method: SW	/3545A		Prep Date: 10/14/2015 9:21:17 PM	Analyst: GMV
Parameter(s)	Results (	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>		Analyzed:	Container:
Bis(2-chloroethyl)ether	< 370		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Bis(2-ethylhexyl)phthalate	< 370		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Butyl benzyl phthalate	< 370		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Carbazole	< 190		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Chrysene	< 190		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Dibenzo(a,h)anthracene	< 190		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Dibenzofuran	< 190		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Diethylphthalate	< 370		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Dimethylphthalate	< 370		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Di-n-butyl phthalate	810		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Di-n-octyl phthalate	< 370		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Fluoranthene	< 190		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Fluorene	< 190		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Hexachlorobenzene	< 370		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Hexachlorobutadiene	< 370		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Hexachlorocyclopentadiene	< 370	С	1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Hexachloroethane	< 370		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Indeno(1,2,3-cd)pyrene	< 190		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Isophorone	< 370		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Naphthalene	< 190		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Nitrobenzene	< 370		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
N-Nitroso-di-n-propylamine	< 370		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
N-Nitrosodiphenylamine	< 370		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Pentachlorophenol	< 370		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Phenanthrene	< 190		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Phenol	< 370		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Pyrene	< 190		1	μg/Kg-dry		10/16/2015 12:27 A	M Container-01 of 01
Surr: 1,2-Dichlorobenzene-d4	63.9		1	%REC	Limit 2	20-130 10/16/2015 12:27 A	M Container-01 of 01
Surr: 2,4,6-Tribromophenol	74.1		1	%REC	Limit 1	9-122 10/16/2015 12:27 A	M Container-01 of 01
Surr: 2-Chlorophenol-d4	66.4		1	%REC	Limit 2	20-130 10/16/2015 12:27 A	M Container-01 of 01
Surr: 2-Fluorobiphenyl	84.7		1	%REC	Limit 3	30-115 10/16/2015 12:27 A	M Container-01 of 01
Surr: 2-Fluorophenol	63.9		1	%REC	Limit 2	25-121 10/16/2015 12:27 A	M Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

Date Reported:

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Test results meet the requirements of NELAC unless otherwise noted.

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Cathlin Panzarella

Project Manager

Page 11 of 59





: 10/12/2015 1:35:00 PM

TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Received :10/12/2015

Collected By CLIENT

## LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Analytical Method: SW8270D: Prep Method: SW3545A Prep Date: 10/14/2015 9:21:17 PM Analyst: GMV Parameter(s) Results Qualifier <u>D.F.</u> **Units** Analyzed: Container: Surr: 4-Terphenyl-d14 88.1 1 %REC Limit 18-137 10/16/2015 12:27 AM Container-01 of 01 Surr: Nitrobenzene-d5 77.3 1 %REC Limit 23-120 10/16/2015 12:27 AM Container-01 of 01 Surr: Phenol-d5 69.4 1 %REC Limit 24-113 10/16/2015 12:27 AM Container-01 of 01

Lab No. : 1510856-002

Client Sample ID: TP010-E

NOTES:

Collected

B= Di-n-butyl phthalate found in method blank @5.45ug/Kg-dry

AS32218

Analytical Method: D2:	216 :			Analyst: JL
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed: Container:
Percent Moisture	10.2	1	wt%	10/14/2015 5:50 PM Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

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D.F. = Dilution Factor D = Results for Dilution

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J = Estimated value - below calibration range

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N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015 Cathlin Panzarella

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 12 of 59



AS32219

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected : 10/12/2015 1:45:00 PM Received :10/12/2015

## LABORATORY RESULTS

Results for the samples and analytes requested

Lab No. : 1510856-003

Client Sample ID: TP010-S

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Analytical Method: SW8260C:		Prep N	Method: 500	35A-L		Analyst: KG
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 0
1,1,1-Trichloroethane	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 0
1,1,2,2-Tetrachloroethane	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 0
I,1,2-Trichloroethane	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 0
I,1-Dichloroethane	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 0
,1-Dichloroethene	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
,1-Dichloropropene	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 0
,2,3-Trichlorobenzene	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 0
,2,3-Trichloropropane	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 0
,2,4-Trichlorobenzene	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 0
,2,4-Trimethylbenzene	< 2.3	С	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
,2-Dibromo-3-chloropropane	< 2.3	С	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
,2-Dibromoethane	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
,2-Dichlorobenzene	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
,2-Dichloroethane	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
,2-Dichloropropane	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
,3,5-Trimethylbenzene/P- ethyltoluene	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
,3-Dichlorobenzene	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
,3-Dichloropropane	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
,4-Dichlorobenzene	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
2,2-Dichloropropane	< 2.3	С	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
-Butanone	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
2-Chloroethylvinyl ether	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
2-Chlorotoluene/4-Chlorotoluene	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
2-Hexanone	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
-Isopropyltoluene	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
-Methyl-2-pentanone	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
Acetone	< 12		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
Benzene	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
Bromobenzene	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of
Bromochloromethane	< 2.3		1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

Date Reported:

D.F. = Dilution Factor D = Results for Dilution

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10/21/2015

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Test results meet the requirements of NELAC unless otherwise noted.

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Cathlin Panzarella

Project Manager



575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

AS32219

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected : 10/12/2015 1:45:00 PM

Received: 10/12/2015

## LABORATORY RESULTS

Lab No. : 1510856-003

Client Sample ID: TP010-S

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Sample Information:

Type: Soil

Origin:

Collected By CLIENT					
Analytical Method: SW8260C:	Prep N	Method: 503	35A-L		Analyst: KG
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Bromodichloromethane	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Bromoform	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Bromomethane	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Carbon disulfide	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Carbon tetrachloride	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Chlorobenzene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Chloroethane	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Chloroform	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Chloromethane	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
cis-1,2-Dichloroethene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
cis-1,3-Dichloropropene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Dibromochloromethane	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Dibromomethane	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Dichlorodifluoromethane	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Ethylbenzene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Hexachlorobutadiene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Isopropylbenzene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
m,p-Xylene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Methyl tert-butyl ether	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Methylene chloride	< 12	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Naphthalene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
n-Butylbenzene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
n-Propylbenzene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
o-Xylene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
sec-Butylbenzene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Styrene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
tert-Butylbenzene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Tetrachloroethene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Toluene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
trans-1,2-Dichloroethene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
trans-1,3-Dichloropropene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Trichloroethene	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

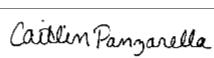
R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015



Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 14 of 59





Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected : 10/12/2015 1:45:00 PM Received : 10/12/2015

Collected By CLIENT

## LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

,					L
Analytical Method: SW8260C:	Prep N	<u>//ethod:</u> 503	55A-L		Analyst: KG
Parameter(s)	Results Qualifier	Results Qualifier D.F. Units			Container:
Trichlorofluoromethane	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Vinyl acetate	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Vinyl chloride	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Xylene (total)	< 2.3	1	μg/Kg-dry	10/16/2015 2:53 PM	Container-01 of 01
Surr: 1,2-Dichloroethane-d4	90.5	1	%REC Limit 33-145	10/16/2015 2:53 PM	Container-01 of 01
Surr: 4-Bromofluorobenzene	65.1	1	%REC Limit 60-148	10/16/2015 2:53 PM	Container-01 of 01
Surr: Toluene-d8	115	1	%REC Limit 60-132	10/16/2015 2:53 PM	Container-01 of 01

Lab No. : 1510856-003

Client Sample ID: TP010-S

Results may be biased low due to sample not being collected according to 5035A low level specifications.

AS32219

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015 Cathlin Panzarella

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 15 of 59



AS32219

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

William A. Kotas : 10/12/2015 1:45:00 PM

Received : 10/12/2015

Attn To:

Collected

## LABORATORY RESULTS

Lab No. : 1510856-003

Client Sample ID: TP010-S

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT					
Analytical Method: SW8270D :	Prep M	<u>//ethod:</u> SW	3545A	Prep Date: 10/14/2015 9:21:17 PM	Analyst: GMV
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
2,4,5-Trichlorophenol	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
2,4,6-Trichlorophenol	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
2,4-Dichlorophenol	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
2,4-Dimethylphenol	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
2,4-Dinitrophenol	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
2,4-Dinitrotoluene	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
2,6-Dinitrotoluene	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
2-Chloronaphthalene	< 190	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
2-Chlorophenol	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
2-Methylnaphthalene	< 190	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
2-Methylphenol	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
2-Nitroaniline	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
2-Nitrophenol	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
3,3'-Dichlorobenzidine	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
3-Methylphenol/4-Methylphenol	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
3-Nitroaniline	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
4,6-Dinitro-2-methylphenol	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
4-Bromophenyl-phenylether	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
4-Chloro-3-methylphenol	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
4-Chloroaniline	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
4-Chlorophenyl-phenylether	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
4-Nitroaniline	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
4-Nitrophenol	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
Acenaphthene	< 190	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
Acenaphthylene	< 190	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
Anthracene	< 190	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
Benzo(a)anthracene	350	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
Benzo(a)pyrene	540	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
Benzo(b)fluoranthene	1,100	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
Benzo(g,h,i)perylene	520	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
Benzo(k)fluoranthene	310	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01
Bis(2-chloroethoxy)methane	< 380	1	μg/Kg-dry	10/16/2015 4:16 AM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015



Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 16 of 59



AS32219

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected : 10/12/2015 1:45:00 PM Received :10/12/2015

## LABORATORY RESULTS

Results for the samples and analytes requested

Lab No. : 1510856-003

Client Sample ID: TP010-S

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT									
Analytical Method: SW8270D :		ethod: SW	ethod: SW3545A		Prep Date: 10/	14/2015 9:21:17 PM	Analyst: GMV		
Parameter(s)	Results Qu	alifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:	
Bis(2-chloroethyl)ether	< 380		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Bis(2-ethylhexyl)phthalate	< 380		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Butyl benzyl phthalate	< 380		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Carbazole	< 190		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Chrysene	590		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Dibenzo(a,h)anthracene	< 190		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Dibenzofuran	< 190		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Diethylphthalate	< 380		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Dimethylphthalate	< 380		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Di-n-butyl phthalate	590		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Di-n-octyl phthalate	< 380		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Fluoranthene	290		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Fluorene	< 190		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Hexachlorobenzene	< 380		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Hexachlorobutadiene	< 380		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Hexachlorocyclopentadiene	< 380	С	1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Hexachloroethane	< 380		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Indeno(1,2,3-cd)pyrene	460		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Isophorone	< 380		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Naphthalene	< 190		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Nitrobenzene	< 380		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
N-Nitroso-di-n-propylamine	< 380		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
N-Nitrosodiphenylamine	< 380		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Pentachlorophenol	< 380		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Phenanthrene	210		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Phenol	< 380		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Pyrene	320		1	μg/Kg-dry			10/16/2015 4:16 AM	Container-01 of 01	
Surr: 1,2-Dichlorobenzene-d4	49.2		1	%REC	Limit	20-130	10/16/2015 4:16 AM	Container-01 of 01	
Surr: 2,4,6-Tribromophenol	38.0		1	%REC	Limit	19-122	10/16/2015 4:16 AM	Container-01 of 01	
Surr: 2-Chlorophenol-d4	49.5		1	%REC	Limit	20-130	10/16/2015 4:16 AM	Container-01 of 01	
Surr: 2-Fluorobiphenyl	52.8		1	%REC	Limit	30-115	10/16/2015 4:16 AM	Container-01 of 01	
Surr: 2-Fluorophenol	44.9		1	%REC	Limit	25-121	10/16/2015 4:16 AM	Container-01 of 01	

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015



Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 17 of 59





: 10/12/2015 1:45:00 PM

TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

: 10/12/2015 Received

Results for the samples and analytes requested

LABORATORY RESULTS

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Lab No. : 1510856-003 Client Sample ID: TP010-S

Collected By CLIENT

Analytical Method: SW8270D :	Prep Method: SW3545A			Prep Da	te: 10/14/2015 9:21:17 PM	Analyst: GMV		
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Surr: 4-Terphenyl-d14	57.2		1	%REC	Limit	18-137	10/16/2015 4:16 AM	Container-01 of 01
Surr: Nitrobenzene-d5	60.1		1	%REC	Limit	23-120	10/16/2015 4:16 AM	Container-01 of 01
Surr: Phenol-d5	53.8		1	%REC	Limit	24-113	10/16/2015 4:16 AM	Container-01 of 01

### NOTES:

Collected

B= Di-n-butyl phthalate found in method blank @5.45ug/Kg-dry

AS32219

Analytical Method:	D2216 :						Analyst: JL	
Parameter(s)		Results	Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:	
Percent Moisture		13.6		1	wt%	10/14/2015 5:50 PM	Container-01 of 01	

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

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c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015 Cathlin Panzarella

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 18 of 59



AS32220

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected : 10/12/2015 1:30:00 PM :10/12/2015

Received

## LABORATORY RESULTS

Lab No. : 1510856-004

Client Sample ID: TP010-BOTTOM

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT								
Analytical Method: SW8260C :	Prep Method: 5035A-L			35A-L		Analyst: KG		
Parameter(s)	Results	Qualifier	D.F.	<u>Units</u>	Analyzed:	Container:		
1,1,1,2-Tetrachloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,1,1-Trichloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,1,2,2-Tetrachloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,1,2-Trichloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,1-Dichloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,1-Dichloroethene	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,1-Dichloropropene	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,2,3-Trichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,2,3-Trichloropropane	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,2,4-Trichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,2,4-Trimethylbenzene	< 2.2	С	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,2-Dibromo-3-chloropropane	< 2.2	С	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,2-Dibromoethane	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,2-Dichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,2-Dichloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,2-Dichloropropane	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,3,5-Trimethylbenzene/P-ethyltoluene	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,3-Dichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,3-Dichloropropane	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
1,4-Dichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
2,2-Dichloropropane	< 2.2	С	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
2-Butanone	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
2-Chloroethylvinyl ether	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
2-Chlorotoluene/4-Chlorotoluene	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
2-Hexanone	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
4-Isopropyltoluene	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
4-Methyl-2-pentanone	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
Acetone	12	В	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
Benzene	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
Bromobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		
Bromochloromethane	< 2.2		1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01		

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

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Test results meet the requirements of NELAC unless otherwise noted.

Cathlin Panzarella

Project Manager

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Date Reported: 10/21/2015 Page 19 of 59



AS32220

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected :10/12/2015 1:30:00 PM Received : 10/12/2015

### LABORATORY RESULTS

Results for the samples and analytes requested

Lab No. : 1510856-004

Client Sample ID: TP010-BOTTOM

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT					
Analytical Method: SW8260C:	Prep N	<u>1ethod:</u> 503	B5A-L		Analyst: KG
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Bromodichloromethane	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Bromoform	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Bromomethane	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Carbon disulfide	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Carbon tetrachloride	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Chlorobenzene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Chloroethane	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Chloroform	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Chloromethane	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
cis-1,2-Dichloroethene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
cis-1,3-Dichloropropene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Dibromochloromethane	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Dibromomethane	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Dichlorodifluoromethane	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Ethylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Hexachlorobutadiene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Isopropylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
m,p-Xylene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Methyl tert-butyl ether	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Methylene chloride	< 11	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Naphthalene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
n-Butylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
n-Propylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
o-Xylene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
sec-Butylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Styrene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
tert-Butylbenzene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Tetrachloroethene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Toluene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
trans-1,2-Dichloroethene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
trans-1,3-Dichloropropene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Trichloroethene	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015



Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 20 of 59





Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

:10/12/2015 1:30:00 PM

: 10/12/2015 Received

Results for the samples and analytes requested

LABORATORY RESULTS

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Lab No. : 1510856-004 Client Sample ID: TP010-BOTTOM

Collected By CLIENT

Collected

Analytical Method: SW8260C:	<u>Pre</u>	Method: 50		Analyst: KG	
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Trichlorofluoromethane	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Vinyl acetate	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Vinyl chloride	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Xylene (total)	< 2.2	1	μg/Kg-dry	10/16/2015 3:19 PM	Container-01 of 01
Surr: 1,2-Dichloroethane-d4	83.2	1	%REC Limit 33-145	10/16/2015 3:19 PM	Container-01 of 01
Surr: 4-Bromofluorobenzene	74.4	1	%REC Limit 60-148	10/16/2015 3:19 PM	Container-01 of 01
Surr: Toluene-d8	98.9	1	%REC Limit 60-132	10/16/2015 3:19 PM	Container-01 of 01

#### NOTES:

B= Analyte found in method blank @ 5.53 ug/kg.

Results may be biased low due to sample not being collected according to 5035A low level specifications.

AS32220

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015 Cathlin Panzarella

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 21 of 59



AS32220

:10/12/2015 1:30:00 PM

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

: 10/12/2015 Received

Collected

### LABORATORY RESULTS

Results for the samples and analytes requested

Lab No. : 1510856-004

Client Sample ID: TP010-BOTTOM

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Analytical Method:         SW8270D:         Perameter(s)         Results         Qualifier         D.E.         Units         Analyzat:         Analyzat:         Container.           2.4,5-Trichlorophenol         < 370         1         µg/Kg-dry         10/16/2015 445 AM         Container-01 of 01           2.4,6-Trichlorophenol         < 370         1         µg/Kg-dry         10/16/2015 445 AM         Container-01 of 01           2.4-Dinitrophenol         < 370         1         µg/Kg-dry         10/16/2015 445 AM         Container-01 of 01           2.4-Dinitrophenol         < 370         1         µg/Kg-dry         10/16/2015 445 AM         Container-01 of 01           2.4-Dinitrophenol         < 370         1         µg/Kg-dry         10/16/2015 445 AM         Container-01 of 01           2.4-Dinitrophenol         < 370         1         µg/Kg-dry         10/16/2015 445 AM         Container-01 of 01           2.6-Dinitrophenol         < 370         1         µg/Kg-dry         10/16/2015 445 AM         Container-01 of 01           2-Chlorophenol         < 370         1         µg/Kg-dry         10/16/2015 445 AM         Container-01 of 01           2-Methylphenol         < 370         1         µg/Kg-dry         10/16/2015 445 AM         Container-01 of 01      <	Collected By CLIENT					
2.4,6-Trichlorophenol         < 370	Analytical Method: SW8270D :	Prep N	Method: SW	/3545A	Prep Date: 10/14/2015 9:21:17 PM	Analyst: GMV
2.4.6-Trichlorophenol         < 370         1         µg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           2.4-Dichlorophenol         < 370         1         µg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           2.4-Dinitrophenol         < 370         1         µg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           2.4-Dinitrotoluene         < 370         1         µg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           2.4-Dinitrotoluene         < 370         1         µg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           2.6-Dinitrotoluene         < 370         1         µg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           2.Chlorophenol         < 370         1         µg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           2Methylaphthalene         < 180         1         µg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           2Methylaphthalene         < 180         1         µg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           2Mitrophenol         < 370         1         µg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           2Nitrophenol         < 370         1	Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
2.4-Dichlorophenol         < 370         1         µg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           2.4-Dimethylphenol         < 370	2,4,5-Trichlorophenol	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
2.4-Dimethylphenol         < 370         1         µg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           2.4-Dinitrophenol         < 370	2,4,6-Trichlorophenol	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
2.4-Dinitrophenol         < 370	2,4-Dichlorophenol	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
2.4-Dinitrotoluene         < 370         1         μg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           2.6-Dinitrotoluene         < 370	2,4-Dimethylphenol	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
2.6-Dinitrotoluene         < 370	2,4-Dinitrophenol	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
2-Chloronaphthalene         < 180         1         μg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           2-Chlorophenol         < 370	2,4-Dinitrotoluene	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
2-Chlorophenol	2,6-Dinitrotoluene	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
2-Methylnaphthalene         < 180         1         µg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           2-Methylphenol         < 370	2-Chloronaphthalene	< 180	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
2-Methylphenol         < 370         1         μg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           2-Nitroaniline         < 370	2-Chlorophenol	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
2-Nitroaniline	2-Methylnaphthalene	< 180	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
2-Nitrophenol	2-Methylphenol	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
3,3'-Dichlorobenzidine < 370 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 3-Methylphenol/4-Methylphenol < 370 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 3-Nitroaniline < 370 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4,6-Dinitro-2-methylphenol < 370 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Bromophenyl-phenylether < 370 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Chloro-3-methylphenol < 370 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Chloro-3-methylphenol < 370 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Chlorophenyl-phenylether < 370 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Chlorophenyl-phenylether < 370 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Nitrophenol < 370 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Nitrophenol < 370 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Nitrophenol < 370 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Acenaphthene < 180 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Acenaphthylene < 180 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Anthracene < 180 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(a)anthracene 1,900 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(a)pyrene 2,600 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(b)fluoranthene 5,100 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(b)fluoranthene 5,100 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(b)fluoranthene 5,100 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(b)fluoranthene 5,100 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(b)fluoranthene 1,300 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Gontainer-01 of 01 Gontainer-	2-Nitroaniline	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
3-Methylphenol/4-Methylphenol	2-Nitrophenol	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
3-Nitroaniline < 370 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4,6-Dinitro-2-methylphenol < 370 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Bromophenyl-phenylether < 370 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Chloro-3-methylphenol < 370 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Chloroaniline < 370 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Chlorophenyl-phenylether < 370 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Chlorophenyl-phenylether < 370 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Nitrophenol < 370 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Nitrophenol < 370 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Acenaphthene < 180 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Acenaphthylene < 180 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Anthracene < 180 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Anthracene < 180 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(a)anthracene < 1,900 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(a)pyrene 2,600 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(b)fluoranthene 5,100 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(b)fluoranthene 5,100 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(b)fluoranthene 5,100 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(b)fluoranthene 1,300 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(g,h,i)perylene 1,300 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01	3,3´-Dichlorobenzidine	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
4,6-Dinitro-2-methylphenol         < 370	3-Methylphenol/4-Methylphenol	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
4-Bromophenyl-phenylether       < 370	3-Nitroaniline	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
4-Chloro-3-methylphenol       < 370	4,6-Dinitro-2-methylphenol	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
4-Chloroaniline       < 370	4-Bromophenyl-phenylether	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
4-Chlorophenyl-phenylether < 370 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Nitroaniline < 370 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Nitrophenol < 370 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Acenaphthene < 180 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Acenaphthylene < 180 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Anthracene < 180 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(a)anthracene 1,900 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(a)pyrene 2,600 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(b)fluoranthene 5,100 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(g,h,i)perylene 1,300 1 µg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01	4-Chloro-3-methylphenol	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
4-Nitroaniline <370 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 4-Nitrophenol <370 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Acenaphthene <180 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Acenaphthylene <180 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Anthracene <180 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(a)anthracene 1,900 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(a)pyrene 2,600 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(b)fluoranthene 5,100 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(g,h,i)perylene 1,300 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01 Benzo(g,h,i)perylene 1,300 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01	4-Chloroaniline	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
4-Nitrophenol       < 370	4-Chlorophenyl-phenylether	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Acenaphthene       < 180       1       μg/Kg-dry       10/16/2015 4:45 AM       Container-01 of 01         Acenaphthylene       < 180	4-Nitroaniline	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Acenaphthylene       < 180       1       µg/Kg-dry       10/16/2015 4:45 AM       Container-01 of 01         Anthracene       < 180	4-Nitrophenol	< 370	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Anthracene         < 180         1         μg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           Benzo(a)anthracene         1,900         1         μg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           Benzo(a)pyrene         2,600         1         μg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           Benzo(b)fluoranthene         5,100         1         μg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           Benzo(g,h,i)perylene         1,300         1         μg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01	Acenaphthene	< 180	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Benzo(a)anthracene         1,900         1         μg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           Benzo(a)pyrene         2,600         1         μg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           Benzo(b)fluoranthene         5,100         1         μg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01           Benzo(g,h,i)perylene         1,300         1         μg/Kg-dry         10/16/2015 4:45 AM         Container-01 of 01	Acenaphthylene	< 180	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Benzo(a)pyrene       2,600       1       μg/Kg-dry       10/16/2015 4:45 AM       Container-01 of 01         Benzo(b)fluoranthene       5,100       1       μg/Kg-dry       10/16/2015 4:45 AM       Container-01 of 01         Benzo(g,h,i)perylene       1,300       1       μg/Kg-dry       10/16/2015 4:45 AM       Container-01 of 01	Anthracene	< 180	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Benzo(b)fluoranthene       5,100       1       μg/Kg-dry       10/16/2015 4:45 AM       Container-01 of 01         Benzo(g,h,i)perylene       1,300       1       μg/Kg-dry       10/16/2015 4:45 AM       Container-01 of 01	Benzo(a)anthracene	1,900	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Benzo(g,h,i)perylene 1,300 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01	Benzo(a)pyrene	2,600	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
	Benzo(b)fluoranthene	5,100	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Benzo(k)fluoranthene 1,600 1 μg/Kg-dry 10/16/2015 4:45 AM Container-01 of 01	Benzo(g,h,i)perylene	1,300	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
	Benzo(k)fluoranthene	1,600	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

Bis(2-chloroethoxy)methane

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

< 370

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015 Cathlin Panzarella

10/16/2015 4:45 AM Container-01 of 01

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 22 of 59

μg/Kg-dry

1



575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

AS32220

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected : 10/12/2015 1:30:00 PM Received : 10/12/2015

Collected By CLIENT

### LABORATORY RESULTS

Results for the samples and analytes requested

Lab No. : 1510856-004

Client Sample ID: TP010-BOTTOM

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Sample Information:

Type: Soil

Origin:

Analytical Method: SW8270D :		Prep N	Method: SW	/3545A	Prep Date: 10/14/2015 9:21:17 PM	Analyst: GMV
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Bis(2-chloroethyl)ether	< 370		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Bis(2-ethylhexyl)phthalate	< 370		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Butyl benzyl phthalate	< 370		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Carbazole	< 180		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Chrysene	2,400		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Dibenzo(a,h)anthracene	440		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Dibenzofuran	< 180		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Diethylphthalate	< 370		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Dimethylphthalate	< 370		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Di-n-butyl phthalate	1,000		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Di-n-octyl phthalate	< 370		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Fluoranthene	2,100		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Fluorene	< 180		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Hexachlorobenzene	< 370		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Hexachlorobutadiene	< 370		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Hexachlorocyclopentadiene	< 370	С	1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Hexachloroethane	< 370		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Indeno(1,2,3-cd)pyrene	1,300		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Isophorone	< 370		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Naphthalene	< 180		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Nitrobenzene	< 370		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
N-Nitroso-di-n-propylamine	< 370		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
N-Nitrosodiphenylamine	< 370		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Pentachlorophenol	< 370		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Phenanthrene	690		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01
Phenol	< 370		1	μg/Kg-dry	10/16/2015 4:45 AM	Container-01 of 01

μg/Kg-dry

Limit 20-130

Limit 30-115

Limit 25-121

19-122

20-130

Limit

Limit

%REC

%REC

%REC

%REC

%REC

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

Pyrene

D.F. = Dilution Factor D = Results for Dilution

Surr: 1,2-Dichlorobenzene-d4

Surr: 2,4,6-Tribromophenol

Surr: 2-Chlorophenol-d4

Surr: 2-Fluorobiphenyl

Surr: 2-Fluorophenol

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

2.000

72.4

75.1

82.7

120

75.9

S

1

1

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported : 10/21/2015



10/16/2015 4:45 AM

10/16/2015 4:45 AM Container-01 of 01

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 23 of 59

Container-01 of 01





Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected :10/12/2015 1:30:00 PM Received : 10/12/2015

Collected By CLIENT

### LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Lab No. : 1510856-004 Client Sample ID: TP010-BOTTOM

Analytical Method: SW8270D :		Prep N	<u>/lethod:</u> SW	/3545A		Prep Da	te: 10/14/2015 9:21:17 PM	Analyst: GMV
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Surr: 4-Terphenyl-d14	109		1	%REC	Limit	18-137	10/16/2015 4:45 AM	Container-01 of 01
Surr: Nitrobenzene-d5	86.8		1	%REC	Limit	23-120	10/16/2015 4:45 AM	Container-01 of 01
Surr: Phenol-d5	86.7		1	%REC	Limit	24-113	10/16/2015 4:45 AM	Container-01 of 01

#### NOTES:

B= Di-n-butyl phthalate found in method blank @5.45ug/Kg-dry

AS32220

Analytical Method:	D2216 :						Analyst: JL
Parameter(s)		Results	Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Percent Moisture		9.8		1	wt%	10/14/2015 5:51 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015 Cathlin Panzarella

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 24 of 59



AS32221

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected :10/12/2015 Received : 10/12/2015

#### LABORATORY RESULTS

Lab No. : 1510856-005

Client Sample ID: DUP-X

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT						
Analytical Method: SW8260C :		Prep N	/lethod: 50	35A-L		Analyst: KG
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,1,1-Trichloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,1,2,2-Tetrachloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,1,2-Trichloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,1-Dichloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,1-Dichloroethene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,1-Dichloropropene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,2,3-Trichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,2,3-Trichloropropane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,2,4-Trichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,2,4-Trimethylbenzene	< 2.2	С	1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,2-Dibromo-3-chloropropane	< 2.2	С	1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,2-Dibromoethane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,2-Dichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,2-Dichloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,2-Dichloropropane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,3,5-Trimethylbenzene/P- ethyltoluene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,3-Dichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,3-Dichloropropane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
1,4-Dichlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
2,2-Dichloropropane	< 2.2	С	1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
2-Butanone	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
2-Chloroethylvinyl ether	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
2-Chlorotoluene/4-Chlorotoluene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
2-Hexanone	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
4-Isopropyltoluene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
4-Methyl-2-pentanone	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Acetone	< 11		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Benzene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Bromobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Bromochloromethane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

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S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015



Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 25 of 59



Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected :10/12/2015

#### LABORATORY RESULTS

Results for the samples and analytes requested

Lab No. : 1510856-005

Client Sample ID: DUP-X

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

AS32221 Received :10/12/2015 Collected By CLIENT

Analytical Method: SW8260C :		Prep M	lethod: 503	5A-L		Analyst: KG
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Bromodichloromethane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Bromoform	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Bromomethane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Carbon disulfide	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Carbon tetrachloride	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Chlorobenzene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Chloroethane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Chloroform	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Chloromethane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
cis-1,2-Dichloroethene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
cis-1,3-Dichloropropene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Dibromochloromethane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Dibromomethane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Dichlorodifluoromethane	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Ethylbenzene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Hexachlorobutadiene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Isopropylbenzene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
m,p-Xylene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Methyl tert-butyl ether	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Methylene chloride	< 11		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Naphthalene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
n-Butylbenzene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
n-Propylbenzene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
o-Xylene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
sec-Butylbenzene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Styrene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
tert-Butylbenzene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Tetrachloroethene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Toluene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
trans-1,2-Dichloroethene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
trans-1,3-Dichloropropene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Trichloroethene	< 2.2		1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

Date Reported:

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

10/21/2015

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Test results meet the requirements of NELAC unless otherwise noted.

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Page 26 of 59

Cathlin Panzarella

Project Manager





575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

tady, NY 12308

William A. Kotas

Collected By CLIENT

Attn To:

#### LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Sample Information:

Type: Soil

Origin:

Client Sample ID: DUP-X

Analytical Method: SW8260C:	Prep N	Method: 503	35A-L		Analyst: KG
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Trichlorofluoromethane	< 2.2	1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Vinyl acetate	< 2.2	1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Vinyl chloride	< 2.2	1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Xylene (total)	< 2.2	1	μg/Kg-dry	10/16/2015 4:09 PM	Container-01 of 01
Surr: 1,2-Dichloroethane-d4	88.5	1	%REC Limit 33-145	10/16/2015 4:09 PM	Container-01 of 01
Surr: 4-Bromofluorobenzene	75.5	1	%REC Limit 60-148	10/16/2015 4:09 PM	Container-01 of 01
Surr: Toluene-d8	99.9	1	%REC Limit 60-132	10/16/2015 4:09 PM	Container-01 of 01

Lab No. : 1510856-005

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

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c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015



Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 27 of 59



Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected :10/12/2015 R

### LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Received : 10/12/2015	AS32221		
Collected By CLIENT			
Analytical Method: SW8270D :	Prep Method: SW3545A	Prep Date: 10/14/2015 9:21:17 PM	I

Client Sample ID: DUP-X

Lab No. : 1510856-005

Analytical Method: SW8270D :	<u>P</u>	rep Method: SW3	3545A	Prep Date: 10/14/2015 9:21:17 PM	Analyst: GMV
Parameter(s)	Results Qualifi	er <u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
2,4,5-Trichlorophenol	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
2,4,6-Trichlorophenol	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
2,4-Dichlorophenol	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
2,4-Dimethylphenol	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
2,4-Dinitrophenol	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
2,4-Dinitrotoluene	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
2,6-Dinitrotoluene	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
2-Chloronaphthalene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
2-Chlorophenol	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
2-Methylnaphthalene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
2-Methylphenol	< 360	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
2-Nitroaniline	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
2-Nitrophenol	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
3,3´-Dichlorobenzidine	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
3-Methylphenol/4-Methylphenol	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
3-Nitroaniline	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
4,6-Dinitro-2-methylphenol	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
4-Bromophenyl-phenylether	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
4-Chloro-3-methylphenol	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
4-Chloroaniline	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
4-Chlorophenyl-phenylether	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
4-Nitroaniline	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
4-Nitrophenol	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Acenaphthene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Acenaphthylene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Anthracene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Benzo(a)anthracene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Benzo(a)pyrene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Benzo(b)fluoranthene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Benzo(g,h,i)perylene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Benzo(k)fluoranthene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Bis(2-chloroethoxy)methane	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

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Date Reported: 10/21/2015



Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 28 of 59



AS32221

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected :10/12/2015 : 10/12/2015 Received

### LABORATORY RESULTS

Results for the samples and analytes requested

Lab No. : 1510856-005

Client Sample ID: DUP-X

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT					
Analytical Method: SW8270D:	<u>Pre</u> j	o Method: SW	/3545A	Prep Date: 10/14/2015 9:21:17 PM	Analyst: GMV
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Bis(2-chloroethyl)ether	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Bis(2-ethylhexyl)phthalate	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Butyl benzyl phthalate	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Carbazole	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Chrysene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Dibenzo(a,h)anthracene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Dibenzofuran	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Diethylphthalate	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Dimethylphthalate	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Di-n-butyl phthalate	770	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Di-n-octyl phthalate	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Fluoranthene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Fluorene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Hexachlorobenzene	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Hexachlorobutadiene	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Hexachlorocyclopentadiene	< 370 c	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Hexachloroethane	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Indeno(1,2,3-cd)pyrene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Isophorone	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Naphthalene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Nitrobenzene	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
N-Nitroso-di-n-propylamine	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
N-Nitrosodiphenylamine	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Pentachlorophenol	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Phenanthrene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Phenol	< 370	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Pyrene	< 180	1	μg/Kg-dry	10/15/2015 10:32 PM	Container-01 of 01
Surr: 1,2-Dichlorobenzene-d4	65.0	1	%REC Limi	t 20-130 10/15/2015 10:32 PM	Container-01 of 01
Surr: 2,4,6-Tribromophenol	65.5	1	%REC Limi	t 19-122 10/15/2015 10:32 PM	Container-01 of 01
Surr: 2-Chlorophenol-d4	64.0	1	%REC Limi	t 20-130 10/15/2015 10:32 PM	Container-01 of 01
Surr: 2-Fluorobiphenyl	70.1	1	%REC Limi	t 30-115 10/15/2015 10:32 PM	Container-01 of 01
Surr: 2-Fluorophenol	66.7	1	%REC Limi	t 25-121 10/15/2015 10:32 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Test results meet the requirements of NELAC unless otherwise noted.

Cathlin Panzarella

Project Manager

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Date Reported: 10/21/2015 Page 29 of 59





2190 Technology Drive Schenectady, NY 12308

Pace Analytical Services Inc.

AS32221

74.4

William A. Kotas

Collected :10/12/2015 :10/12/2015 Received

Collected By CLIENT

Surr: Phenol-d5

Attn To:

### LABORATORY RESULTS

Results for the samples and analytes requested

Limit 24-113

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:** 

Type: Soil

Origin:

10/15/2015 10:32 PM Container-01 of 01

_										
	Analytical Method: SW8270D :		Prep M	lethod: SW	/3545A		Prep Date:	10/14/2015 9:21:17 PM	Analyst: GMV	_
	Parameter(s)	Results (	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:	
	Surr: 4-Terphenyl-d14	76.7		1	%REC	Limit	18-137	10/15/2015 10:32 PM	Container-01 of 01	
	Surr: Nitrobenzene-d5	75.1		1	%REC	Limit	23-120	10/15/2015 10:32 PM	Container-01 of 01	

%REC

Lab No. : 1510856-005

Client Sample ID: DUP-X

#### NOTES:

B= Di-n-butyl phthalate found in method blank @5.45ug/Kg-dry

Analytical Method:	D2216:						Analyst: JL	
Parameter(s)		Results	Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:	
Percent Moisture		9.7		1	wt%	10/14/2015 5:51 PM	Container-01 of 01	

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported: 10/21/2015 Cathlin Panzarella

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 30 of 59



## **QC SUMMARY REPORT**

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: 52441

Website: www.pacelabs.com

Sample ID MB-52441	SampType: MBLK	TestCode: 8270_SST	'AR Units: μg/Kg		Prep Date:	10/14/2015	RunNo: <b>85265</b>	
Client ID: PBS	Batch ID: <b>52441</b>	TestNo: SW8270	SW3545	Ar	nalysis Date:	10/15/2015	SeqNo: <b>1847886</b>	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit H	ighLimit RPD Ref Val	%RPD RPDLimit	Qual
Acenaphthylene	< 330	330						
Naphthalene	< 330	330						
Acenaphthene	< 330	330						
Fluorene	< 330	330						
Phenanthrene	< 330	330						
Anthracene	< 330	330						
Fluoranthene	< 330	330						
Pyrene	< 330	330						
Benzo(a)anthracene	< 330	330						
Chrysene	< 330	330						
Benzo(b)fluoranthene	< 330	330						
Benzo(k)fluoranthene	< 330	330						
Benzo(a)pyrene	< 330	330						
Indeno(1,2,3-cd)pyrene	< 330	330						
Dibenzo(a,h)anthracene	< 330	330						
Benzo(g,h,i)perylene	< 330	330						
Surr: Nitrobenzene-d5	1,200	1,667		69.1	23	120		
Surr: 2-Fluorobiphenyl	1,200	1,667		69.7	30	115		
Surr: 4-Terphenyl-d14	1,500	1,667		90.7	18	137		
Surr: 1,2-Dichlorobenzene-d4	1,100	1,667		68.6	20	130		

Sample ID LFB-52441	SampType: <b>LFB</b>	TestCode: 8270_SSTAR	Units: µg/Kg	Prep Date: 10/14/2015	RunNo: <b>85265</b>
Client ID: ZZZZZZ	Batch ID: <b>52441</b>	TestNo: SW8270	SW3545	Analysis Date: 10/15/2015	SeqNo: <b>1847887</b>
Analyte	Result	PQL SPK value SPK	Ref Val %REC	LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 31 of 59





Website: www.pacelabs.com

**QC SUMMARY REPORT** 

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: 52441

Sample ID LFB-52441	SampType: <b>LFB</b>	TestCo	de: <b>8270_SST</b> A	λR Units: μg/Kg		Prep Date	e: <b>10/14/2</b>	015	RunNo: 85	265	
Client ID: ZZZZZZ	Batch ID: 52441	TestN	No: <b>SW8270</b>	SW3545		Analysis Date	e: <b>10/15/2</b>	015	SeqNo: 184	47887	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	1,200	330	1,667	0	70.0	43	107				
Naphthalene	1,300	330	1,667	0	77.8	18	142				
Acenaphthene	1,100	330	1,667	0	68.5	45	109				
Fluorene	1,400	330	1,667	0	85.1	47	108				
Phenanthrene	1,100	330	1,667	0	67.6	47	124				
Anthracene	1,200	330	1,667	0	69.7	50	117				
Fluoranthene	1,300	330	1,667	0	76.9	45	126				
Pyrene	1,300	330	1,667	0	77.5	49	132				
Benzo(a)anthracene	1,200	330	1,667	0	71.0	52	116				
Chrysene	1,300	330	1,667	0	75.1	48	121				
Benzo(b)fluoranthene	1,400	330	1,667	0	81.8	45	122				
Benzo(k)fluoranthene	1,400	330	1,667	0	82.5	54	124				
Benzo(a)pyrene	1,300	330	1,667	0	76.0	56	119				
Indeno(1,2,3-cd)pyrene	1,500	330	1,667	0	89.9	50	108				
Dibenzo(a,h)anthracene	1,400	330	1,667	0	85.7	52	109				
Benzo(g,h,i)perylene	1,600	330	1,667	0	94.2	30	107				
Surr: Nitrobenzene-d5	1,400		1,667		84.4	23	120				
Surr: 2-Fluorobiphenyl	1,300		1,667		78.9	30	115				
Surr: 4-Terphenyl-d14	1,400		1,667		81.1	18	137				
Surr: 1,2-Dichlorobenzene-d4	1,200		1,667		69.4	20	130				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 32 of 59



Website: www.pacelabs.com

**QC SUMMARY REPORT** 

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: 52441

Sample ID MB-52441	SampType: MBLK		de: <b>8270_S_T</b>	CL Units: μg/Kg		Prep Dat		2015	RunNo: 852		
Client ID: PBS	Batch ID: 52441	TestN	lo: <b>SW8270</b>	SW3545		Analysis Dat	e: <b>10/15/</b> 2	2015	SeqNo: 184	17774	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	< 330	330									
Acenaphthylene	< 330	330									
Acenaphthene	< 330	330									
Fluorene	< 330	330									
Phenanthrene	< 330	330									
Anthracene	< 330	330									
Fluoranthene	< 330	330									
Pyrene	< 330	330									
Benzo(a)anthracene	< 330	330									
Chrysene	< 330	330									
Benzo(b)fluoranthene	< 330	330									
Benzo(k)fluoranthene	< 330	330									
Benzo(a)pyrene	< 330	330									
Indeno(1,2,3-cd)pyrene	< 330	330									
Dibenzo(a,h)anthracene	< 330	330									
Benzo(g,h,i)perylene	< 330	330									
Surr: 2-Fluorophenol	1,800		2,500		70.5	25	121				
Surr: Nitrobenzene-d5	1,200		1,667		69.1	23	120				
Surr: Phenol-d5	1,800		2,500		71.4	24	113				
Surr: 2,4,6-Tribromophenol	1,500		2,500		58.9	19	122				
Surr: 2-Fluorobiphenyl	1,200		1,667		69.7	30	115				
Surr: 4-Terphenyl-d14	1,500		1,667		90.7	18	137				
Surr: 2-Chlorophenol-d4	1,900		2,500		74.4	20	130				
Surr: 1,2-Dichlorobenzene-d4	1,100		1,667		68.6	20	130				

Qualifiers:

- Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 33 of 59





**QC SUMMARY REPORT** 

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: 52441

Website: www.pacelabs.com

Sample ID LFB-52441	SampType: <b>LFB</b>	TestCod	de: <b>8270_S_T</b> (	CL Units: µg/Kg		Prep Date:	10/14/2	2015	RunNo: 852	241	
Client ID: ZZZZZZ	Batch ID: 52441	TestN	lo: <b>SW8270</b>	SW3545		Analysis Date:	10/15/2	2015	SeqNo: 184	<b>1</b> 7775	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit F	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,300	330	1,667	0	77.8	18	142				
Acenaphthylene	1,200	330	1,667	0	70.0	43	107				
Acenaphthene	1,100	330	1,667	0	68.5	45	109				
Fluorene	1,400	330	1,667	0	85.1	47	108				
Phenanthrene	1,100	330	1,667	0	67.6	47	124				
Anthracene	1,200	330	1,667	0	69.7	50	117				
Fluoranthene	1,300	330	1,667	0	76.9	45	126				
Pyrene	1,300	330	1,667	0	77.5	49	132				
Benzo(a)anthracene	1,200	330	1,667	0	71.0	52	116				
Chrysene	1,300	330	1,667	0	75.1	48	121				
Benzo(b)fluoranthene	1,400	330	1,667	0	81.8	45	122				
Benzo(k)fluoranthene	1,400	330	1,667	0	82.5	54	124				
Benzo(a)pyrene	1,300	330	1,667	0	76.0	56	119				
Indeno(1,2,3-cd)pyrene	1,500	220	1,667	0	89.9	50	108				
Dibenzo(a,h)anthracene	1,400	220	1,667	0	85.7	52	109				
Benzo(g,h,i)perylene	1,600	330	1,667	0	94.2	30	107				
Surr: 2-Fluorophenol	1,800		2,500		70.0	25	121				
Surr: Nitrobenzene-d5	1,400		1,667		84.4	23	120				
Surr: Phenol-d5	1,700		2,500		68.5	24	113				
Surr: 2,4,6-Tribromophenol	2,100		2,500		83.8	19	122				
Surr: 2-Fluorobiphenyl	1,300		1,667		78.9	30	115				
Surr: 4-Terphenyl-d14	1,400		1,667		81.1	18	137				
Surr: 2-Chlorophenol-d4	1,900		2,500		74.6	20	130				
Surr: 1,2-Dichlorobenzene-d4	1,200		1,667		69.4	20	130				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 34 of 59



Website: www.pacelabs.com

**QC SUMMARY REPORT** 

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: 52441

Sample ID MB-52441 Client ID: PBS	SampType: MBLK Batch ID: 52441		de: <b>8270_S_4-</b> No: <b>SW8270</b>	2 Units: μg/Kg SW3545		Prep Da Analysis Da	1/2015 5/2015	RunNo: 852 SeqNo: 184		
Analyte	Result	PQL		SPK Ref Val	%REC	•	t RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	< 330	330								
Bis(2-chloroethyl)ether	< 330	330								
2-Chlorophenol	< 330	330								
2-Methylphenol	< 330	330								
N-Nitroso-di-n-propylamine	< 330	330								
Hexachloroethane	< 330	330								
Nitrobenzene	< 330	330								
Isophorone	< 330	330								
2-Nitrophenol	< 330	330								
2,4-Dimethylphenol	< 330	330								
Bis(2-chloroethoxy)methane	< 330	330								
2,4-Dichlorophenol	< 330	330								
Naphthalene	< 330	330								
4-Chloroaniline	< 330	330								
Hexachlorobutadiene	< 330	330								
4-Chloro-3-methylphenol	< 330	330								
2-Methylnaphthalene	< 330	330								
Hexachlorocyclopentadiene	< 330	330								
2,4,6-Trichlorophenol	< 330	330								
2,4,5-Trichlorophenol	< 830	830								
2-Chloronaphthalene	< 330	330								
2-Nitroaniline	< 830	830								
Dimethylphthalate	< 330	330								
2,6-Dinitrotoluene	< 330	330								
Acenaphthylene	< 330	330								
3-Nitroaniline	< 830	830								

- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 35 of 59



Website: www.pacelabs.com

# **QC SUMMARY REPORT**

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: 52441

Sample ID MB-52441	SampType: MBLK	TestCod	e: <b>8270_S_4</b> -	2 Units: μg/Kg		Prep Da	nte: 10/14	1/2015	RunNo: 85	262	
Client ID: PBS	Batch ID: 52441	TestN	lo: <b>SW8270</b>	SW3545		Analysis Da	nte: 10/1	5/2015	SeqNo: 184	47785	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLim	t RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	< 330	330									
2,4-Dinitrophenol	< 830	830									
4-Nitrophenol	< 830	830									
Dibenzofuran	< 330	330									
2,4-Dinitrotoluene	< 330	330									
Diethylphthalate	< 330	330									
Fluorene	< 330	330									
4-Chlorophenyl-phenylether	< 330	330									
4-Nitroaniline	< 830	830									
4,6-Dinitro-2-methylphenol	< 830	830									
N-Nitrosodiphenylamine	< 330	330									
4-Bromophenyl-phenylether	< 330	330									
Hexachlorobenzene	< 330	330									
Pentachlorophenol	< 830	830									
Phenanthrene	< 330	330									
Anthracene	< 330	330									
Carbazole	< 330	330									
Di-n-butyl phthalate	360	330									
Fluoranthene	< 330	330									
Pyrene	< 330	330									
Butyl benzyl phthalate	< 330	330									
3,3'-Dichlorobenzidine	< 330	330									
Benzo(a)anthracene	< 330	330									
Chrysene	< 330	330									
Bis(2-ethylhexyl)phthalate	< 330	330									
Di-n-octyl phthalate	< 330	330									
Qualifiers: * Value exce	eds Maximum Contaminant Lev	el	D Dilutio	n was required.			Е	Value above quan	ntitation range		
•	nes for preparation or analysis ex			I Integration used to d	etermine a	rea resnonse	ND	Not Detected at the	_	nit	

- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 36 of 59



Website: www.pacelabs.com

## **QC SUMMARY REPORT**

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: 52441

Sample ID MB-52441	SampType: MBLK	TestCode: 8270_S_4-2	Units: µg/Kg		Prep Date	e: <b>10/14/2</b>	015	RunNo: 852	262	
Client ID: PBS	Batch ID: 52441	TestNo: SW8270	SW3545		Analysis Date	e: <b>10/15/2</b>	015	SeqNo: 184	<b>47785</b>	
Analyte	Result	PQL SPK value SF	PK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	< 330	330								
Benzo(k)fluoranthene	< 330	330								
Benzo(a)pyrene	< 330	330								
Indeno(1,2,3-cd)pyrene	< 330	330								
Dibenzo(a,h)anthracene	< 330	330								
Benzo(g,h,i)perylene	< 330	330								
Surr: 2-Fluorophenol	1,800	2,500		70.5	25	121				
Surr: Nitrobenzene-d5	1,200	1,667		69.1	23	120				
Surr: Phenol-d5	1,800	2,500		71.4	24	113				
Surr: 2,4,6-Tribromophenol	1,500	2,500		58.9	19	122				
Surr: 2-Fluorobiphenyl	1,200	1,667		69.7	30	115				
Surr: 4-Terphenyl-d14	1,500	1,667		90.7	18	137				
Surr: 2-Chlorophenol-d4	1,900	2,500		74.4	20	130				
Surr: 1,2-Dichlorobenzene-d4	1,100	1,667		68.6	20	130				

Sample ID LFB-52441	SampType: <b>LFB</b>		de: <b>8270_S_4-</b> 2			•	te: 10/14/2		RunNo: 85		
Client ID: ZZZZZZ	Batch ID: <b>52441</b>	TestN	No: <b>SW8270</b>	SW3545		Analysis Da	te: 10/15/2	2015	SeqNo: 18	47786	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	1,100	330	1,667	0	66.6	38	104				
Bis(2-chloroethyl)ether	1,000	330	1,667	0	62.1	32	116				
2-Chlorophenol	1,100	330	1,667	0	68.1	36	109				
2-Methylphenol	1,100	330	1,667	0	68.4	36	104				
N-Nitroso-di-n-propylamine	1,200	330	1,667	0	72.5	33	109				
Hexachloroethane	1,200	330	1,667	0	69.5	34	105				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 37 of 59



**QC SUMMARY REPORT** 

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: 52441

Website: www.pacelabs.com

Sample ID LFB-52441	SampType: <b>LFB</b>	TestCod	de: <b>8270_S_4-</b> 2	2 Units: μg/Kg		Prep Da	te: 10/14/2	2015	RunNo: 852	262	
Client ID: ZZZZZZ	Batch ID: <b>52441</b>		No: <b>SW8270</b>	SW3545		Analysis Da			SeqNo: 184		
CHOICES. ELLEL	Batomis. <b>V2</b> 441	10011	10. 0110270	01100-10		7 tildiyolo Da	10/10/2	.010	00q/10. 10-	77 700	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrobenzene	1,300	330	1,667	0	79.2	36	119				
Isophorone	1,300	330	1,667	0	77.3	14	129				
2-Nitrophenol	1,200	330	1,667	0	70.7	36	117				
2,4-Dimethylphenol	940	330	1,667	0	56.3	24	96				
Bis(2-chloroethoxy)methane	1,400	330	1,667	0	82.5	29	112				
2,4-Dichlorophenol	1,400	330	1,667	0	81.2	41	117				
Naphthalene	1,300	330	1,667	0	77.8	18	142				
4-Chloroaniline	840	330	1,667	0	50.4	29	88				
Hexachlorobutadiene	1,300	330	1,667	0	76.4	36	118				
4-Chloro-3-methylphenol	1,500	330	1,667	0	89.4	45	118				
2-Methylnaphthalene	1,200	330	1,667	0	74.8	31	135				
Hexachlorocyclopentadiene	760	330	1,667	0	45.4	10	97				
2,4,6-Trichlorophenol	1,200	330	1,667	0	74.1	45	110				
2,4,5-Trichlorophenol	1,200	830	1,667	0	69.3	45	111				
2-Chloronaphthalene	1,300	330	1,667	0	77.4	35	107				
2-Nitroaniline	1,400	830	1,667	0	85.0	42	118				
Dimethylphthalate	1,300	330	1,667	0	76.7	49	112				
2,6-Dinitrotoluene	1,200	330	1,667	0	73.9	50	109				
Acenaphthylene	1,200	330	1,667	0	70.0	43	107				
3-Nitroaniline	1,100	830	1,667	0	64.6	40	95				
Acenaphthene	1,100	330	1,667	0	68.5	45	109				
2,4-Dinitrophenol	< 830	830	1,667	0	40.7	10	80				
4-Nitrophenol	1,800	830	1,667	0	108	26	118				
Dibenzofuran	1,400	330	1,667	0	81.3	48	112				
2,4-Dinitrotoluene	1,400	330	1,667	0	83.8	49	112				
Diethylphthalate	1,300	330	1,667	0	79.6	51	114				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 38 of 59



Website: www.pacelabs.com

## **QC SUMMARY REPORT**

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: 52441

Sample ID LFB-52441	SampType: <b>LFB</b>	TestCo	de: <b>8270_S_4-2</b>	Units: µg/Kg		Prep Date:	10/14/2	015	RunNo: 852	262	
Client ID: ZZZZZZ	Batch ID: 52441	Test	No: <b>SW8270</b>	SW3545		Analysis Date:	10/15/2	015	SeqNo: 184	<b>17786</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	1,400	330	1,667	0	85.1	47	108				
4-Chlorophenyl-phenylether	1,400	330	1,667	0	81.9	48	111				
4-Nitroaniline	1,000	830	1,667	0	61.5	46	110				
4,6-Dinitro-2-methylphenol	< 830	830	1,667	0	48.8	16	104				
N-Nitrosodiphenylamine	1,200	330	1,667	0	74.3	39	90				
4-Bromophenyl-phenylether	1,300	330	1,667	0	77.0	50	116				
Hexachlorobenzene	1,300	330	1,667	0	76.7	51	110				
Pentachlorophenol	850	830	1,667	0	50.7	22	115				
Phenanthrene	1,100	330	1,667	0	67.6	47	124				
Anthracene	1,200	330	1,667	0	69.7	50	117				
Carbazole	1,200	330	1,667	0	71.9	51	114				
Di-n-butyl phthalate	1,600	330	1,667	0	98.7	53	124				В
Fluoranthene	1,300	330	1,667	0	76.9	45	126				
Pyrene	1,300	330	1,667	0	77.5	49	132				
Butyl benzyl phthalate	1,100	330	1,667	0	68.9	54	130				
3,3'-Dichlorobenzidine	1,000	330	1,667	0	60.5	41	116				
Benzo(a)anthracene	1,200	330	1,667	0	71.0	52	116				
Chrysene	1,300	330	1,667	0	75.1	48	121				
Bis(2-ethylhexyl)phthalate	1,400	330	1,667	0	83.2	60	127				
Di-n-octyl phthalate	1,400	330	1,667	0	86.6	46	141				
Benzo(b)fluoranthene	1,400	330	1,667	0	81.8	45	122				
Benzo(k)fluoranthene	1,400	330	1,667	0	82.5	54	124				
Benzo(a)pyrene	1,300	330	1,667	0	76.0	56	119				
Indeno(1,2,3-cd)pyrene	1,500	330	1,667	0	89.9	50	108				
Dibenzo(a,h)anthracene	1,400	330	1,667	0	85.7	52	109				
Benzo(g,h,i)perylene	1,600	330	1,667	0	94.2	30	107				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 39 of 59



## **QC SUMMARY REPORT**

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: 52441

Website: www.pacelabs.com

Sample ID LFB-52441	SampType: <b>LFB</b>	TestCode: 8270_S_4-2 Units:	µg/Kg Prep Date: 10/14/2	2015 RunNo: 85262
Client ID: ZZZZZZ	Batch ID: 52441	TestNo: SW8270 SW354	5 Analysis Date: 10/15/2	2015 SeqNo: <b>1847786</b>
Analyte	Result	PQL SPK value SPK Ref Va	al %REC LowLimit HighLimit	RPD Ref Val %RPD RPDLimit Qual
Surr: 2-Fluorophenol	1,800	2,500	70.0 25 121	
Surr: Nitrobenzene-d5	1,400	1,667	84.4 23 120	
Surr: Phenol-d5	1,700	2,500	68.5 24 113	
Surr: 2,4,6-Tribromophenol	2,100	2,500	83.8 19 122	
Surr: 2-Fluorobiphenyl	1,300	1,667	78.9 30 115	
Surr: 4-Terphenyl-d14	1,400	1,667	81.1 18 137	
Surr: 2-Chlorophenol-d4	1,900	2,500	74.6 20 130	
Surr: 1,2-Dichlorobenzene-d4	1,200	1,667	69.4 20 130	

Sample ID 1510856-001BMS	SampType: MS	TestCod	de: <b>8270_S_4</b> -	2 Units: μg/Kg-	dry	Prep Da	te: <b>10/14/2</b>	015	RunNo: 852	262	
Client ID: TP010-N	Batch ID: 52441	TestN	lo: <b>SW8270</b>	SW3545		Analysis Da	te: <b>10/16/2</b>	015	SeqNo: 184	<del>1</del> 7792	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	1,500	360	1,810	0	84.6	38	104				
Bis(2-chloroethyl)ether	1,400	360	1,810	0	77.4	32	116				
2-Chlorophenol	1,500	360	1,810	0	83.0	36	109				
2-Methylphenol	1,400	360	1,810	0	77.1	36	104				
N-Nitroso-di-n-propylamine	1,600	360	1,810	0	90.7	33	109				
Hexachloroethane	1,500	360	1,810	0	85.1	34	105				
Nitrobenzene	1,800	360	1,810	0	101	36	119				
Isophorone	1,700	360	1,810	0	91.9	14	129				
2-Nitrophenol	1,700	360	1,810	0	95.7	36	117				
2,4-Dimethylphenol	730	360	1,810	0	40.4	24	96				
Bis(2-chloroethoxy)methane	1,700	360	1,810	0	96.0	29	112				
2,4-Dichlorophenol	1,700	360	1,810	0	92.7	41	117				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 40 of 59



## **QC SUMMARY REPORT**

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: 52441

Website: www.pacelabs.com

Sample ID 1510856-001BMS	SampType: MS	TestCo	de: <b>8270_S_4</b> -	2 Units: μg/K	g-dry	Prep Date	: 10/14/2	015	RunNo: 852	262	
Client ID: TP010-N	Batch ID: 52441	Test	No: <b>SW8270</b>	SW3545		Analysis Date	e: 10/16/2	015	SeqNo: 184	<b>47792</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,700	360	1,810	0	95.2	18	142				
4-Chloroaniline	670	360	1,810	0	36.9	29	88				
Hexachlorobutadiene	1,600	360	1,810	0	87.5	36	118				
4-Chloro-3-methylphenol	1,800	360	1,810	0	99.9	45	118				
2-Methylnaphthalene	1,700	360	1,810	0	92.7	31	135				
Hexachlorocyclopentadiene	1,100	360	1,810	0	60.9	10	97				
2,4,6-Trichlorophenol	1,700	360	1,810	0	92.8	45	110				
2,4,5-Trichlorophenol	1,700	900	1,810	0	95.7	45	111				
2-Chloronaphthalene	1,700	360	1,810	0	96.7	35	107				
2-Nitroaniline	2,100	900	1,810	0	113	42	118				
Dimethylphthalate	1,600	360	1,810	0	88.5	49	112				
2,6-Dinitrotoluene	1,700	360	1,810	0	93.8	50	109				
Acenaphthylene	1,600	360	1,810	0	90.1	43	107				
3-Nitroaniline	1,200	900	1,810	0	66.9	40	95				
Acenaphthene	1,800	360	1,810	0	96.9	45	109				
2,4-Dinitrophenol	970	900	1,810	0	53.6	10	80				
4-Nitrophenol	2,500	900	1,810	0	136	26	118				S
Dibenzofuran	1,800	360	1,810	0	97.7	48	112				
2,4-Dinitrotoluene	1,800	360	1,810	0	102	49	112				
Diethylphthalate	1,700	360	1,810	0	94.3	51	114				
Fluorene	1,800	360	1,810	0	101	47	108				
4-Chlorophenyl-phenylether	1,700	360	1,810	0	95.3	48	111				
4-Nitroaniline	1,100	900	1,810	0	61.9	46	110				
4,6-Dinitro-2-methylphenol	1,200	900	1,810	0	67.2	16	104				
N-Nitrosodiphenylamine	1,500	360	1,810	0	83.5	39	90				
4-Bromophenyl-phenylether	1,700	360	1,810	0	95.2	50	116				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 41 of 59



## **QC SUMMARY REPORT**

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: 52441

Website: www.pacelabs.com

Sample ID 1510856-001BMS	SampType: MS	TestCo	de: <b>8270_S_4</b> -	2 Units: μg/K	g-dry	Prep Date	e: <b>10/14/2</b>	015	RunNo: 852	262	
Client ID: TP010-N	Batch ID: 52441	Testl	No: <b>SW8270</b>	SW3545		Analysis Date	e: <b>10/16/2</b>	015	SeqNo: 184	17792	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobenzene	1,700	360	1,810	0	94.6	51	110				
Pentachlorophenol	1,200	900	1,810	0	66.4	22	115				
Phenanthrene	1,700	360	1,810	102.6	89.7	47	124				
Anthracene	1,500	360	1,810	0	80.3	50	117				
Carbazole	1,500	360	1,810	0	82.6	51	114				
Di-n-butyl phthalate	2,100	360	1,810	884.4	67.4	53	124				В
Fluoranthene	1,600	360	1,810	221.1	77.2	45	126				
Pyrene	2,000	360	1,810	224.0	95.7	49	132				
Butyl benzyl phthalate	1,900	360	1,810	0	103	54	130				
3,3´-Dichlorobenzidine	470	360	1,810	0	26.2	41	116				S
Benzo(a)anthracene	1,800	360	1,810	166.9	88.0	52	116				
Chrysene	1,900	360	1,810	189.3	96.1	48	121				
Bis(2-ethylhexyl)phthalate	2,100	360	1,810	102.6	109	60	127				
Di-n-octyl phthalate	2,000	360	1,810	0	113	46	141				
Benzo(b)fluoranthene	2,100	360	1,810	287.6	99.0	45	122				
Benzo(k)fluoranthene	2,000	360	1,810	84.53	107	54	124				
Benzo(a)pyrene	2,000	360	1,810	192.9	102	56	119				
Indeno(1,2,3-cd)pyrene	1,700	360	1,810	163.3	86.9	50	108				
Dibenzo(a,h)anthracene	1,500	360	1,810	0	84.5	52	109				
Benzo(g,h,i)perylene	2,300	360	1,810	219.6	116	30	107				S
Surr: 2-Fluorophenol	2,200		2,715		80.3	25	121				
Surr: Nitrobenzene-d5	1,700		1,810		91.2	23	120				
Surr: Phenol-d5	2,200		2,715		79.8	24	113				
Surr: 2,4,6-Tribromophenol	2,400		2,715		89.9	19	122				
Surr: 2-Fluorobiphenyl	1,700		1,810		91.3	30	115				
Surr: 4-Terphenyl-d14	1,600		1,810		89.9	18	137				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 42 of 59





Website: www.pacelabs.com

# **QC SUMMARY REPORT**

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: 52441

Sample ID 1510856-001BMS Client ID: TP010-N	SampType: MS Batch ID: 52441	TestCode: <b>8270_S_4-2</b> TestNo: <b>SW8270</b>	Units: µg/Kg-dry SW3545	Prep Date: 10/14/2015 Analysis Date: 10/16/2015	RunNo: <b>85262</b> SeqNo: <b>1847792</b>
Analyte	Result	PQL SPK value SF	PK Ref Val %REC	LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Surr: 2-Chlorophenol-d4 Surr: 1,2-Dichlorobenzene-d4	2,400 1,300	2,715 1,810	87.8 70.5	20 130 20 130	

NOTES:

B= Di-n-butyl phthalate found in method blank @5.45ug/Kg-dry

Sample ID 1510856-001BMSD	SampType: MSD	TestCod	de: <b>8270_S_4-</b> 2	2 Units: μg/K	g-dry	Prep Dat	te: <b>10/14/2</b>	2015	RunNo: 852	262	
Client ID: TP010-N	Batch ID: 52441	TestN	No: <b>SW8270</b>	SW3545		Analysis Dat	te: 10/16/2	2015	SeqNo: 184	47794	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	1,800	360	1,813	0	102	38	104	1,532	18.5	30	
Bis(2-chloroethyl)ether	1,800	360	1,813	0	99.6	32	116	1,402	25.2	30	
2-Chlorophenol	1,700	360	1,813	0	91.5	36	109	1,502	9.85	30	
2-Methylphenol	1,600	360	1,813	0	89.0	36	104	1,396	14.4	30	
N-Nitroso-di-n-propylamine	1,800	360	1,813	0	101	33	109	1,641	11.2	30	
Hexachloroethane	1,700	360	1,813	0	91.1	34	105	1,540	6.99	30	
Nitrobenzene	1,700	360	1,813	0	95.9	36	119	1,832	5.31	30	
Isophorone	1,600	360	1,813	0	87.9	14	129	1,664	4.36	30	
2-Nitrophenol	1,600	360	1,813	0	89.3	36	117	1,732	6.78	30	
2,4-Dimethylphenol	370	360	1,813	0	20.5	24	96	731.2	65.3	30	RS
Bis(2-chloroethoxy)methane	1,800	360	1,813	0	97.5	29	112	1,737	1.66	30	
2,4-Dichlorophenol	1,600	360	1,813	0	85.7	41	117	1,679	7.80	30	
Naphthalene	1,700	360	1,813	0	95.8	18	142	1,723	0.803	30	
4-Chloroaniline	560	360	1,813	0	30.7	29	88	668.2	18.3	30	
Hexachlorobutadiene	1,400	360	1,813	0	77.2	36	118	1,585	12.4	30	
4-Chloro-3-methylphenol	1,700	360	1,813	0	95.9	45	118	1,808	3.91	30	
2-Methylnaphthalene	1,600	360	1,813	0	90.6	31	135	1,678	2.18	30	

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 43 of 59



Website: www.pacelabs.com

## **QC SUMMARY REPORT**

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: 52441

Sample ID <b>1510856-001BMSD</b>	SampType: MSD	TestCo	de: <b>8270_S_4</b> -	2 Units: μg/Kg	g-dry	Prep Date	10/14/2	015	RunNo: 852	262	
Client ID: TP010-N	Batch ID: 52441	Testi	No: <b>SW8270</b>	SW3545		Analysis Date	10/16/2	015	SeqNo: 184	17794	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorocyclopentadiene	800	360	1,813	0	44.3	10	97	1,102	31.4	30	R
2,4,6-Trichlorophenol	1,400	360	1,813	0	79.1	45	110	1,680	15.8	30	
2,4,5-Trichlorophenol	1,600	900	1,813	0	89.9	45	111	1,732	6.07	30	
2-Chloronaphthalene	1,500	360	1,813	0	82.6	35	107	1,750	15.5	30	
2-Nitroaniline	1,700	900	1,813	0	95.9	42	118	2,052	16.5	30	
Dimethylphthalate	1,600	360	1,813	0	89.0	49	112	1,603	0.628	30	
2,6-Dinitrotoluene	1,500	360	1,813	0	81.5	50	109	1,698	13.9	30	
Acenaphthylene	1,600	360	1,813	0	86.3	43	107	1,630	4.08	30	
3-Nitroaniline	1,100	900	1,813	0	59.7	40	95	1,210	11.2	30	
Acenaphthene	1,600	360	1,813	0	90.5	45	109	1,755	6.78	30	
2,4-Dinitrophenol	< 900	900	1,813	0	49.0	10	80	970.1	200	30	
4-Nitrophenol	2,300	900	1,813	0	126	26	118	2,456	7.01	30	S
Dibenzofuran	1,700	360	1,813	0	95.6	48	112	1,769	2.06	30	
2,4-Dinitrotoluene	1,800	360	1,813	0	97.7	49	112	1,844	3.99	30	
Diethylphthalate	1,700	360	1,813	0	94.0	51	114	1,706	0.122	30	
Fluorene	1,700	360	1,813	0	92.7	47	108	1,834	8.77	30	
4-Chlorophenyl-phenylether	1,600	360	1,813	0	87.5	48	111	1,726	8.40	30	
4-Nitroaniline	1,000	900	1,813	0	55.5	46	110	1,121	10.8	30	
4,6-Dinitro-2-methylphenol	1,100	900	1,813	0	58.5	16	104	1,216	13.7	30	
N-Nitrosodiphenylamine	1,300	360	1,813	0	74.3	39	90	1,512	11.5	30	
4-Bromophenyl-phenylether	1,600	360	1,813	0	86.9	50	116	1,724	9.05	30	
Hexachlorobenzene	1,500	360	1,813	0	82.3	51	110	1,712	13.7	30	
Pentachlorophenol	1,100	900	1,813	0	59.6	22	115	1,202	10.7	30	
Phenanthrene	1,800	360	1,813	102.6	92.0	47	124	1,727	2.54	30	
Anthracene	1,600	360	1,813	0	89.7	50	117	1,454	11.2	30	
Carbazole	1,500	360	1,813	0	81.7	51	114	1,495	0.889	30	

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 44 of 59





Website: www.pacelabs.com

**QC SUMMARY REPORT** 

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: 52441

Sample ID 1510856-001BMSD	SampType: MSD	TestCo	de: <b>8270_S_4</b> -	2 Units: μg/k	Kg-dry	Prep Date	: 10/14/2	2015	RunNo: 852	262	
Client ID: TP010-N	Batch ID: 52441	Test	No: <b>SW8270</b>	SW3545		Analysis Date	e: 10/16/2	015	SeqNo: 184	47794	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-n-butyl phthalate	2,600	360	1,813	884.4	93.8	53	124	2,105	20.5	30	В
Fluoranthene	1,800	360	1,813	221.1	86.8	45	126	1,618	10.4	30	
Pyrene	2,400	360	1,813	224.0	118	49	132	1,957	18.6	30	
Butyl benzyl phthalate	1,700	360	1,813	0	93.4	54	130	1,874	10.1	30	
3,3´-Dichlorobenzidine	< 360	360	1,813	0	10.4	41	116	474.9	200	30	RS
Benzo(a)anthracene	1,900	360	1,813	166.9	94.5	52	116	1,761	6.50	30	
Chrysene	1,900	360	1,813	189.3	95.0	48	121	1,929	0.886	30	
Bis(2-ethylhexyl)phthalate	2,000	360	1,813	102.6	104	60	127	2,073	3.75	30	
Di-n-octyl phthalate	1,900	360	1,813	0	104	46	141	2,044	7.59	30	
Benzo(b)fluoranthene	2,400	360	1,813	287.6	114	45	122	2,080	12.3	30	
Benzo(k)fluoranthene	1,500	360	1,813	84.53	76.9	54	124	2,029	31.4	30	R
Benzo(a)pyrene	1,800	360	1,813	192.9	90.9	56	119	2,036	10.1	30	
Indeno(1,2,3-cd)pyrene	1,500	360	1,813	163.3	75.2	50	108	1,737	12.9	30	
Dibenzo(a,h)anthracene	1,500	360	1,813	0	83.5	52	109	1,529	1.01	30	
Benzo(g,h,i)perylene	1,500	360	1,813	219.6	72.3	30	107	2,314	40.7	30	R
Surr: 2-Fluorophenol	2,500		2,718		92.9	25	121		0	0	
Surr: Nitrobenzene-d5	1,700		1,813		92.0	23	120		0	0	
Surr: Phenol-d5	2,800		2,718		102	24	113		0	0	
Surr: 2,4,6-Tribromophenol	2,300		2,718		83.1	19	122		0	0	
Surr: 2-Fluorobiphenyl	1,700		1,813		92.5	30	115		0	0	
Surr: 4-Terphenyl-d14	2,100		1,813		114	18	137		0	0	
Surr: 2-Chlorophenol-d4	2,700		2,718		99.5	20	130		0	0	
Surr: 1,2-Dichlorobenzene-d4	1,600		1,813		87.3	20	130		0	0	
NOTES:											

#### NOTES:

B= Di-n-butyl phthalate found in method blank @5.45ug/Kg-dry

#### NOTES:

P- Din hutul ahthalata found in mathad blank @5 45ua/Ka day

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 45 of 59





Website: www.pacelabs.com

**QC SUMMARY REPORT** 

52441

**BatchID:** 

WO#: **1510856** 

21-Oct-15

Client: Pace Analytical Services Inc.

**Project:** 15100280 B&L

B= Di-n-butyl phthalate found in method blank @5.45ug/Kg-dry

Qualifiers:

- Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

E Value above quantitation range

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Page 46 of 59



Website: www.pacelabs.com

**QC SUMMARY REPORT** 

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: R85218

Sample ID VBLK101615	SampType: MBLK	TestCo	de: 8260_S_SUF Units: µg/Kg	Prep Date:		RunNo: <b>85218</b>
Client ID: PBS	Batch ID: R85218	Test	No: SW8260	Analysis Date:	10/16/2015	SeqNo: <b>1848573</b>
Analyte	Result	PQL	SPK value SPK Ref Val	%REC LowLimit F	HighLimit RPD Ref Val	%RPD RPDLimit Qual
Dichlorodifluoromethane	< 10	10				
Chloromethane	< 10	10				
Vinyl chloride	< 10	10				
Bromomethane	< 10	10				
Chloroethane	< 10	10				
Trichlorofluoromethane	< 10	10				
1,1-Dichloroethene	< 10	10				
Acetone	< 10	10				
Methylene chloride	< 10	10				
trans-1,2-Dichloroethene	< 10	10				
Methyl tert-butyl ether	< 10	10				
1,1-Dichloroethane	< 10	10				
2,2-Dichloropropane	< 10	10				
cis-1,2-Dichloroethene	< 10	10				
2-Butanone	< 10	10				
Bromochloromethane	< 10	10				
Chloroform	< 10	10				
1,1,1-Trichloroethane	< 10	10				
1,1-Dichloropropene	< 10	10				
Carbon tetrachloride	< 10	10				
Benzene	< 10	10				
1,2-Dichloroethane	< 10	10				
Trichloroethene	< 10	10				
1,2-Dichloropropane	< 10	10				
Dibromomethane	< 10	10				
Bromodichloromethane	< 10	10				

- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 47 of 59



Website: www.pacelabs.com

# **QC SUMMARY REPORT**

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

**Project:** 15100280 B&L **BatchID: R85218** 

Sample ID VBLK101615	SampType: MBLK	TestCo	de: <b>8260_S_S</b>	UF Units: μg/Kg		Prep Da	ite:		RunNo: 852	218	
Client ID: PBS	Batch ID: <b>R85218</b>	Testi	No: <b>SW8260</b>			Analysis Da	ate: 10/16/	2015	SeqNo: 184	18573	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	< 10	10									
4-Methyl-2-pentanone	< 10	10									
Toluene	< 10	10									
trans-1,3-Dichloropropene	< 10	10									
1,1,2-Trichloroethane	< 10	10									
Tetrachloroethene	< 10	10									
1,3-Dichloropropane	< 10	10									
Dibromochloromethane	< 10	10									
1,2-Dibromoethane	< 10	10									
Chlorobenzene	< 10	10									
Ethylbenzene	< 10	10									
1,1,1,2-Tetrachloroethane	< 10	10									
m,p-Xylene	< 10	10									
o-Xylene	< 10	10									
Xylene (total)	< 10	10									
Styrene	< 10	10									
Bromoform	< 10	10									
Isopropylbenzene	< 10	10									
1,1,2,2-Tetrachloroethane	< 10	10									
1,2,3-Trichloropropane	< 10	10									
Bromobenzene	< 10	10									
n-Propylbenzene	< 10	10									
2-Chlorotoluene/4-Chlorotoluene	< 10	10									
1,3,5-Trimethylbenzene/P-ethyltolu	uene < 10	10									
tert-Butylbenzene	< 10	10									
1,2,4-Trimethylbenzene	< 10	10									

- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 48 of 59



Website: www.pacelabs.com

## **QC SUMMARY REPORT**

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

**Project:** 15100280 B&L **BatchID: R85218** 

Sample ID VBLK101615 Client ID: PBS	SampType: MBLK Batch ID: R85218	TestCode: 8260_ TestNo: SW82	Prep Date: Analysis Date: 10/16/2015				RunNo: <b>85218</b> SeqNo: <b>1848573</b>			
Analyte	Result	PQL SPK va	lue SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
sec-Butylbenzene	< 10	10								
4-Isopropyltoluene	< 10	10								
1,3-Dichlorobenzene	< 10	10								
1,4-Dichlorobenzene	< 10	10								
Naphthalene	< 10	10								
n-Butylbenzene	< 10	10								
1,2,3-Trichlorobenzene	< 10	10								
1,2-Dichlorobenzene	< 10	10								
1,2-Dibromo-3-chloropropane	< 10	10								
Hexachlorobutadiene	< 10	10								
1,2,4-Trichlorobenzene	< 10	10								
Surr: 1,2-Dichloroethane-d4	44	50	.00	87.4	33	145				
Surr: Toluene-d8	49	50	.00	97.2	60	132				
Surr: 4-Bromofluorobenzene	41	50	.00	82.9	60	148				

Sample ID LFB101515 Client ID: ZZZZZZ	SampType: <b>LFB</b> Batch ID: <b>R85218</b>		de: <b>8260_S_S</b> No: <b>SW8260</b>	SUF Units: µg/Kg		Prep Da Analysis Da		RunNo: <b>85218</b> SeqNo: <b>1848585</b>			
Client ID. ZZZZZZ	Dalcii ID. <b>R03210</b>	resu	NO. <b>3440260</b>			Allalysis Da	le. 10/16/2	2015	Sequo. 104	40303	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	42	10	50.00	0	83.7	10	155				
Chloromethane	66	10	50.00	0	132	44	139				
Vinyl chloride	61	10	50.00	0	121	45	137				
Bromomethane	83	10	50.00	0	167	32	186				
Chloroethane	75	10	50.00	0	150	50	159				
Trichlorofluoromethane	52	10	50.00	0	104	38	166				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 49 of 59





Website: www.pacelabs.com

**QC SUMMARY REPORT** 

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: R85218

Sample ID LFB101515	SampType: LFB	TestCo	de: <b>8260_S_S</b>	UF Units: μg/Kg		Prep Dat	ie:		RunNo: 85	218	
Client ID: ZZZZZZ	Batch ID: <b>R85218</b>	Testl	No: <b>SW8260</b>			Analysis Dat	te: <b>10/16/2</b>	2015	SeqNo: 184	48585	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
1,1-Dichloroethene	59	10	50.00	0	117	47	152				
Acetone	54	10	50.00	0	109	23	196				
Methylene chloride	63	10	50.00	0	126	50	164				
trans-1,2-Dichloroethene	60	10	50.00	0	121	53	157				
Methyl tert-butyl ether	66	10	50.00	0	132	25	171				
1,1-Dichloroethane	60	10	50.00	0	121	53	160				
2,2-Dichloropropane	43	10	50.00	0	86.7	55	140				
cis-1,2-Dichloroethene	54	10	50.00	0	109	75	130				
2-Butanone	52	10	50.00	0	104	52	164				
Bromochloromethane	58	10	50.00	0	115	78	136				
Chloroform	51	10	50.00	0	103	71	135				
1,1,1-Trichloroethane	48	10	50.00	0	95.2	59	134				
1,1-Dichloropropene	51	10	50.00	0	103	56	130				
Carbon tetrachloride	49	10	50.00	0	97.8	57	135				
Benzene	54	10	50.00	0	107	65	129				
1,2-Dichloroethane	52	10	50.00	0	104	65	143				
Trichloroethene	50	10	50.00	0	101	62	130				
1,2-Dichloropropane	56	10	50.00	0	112	72	131				
Dibromomethane	54	10	50.00	0	109	75	136				
Bromodichloromethane	54	10	50.00	0	107	74	141				
cis-1,3-Dichloropropene	54	10	50.00	0	108	74	140				
4-Methyl-2-pentanone	62	10	50.00	0	124	63	154				
Toluene	51	10	50.00	0	101	66	131				
trans-1,3-Dichloropropene	52	10	50.00	0	104	66	144				
1,1,2-Trichloroethane	56	10	50.00	0	112	73	135				
Tetrachloroethene	51	10	50.00	0	102	10	176				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 50 of 59



PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747

TEL: (631) 694-3040 FAX: (631) 420-8436 Website: www.pacelabs.com

## **QC SUMMARY REPORT**

WO#: **1510856** 

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: R85218

Sample ID LFB101515	SampType: <b>LFB</b>	TestCo	de: <b>8260_S_S</b>	UF Units: μg/Kg		Prep Dat	e:		RunNo: 85	218	
Client ID: ZZZZZZ	Batch ID: <b>R85218</b>	Testl	No: <b>SW8260</b>			Analysis Dat	e: <b>10/16/2</b>	2015	SeqNo: 184	<b>4</b> 8585	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	59	10	50.00	0	119	73	130				
Dibromochloromethane	54	10	50.00	0	109	71	133				
1,2-Dibromoethane	55	10	50.00	0	110	76	138				
Chlorobenzene	56	10	50.00	0	111	62	136				
Ethylbenzene	54	10	50.00	0	107	59	135				
1,1,1,2-Tetrachloroethane	53	10	50.00	0	107	74	140				
m,p-Xylene	110	10	100.0	0	106	69	133				
o-Xylene	54	10	50.00	0	107	71	135				
Xylene (total)	160	10	150.0	0	109	62	135				
Styrene	54	10	50.00	0	109	73	133				
Bromoform	50	10	50.00	0	99.5	59	136				
sopropylbenzene	50	10	50.00	0	101	56	129				
1,1,2,2-Tetrachloroethane	51	10	50.00	0	102	69	132				
1,2,3-Trichloropropane	51	10	50.00	0	102	67	129				
Bromobenzene	53	10	50.00	0	106	63	130				
n-Propylbenzene	50	10	50.00	0	101	56	125				
2-Chlorotoluene/4-Chlorotoluene	98	10	100.0	0	98.4	62	125				
1,3,5-Trimethylbenzene/P-ethyltolue	ene 98	10	100.0	0	98.1	49	134				
tert-Butylbenzene	51	10	50.00	0	102	56	127				
1,2,4-Trimethylbenzene	47	10	50.00	0	94.4	59	126				
sec-Butylbenzene	50	10	50.00	0	99.1	50	126				
4-Isopropyltoluene	50	10	50.00	0	99.4	54	126				
1,3-Dichlorobenzene	54	10	50.00	0	107	64	124				
1,4-Dichlorobenzene	53	10	50.00	0	105	61	127				
Naphthalene	49	10	50.00	0	97.6	55	145				
n-Butylbenzene	50	10	50.00	0	100	54	121				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 51 of 59



Website: www.pacelabs.com

## **QC SUMMARY REPORT**

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: R85218

Sample ID LFB101515 Client ID: ZZZZZZ	SampType: LFB Batch ID: R85218		TestCode: 8260_S_SUF Units: µg/Kg TestNo: SW8260			Prep Dat		RunNo: 852 SeqNo: 184			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit		RPD Ref Val	%RPD	RPDLimit	Qual
1,2,3-Trichlorobenzene	54	10	50.00	0	108	48	144				
1,2-Dichlorobenzene	54	10	50.00	0	108	67	125				
1,2-Dibromo-3-chloropropane	44	10	50.00	0	88.3	57	140				
Hexachlorobutadiene	47	10	50.00	0	93.8	19	152				
1,2,4-Trichlorobenzene	54	10	50.00	0	108	52	140				
Surr: 1,2-Dichloroethane-d4	42		50.00		84.8	33	145				
Surr: Toluene-d8	47		50.00		94.5	60	132				
Surr: 4-Bromofluorobenzene	42		50.00		83.5	60	148				

Sample ID 1510856-001AMS	SampType: MS	TestCod	de: <b>8260_S_S</b>	UF Units: μg/K	g-dry	Prep Da	te:		RunNo: 85	218	
Client ID: TP010-N	Batch ID: R85218	TestN	No: <b>SW8260</b>			Analysis Da	te: 10/16/2	2015	SeqNo: 18	48586	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	40	11	54.55	0	73.5	10	155				
Chloromethane	58	11	54.55	0	107	44	139				
Vinyl chloride	57	11	54.55	0	104	45	137				
Bromomethane	79	11	54.55	0	145	32	186				
Chloroethane	67	11	54.55	0	122	50	159				
Trichlorofluoromethane	50	11	54.55	0	91.4	38	166				
1,1-Dichloroethene	56	11	54.55	0	102	47	152				
Acetone	58	11	54.55	3.382	101	23	196				
Methylene chloride	60	11	54.55	1.626	107	50	164				
trans-1,2-Dichloroethene	56	11	54.55	0	102	53	157				
Methyl tert-butyl ether	62	11	54.55	0	114	25	171				
1,1-Dichloroethane	58	11	54.55	0	106	53	160				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 52 of 59



Website: www.pacelabs.com

## **QC SUMMARY REPORT**

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: R85218

Sample ID 1510856-001AMS	SampType: MS	TestCo	de: <b>8260_S_S</b>	UF Units: μg/K	g-dry	Prep Da	te:		RunNo: 852	218	
Client ID: TP010-N	Batch ID: <b>R85218</b>	Testl	No: <b>SW8260</b>			Analysis Da	ite: 10/16/2	2015	SeqNo: 184	18586	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,2-Dichloropropane	39	11	54.55	0	71.2	55	140				
cis-1,2-Dichloroethene	50	11	54.55	0	92.5	75	130				
2-Butanone	54	11	54.55	0	99.4	52	164				
Bromochloromethane	55	11	54.55	0	101	78	136				
Chloroform	49	11	54.55	1.276	87.3	71	135				
1,1,1-Trichloroethane	43	11	54.55	0	79.2	59	134				
1,1-Dichloropropene	46	11	54.55	0	84.1	56	130				
Carbon tetrachloride	43	11	54.55	0	78.8	57	135				
Benzene	49	11	54.55	0	89.9	65	129				
1,2-Dichloroethane	51	11	54.55	0	93.9	65	143				
Trichloroethene	46	11	54.55	0	85.1	62	130				
1,2-Dichloropropane	52	11	54.55	0	94.5	72	131				
Dibromomethane	51	11	54.55	0	92.6	75	136				
Bromodichloromethane	48	11	54.55	0	88.5	74	141				
cis-1,3-Dichloropropene	49	11	54.55	0	90.4	74	140				
4-Methyl-2-pentanone	61	11	54.55	0	113	63	154				
Toluene	46	11	54.55	0	83.6	66	131				
trans-1,3-Dichloropropene	47	11	54.55	0	86.3	66	144				
1,1,2-Trichloroethane	53	11	54.55	0	96.5	73	135				
Tetrachloroethene	57	11	54.55	0	105	10	176				
1,3-Dichloropropane	55	11	54.55	0	101	73	130				
Dibromochloromethane	51	11	54.55	0	92.7	71	133				
1,2-Dibromoethane	51	11	54.55	0	94.1	76	138				
Chlorobenzene	50	11	54.55	0	91.0	62	136				
Ethylbenzene	48	11	54.55	0	87.2	59	135				
1,1,1,2-Tetrachloroethane	49	11	54.55	0	89.9	74	140				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 53 of 59



Website: www.pacelabs.com

## **QC SUMMARY REPORT**

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: R85218

Sample ID 1510856-001AMS Sa	mpType: <b>MS</b>	TestCo	de: <b>8260_S_S</b>	UF Units: μg/K	g-dry	Prep Da	te:		RunNo: 852	218	
Client ID: TP010-N E	Batch ID: <b>R85218</b>	Testi	No: <b>SW8260</b>			Analysis Da	te: 10/16/2	2015	SeqNo: 184	18586	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylene	94	11	109.1	0	86.3	69	133				
o-Xylene	48	11	54.55	0	88.3	71	135				
Xylene (total)	140	11	163.6	0	88.6	62	135				
Styrene	48	11	54.55	0	88.8	73	133				
Bromoform	47	11	54.55	0	86.6	59	136				
Isopropylbenzene	45	11	54.55	0	82.0	56	129				
1,1,2,2-Tetrachloroethane	49	11	54.55	0	90.4	69	132				
1,2,3-Trichloropropane	51	11	54.55	0	93.7	67	129				
Bromobenzene	48	11	54.55	0	87.5	63	130				
n-Propylbenzene	44	11	54.55	0	80.9	56	125				
2-Chlorotoluene/4-Chlorotoluene	86	11	109.1	0	79.2	62	125				
1,3,5-Trimethylbenzene/P-ethyltoluene	e 86	11	109.1	0	79.1	49	134				
tert-Butylbenzene	44	11	54.55	0	80.9	56	127				
1,2,4-Trimethylbenzene	42	11	54.55	0	77.3	59	126				
sec-Butylbenzene	43	11	54.55	0	79.0	50	126				
4-Isopropyltoluene	43	11	54.55	0	79.4	54	126				
1,3-Dichlorobenzene	46	11	54.55	0	84.6	64	124				
1,4-Dichlorobenzene	46	11	54.55	0	84.5	61	127				
Naphthalene	45	11	54.55	0	83.0	55	145				
n-Butylbenzene	42	11	54.55	0	76.5	54	121				
1,2,3-Trichlorobenzene	46	11	54.55	0	84.7	48	144				
1,2-Dichlorobenzene	48	11	54.55	0	87.7	67	125				
1,2-Dibromo-3-chloropropane	43	11	54.55	0	79.2	57	140				
Hexachlorobutadiene	37	11	54.55	0	68.2	19	152				
1,2,4-Trichlorobenzene	45	11	54.55	0	81.8	52	140				
Surr: 1,2-Dichloroethane-d4	47		54.55		86.6	33	145				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 54 of 59



Website: www.pacelabs.com

**QC SUMMARY REPORT** 

WO#:

1510856 21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: R85218

Sample ID 1510856-001AMS Client ID: TP010-N	SampType: MS Batch ID: R85218	TestCode: 8260_S_S TestNo: SW8260	SUF Units: µg/Kg-dry	Prep Da Analysis Da	te: 10/16/2015	RunNo: <b>85218</b> SeqNo: <b>1848586</b>	
Analyte	Result	PQL SPK value	SPK Ref Val %REC	LowLimit	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	52 45	54.55 54.55	94.7 83.3	60 60	132 148		

Sample ID <b>1510856-001AMSD</b>	SampType: MSD	TestCoo	de: <b>8260_S_S</b>	UF Units: μg/K	g-dry	Prep Dat	e:		RunNo: 852	218	
Client ID: TP010-N	Batch ID: <b>R85218</b>	TestN	lo: <b>SW8260</b>			Analysis Dat	e: <b>10/16/2</b>	2015	SeqNo: 184	18587	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	45	11	54.55	0	82.3	10	155	40.07	11.3	30	
Chloromethane	68	11	54.55	0	125	44	139	58.46	15.4	30	
Vinyl chloride	62	11	54.55	0	113	45	137	56.75	8.61	30	
Bromomethane	93	11	54.55	0	170	32	186	79.23	15.7	30	
Chloroethane	73	11	54.55	0	135	50	159	66.81	9.44	30	
Trichlorofluoromethane	54	11	54.55	0	99.7	38	166	49.84	8.71	30	
1,1-Dichloroethene	61	11	54.55	0	111	47	152	55.80	8.19	30	
Acetone	62	11	54.55	3.382	108	23	196	58.29	6.78	30	
Methylene chloride	65	11	54.55	1.626	117	50	164	59.81	8.76	30	
trans-1,2-Dichloroethene	59	11	54.55	0	107	53	157	55.87	4.82	30	
Methyl tert-butyl ether	66	11	54.55	0	121	25	171	62.36	5.81	30	
1,1-Dichloroethane	62	11	54.55	0	114	53	160	57.87	7.20	30	
2,2-Dichloropropane	43	11	54.55	0	78.2	55	140	38.84	9.40	30	
cis-1,2-Dichloroethene	55	11	54.55	0	102	75	130	50.45	9.54	30	
2-Butanone	55	11	54.55	0	101	52	164	54.24	1.34	30	
Bromochloromethane	58	11	54.55	0	107	78	136	55.29	5.34	30	
Chloroform	52	11	54.55	1.276	93.9	71	135	48.91	7.04	30	
1,1,1-Trichloroethane	49	11	54.55	0	89.2	59	134	43.19	11.9	30	

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 55 of 59



PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436

Website: www.pacelabs.com

### **QC SUMMARY REPORT**

WO#:

1510856 21-Oct-15

Client: Pace Analytical Services Inc.

**Project:** 15100280 B&L **BatchID: R85218** 

Sample ID <b>1510856-001AMSD</b>	SampType: MSD	TestCo	de: <b>8260_S_S</b>	UF Units: μg/K	g-dry	Prep Date	e:		RunNo: 852	218	
Client ID: TP010-N	Batch ID: <b>R85218</b>	Test	No: <b>SW8260</b>			Analysis Date	e: 10/16/2	015	SeqNo: 184	<b>4</b> 8587	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	50	11	54.55	0	92.4	56	130	45.90	9.36	30	
Carbon tetrachloride	49	11	54.55	0	89.1	57	135	42.96	12.3	30	
Benzene	54	11	54.55	0	98.6	65	129	49.04	9.19	30	
1,2-Dichloroethane	53	11	54.55	0	97.0	65	143	51.21	3.27	30	
Trichloroethene	51	11	54.55	0	93.7	62	130	46.43	9.62	30	
1,2-Dichloropropane	56	11	54.55	0	103	72	131	51.53	8.82	30	
Dibromomethane	54	11	54.55	0	99.3	75	136	50.51	6.96	30	
Bromodichloromethane	53	11	54.55	0	97.3	74	141	48.28	9.51	30	
cis-1,3-Dichloropropene	54	11	54.55	0	99.0	74	140	49.33	9.02	30	
4-Methyl-2-pentanone	63	11	54.55	0	116	63	154	61.47	2.47	30	
Toluene	50	11	54.55	0	91.5	66	131	45.61	9.04	30	
trans-1,3-Dichloropropene	50	11	54.55	0	92.3	66	144	47.09	6.70	30	
1,1,2-Trichloroethane	56	11	54.55	0	103	73	135	52.66	6.13	30	
Tetrachloroethene	66	11	54.55	0	122	10	176	57.38	14.6	30	
1,3-Dichloropropane	60	11	54.55	0	109	73	130	55.27	7.71	30	
Dibromochloromethane	55	11	54.55	0	101	71	133	50.55	8.28	30	
1,2-Dibromoethane	54	11	54.55	0	98.2	76	138	51.32	4.29	30	
Chlorobenzene	54	11	54.55	0	99.1	62	136	49.66	8.46	30	
Ethylbenzene	52	11	54.55	0	96.2	59	135	47.57	9.86	30	
1,1,1,2-Tetrachloroethane	54	11	54.55	0	99.9	74	140	49.03	10.6	30	
m,p-Xylene	100	11	109.1	0	93.6	69	133	94.18	8.06	30	
o-Xylene	53	11	54.55	0	97.6	71	135	48.16	10.0	30	
Xylene (total)	160	11	163.6	0	97.1	62	135	145.0	9.14	30	
Styrene	52	11	54.55	0	95.5	73	133	48.45	7.21	30	
Bromoform	51	11	54.55	0	93.7	59	136	47.24	7.92	30	
Isopropylbenzene	50	11	54.55	0	92.2	56	129	44.73	11.7	30	

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 56 of 59





PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436

Website: www.pacelabs.com

**QC SUMMARY REPORT** 

WO#:

1510856

21-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100280 B&L BatchID: R85218

Sample ID 1510856-001AMSD Sa	mpType: <b>MSD</b>	TestCo	de: <b>8260_S_S</b>	UF Units: μg/	Kg-dry	Prep Dat	e:		RunNo: 85	218	
Client ID: TP010-N	Batch ID: <b>R85218</b>	Test	No: <b>SW8260</b>			Analysis Dat	e: <b>10/16/2</b>	2015	SeqNo: 18	48587	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	54	11	54.55	0	98.5	69	132	49.31	8.58	30	
1,2,3-Trichloropropane	53	11	54.55	0	98.0	67	129	51.11	4.45	30	
Bromobenzene	52	11	54.55	0	95.8	63	130	47.73	9.06	30	
n-Propylbenzene	49	11	54.55	0	90.2	56	125	44.11	10.9	30	
2-Chlorotoluene/4-Chlorotoluene	96	11	109.1	0	87.7	62	125	86.41	10.2	30	
1,3,5-Trimethylbenzene/P-ethyltoluene	e 96	11	109.1	0	88.3	49	134	86.25	11.0	30	
tert-Butylbenzene	50	11	54.55	0	91.7	56	127	44.12	12.5	30	
1,2,4-Trimethylbenzene	47	11	54.55	0	86.2	59	126	42.19	10.8	30	
sec-Butylbenzene	49	11	54.55	0	89.7	50	126	43.08	12.7	30	
4-Isopropyltoluene	48	11	54.55	0	88.5	54	126	43.31	10.9	30	
1,3-Dichlorobenzene	50	11	54.55	0	92.2	64	124	46.14	8.58	30	
1,4-Dichlorobenzene	50	11	54.55	0	91.1	61	127	46.11	7.52	30	
Naphthalene	50	11	54.55	0	91.9	55	145	45.25	10.2	30	
n-Butylbenzene	47	11	54.55	0	85.8	54	121	41.71	11.6	30	
1,2,3-Trichlorobenzene	51	11	54.55	0	94.3	48	144	46.19	10.8	30	
1,2-Dichlorobenzene	52	11	54.55	0	95.7	67	125	47.84	8.70	30	
1,2-Dibromo-3-chloropropane	48	11	54.55	0	88.4	57	140	43.23	10.9	30	
Hexachlorobutadiene	44	11	54.55	0	80.3	19	152	37.20	16.2	30	
1,2,4-Trichlorobenzene	48	11	54.55	0	88.9	52	140	44.63	8.29	30	
Surr: 1,2-Dichloroethane-d4	45		54.55		83.4	33	145		0	0	
Surr: Toluene-d8	52		54.55		94.7	60	132		0	0	
Surr: 4-Bromofluorobenzene	44		54.55		81.5	60	148		0	0	

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 57 of 59



PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747

### **Sample Receipt Checklist**

TEL: (631) 694-3040 FAX: (631) 420-8436 Website: <u>www.pacelabs.com</u>

Client Name PACE-N	NY				Date and Ti	me Received:	10/12/2015
Work Order Number: 1	1510856	RcptNo: 1			Received by	/ Paige Dohe	rty
Completed by:	aige Doh	erly	-	Revie	ewed by: Ca	thlin I	Panzarella
Completed Date:	10/12/2015 10:24:10 PM	<u>1</u>		Revie	ewed Date:	10/16/2015	11:50:11 AM
Carrier name: PACE F	<u>Pickup</u>						
Chain of custody preser	nt?		Yes	✓	No 🗌		
Chain of custody signed	d when relinquished and	received?	Yes	✓	No $\square$		
Chain of custody agrees	s with sample labels?		Yes	✓	No 🗌		
Are matrices correctly in	dentified on Chain of cu	stody?	Yes	<b>✓</b>	No 🗌		
Is it clear what analyses	were requested?		Yes	<b>✓</b>	No 🗌		
Custody seals intact on	sample bottles?		Yes		No 🗀	Not Present	<b>✓</b>
Samples in proper conta	ainer/bottle?		Yes	✓	No 🗌		
Were correct preservation			Yes	<b>✓</b>	No 🗆	NA	
Preservative added to b	ottles:						
Sample Condition?	6 1 11 1 10 10		Intact	<b>✓</b>	Broken 🗀	Leaking	
Sufficient sample volum		10	Yes	<b>✓</b>	No 🗔		
Were container labels c	• •	!) <i>?</i>	Yes	<b>✓</b>	No □ No □		
All samples received with	_		Yes				
Was an attempt made to			Yes	<b>V</b>	No 🗔	NA	
All samples received at	•		Yes	<b>✓</b>	No 🗀	NA	
Response when temper	_				🗆	_	
Sample Temp. taken an		τ?	Yes	<b>✓</b>	No 🗔		.8 °
Water - Were bubbles a			Yes		No 🗀	No Vials	<b>▼</b>
Water - Was there Chlo			Yes		No 🗀	NA	<b>▼</b>
Water - pH acceptable u			Yes		No 🗀	No Water	•
Are Samples considered	d acceptable?		Yes	<b>✓</b>	No 🗌		
Custody Seals present?	•		Yes	<b>✓</b>	No 📙		
Airbill or Sticker?			Air Bil		Sticker $\square$	Not Present	$\checkmark$
Airbill No:							
Case Number:	SDG:			S	AS:		
Any No response shoul	d be detailed in the con	ments section be	elow, if appl	icable.			
Client Contacted?	☐ Yes ☐ No	✓ NA P	erson Cont	acted.			
Contact Mode:	Phone:	Fax:	Email:	aotou.	☐ In Person:		
Client Instructions:	i none.	ı ax.	Liliali.		III GI30II.		
		Contacto	od Dv:				
Date Contacted:		Contacte	:u Бу.				
Regarding:							
Comments:							
CorrectiveAction:							



<u>WorkOrder :</u> 1510856

### Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEWJERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MAS S ACHUS ETTS	MNY026
NEW HAMPS HIRE	2987
RHODE IS LAND	LAO00340
PENNS YLVANIA	68-00350

Page 59 of 59

## PACE LI

Pace A many living   Services   Pace   Pac	CHAIN OF CUSTODY RECORD	USTODY	, REC	SORD		PAGE 10F 1			DISPOS,	AL REQUIREN	EQUIREMENTS: (To RETURN TO CLIENT	DISPOSAL REQUIREMENTS: (To be filled in by Client)  RETURN TO CLIENT	£
Protection   Pro	Pace Analyti	<b>ICAI Sel</b> /e. Schene	Ctady,	<b>es, I</b> F NY 12:	<u> </u>				<b>→</b> ∪	DISPOSA ARCHIVA	L BY RECEIV	ING LAB ING LAB	<del>, , , , , , , , , , , , , , , , , , , </del>
15/10/280   PRESENTATION   PROPERTING   PROPERTIN	Telephone (518) 346 www.pacelabs.com	-4592 Fa	1x (51	8) 381-(	3055	(LAB US	E ONLY)		Additional cl Call for detai	narges incurred for d Is.	lisposal (if hazarc	ious) or archival.	
15100280   PRESENTATION COLDER   PRESENTAT	CLIENT (REPORTS TO BE SENT TO):		FR.	OJECT#/PRO.	ECT NAME:			EN	TER ANAL	YSIS AND METI	HOD NUMBE	_ [	
1368.01   1368.001	PACE		~	5100280			PRESERV.	ATIVE CODE:				PRES	ERVATIVE KEY
1368.00     156.00			<u> </u>	CATION (CITY	/STATE) ADDF	RESS:	BOTT!	E TYPE:				¥-0	,
1368.001   1368.001   1368.001   1368.001   1368.001   1368.001   1368.001   1368.001   1368.001   1368.001   1368.001   1368.001   1368.001   1368.001   1369.001	PROJECT MANAGER:						BOTT	LE SIZE:	†	+		1:1	7
1368.001     1368.001     1368.001     10121/2015     15   2	Chelsea Farmer		Z	<b>&gt;</b> -			SA	\	_	<u></u>	<u></u>	2-F	NO3 2SO4
1388.001   1388.001   100.000   10	Project:		_	QUIRED TUR					_	\	<u></u>	4-N	aOH
NIC RESULTS	Notes	1368	9			10/12/13		\ \		_	_	N-9	leOH
NICE RESULTS	NOTES:		ž	AME OF COUR.	ER (IF USED):		O F O	18560				7 - N 8 - C	ther (Na2SO3)
SAMPLE ID   Nicola Jahrson Grack   COMP   CLAB USE ONLY)   COMP   CLAB ASS2217   C. X.		helsea.Farmer@pacel	labs.com			LAB	IBW	<u></u>	\	<u></u>	_		
101/2116	Z	cole. Johnson@pacel	abs.com		GRAB/	SAMPLE ID	NN	<u></u>	\ \	\ \ '	\	/	
10/12/15   13:46   S   GRAB   AS32217   6   X   X   X	SAMPLE ID		_	MATRIX	$\neg$	(LAB USE ONLY)		$\downarrow$	1	<del> </del>	+		
10/12/15   13:35   S GRAB AS32218   2			3:40	S		AS32217	9					1	
10/12/15   13.45   S GRAB   AS32220   2   X   X   X   X   X   X   X   X   X			3:35	S		AS32218	2	$\frac{1}{2}$				<u>N</u>	
10/12/15   13:30   S GRAB   AS32221   2   X   X   X   X   X   X   X   X   X			3:45	S		AS32219	2						
RCHILED: TEMP: 4 COC TAPE: Y N PROPERLY PRESERVED: Y N PROPERTY PRESERVED: Y N PROPERTY PRESERVED: Y N PROPERTY PR	DTTOM		3:30	S		AS32220	2						
R CHILLED: TEMP: H COC TAPE. Y N RECEIVED IN RECEIVED BY SIGNATURE		10/12/15		S		AS32221	2	-					
R CHILLED: TEMP: 47 COC TAPE: Y N RECEIVED BY RECEIVED			-										
R CHILLED: TEMP: 4 N OTHER NOTES. Analytical Report (LEVEL-2) EDIORENCY OCCUPANCIES. Analytical Report (LEVEL-2) EDIORENCY OCCUPANCIES. Analytical Received BY RECEIVED BY SIGNATURE RECEIVED BY SIGNATURE RECEIVED BY SIGNATURE PRINTED NAME P													
R CHILLED: TEMP: 4.8 COC TAPE: Y N RECYD WILLY PRESERVED: Y N OTHER NOTES: Analytical Report [LEVEL-2] ED RELINGUISHED BY RECEIVED BY RELINGUISHED BY SIGNATURE RELINGUISHED BY SIGNATURE PRINTED NAME PRINTED NAME PRINTED NAME COMPANY COMPA													
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BEOVER OR LEAKING: Y (N) RECYD WITHOLDING TIMES: Y N RELINQUISHED BY RECEIVED BY RECEIVED BY RECEIVED BY SIGNATURE RELINQUISHED BY SIGNATURE RELINQUISHED BY SIGNATURE RELINQUISHED BY SIGNATURE RECEIVED BY SIGNATURE RECEIVED BY SIGNATURE RECEIVED BY SIGNATURE PRINTED NAME PRINTED NAME PRINTED NAME PRINTED NAME COMPANY		- 1	18	C TAPE:	Z		PROPERLY F	RESERVED:	N (X)	0	THER NOTES: An	alytical Report [LEVEL-2] ED	D: EQUIS-DEC-DE
RELINGUISHED BY RECEIVED BY RECEIV		7	18	C DISCREPAN	TOLES:		RECVD W/I H	OLDING TIMES:	(2)	Z			
SIGNATURE OF SIGNA	RELINQUISHED BY		EIVED/BY			AELINOUSHED BY	S SOUTHINGS	RECEIVED BY	, in		HED BY		À
ANTE COMPANY C		SIGNATURE	t.	M	SIGNATURE	Well Could	Maria	1 Dellan	1/2	DESCRIPTION OF THE		DRIVIED NAME	
PACE COMPANY all less confidence and company and less company and less company and less company and less company and less company company company company and less company company company and less company and less company company and less company	NAME.	PRINTED NAME	2	12/20	PRINTED NAME	Marra V.	PRINTED NAME	W Dohan	d	IIN I ED NAME			
DATYTHINE MATTER DATETHINE DATETHINE DATETHINE DATETHINE DATETHINE DATETHINE	⊰I.	COMPANY	1	ili	SOMPANY	do Lall	COMPKNY	10-14	Ŏ	OMPANY		COMPANY	
	1 (	DATE/TIME //		15/-	DATE/TIME	71-01-6	DATE/TIME	10/19/11	<u>a</u>	ATE/TIME		DATE/TIME	

risy pm

DATE Signed (MM / DD / YY); [ 0 ] [2 ]

MEDRINCK

ROSENAPO

PRINT Name of SAMPLER: SIGNATURE of SAMPLER:

## CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must b-lpha  $ar{15100280P1}$ 

Pace Project No. N/A N/A 4532220 SAMPLE CONDITIONS 4532218 AS32217 Samples 532219 AS3222 F SC F W F DTHERNY DI IN I WI I TO Sealed Coolei Custody GOTHER NYSDEC DRINKING WATER Received on رع ج REGULATORY AGENCY O° ni qmeT TIME Iolizlis III:37 R g GROUND WATER L L DATE L RCRA LOCATION SITE Filtered (Y/N) NPDES ACCEPTED BY / AFFILIATION T UST Requested 丈 Other Nethanol <sub>E</sub>O<sub>S</sub>S<sub>S</sub>EV Company Name: Barton and Loguidice, DPC HOBI Address: 290 Elwood Davis Road, Box 3107
Syracuse NY, 13220
Syracuse: 00014909 IOH <sup>E</sup>ONH Accounts Payable \*OS<sup>2</sup>H Pace Project Manager. Kelly Miller 14.37 TIME Jupreserved SAMPLER NAME ÄND SIGNATURE # OF CONTAINERS C د. 2 4 5/12/101 DATE Invoice Information: 化的 1346 13:33 10/12/15/40 TIME Pace Profile #: COMPOSITE END/GRAB Section C Attention: Address: 10:12 COLLECTED DATE RELINQUISHED BY / AFFILIATION 7 TIME Rosmany My comick COMPOSITE START DATE 1368.001.001 Section B
Required Project Information Copy To: Nathan Shaffer Report To: Andy Barber Project Name: ALCO G=GRAB C=COMP 5161 5/ 6 5778 2, 6 St C SAMPLE TYPE MATRIX CODE Project Number: (518) 346-4592 Order No. Email To: nshaffer@bartonandloguidice.com 518-218-1801 Fax: 518-218-1805 INC FMSD Company: Barton and Loguidice DPC ADDITIONAL COMMENTS TPO10-Bottom (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE Address: 10 Airline Drive, Suite 200 SAMPLE ID Standard 2-010d TP010-5 2-010dl Required Client Information: DOP-X Required Client Information Albany, NY 12205 Section D Requested Due Date/TAT: Section A Phone: # MHT

李 Ç

intact

2190 Technology Dr. Schenectady, NY 12308

Pace Analytical

New York Office

### <15100280P2>

## Sample Condition Upon Receipt

NSP None Temp should be above freezing to 6°C ŝ CLIENT NAME: BAR-ALB PROJECT: ALCO 0 N Blue 🗆 Lot # of added preservative: INTACT: Yes ICE USED: Wet COOLER TEMPERATURE (°C): Temperature is Acceptable? No completed: MA nitial when Other CUSTODY SEAL PRESENT: Yes 11. 10 14. 12. 13. Other ∞i None #122087967 \( \) ¥ X × × 夏夏夏 Pace Elsilor Day 8 || <u>8</u> **P №** S O 8 | **%**□ 多 **№** ŝ Š. 2 Bubble Bags - Exceptions that are not checked: TOC, VOA, Subcontract Analyses 0 0 Š Š □Yes □Yes S S Š Š IR Gun 03 🗆 Š Z. Ž □Yes □Yes Client Filtered volume received for Dissolved tests: \(\prightarrow\) All containers needing preservation have been All containers needing preservation are in compliance with EPA recommendation: - Includes date/time/ID/Analysis PACKING MATERIAL: Bubble Wrap BIOLOGICAL TISSUE IS FROZEN: Yes Sampler Name / Signature on COC: Rush Turn Around Time Requested: Samples Arrived within Hold Time: Short Hold Time Analysis (<72hr): UPS Headspace in VOA Vials (>6mm): Chain of Custody Relinquished: THERMOMETER USED: #1694 Chain of Custody Filled Out: Pace Containers Used: Sample Labels match COC: Chain of Custody Present: Correct Containers Used: Sufficient Volume: COURIER: FedEx Containers Intact: TRACKING # COMMENTS:

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

Document Control# F-NY-C-034-rev.00 (15July2015)

Log In (Includes notifying PM of any discrepacies and documenting in LIMS)

Ġ

Line-Out (Includes Copying Shipping Documents and verifying sample pH):

15.

% □ Š

□Yes

□Yes

rip Blank Custody Seals Presenț:

**Frip Blank Present:** 

Sample Receipt form filled in:

Pace Trip Blank Lot #:



New York State Department of Environmental Conservation Division of Environmental Remediation

Return Completed Form & Fees To:	
Return Co	

<b>PBS Number:</b> 4-601508	% % %	Petrole Pursuant to Regult (Please Type or	Petroleum Bulk Sto Pursuant to the Environmental Conser Regulations 6 NYCRR Part 613 ease Type or Print Clearly and Comp	Petroleum Bulk Storage Application Pursuant to the Environmental Conservation Law: Article 17, Title 10; and Regulations 6 NYCRR Part 613 and 6 NYCRR Subpart 374-2 (Please Type or Print Clearly and Complete All Items for Sections A, B & C)	<b>Lion</b> 10; and 2 s A, B & C)			
		Section A -	Facility/Property C	Section A - Facility/Property Owner/Contact Information	nation	Expiration Date:	Date:	
actio	Н	Facility Name: MAXON ALCO HOLDINGS LLC.	NGS LLC.	Tax Map Info: Borough/Section:	TYPE OF PETROLEUM FACILITY (Check only one)	. ITY (Check only one)	□ 02=Retail Gasoline Sales	ales
Type: 3	4	Facility Address (Physical Address, No P.O. Boxes)	P.O. Boxes)	Block:	☐ 03=Other Retail Sales		☐ 04=Manufacturing	
1) Initial/New Facility	O	Facility Address (cont.):		Lot:	☐ 05=Utility ☐ 07=Apartment/Office Building	р	☐ 06=Trucking/Transportation/Fleet ☐ 08=School	rtation/Fleet
2) Change of Ownership	-	City: SCHENECTADY	Star	State: ZIP Code: NY 12305	☐ 09=Farm ☐ 11=Airline/Air Taxi/Airport		☐ 10=Private Residence ☐ 12=Chemical Distributor	to
3) Tank Installation, Closing, or		County: Tow SCHENECTADY SG	Township/City SCHENECTADY (C)	Facility Phone Number: (518) 465-1565	☐ 13=Municipality ☐ 25=Auto Service/Repair (No Gasoline Sales)	Gasoline Sales)	☐ 15=Railroad ☐ 16=Nuclear Power Plant	ant
Repair 4) Information Correction	. ⊢	Name of Class B (Daily On-Site) Operator: STEPHEN LUCIANO	ator.	Operator Authorization No.	☐ 26=Religious (Church, Synagogue, Mosque, Temple, etc.) ☐ 27=Hospital/Nursing Home/Health Care ☐ 28=	agogue, Mosque, Templ Health Care	le, etc.) □ 28=Cemetery / Memorial	ria a
	>	Name of Class A (Primary) Operator: STEPHEN LUCIANO		Operator Authorization No.	☐ 52=Marina 図 99=Other (Specify):	BROWNFIELD CLEANUP SITE	P SITE	
NOTE:		Facility (Property) Owner (from Deed): MAXON ALCO HOLDINGS LLC	LC.		Emergency Contact Name: STEPHEN LUCIANO		Emergency Telephone Number: (518) 465-1565	nber:
Fill in Property		Facility Owner Address (Street and/or P.O. Box): 695 ROTTERDAM INDUSTRIAL PARK	P.O. Box): AL PARK		I hereby certify, under penalty of law, that all of the information provided on this form is true and correct. False statements made herein may be punishable as a criminal offense and/or a civil violation in	that all of the information position by the punishable as a criminal	provided on this form is true a offense and/or a civil violatio	ind correct. n in
Owner	0	City: SCHENECTADY	State: NY ZI	ZIP Code: 12306	accordance with applicable state and federal law.	federal law.		
information here>>>	≥ z	Federal Tax ID Number: 27-0407456	Owner Telephone Number: (518) 465-1565		Name of Property Owner or Authorized Representative: PAUL FALLATI	horized Representative:	: Amount Enclosed: \$ 0.00	
Indicate Tank	ш	Type of Owner: (check only one)	8	Local Government	Title: AUTHORIZED REPRESENTATIVE	SENTATIVE		
Owner in	œ	1	4 🗆 Federa	Federal Government	Signature:		Date:	
Section C.		2 ☐ State Government	5 🕅 Corpor	Corporate/Commercial/Other	In the	uni	11006	e
Official Use Only	υC	(Please keep this information up to date Facility Contact Person Name:	STEPHEN LUCIANO			For Overdue Registrations Only:	gistrations Only:	
	) K K	Contact Person Company Name:	MAXON ALCO HOLD	HOLDINGS LLC		registration, you may s	If you are submitting an application for an overfule registration, you may settle the violation by bubmitting the normal fee and sometimes to set the submitting the normal fee and sometimes to set the submitting the normal fee and sometimes to set the submitting the normal fee and sometimes to set the submitting the normal fee and sometimes to set the submitted that the s	nitting the
	шωα	Address:	695 ROTTERDAM INDUSTRIAL PARK	OUSTRIAL PARK		every month the applic settle, or make no cho	normal rec, any back rece due, ain a penanty of \$50 for every month the application is overdue. If you decline to settle, or make no choice, the case will be referred for	decline to
Amount Received:	. O Z (	Address (cont.):				enforcement which ma the violations. Please	enforcement which may result in higher penalties to resolve the violations. Please indicate your choice below:	ss to resolve w:
Reviewed By:	2 W Z	City/State/ZIP Code:	SCHENECTADY, NY 12306	(2306		☐ I agree to settle an penalty amounts.	I agree to settle and have enclosed the proper fees and penalty amounts.	ber fees and
Rev. 10/03/15	ОШ	Tel. Number: (518) 465-1565		eMail Address: SLUCIANO@GALESI.COM	GALESI.COM		r decime to settle and understand that ingner penalties may result.	i penaliles

**PBS Number:** 

4-601508

### (Please use the key located on the last page to Section B - Tank Information

complete each item/column)

Registration Expiration Date:

(21)	Under Dispenser Containment (UDC) (Check box if present)													
(20)	Piping Leak Defection	00		 	 	 		 		 	 ******	 	 	******
(19)	Piping Secondary Containment	00												
(18)	Piping External Protection	00				 				 	 	 	 	
(17)	Piping Type	00		* =										
(16)	Piping Location	00												
(15)	gnisnəqsiQ\gniqmu9 bodtəM	00												
(14)	Tank Spill Prevention	00												
(13)	Tank Overfill Prevention	00			 	 		 				 	 	******
	Leak Detection	0												-
(12)	Tank	00			 			 				 	 	
(11)	Tank Secondary Containment				 			 			 	 	 	
		00												
(10)	Tank External Protection	00		 	 	 		 		 	 	 	 	
6	Tank Internal Protection	00												
(8)	Тапк Туре	01												
(2)	Product Stored (If Gasoline wethanol or Biodiesel, list %additive)													
	Produc (If Ga w/eth Biodie %ad	0001												
(9)	Capacity (Gallons)	10,000				24								
(5)	Installation, Out of service or Permanent Closure Date (MM/DD/YYYY) Application will be returned if blank	5/1/1995	10/09/2015											
(4)		3				2	."		2 1				-0.	
(3)	Tank I ocation	2									200			
(2)	Tank Number	010												
Ξ	Action	1/3												-

Note: If you need to add tanks to your registration, write them in using blank lines above. Attach additional sheets as needed. Blank Section B is available at http://www.dec.nv.gov/docs/remediation hudson pdf/pbsrenewal.pdf

PBS Number:

4-601508

## Petroleum Bulk Storage Application Section C – Tank Ownership Information (for PBS tanks listed in Section B)

Tonk Owner Information	Informatio		Toth Owner Just	nformation		Total Town Just	doino de la constante de la co	
<ul> <li>X□ Check box if same as Facility (Property) Owner.</li> <li>If tank owner is different from property owner, fill out information below:</li> </ul>	same as Facility (Propiliferent from property cinformation below:	erty) Owner. owner, fill out						
Tank Owner Name (Company/Individual):	/Individual):		Tank Owner Name (Company/Individual):	ndividual):		Tank Owner Name (Company/Individual):	lividual):	
Contact Person:			Contact Person:			Contact Person:		
Tank Owner Address:			Tank Owner Address:			Tank Owner Address:		
Tank Owner Address (cont.)			Tank Owner Address (cont.)			Tank Owner Address (cont.)		
City:	State:	ZIP:	City:	State:	ZIP:	City:	State:	ZIP:
Contact Person Telephone Number:	ımber:		Contact Person Telephone Number:	Jber:		Contact Person Telephone Number:	ē.	
Contact Person Email:			Contact Person Email:			Contact Person Email:		
Specific Tanks Owned  Check box if this owner owns all tanks at this facility. If not, list tanks owned by this owner below:	nks Ownec owns all tanks t by this owne	I at this facility. ar below:	Specific Tanks Owned	ks Owned		Specific Tanks Owned	s Owned	
Tank Number	Tank Nu	Tank Number (cont.)	Tank Number	Tank Nur	Tank Number (cont.)	Tank Number	Tank Number (cont.)	er (cont.)

Attach additional sheets as needed.

# PETROLEUM BULK STORAGE APPLICATION - SECTION B - TANK INFORMATION - CODE KEYS

Piping Secondary Containment (19) 00. None 01. Diking (Aboveground Only)	g		* If other, please list on a separate sheet including tank number.  ** Each of these codes must be combined with code 01 or 06 to meet compliance requirements.
Overfill Protection (13) 00. None 01. Float Vent Valve 02. High Learn of	. 그 의 의원	.=1	
01. Epoxy Liner 02. Rubber Liner 03. Fiberglass Liner (FRP) 04. Glass Liner 99. Other-Please list:*	External Protection (10/18) 00. None 01. Painted/Asphalt Coating 02. Original Sacrificial Anode 03. Original Impressed Current 04. Fiberglass 05. Jacketed 06. Wrapped (Piping) 07. Retrofitted Sacrificial Anode 08. Retrofitted Impressed Current 09. Urethane 99. Other-Please list:*	(11) 00. None 01. Diking (AST Only) 02. Vault (w/access) 03. Vault (w/o access) 04. Double-Walled (UST Only) 05. Synthetic Liner 06. Remote Impounding Area 07. Excavation Liner 09. Modified Double-Walled (AST Only) 10. Impervious Underlayment (AST Only)**	11. Double-Walled (AST Only)** 12. Double-Walled (AST Only) 99. Other-Please list*  Tank Leak Detection (12) 00. None 01. Interstitial Electronic Monitoring 02. Interstitial Manual Monitoring 03. Vapor Well 04. Groundwater Well 05. In-Tank System (Auto Tank Gauge) 06. Impervious Barrier/Concrete Pad (AST Only) 07. Statistical Inventory Reconciliation (SIR) 08. Weep holes in vaults with no access for inspection
0008. Diesel 2710. Biodiesel 0011. Jet Fuel 1044. Jet Fuel (Biofuel) 2641. Aviation Gasoline	Lubricating/Cutting Oils 0013. Lube Oil 0015. Motor Oil 1045. Gear/Spindle Oil 0010. Hydraulic Oil 0007. Cutting Oil 0021. Transmission Fluid 1836. Turbine Oil 0308. Petroleum Grease Oils Used as Building Materials 2626. Asphaltic Emulsions 0748. Form Oil	Petroleum Spirits 0014. White/Mineral Spirits 1731. Naphtha Mineral/Insulating Oils 0020. Insulating Oil (e.g., Transformer, Cable Oil) 2630. Mineral Oil Waste/Used/Other Oils 0022. Waste/Used Oil 9999. Other-Please list.*	Crude Oil 0006. Crude Oil 0701. Crude Oil 7701. Crude Oil Fractions 1
Action (1) 1. Initial Listing 2. Add Tank 3. Close/Remove Tank 4. Information Correction 5. Denoin Tank		Status (4) 1. In-service 2. Out-of-service 3. Closed-Removed 4. Closed-In Place 5. Tank converted to Non-Regulated use D. Delivery Prohibited Products Stored (7) Heating Oils: On-Site Consumption 0001, #2 Fuel Oil	0002. #4 Fuel Oil 0259. #5 Fuel Oil 0003. #6 Fuel Oil 0012. Kerosene 0591. Clarified Oil 2711. Biodiesel (Heating) 2642. Used Oil (Heating) Heating Oils: Resale/ Redistribution 2718. #2 Fuel Oil 2729. #4 Fuel Oil 2720. #5 Fuel Oil 2722. Kerosene 2722. Kerosene 2723. Clarified Oil 2724. Biodiesel (Heating)  Motor Fuels 0009. Gasoline 2712. Gasoline/Ethanol



September 2, 2016

Mr. John R. Strang, P.E. Environmental Engineer 2 New York State Department of Environmental Conservation Region 4 1130 South Westcott Road Schenectady, New York 12306-2014

### Via Electronic Mail

Re: Spill No. 1602325

ALCO – BCP Site C447042

Schenectady, NY

Dear Mr. Strang:

On behalf of Maxon ALCO Holdings, LLC, Barton & Loguidice, Inc. (B&L) has prepared the following report for the Spill 1602325 closure activities.

### **Summary of Spill Closure Activities**

Excavation activities were undertaken on the southern riverbank in accordance with the approved November 2014 Addendum to the Excavation Work Plan (EXC-WP) dated May 2014. Petroleum impacted soil was encountered on June 7, 2016 and a Spill was reported (NYSDEC Spill No. 1602325). Approximately 300 tons of soil were removed and stockpiled on a separate storage area that was lined with plastic sheeting and bermed to prohibit run-off.

Visibly clean overlying soils were removed and utilized for site fill. Groundwater was encountered. Soil sampling of the excavation was conducted on June 7, 2016 with concurrence from NYSDEC on the number and locations of the soil samples.

### **Summary of Sample Results**

A total of four soil samples were collected, at locations shown on the attached sketch. In addition to volatile organic compounds (VOCs), soil samples were also analyzed for semi-VOCs at the request of NYSDEC. Detections for VOCs and SVOCs are summarized on the attached table. SVOCs were detected in each three of the four soil samples. Two of the four samples had one or more of the following at concentrations above their respective Restricted Residential Soil Cleanup Objective (SCO):

- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Chryzene





Mr. John R. Strang, P.E. NYSDEC September 2, 2016 Page 2

- Dibenzo(a,h)anthracene
- Indeno(1,2,3-cd)pyrene

The SVOCs that were detected are polynuclear aromatic hydrocarbons (PAHs), that are typically related to coal usage; the PAH detections are consistent with the site-wide PAH detections that constitute Area of Concern 3 that will be addressed by the soil cover. With respect to VOCs, there was one (1) petroleum-related detection. The detection was reported at a concentration roughly three orders of magnitude below the SCO. The laboratory results for the soil samples are also attached to this letter. No additional investigation or remediation is recommended for Spill 1602325.

Additional items to be forwarded to the NYSDEC upon receipt are non-hazardous waste manifests for disposal of associated contaminated soil.

Please feel free to contact the undersigned at (518) 218-1801 with any questions or need for additional information.

Very truly yours,

BARTON & LOGUIDICE, INC.

Andrew J. Barber

Sr. Environmental Consultant

AJB/akd Enclosure

cc: Steve Porter, Esq. - Maxon ALCO Holdings LLC

Steve Luciano - Maxon ALCO Holdings LLC
Paul Fallati - Maxon ALCO Holdings LLC

Dean Sommer, Esq. - Young Sommer

Rich Ostrov - NYSDEC Region 4, OGC

Al DeMarco -NYSDOH

			nfield Site chenectady	NY		
Parameter	NYSDEC Part 375	Unit	1602325-W	1602325-E	1602325-S	1602325-BOTTOM
i didilietei	Restricted Use SCO's Restricted Residential (1)	Onit	06/07/16	06/07/16	06/07/16	06/07/16
VOCs						
Acetone	100,000	ug/Kg	ND	ND D	150 D	ND D
SVOCs						
Acenaphthene	100,000	ug/Kg	710	1,500	ND	4,100
Anthracene	100,000	ug/Kg	1,200	ND	ND	1,100
Benzo(a)anthracene	1,000	ug/Kg	<b>6,500</b>	ND ND	ND	4,200
Benzo(a)pyrene	1,000	ug/Kg	<b>5,800</b>	ND ND	ND	4,100
Benzo(b)fluoranthene	1,000	ug/Kg	<b>12,000</b> D	ND ND	ND	7,300
Benzo(g,h,i)perylene	100,000	ug/Kg	4,500	ND	ND	1,600
Benzo(k)fluoranthene	3,900	ug/Kg	4,200	ND	ND	2,400
Chrysene	3,900	ug/Kg	<b>7,700</b>	ND ND	ND	4,700
Dibenzo(a,h)anthracene	330	ug/Kg	1,500	ND	ND	700
Dibenzofuran	59,000	ug/Kg	560	ND	ND	ND
Fluoranthene	100,000	ug/Kg	8,400 D	ND	ND	6,300
Fluorene	100,000	ug/Kg	770	2,600	ND	4,600
Indeno(1,2,3-cd)pyrene	500	ug/Kg	4,400	ND	ND	1,900
Phenanthrene	100,000	ug/Kg	5,200	ND	ND	7,100
Pyrene	100,000	ug/Kg	8,100 D	ND ND	ND	6,700

ND - Not Detected D - Lab qualifier; results achieved through dilution. Bold values indicate exceedances.

<sup>1.</sup> NYSDEC Part 375 Table 375-6.8(b) Restricted Use Soil Cleanup Objectives (SCOs) for the Protection of Public Health.

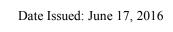


Engineers • Environmental Scientists • Planners • Landscape Architects

10 Airline Drive • Suite 200 • Albany, NY 12205

JOB_A160 1362	7,001,001
SHEET NO.	OF
CALCULATED BY NES	DATE 8/9/20/6
_	DATE

SPIIL 1602325 Telephone: (518) 218-1801 • Facsimile (518) 218-1805 Mortune River 1. Ferdiam Botom of enfferdan 000 D Lower Ri Jerbank Approximite confirmatory sample dewas ering 1602325- € 1602325 - Bottom (nomposite) Approx spill exc. Immite (PID-5.6 pan)





### Pace Analytical e-Report

Report prepared for: BARTON AND LOGUIDICE 10 AIRLINE DRIVE ALBANY, NY 12205 CONTACT: ANDY BARBER

-----

Project ID: ALCO

Sampling Date(s): June 07, 2016 Lab Report ID: 16060161

Client Service Contact: Nick Nicholas (518) 346-4592

-----

**Analysis Included:** 

VOCs E8260C - Sub Pace LI SVOCs E8270D - Sub Pace LI

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Roy Smith Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (460241)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com This page intentionally left blank.

### Table of Contents

ection 1: CASE NARRATIVE	4
ection 2: QUALIFIERS	6
ection 3: SAMPLE CHAIN OF CUSTODY	8
ection 4: SAMPLE RECEIPT	11
ection 5: Subcontract Analysis	13

1

2

4

5

### **CASE NARRATIVE**

### CASE NARRATIVE

This data package (SDG ID: 16060161) consists of 4 soil samples received on 06/07/2016. The samples are from Project Name: ALCO.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	Client ID	Collection Date
AT14057	1602325-W	06/07/2016 12:50
AT14058	1602325-E	06/07/2016 12:45
AT14059	1602325-S	06/07/2016 12:40
AT14060	1602325-BOTTOM	06/07/2016 12:35

### Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via DROP OFF delivery service on 06/07/2016.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved with any exceptions listed below:
  - a. Samples for Volatile Organic Compound analysis were not collected in accordance with the preservation requirements of method 5035.

### Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to Volatile Organic Compound analysis.

### Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to Semi Volatile Organic Compound analysis.

Respectfully submitted,

Nick Nicholas Project Manager

### **QUALIFIERS**

### **Definitions**

- B Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.
- D Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- MDL Adjusted Method Detection Limit.
- P Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.
- PQL Practical Quantitation Limit. PQLs are adjusted for sample weight/volume and dilution factors.
- RL Reporting Limit Denotes lowest analyte concentration reportable for the sample based on regulatory or project specific limits.
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.
- Z Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.
- \* Value not within control limits.

### SAMPLE CHAIN OF CUSTODY

### Pace Analytical www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical / <16060161P1>ent

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fie

	ite

	ction A quired Client Information:	Section Required		ct Infor	mation:						tion (	C ormatio	n:			1	1606	01611					Pa	ge:	je.		of	/
Со	mpany. Barton Slogardice EN	Report To		tod	1 Bu	hor				Atten	tion;		ZZ	Pa	~ 25	1.14	2		1						- I	88	262	J
Ad	dress: 19 Airline Drive Builting	Сору То:	A	h	£1	A.	TOU			Com	nany l	Name:			1	1	2111	tee W	REG	ULAT	ORY	AG	ENC	Υ				
	Alban, NY 12205		/	<u> </u>	- Small					Addre	ess: &	443	Fre.	ct-c	<u>~~~</u> 7953	-07 Post	الصيمان م باستاس استاس	4 CE 4 4 1		NPDE			GROU		WAT	ER I	DRINKII	NG WATER
Em	nail To:	Purchase	Order	No.:	A-1	Address: 443 Steethouge Ryking Pace Quote Reference: 000 14507					-	UST	ſ		RCRA			,	OTHER									
Ph	one: 518,18,1801 Fax: 518 2/8 1805	Project Na	ame:		1-1-	Pace Project						Locat	ion				$\neg$	,										
Re	quested Due Date/TAT:	Project Nu	umber	: /	7/5	2 60	1.001	+		Manag Pace	ger: Profile	#:	استاسا	7						STA	5.7				_	aSt. Sati		
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	Required Client Information MATRIX /		codes to left)	C=COMP)		COLL	ECTED		۱_	1 7	<del> </del>	Pre	serva	atives	} 	۶	Ļ	A-:	<del>                                     </del>		_	_		<u> </u>	188			
	Drinking Water DW Water WT Waste Water WW Product P Soil/Soild SI Oil OL			₹AB	COMPO STAF		COMPO: END/GF		COLLECTION	S (80)						<b>-</b>	209	220							(Y/N)			
	SAMPLE ID  (A-Z, 0-9 /,-)  Sample IDs MUST BE UNIQUE  Tissue	OL WP AR TS	CODE (see	1 1					TEMP AT C	CONTAINERS	þe					Test	80								Residual Chlorine (Y/N)			
#_	Other	OT		SAMPLE TYPE					LE TE	CON	eserv	H₂SO₄ HNO₃		S S	anol	<b>↓</b> Analysis	8	3							dual C			
ITEM #			MATRIX	SAM	DATE	TIME	DATE	TIME	SAMPLE	# OF	Unpr	H <sub>2</sub> SC	되	Na <sub>2</sub> S	Methanol Other	An	0 >								Resid	Pace	Project I	No./ Lab I.D.
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		ORIGINAL  SAMPLER NAME AND SIGNATURE  PRINT Name of SAMPLER:  DATE Signed (MM/DD/YY):  DATE Sign																										

### <16060161P2>



### **Sample Condition Upon Receipt**

						CEIEIT ITAITE.	1011 LOG	VIC. Ce
						PROJECT: 1368	001.00	<u> </u>
	Clien <b>t∕</b> ∕x∕	Pace 🗆	Othe	r 🗆				
TRACKING #		CUSTOD	Y SEAL PRESE	NT: Yes 🗆	No 0st	INTACT: Yes 🕸	No □	N/A □
PACKING MATERIAL: Bubble Wrap 🗆	Bubble Ba	ags □	Noneæ	Other 🗆	-	ICE USED: Wet	Blue 🗆	None □
THERMOMETER USED: #164  IR Gun 03	<b>/</b> #160239	773 🗆 #16	0239773-PRE		COOLER TE	MPERATURE (°C):) 🦠	5.8	
BIOLOGICAL TISSUE IS FROZEN: Yes □	No □	N/A(bx						
COMMENTS:					Temperatu	e is Acceptable?	<b>∂</b> Xes	□No
Chain of Custody Present:	ØYes	□No		1.				
Chain of Custody Filled Out:	ØYes	□No		2.				
Chain of Custody Relinquished:	ØYes	□No		3.				
Sampler Name / Signature on COC:	ØYes	□No		4.				
Samples Arrived within Hold Time:	O⊠Yes	□No		5.				
Short Hold Time Analysis (<72hr):	□Yes	Ø′no		6.				
Rush Turn Around Time Requested:	□Yes	OMEDI		7.				
Sufficient Volume:	DKPres	□No		8.				
Correct Containers Used:	ÖXVes	□No		9.				
- Pace Containers Used:	ÄNYes	□No						
Containers Intact:	₩Yes	□No		10.				
Filtered volume received for Dissolved to	ests: <sub>□Yes</sub>	□No	1 <del>⊘</del> N/A	11.				
Sample Labels match COC:	□Yes	XÓNo		12. Olle	other tw	ne on cocof 121	35 For sou	mple " 1002325 -130tte
- Includes date/time/ID/Analysis				I I		cevent label of is		
All containers needing preservation have bee checked:	n □Yes	□No	□n/a	13. Sary	es not	collected permet	hed 503	5 guidance.
All containers needing preservation are in	□Yes	⊅ <del>Z</del> ÍNo	□N/A					
compliance with EPA recommendation:		,		Initial wher	ı		· · · · · · · · · · · · · · · · · · ·	
- Exceptions that are not checked: TOC, VOA, Subo	contract Analyses	5		completed	:	Lot # of added prese	rvative:	
Headspace in VOA Vials (>6mm):	□Yes	□No	D <b>X</b> N/A	14.				
Trip Blank Present:	□Yes	□No	<b>₩</b> N/A	15.				
Trip Blank Custody Seals Present:	□Yes	□No	<b>₩</b> N/A					
Pace Trip Blank Lot #: NIA	=,							
Sample Receipt form filled in:	<u>8</u>	Line-Out	(Includes Co	oying Shippir	ng Documer	nts and verifying sam	ple pH):	Phys 6/8/16
/		Log In (In	cludes notify	ing PM of ar	ny discrepac	cies and documenting	; in LIMS):	-
		Labeling	(Includes Sca	nning Bottle	s and enter	ing LAB IDs into pH lo	gbook):	9000 618/10

### SAMPLE RECEIPT



Pace Analytical Services, Inc.

### SAMPLE RECEIPT REPORT 16060161

**CLIENT: BARTON AND LOGUIDICE** 

Pace Analytical ®

PROJECT: ALCO LRF: 16060161

REPORT: ANALYTICAL REPORT

EDD: YES LRF TAT: 7 DAYS **RECEIVED DATE:** 06/07/2016 15:47

SHIPPED VIA: DROP OFF <sup>1,5</sup>SAMPLES PRESERVED PER METHOD GUIDANCE: NO SHIPPING ID: N. SHAFFER 

3 SAMPLES REC'D IN HOLDTIME: YES

NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: NA
COOLER STATUS: CHILLED

**TEMPERATURE(S):** <sup>5</sup>15.8 (IR) °C

**DISPOSAL:** BY LAB (45 DAYS) **COC DISCREPANCY:** NO

### COMMENTS:

SAMPLES FOR 8260 ANALYSIS NOT COLLECTED PER METHOD 5035 GUIDANCE.

COLLECTION TIME ON COC OF 12:35 FOR SAMPLE 1602325-BOTTOM DOES NOT MATCH CLIENT LABEL OF 12:30

CLIENT ID (LAB ID)	TAT-DUE Date <sup>4</sup>	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
1602325-W (AT14057)	7 DAYS 06-16-16	06/07/2016 12:50	Soil	SVOCs E8270D	SVOCs E8270D - Sub Pace LI	
	7 DAYS 06-16-16	06/07/2016 12:50	Soil	VOCs E8260C	VOCs E8260C - Sub Pace LI	
1602325-E (AT14058)	7 DAYS 06-16-16	06/07/2016 12:45	Soil	SVOCs E8270D	SVOCs E8270D - Sub Pace LI	
	7 DAYS 06-16-16	06/07/2016 12:45	Soil	VOCs E8260C	VOCs E8260C - Sub Pace LI	
1602325-S (AT14059)	7 DAYS 06-16-16	06/07/2016 12:40	Soil	SVOCs E8270D	SVOCs E8270D - Sub Pace LI	
	7 DAYS 06-16-16	06/07/2016 12:40	Soil	VOCs E8260C	VOCs E8260C - Sub Pace LI	
1602325-BOTTOM (AT14060)	7 DAYS 06-16-16	06/07/2016 12:35	Soil	SVOCs E8270D	SVOCs E8270D - Sub Pace LI	
	7 DAYS 06-16-16	06/07/2016 12:35	Soil	VOCs E8260C	VOCs E8260C - Sub Pace LI	

The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.

### **Reporting Parameters and Lists**

The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

3 Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it

Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time i also not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.

The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.

<sup>&</sup>lt;sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

<sup>6</sup>Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

### Subcontract Analysis





PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747 (631) 604 3040 FAY: (631) 420 8436

TEL: (631) 694-3040 FAX: (631) 420-8436 Website: <u>www.pacelabs.com</u>

### **Case Narrative**

WO#: **1606862**Date: **6/17/2016** 

**CLIENT:** Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001

Samples not collected per method 5035A guidance. OK to proceed per COC.



TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

AT14057

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected :6/7/2016 12:50:00 PM Received : 6/9/2016 9:30:00 AM

### LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Lab No. : 1606862-001

Client Sample ID: 1602325-W

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT					
Analytical Method: SW8260C :	Prep	Method: 503	5A-L		Analyst: KG
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
1,1,1-Trichloroethane	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
1,1-Dichloroethane	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
1,1-Dichloroethene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
1,2,4-Trimethylbenzene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
1,2-Dichlorobenzene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
1,2-Dichloroethane	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
1,3,5-Trimethylbenzene/P-ethyltoluene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
1,3-Dichlorobenzene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
1,4-Dichlorobenzene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
1,4-Dioxane	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
2-Butanone	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
Acetone	< 11	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
Benzene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
Carbon tetrachloride	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
Chlorobenzene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
Chloroform	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
cis-1,2-Dichloroethene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
Ethylbenzene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
Methyl tert-butyl ether	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
Methylene chloride	< 11	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
n-Butylbenzene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
n-Propylbenzene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
sec-Butylbenzene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
tert-Butylbenzene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
Tetrachloroethene	< 2.2 c	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
Toluene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
trans-1,2-Dichloroethene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
Trichloroethene	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
Vinyl chloride	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported: 6/17/2016

Cathlin Panzarella

Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Page 2 of 38





LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

2308 Lab No. : 1606862-001
Client Sample ID: 1602325-W

Sample Information:

Type: Soil

Origin:

Attn To: William A. Kotas

Collected : 6/7/2016 12:50:00 PM

Received : 6/9/2016 9:30:00 AM

AT14057

Collected By CLIENT

Analytical Method: SW8260C:	Prep I	Method: 503		Analyst: KG	
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Xylene (total)	< 2.2	1	μg/Kg-dry	06/14/2016 5:43 PM	Container-01 of 01
Surr: 1,2-Dichloroethane-d4	114	1	%Rec Limit 33-14	5 06/14/2016 5:43 PM	Container-01 of 01
Surr: 4-Bromofluorobenzene	102	1	%Rec Limit 60-14	8 06/14/2016 5:43 PM	Container-01 of 01
Surr: Toluene-d8	97.4	1	%Rec Limit 60-13	2 06/14/2016 5:43 PM	Container-01 of 01

### NOTES:

Results may be biased low due to sample not being collected according to 5035A low level specifications.

Qualifiers: E = Value above quantitation range, Value estimated.

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S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported : 6/17/2016

Cathlin Panyarella
Project Manager: Caitlin Panzarella

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Page 3 of 38



TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas Collected :6/7/2016 12:50:00 PM

Received :6/9/2016 9:30:00 AM

### LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested

Lab No. : 1606862-001

**Sample Information:** 

Type: Soil

Origin:

Client Sample ID: 1602325-W

AT14057

Collected By CLIENT Analytical Method: SW8270D: Prep Method: SW3545A Prep Date: 6/10/2016 12:00:12 PM Analyst: EAG Parameter(s) Results Qualifier D.F. **Units** Analyzed: Container: 2-Methylphenol 1 06/14/2016 7:47 PM Container-01 of 01 < 370 µg/Kg-dry 3-Methylphenol/4-Methylphenol < 740 1 06/14/2016 7:47 PM Container-01 of 01 μg/Kg-dry Acenaphthene 710 1 06/14/2016 7:47 PM Container-01 of 01 μg/Kg-dry Acenaphthylene 1 06/14/2016 7:47 PM Container-01 of 01 < 370 µg/Kg-dry Anthracene 1,200 1 06/14/2016 7:47 PM Container-01 of 01 μg/Kg-dry Benzo(a)anthracene 6,500 D 10 μg/Kg-dry 06/15/2016 9:35 PM Container-01 of 01 10 D 06/15/2016 9:35 PM Container-01 of 01 Benzo(a)pyrene 5,800 μg/Kg-dry Benzo(b)fluoranthene D 10 06/15/2016 9:35 PM Container-01 of 01 12,000 μg/Kg-dry Benzo(g,h,i)perylene 4,500 С 1 µg/Kg-dry 06/14/2016 7:47 PM Container-01 of 01 Benzo(k)fluoranthene 06/14/2016 7:47 PM Container-01 of 01 4,200 1 μg/Kg-dry Chrysene 7,700 D 10 06/15/2016 9:35 PM Container-01 of 01 μg/Kg-dry Dibenzo(a,h)anthracene 1,500 1 µg/Kg-dry 06/14/2016 7:47 PM Container-01 of 01 Dibenzofuran 06/14/2016 7:47 PM Container-01 of 01 560 1 μg/Kg-dry Fluoranthene D 10 06/15/2016 9:35 PM Container-01 of 01 8.400 μg/Kg-dry 06/14/2016 7:47 PM Fluorene 770 1 μg/Kg-dry Container-01 of 01 Hexachlorobenzene < 370 1 μg/Kg-dry 06/14/2016 7:47 PM Container-01 of 01 Indeno(1,2,3-cd)pyrene 4,400 1 06/14/2016 7:47 PM Container-01 of 01 μg/Kg-dry Pentachlorophenol < 930 1 μg/Kg-dry 06/14/2016 7:47 PM Container-01 of 01 Phenanthrene 1 06/14/2016 7:47 PM Container-01 of 01 5,200 µg/Kg-dry Phenol < 370 1 06/14/2016 7:47 PM Container-01 of 01 µg/Kg-dry Pvrene 8.100 D 10 µg/Kg-dry 06/15/2016 9:35 PM Container-01 of 01 Surr: 1,2-Dichlorobenzene-d4 64.1 1 %Rec Limit 20-130 06/14/2016 7:47 PM Container-01 of 01 Surr: 2,4,6-Tribromophenol 86.5 1 %Rec Limit 19-122 06/14/2016 7:47 PM Container-01 of 01 20-130 Container-01 of 01 Surr: 2-Chlorophenol-d4 70.2 Limit 06/14/2016 7:47 PM 1 %Rec Surr: 2-Fluorobiphenyl 92.0 1 %Rec I imit 30-115 06/14/2016 7:47 PM Container-01 of 01 Surr: 2-Fluorophenol 69.9 1 %Rec Limit 25-121 06/14/2016 7:47 PM Container-01 of 01 Limit 18-137 06/14/2016 7:47 PM Container-01 of 01 Surr: 4-Terphenyl-d14 105 1 %Rec Surr: Nitrobenzene-d5 77.2 1 %Rec Limit 23-120 06/14/2016 7:47 PM Container-01 of 01 Surr: Phenol-d5 Limit 24-113 78.8 1 %Rec 06/14/2016 7:47 PM Container-01 of 01

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Cathlin Panzarella

Project Manager: Caitlin Panzarella

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Page 4 of 38





TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas Collected :6/7/2016 12:50:00 PM

AT14057 Received :6/9/2016 9:30:00 AM

Collected By CLIENT

### LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:** 

Type: Soil

Origin:

•					
Analytical Method: D22	16 :				Analyst: RL
Parameter(s)	Results Qualific	er <u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Percent Moisture	10.8	1	wt%	06/09/2016 3:30 PM	Container-01 of 01

Lab No. : 1606862-001

Client Sample ID: 1602325-W

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

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J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

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+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported: 6/17/2016

Cathlin Panzarella

Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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Page 5 of 38





NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc. 2190 Technology Drive

Schenectady, NY 12308
Attn To: William A. Kotas

Collected : 6/7/2016 12:45:00 PM

Received : 6/9/2016 9:30:00 AM Collected By CLIENT

LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Lab No. : 1606862-002

Sample Information:

Type: Soil

Origin:

Client Sample ID: 1602325-E

AT14058

Prep Method: 5035A-L Analytical Method: SW8260C · Analyst: KG Parameter(s) Container: Results Qualifier Analyzed: <u>D.F.</u> <u>Units</u> 06/14/2016 6:05 PM 1,1,1-Trichloroethane < 13 D 5 μg/Kg-dry Container-01 of 01 D 5 06/14/2016 6:05 PM Container-01 of 01 1,1-Dichloroethane < 13 μg/Kg-dry D 5 06/14/2016 6:05 PM Container-01 of 01 1,1-Dichloroethene < 13 μg/Kg-dry 1,2,4-Trimethylbenzene < 13 D 5 μg/Kg-dry 06/14/2016 6:05 PM Container-01 of 01 1,2-Dichlorobenzene < 13 D 5 06/14/2016 6:05 PM Container-01 of 01 μg/Kg-dry 5 06/14/2016 6:05 PM 1,2-Dichloroethane < 13 D μg/Kg-dry Container-01 of 01 D 5 1,3,5-Trimethylbenzene/P-06/14/2016 6:05 PM Container-01 of 01 < 13 μg/Kg-dry ethyltoluene D 5 1,3-Dichlorobenzene < 13 μg/Kg-dry 06/14/2016 6:05 PM Container-01 of 01 5 06/14/2016 6:05 PM 1,4-Dichlorobenzene < 13 ח Container-01 of 01 μg/Kg-dry D 5 06/14/2016 6:05 PM Container-01 of 01 1 4-Dioxane < 13 μg/Kg-dry 2-Butanone < 13 D 5 μg/Kg-dry 06/14/2016 6:05 PM Container-01 of 01 Acetone < 64 D 5 μg/Kg-dry 06/14/2016 6:05 PM Container-01 of 01 5 Benzene < 13 D μg/Kg-dry 06/14/2016 6:05 PM Container-01 of 01 5 Carbon tetrachloride D 06/14/2016 6:05 PM Container-01 of 01 < 13 μg/Kg-dry D 5 06/14/2016 6:05 PM Chlorobenzene < 13 Container-01 of 01 μg/Kg-dry Chloroform < 13 D 5 06/14/2016 6:05 PM Container-01 of 01 μg/Kg-dry 5 06/14/2016 6:05 PM cis-1,2-Dichloroethene < 13 D Container-01 of 01 µg/Kg-dry Ethylbenzene < 13 D 5 µg/Kg-dry 06/14/2016 6:05 PM Container-01 of 01 5 Methyl tert-butyl ether < 13 D µg/Kg-dry 06/14/2016 6:05 PM Container-01 of 01 5 D 06/14/2016 6:05 PM Container-01 of 01 Methylene chloride < 64 μg/Kg-dry n-Butylbenzene < 13 D 5 06/14/2016 6:05 PM Container-01 of 01 μg/Kg-dry < 13 D 5 06/14/2016 6:05 PM Container-01 of 01 n-Propylbenzene μg/Kg-dry 5 06/14/2016 6:05 PM sec-Butylbenzene < 13 D μg/Kg-dry Container-01 of 01 tert-Butylbenzene < 13 D 5 06/14/2016 6:05 PM Container-01 of 01 µg/Kg-dry 5 06/14/2016 6:05 PM Container-01 of 01 Tetrachloroethene < 13 Do µg/Kg-dry

μg/Kg-dry

μg/Kg-dry

µg/Kg-dry

µg/Kg-dry

5

5

5

5

D

D

D

D

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

Trichloroethene

Vinyl chloride

trans-1.2-Dichloroethene

Toluene

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

< 13

< 13

< 13

< 13

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported : 6/17/2016

Cathlin Panyarella
Project Manager: Caitlin Panzarella

06/14/2016 6:05 PM

06/14/2016 6:05 PM

06/14/2016 6:05 PM

06/14/2016 6:05 PM

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Page 6 of 38

Container-01 of 01

Container-01 of 01

Container-01 of 01

Container-01 of 01





TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

:6/7/2016 12:45:00 PM

Received : 6/9/2016 9:30:00 AM

Collected By CLIENT

Collected

### **LABORATORY RESULTS**

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Sample Information:

Type: Soil

Origin:

Analytical Method: SW8260C:		Prep I	Method: 503	B5A-L				Analyst: KG
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Xylene (total)	< 13	D	5	μg/Kg-dry			06/14/2016 6:05 PM	Container-01 of 01
Surr: 1,2-Dichloroethane-d4	123	D	5	%Rec	Limit 33	3-145	06/14/2016 6:05 PM	Container-01 of 01
Surr: 4-Bromofluorobenzene	348	DS	5	%Rec	Limit 60	)-148	06/14/2016 6:05 PM	Container-01 of 01
Surr: Toluene-d8	86.9	D	5	%Rec	Limit 60	)-132	06/14/2016 6:05 PM	Container-01 of 01

Lab No. : 1606862-002

Client Sample ID: 1602325-E

### NOTES:

Results may be biased low due to sample not being collected according to 5035A low level specifications.

AT14058

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported : 6/17/2016

Cathlin Panzarella

Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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Page 7 of 38



TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

AT14058 Received : 6/9/2016 9:30:00 AM

:6/7/2016 12:45:00 PM

Collected

### LABORATORY RESULTS

Lab No. : 1606862-002

Client Sample ID: 1602325-E

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT							
Analytical Method: SW8270D:	Prep I	Method: SW3	3545A		Prep Date: 6	3/10/2016 12:00:12 PM	Analyst: EAG
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
2-Methylphenol	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
3-Methylphenol/4-Methylphenol	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Acenaphthene	1,500	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Acenaphthylene	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Anthracene	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Benzo(a)anthracene	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Benzo(a)pyrene	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Benzo(b)fluoranthene	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Benzo(g,h,i)perylene	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Benzo(k)fluoranthene	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Chrysene	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Dibenzo(a,h)anthracene	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Dibenzofuran	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Fluoranthene	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Fluorene	2,600	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Hexachlorobenzene	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Indeno(1,2,3-cd)pyrene	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Pentachlorophenol	< 4,200	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Phenanthrene	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Phenol	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Pyrene	< 860	10	μg/Kg-dry			06/15/2016 10:02 PM	Container-01 of 01
Surr: 1,2-Dichlorobenzene-d4	80.4	10	%Rec	Limit	20-130	06/15/2016 10:02 PM	Container-01 of 01
Surr: 2,4,6-Tribromophenol	81.3	10	%Rec	Limit	19-122	06/15/2016 10:02 PM	Container-01 of 01
Surr: 2-Chlorophenol-d4	63.5	10	%Rec	Limit	20-130	06/15/2016 10:02 PM	Container-01 of 01
Surr: 2-Fluorobiphenyl	79.6	10	%Rec	Limit	30-115	06/15/2016 10:02 PM	Container-01 of 01
Surr: 2-Fluorophenol	56.5	10	%Rec	Limit	25-121	06/15/2016 10:02 PM	Container-01 of 01
Surr: 4-Terphenyl-d14	69.2	10	%Rec	Limit	18-137	06/15/2016 10:02 PM	Container-01 of 01
Surr: Nitrobenzene-d5	85.2	10	%Rec	Limit	23-120	06/15/2016 10:02 PM	Container-01 of 01
Surr: Phenol-d5	62.1	10	%Rec	Limit	24-113	06/15/2016 10:02 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported: 6/17/2016

Cathlin Panzarella

Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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Page 8 of 38





TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected :6/7/2016 12:45:00 PM

Received :6/9/2016 9:30:00 AM

#### LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:** 

Type: Soil

Origin:

Client Sample ID: 1602325-E

AT14058

Collected By CLIENT

#### NOTES:

Sample was analyzed at a dilution due to matrix.

Analytical Method:	D2216 :						Analyst: RL
Parameter(s)		Results	Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Percent Moisture		21.7		1	wt%	06/09/2016 3:31 PM	Container-01 of 01

Lab No. : 1606862-002

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported: 6/17/2016

Cathlin Panzarella

Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

AT14059

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected :6/7/2016 12:40:00 PM Received : 6/9/2016 9:30:00 AM

#### LABORATORY RESULTS

Lab No. : 1606862-003

Client Sample ID: 1602325-S

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:** 

Type: Soil

Origin:

Analytical Method: SW8260C:		Prep I	Method: 503	5A-L	<u>A</u>	nalyst: KC
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
1,1,1-Trichloroethane	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
1,1-Dichloroethane	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
1,1-Dichloroethene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
1,2,4-Trimethylbenzene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
1,2-Dichlorobenzene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
1,2-Dichloroethane	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
1,3,5-Trimethylbenzene/P- ethyltoluene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
1,3-Dichlorobenzene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
1,4-Dichlorobenzene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
1,4-Dioxane	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
2-Butanone	< 13	Dc	5	μg/Kg-dry	06/16/2016 4:47 PM	
Acetone	150	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
Benzene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
Carbon tetrachloride	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
Chlorobenzene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
Chloroform	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
cis-1,2-Dichloroethene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
Ethylbenzene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
Methyl tert-butyl ether	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
Methylene chloride	< 64	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
n-Butylbenzene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
n-Propylbenzene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
sec-Butylbenzene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
tert-Butylbenzene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
Tetrachloroethene	< 13	Dc	5	μg/Kg-dry	06/16/2016 4:47 PM	
Toluene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
trans-1,2-Dichloroethene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
Trichloroethene	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	
Vinyl chloride	< 13	D	5	μg/Kg-dry	06/16/2016 4:47 PM	

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported: 6/17/2016

Cathlin Panzarella

Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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:6/7/2016 12:40:00 PM

TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

:6/9/2016 9:30:00 AM Received

Collected By CLIENT

Collected

#### LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:** 

Type: Soil

Origin:

Odlictica by OLILIVI								
Analytical Method: SW8260C :		Prep	Method: 503	5A-L				Analyst: KG
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Xylene (total)	< 13	D	5	μg/Kg-dry			06/16/2016 4:47 PM	
Surr: 1,2-Dichloroethane-d4	113	D	5	%Rec	Limit	33-145	06/16/2016 4:47 PM	
Surr: 4-Bromofluorobenzene	117	D	5	%Rec	Limit	60-148	06/16/2016 4:47 PM	
Surr: Toluene-d8	93.4	D	5	%Rec	Limit	60-132	06/16/2016 4:47 PM	

Lab No. : 1606862-003

Client Sample ID: 1602325-S

#### NOTES:

Results may be biased low due to sample not being collected according to 5035A low level specifications.

AT14059

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported: 6/17/2016

Cathlin Panzarella

Project Manager: Caitlin Panzarella

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Page 11 of 38



575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

AT14059

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To:

William A. Kotas

Collected :6/7/2016 12:40:00 PM Received :6/9/2016 9:30:00 AM

#### LABORATORY RESULTS

Lab No. : 1606862-003

Client Sample ID: 1602325-S

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Sample Information:

Type: Soil

Origin:

Parameter(s)	Analytical Method: SW8270D:	Prep I	Method: SW3	3545A	Prep Date: 6	/10/2016 12:00:12 PM	Analyst: EAG
3-Methylphenol/4-Methylphenol	Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>		Analyzed:	Container:
Acenaphthene	2-Methylphenol	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Acenaphthylene	3-Methylphenol/4-Methylphenol	< 850	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Anthracene	Acenaphthene	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Benzo(a)anthracene	Acenaphthylene	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Benzo(a)pyrene	Anthracene	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Benzo(b)fluoranthene	Benzo(a)anthracene	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Benzo(g,h,i)perylene	Benzo(a)pyrene	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Benzo(k)fluoranthene	Benzo(b)fluoranthene	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Chrysene         < 420         1         µg/Kg-dry         06/14/2016 8:43 PM         Container-01 of 01           Dibenzo(a,h)anthracene         < 420	Benzo(g,h,i)perylene	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Dibenzo(a,h)anthracene         < 420         1         μg/Kg-dry         06/14/2016 8:43 PM         Container-01 of 01           Dibenzofuran         < 420	Benzo(k)fluoranthene	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Dibenzofuran         < 420	Chrysene	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Fluoranthene	Dibenzo(a,h)anthracene	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Fluorene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 lndeno(1,2,3-cd)pyrene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 lndeno(1,2,3-cd)pyrene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 lndeno(1,2,3-cd)pyrene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 lndenothrene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 lndenothrene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 lndenothrene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 lndenothrene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 lndenothrene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 lndenothrene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 lndenothrene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 lndenothrene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 lndenothrene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 lndenothrene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 lndenothrene < 420 lndenothrene	Dibenzofuran	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Hexachlorobenzene         < 420         1         μg/Kg-dry         06/14/2016 8:43 PM         Container-01 of 01           Indeno(1,2,3-cd)pyrene         < 420	Fluoranthene	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Indeno(1,2,3-cd)pyrene	Fluorene	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Pentachlorophenol < 1,100 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 Phenanthrene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 Phenol < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 Pyrene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 Pyrene < 420 1 µg/Kg-dry 06/14/2016 8:43 PM Container-01 of 01 Surr: 1,2-Dichlorobenzene-d4 39.7 1 %Rec Limit 20-130 06/14/2016 8:43 PM Container-01 of 01 Surr: 2,4,6-Tribromophenol 29.1 1 %Rec Limit 19-122 06/14/2016 8:43 PM Container-01 of 01 Surr: 2-Chlorophenol-d4 48.1 1 %Rec Limit 20-130 06/14/2016 8:43 PM Container-01 of 01 Surr: 2-Fluorobiphenyl 58.4 1 %Rec Limit 30-115 06/14/2016 8:43 PM Container-01 of 01 Surr: 2-Fluorophenol 45.0 1 %Rec Limit 25-121 06/14/2016 8:43 PM Container-01 of 01 Surr: 4-Terphenyl-d14 71.4 1 %Rec Limit 18-137 06/14/2016 8:43 PM Container-01 of 01 Surr: Nitrobenzene-d5 26.6 1 %Rec Limit 23-120 06/14/2016 8:43 PM Container-01 of 01	Hexachlorobenzene	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Phenanthrene         < 420         1         μg/Kg-dry         06/14/2016 8:43 PM         Container-01 of 01           Phenol         < 420	Indeno(1,2,3-cd)pyrene	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Phenol         < 420         1         μg/Kg-dry         06/14/2016 8:43 PM         Container-01 of 01           Pyrene         < 420	Pentachlorophenol	< 1,100	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Pyrene         < 420         1         μg/Kg-dry         06/14/2016 8:43 PM         Container-01 of 01           Surr: 1,2-Dichlorobenzene-d4         39.7         1         %Rec         Limit         20-130         06/14/2016 8:43 PM         Container-01 of 01           Surr: 2,4,6-Tribromophenol         29.1         1         %Rec         Limit         19-122         06/14/2016 8:43 PM         Container-01 of 01           Surr: 2-Chlorophenol-d4         48.1         1         %Rec         Limit         20-130         06/14/2016 8:43 PM         Container-01 of 01           Surr: 2-Fluorobiphenyl         58.4         1         %Rec         Limit         30-115         06/14/2016 8:43 PM         Container-01 of 01           Surr: 2-Fluorophenol         45.0         1         %Rec         Limit         25-121         06/14/2016 8:43 PM         Container-01 of 01           Surr: 4-Terphenyl-d14         71.4         1         %Rec         Limit         18-137         06/14/2016 8:43 PM         Container-01 of 01           Surr: Nitrobenzene-d5         26.6         1         %Rec         Limit         23-120         06/14/2016 8:43 PM         Container-01 of 01	Phenanthrene	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Surr: 1,2-Dichlorobenzene-d4         39.7         1         %Rec         Limit         20-130         06/14/2016 8:43 PM         Container-01 of 01           Surr: 2,4,6-Tribromophenol         29.1         1         %Rec         Limit         19-122         06/14/2016 8:43 PM         Container-01 of 01           Surr: 2-Chlorophenol-d4         48.1         1         %Rec         Limit         20-130         06/14/2016 8:43 PM         Container-01 of 01           Surr: 2-Fluorobiphenyl         58.4         1         %Rec         Limit         30-115         06/14/2016 8:43 PM         Container-01 of 01           Surr: 2-Fluorophenol         45.0         1         %Rec         Limit         25-121         06/14/2016 8:43 PM         Container-01 of 01           Surr: 4-Terphenyl-d14         71.4         1         %Rec         Limit         18-137         06/14/2016 8:43 PM         Container-01 of 01           Surr: Nitrobenzene-d5         26.6         1         %Rec         Limit         23-120         06/14/2016 8:43 PM         Container-01 of 01	Phenol	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Surr: 2,4,6-Tribromophenol       29.1       1       %Rec       Limit       19-122       06/14/2016 8:43 PM       Container-01 of 01         Surr: 2-Chlorophenol-d4       48.1       1       %Rec       Limit       20-130       06/14/2016 8:43 PM       Container-01 of 01         Surr: 2-Fluorobiphenyl       58.4       1       %Rec       Limit       30-115       06/14/2016 8:43 PM       Container-01 of 01         Surr: 2-Fluorophenol       45.0       1       %Rec       Limit       25-121       06/14/2016 8:43 PM       Container-01 of 01         Surr: 4-Terphenyl-d14       71.4       1       %Rec       Limit       18-137       06/14/2016 8:43 PM       Container-01 of 01         Surr: Nitrobenzene-d5       26.6       1       %Rec       Limit       23-120       06/14/2016 8:43 PM       Container-01 of 01	Pyrene	< 420	1	μg/Kg-dry		06/14/2016 8:43 PM	Container-01 of 01
Surr: 2-Chlorophenol-d4       48.1       1       %Rec       Limit       20-130       06/14/2016 8:43 PM       Container-01 of 01         Surr: 2-Fluorobiphenyl       58.4       1       %Rec       Limit       30-115       06/14/2016 8:43 PM       Container-01 of 01         Surr: 2-Fluorophenol       45.0       1       %Rec       Limit       25-121       06/14/2016 8:43 PM       Container-01 of 01         Surr: 4-Terphenyl-d14       71.4       1       %Rec       Limit       18-137       06/14/2016 8:43 PM       Container-01 of 01         Surr: Nitrobenzene-d5       26.6       1       %Rec       Limit       23-120       06/14/2016 8:43 PM       Container-01 of 01	Surr: 1,2-Dichlorobenzene-d4	39.7	1	%Rec Li	mit 20-130	06/14/2016 8:43 PM	Container-01 of 01
Surr: 2-Fluorobiphenyl         58.4         1         %Rec         Limit         30-115         06/14/2016 8:43 PM         Container-01 of 01           Surr: 2-Fluorophenol         45.0         1         %Rec         Limit         25-121         06/14/2016 8:43 PM         Container-01 of 01           Surr: 4-Terphenyl-d14         71.4         1         %Rec         Limit         18-137         06/14/2016 8:43 PM         Container-01 of 01           Surr: Nitrobenzene-d5         26.6         1         %Rec         Limit         23-120         06/14/2016 8:43 PM         Container-01 of 01	Surr: 2,4,6-Tribromophenol	29.1	1	%Rec Lii	mit 19-122	06/14/2016 8:43 PM	Container-01 of 01
Surr: 2-Fluorophenol         45.0         1         %Rec         Limit         25-121         06/14/2016 8:43 PM         Container-01 of 01           Surr: 4-Terphenyl-d14         71.4         1         %Rec         Limit         18-137         06/14/2016 8:43 PM         Container-01 of 01           Surr: Nitrobenzene-d5         26.6         1         %Rec         Limit         23-120         06/14/2016 8:43 PM         Container-01 of 01	Surr: 2-Chlorophenol-d4	48.1	1	%Rec Lii	mit 20-130	06/14/2016 8:43 PM	Container-01 of 01
Surr: 4-Terphenyl-d14         71.4         1         %Rec         Limit         18-137         06/14/2016 8:43 PM         Container-01 of 01           Surr: Nitrobenzene-d5         26.6         1         %Rec         Limit         23-120         06/14/2016 8:43 PM         Container-01 of 01	Surr: 2-Fluorobiphenyl	58.4	1	%Rec Lii	mit 30-115	06/14/2016 8:43 PM	Container-01 of 01
Surr: Nitrobenzene-d5 26.6 1 %Rec Limit 23-120 06/14/2016 8:43 PM Container-01 of 01	Surr: 2-Fluorophenol	45.0	1	%Rec Lii	mit 25-121	06/14/2016 8:43 PM	Container-01 of 01
541. Hit 655. E510 45 25.0	Surr: 4-Terphenyl-d14	71.4	1	%Rec Li	mit 18-137	06/14/2016 8:43 PM	Container-01 of 01
Surr: Phenol-d5 49.7 1 %Rec Limit 24-113 06/14/2016 8:43 PM Container-01 of 01	Surr: Nitrobenzene-d5	26.6	1	%Rec Li	mit 23-120	06/14/2016 8:43 PM	Container-01 of 01
	Surr: Phenol-d5	49.7	1	%Rec Li	mit 24-113	06/14/2016 8:43 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

 $\ensuremath{c}$  = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported : 6/17/2016

Cathlin Panzarella

Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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Page 12 of 38





TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

AT14059

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas Collected :6/7/2016 12:40:00 PM

Received :6/9/2016 9:30:00 AM

Collected By CLIENT

#### LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:** 

Type: Soil

Origin:

Analytical Method:	D2216 :						Analyst: RL	
Parameter(s)		Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:	
ercent Moisture		22.1		1	wt%	06/09/2016 3:31 PM	Container-01 of 01	-

Lab No. : 1606862-003

Client Sample ID: 1602325-S

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported: 6/17/2016

Cathlin Panzarella

Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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Page 13 of 38



TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

AT14060

Pace Analytical Services Inc. 2190 Technology Drive

Schenectady, NY 12308 Attn To: William A. Kotas

Collected :6/7/2016 12:35:00 PM

:6/9/2016 9:30:00 AM Collected By CLIENT

Received

#### LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Client Sample ID: 1602325-BOTTOM

**Sample Information:** Lab No. : 1606862-004

Type: Soil

Origin:

Collected By CLIENT						
Analytical Method: SW8260C:		Prep I	Method: 503	5A-L		Analyst: KG
Parameter(s)	Results	Qualifier	D.F.	<u>Units</u>	Analyzed:	Container:
1,1,1-Trichloroethane	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
1,1-Dichloroethane	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
1,1-Dichloroethene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
1,2,4-Trimethylbenzene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
1,2-Dichlorobenzene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
1,2-Dichloroethane	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
1,3,5-Trimethylbenzene/P- ethyltoluene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
1,3-Dichlorobenzene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
1,4-Dichlorobenzene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
1,4-Dioxane	< 250	Dc	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
2-Butanone	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
Acetone	< 1,200	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
Benzene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
Carbon tetrachloride	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
Chlorobenzene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
Chloroform	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
cis-1,2-Dichloroethene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
Ethylbenzene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
Methyl tert-butyl ether	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
Methylene chloride	< 1,200	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
n-Butylbenzene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
n-Propylbenzene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
sec-Butylbenzene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
tert-Butylbenzene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
Tetrachloroethene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
Toluene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
trans-1,2-Dichloroethene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
Trichloroethene	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01
Vinyl chloride	< 250	D	71.4	μg/Kg-dry	06/16/2016 10:20 AM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported: 6/17/2016

Cathlin Panzarella Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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Page 14 of 38





NYSDOH ID#10478 <u>www.pacelabs.com</u>

Pace Analytical Services Inc.

AT14060

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected :6/7/2016 12:35:00 PM Received :6/9/2016 9:30:00 AM

Collected By CLIENT

#### LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Sample Information:

Type: Soil

Origin:

Lab No. : 1606862-004
Client Sample ID: 1602325-BOTTOM

Analytical Method: SW8260C: Prep Method: 5035A-L Analyst: KG Parameter(s) Results Qualifier D.F. **Units** Analyzed: Container: 71.4 06/16/2016 10:20 AM Container-01 of 01 Xylene (total) < 250 D µg/Kg-dry %Rec Surr: 1,2-Dichloroethane-d4 83.1 D 71.4 Limit 33-145 06/16/2016 10:20 AM Container-01 of 01 Surr: 4-Bromofluorobenzene 105 D 71.4 %Rec Limit 60-148 06/16/2016 10:20 AM Container-01 of 01 Surr: Toluene-d8 73.8 D 71.4 %Rec Limit 60-132 06/16/2016 10:20 AM Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported : 6/17/2016

Cathler Panyarella
Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

AT14060

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected :6/7/2016 12:35:00 PM Received :6/9/2016 9:30:00 AM

### LABORATORY RESULTS

Lab No. : 1606862-004

Client Sample ID: 1602325-BOTTOM

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT							
Analytical Method: SW8270D :	<u> </u>	Prep Method: SW3	545A		Prep Date:	6/10/2016 12:00:12 PM	Analyst: EAG
Parameter(s)	Results Qualit	fier <u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
2-Methylphenol	< 580	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
3-Methylphenol/4-Methylphenol	< 1,200	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Acenaphthene	4,100	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Acenaphthylene	< 580	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Anthracene	1,100	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Benzo(a)anthracene	4,200	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Benzo(a)pyrene	4,100	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Benzo(b)fluoranthene	7,300	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Benzo(g,h,i)perylene	1,600 c	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Benzo(k)fluoranthene	2,400	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Chrysene	4,700	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Dibenzo(a,h)anthracene	700	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Dibenzofuran	< 580	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Fluoranthene	6,300	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Fluorene	4,600	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Hexachlorobenzene	< 580	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Indeno(1,2,3-cd)pyrene	1,900	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Pentachlorophenol	< 1,500	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Phenanthrene	7,100	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Phenol	< 580	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Pyrene	6,700	1	μg/Kg-dry			06/14/2016 9:11 PM	Container-01 of 01
Surr: 1,2-Dichlorobenzene-d4	34.1	1	%Rec	Limit	20-130	06/14/2016 9:11 PM	Container-01 of 01
Surr: 2,4,6-Tribromophenol	67.7	1	%Rec	Limit	19-122	06/14/2016 9:11 PM	Container-01 of 01
Surr: 2-Chlorophenol-d4	59.9	1	%Rec	Limit	20-130	06/14/2016 9:11 PM	Container-01 of 01
Surr: 2-Fluorobiphenyl	83.2	1	%Rec	Limit	30-115	06/14/2016 9:11 PM	Container-01 of 01
Surr: 2-Fluorophenol	64.4	1	%Rec	Limit	25-121	06/14/2016 9:11 PM	Container-01 of 01
Surr: 4-Terphenyl-d14	82.4	1	%Rec	Limit	18-137	06/14/2016 9:11 PM	Container-01 of 01
Surr: Nitrobenzene-d5	98.9	1	%Rec	Limit	23-120	06/14/2016 9:11 PM	Container-01 of 01
Surr: Phenol-d5	60.7	1	%Rec	Limit	24-113	06/14/2016 9:11 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

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M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported: 6/17/2016

Cathlin Panzarella Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

AT14060

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: William A. Kotas

Collected :6/7/2016 12:35:00 PM Received :6/9/2016 9:30:00 AM

Collected By CLIENT

#### LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Sample Information:

Type: Soil

Origin:

 Analytical Method:
 D2216 :
 Analyst:
 RL

 Parameter(s)
 Results
 Qualifier
 D.F.
 Units
 Analyzed:
 Container:

 Percent Moisture
 42.9
 1
 wt%
 06/09/2016 3:32 PM
 Container-01 of 01

Lab No. : 1606862-004

Client Sample ID: 1602325-BOTTOM

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported : 6/17/2016

Cathlin Panzarella

Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Page 17 of 38



# **QC SUMMARY REPORT**

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID:** 56467

Website: www.pacelabs.com

	1500.001		Datellib. 30407						
Sample ID MB-56467	SampType: MBLK	TestCode: 8270_SSTAR Units: μg/Kg	g Prep Date: 6/10/2016 RunNo: 99729						
Client ID: PBS	Batch ID: 56467	TestNo: <b>SW8270 SW3545</b>	Analysis Date: 6/14/2016 SeqNo: 2189749						
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual						
Acenaphthylene	< 330	330							
Acenaphthene	< 330	330							
Fluorene	< 330	330							
Phenanthrene	< 330	330							
Anthracene	< 330	330							
Fluoranthene	< 330	330							
Pyrene	< 330	330							
Benzo(a)anthracene	< 330	330							
Chrysene	< 330	330							
Benzo(b)fluoranthene	< 330	330							
Benzo(k)fluoranthene	< 330	330							
Benzo(a)pyrene	< 330	330							
Indeno(1,2,3-cd)pyrene	< 330	330							
Dibenzo(a,h)anthracene	< 330	330							
Benzo(g,h,i)perylene	< 330	330							
Surr: Nitrobenzene-d5	1,300	1,667	77.0 23 120						
Surr: 2-Fluorobiphenyl	1,100	1,667	64.9 30 115						
Surr: 4-Terphenyl-d14	1,400	1,667	82.2 18 137						
Surr: 1,2-Dichlorobenzene-d4	1,000	1,667	59.9 20 130						
Sample ID LFB-56467	SampType: <b>LFB</b>	TestCode: 8270_SSTAR Units: µg/K	g Prep Date: 6/10/2016 RunNo: 99729						
Client ID: ZZZZZZ	Batch ID: <b>56467</b>	TestNo: <b>SW8270 SW3545</b>	Analysis Date: 6/14/2016 SeqNo: 2189750						

Sample ID	LFB-56	467	SampType:	LFB	TestCoo	TestCode: 8270_SSTAR Units: µg/Kg				Prep Date: 6/10/2016				RunNo: <b>99729</b>		
Client ID:	ZZZZZ	2	Batch ID:	56467	TestN	TestNo: SW		V8270 SW3545		Analysis Da	te: <b>6/14/</b> 2	2016	SeqNo: 218	39750		
Analyte				Result	PQL	SPK	value	SPK Ref Val	%REC	LowLimit	HighLimi	RPD Ref Val	%RPD	RPDLimit	Qual	
Acenaphthy	/lene			1,200	330		1,667	0	72.0	43	107	,				
Qualifiers:	*	Value exceeds	Maximum Co	ontaminant Leve		D	Dilutio	on was required.			Е	Value above quan	titation range			
	Н	Holding times	for preparatio	n or analysis exc	eeded	M Manual Integration used to d			etermine ar	rea response	ND	Not Detected at th	e Reporting Lim	nit		
	O	RSD is greater	r than RSDlim	it		P	P Second column confirmation				R	RPD outside accep	pted recovery lin	nits		
	S	Spike Recover	ry outside acce	pted recovery lii	nits	W	Sampl	e container temperatur	e is out of l	imit as specif	ied			Pag	ge 18 of 38	





Website: www.pacelabs.com

# **QC SUMMARY REPORT**

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID:** 56467

Sample ID LFB-56467 Client ID: ZZZZZZ	SampType: <b>LFB</b> Batch ID: <b>56467</b>		de: <b>8270_SST</b> No: <b>SW8270</b>	AR Units: µg/Kg SW3545		Prep Date			RunNo: <b>99</b> SeqNo: <b>21</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1,300	330	1,667	0	76.0	45	109				
Fluorene	1,200	330	1,667	0	70.3	47	108				
Phenanthrene	1,300	330	1,667	0	79.9	47	124				
Anthracene	1,400	330	1,667	0	81.1	50	117				
Fluoranthene	1,200	330	1,667	0	73.9	45	126				
Pyrene	1,300	330	1,667	0	75.3	49	132				
Benzo(a)anthracene	1,300	330	1,667	0	76.7	52	116				
Chrysene	1,300	330	1,667	0	80.9	48	121				
Benzo(b)fluoranthene	1,100	330	1,667	0	63.7	45	122				
Benzo(k)fluoranthene	1,300	330	1,667	0	78.8	54	124				
Benzo(a)pyrene	1,100	330	1,667	0	68.9	56	119				
Indeno(1,2,3-cd)pyrene	1,400	330	1,667	0	86.8	50	108				
Dibenzo(a,h)anthracene	1,400	330	1,667	0	84.7	52	109				
Benzo(g,h,i)perylene	1,400	330	1,667	0	81.2	30	107				
Surr: Nitrobenzene-d5	1,200		1,667		72.5	23	120				
Surr: 2-Fluorobiphenyl	1,200		1,667		70.0	30	115				
Surr: 4-Terphenyl-d14	1,200		1,667		71.7	18	137				
Surr: 1,2-Dichlorobenzene-d4	1,200		1,667		70.3	20	130				

Qualifiers:

- Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 19 of 38



# **QC SUMMARY REPORT**

WO#:

1606862

17-Jun-16

Pace Analytical Services Inc. **Client:** 

**Project:** 16060161 - 1368.001 BatchID: 56467

Website: www.pacelabs.com

Sample ID MB-56467	SampType: MBLK	TestCod	le: <b>8270_S_T</b>	CL Units: µg/Kg		Prep Da	te: <b>6/10/2</b>	016	RunNo: 998	896	
Client ID: PBS	Batch ID: 56467	TestN	lo: <b>SW8270</b>	SW3545		Analysis Da	te: <b>6/14/2</b>	016	SeqNo: <b>21</b> 9	94103	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	< 330	330									
Fluorene	< 330	330									
Phenanthrene	< 330	330									
Anthracene	< 330	330									
Fluoranthene	< 330	330									
Pyrene	< 330	330									
Benzo(a)anthracene	< 330	330									
Chrysene	< 330	330									
Benzo(b)fluoranthene	< 330	330									
Benzo(k)fluoranthene	< 330	330									
Benzo(a)pyrene	< 330	330									
Indeno(1,2,3-cd)pyrene	< 330	330									
Dibenzo(a,h)anthracene	< 330	330									
Benzo(g,h,i)perylene	< 330	330									
Surr: Nitrobenzene-d5	1,300		1,667		77.0	23	120				
Surr: 2-Fluorobiphenyl	1,100		1,667		64.9	30	115				
Surr: 4-Terphenyl-d14	1,400		1,667		82.2	18	137				
Surr: 1,2-Dichlorobenzene-d4	1,000		1,667		59.9	20	130				

Sample ID LFB-56467 Client ID: ZZZZZZ	SampType: <b>LFB</b> Batch ID: <b>56467</b>	<b></b>		CL Units: μg/Kg SW3545		Prep Date: 6/10/2016  Analysis Date: 6/14/2016			RunNo: <b>998</b> SeqNo: <b>219</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1,300	330	1,667	0	76.0	45	109				
Fluorene	1,200	330	1,667	0	70.3	47	108				
Qualifiers: * Va	lue exceeds Maximum Contaminant Level		D Dilutio	on was required.			E	Value above quant	titation range		

- Holding times for preparation or analysis exceeded
- RSD is greater than RSDlimit
- Spike Recovery outside accepted recovery limits
- Manual Integration used to determine area response
- Second column confirmation exceeds
- Sample container temperature is out of limit as specified
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits

Page 20 of 38





Website: www.pacelabs.com

# **QC SUMMARY REPORT**

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID:** 56467

Sample ID LFB-56467 Client ID: ZZZZZZ	SampType: LFB Batch ID: 56467		de: <b>8270_S_T</b> do: <b>SW8270</b>	CL Units: µg/Kg SW3545		Prep Dat Analysis Dat			RunNo: <b>99</b> 8 SeqNo: <b>21</b> 9		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	1,300	330	1,667	0	79.9	47	124				
Anthracene	1,400	330	1,667	0	81.1	50	117				
Fluoranthene	1,200	330	1,667	0	73.9	45	126				
Pyrene	1,300	330	1,667	0	75.3	49	132				
Benzo(a)anthracene	1,300	330	1,667	0	76.7	52	116				
Chrysene	1,300	330	1,667	0	80.9	48	121				
Benzo(b)fluoranthene	1,100	330	1,667	0	63.7	45	122				
Benzo(k)fluoranthene	1,300	330	1,667	0	78.8	54	124				
Benzo(a)pyrene	1,100	330	1,667	0	68.9	56	119				
Indeno(1,2,3-cd)pyrene	1,400	330	1,667	0	86.8	50	108				
Dibenzo(a,h)anthracene	1,400	330	1,667	0	84.7	52	109				
Benzo(g,h,i)perylene	1,400	330	1,667	0	81.2	30	107				
Surr: Nitrobenzene-d5	1,200		1,667		72.5	23	120				
Surr: 2-Fluorobiphenyl	1,200		1,667		70.0	30	115				
Surr: 4-Terphenyl-d14	1,200		1,667		71.7	18	137				
Surr: 1,2-Dichlorobenzene-d4	1,200		1,667		70.3	20	130				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 21 of 38



# **QC SUMMARY REPORT**

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID:** 56467

Website: www.pacelabs.com

Sample ID MB-56467	SampType: MBLK		le: <b>8270_S_4</b> -			Prep Da			RunNo: 998		
Client ID: PBS	Batch ID: <b>56467</b>	TestN	lo: <b>SW8270</b>	SW3545		Analysis Da	ite: 6/14/2	2016	SeqNo: 219	91882	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3-Methylphenol/4-Methylphenol	< 660	660									
Phenol	< 330	330									
2-Methylphenol	< 330	330									
Acenaphthylene	< 330	330									
Acenaphthene	< 330	330									
Dibenzofuran	< 330	330									
Fluorene	< 330	330									
Hexachlorobenzene	< 330	330									
Pentachlorophenol	< 830	830									
Phenanthrene	< 330	330									
Anthracene	< 330	330									
Fluoranthene	< 330	330									
Pyrene	< 330	330									
Benzo(a)anthracene	< 330	330									
Chrysene	< 330	330									
Benzo(b)fluoranthene	< 330	330									
Benzo(k)fluoranthene	< 330	330									
Benzo(a)pyrene	< 330	330									
Indeno(1,2,3-cd)pyrene	< 330	330									
Dibenzo(a,h)anthracene	< 330	330									
Benzo(g,h,i)perylene	< 330	330									
Surr: 2-Fluorophenol	1,400		2,500		54.4	25	121				
Surr: Nitrobenzene-d5	1,300		1,667		77.0	23	120				
Surr: Phenol-d5	1,800		2,500		70.6	24	113				
Surr: 2,4,6-Tribromophenol	1,200		2,500		46.8	19	122				
Surr: 2-Fluorobiphenyl	1,100		1,667		64.9	30	115				
Qualifiers: * Value exceed	ds Maximum Contaminant Level	l	D Dilutio	n was required.			Е	Value above quan	titation range		
H Holding time	es for preparation or analysis exc	eeded	M Manua	l Integration used to d	etermine ar	rea response	ND	Not Detected at th	e Reporting Lin	nit	
O RSD is great	er than RSDlimit		P Second	l column confirmation	exceeds		R	RPD outside acce	pted recovery lir	nits	

- S Spike Recovery outside accepted recovery limits
- W Sample container temperature is out of limit as specified

Page 22 of 38



Website: www.pacelabs.com

**QC SUMMARY REPORT** 

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID:** 56467

Sample ID MB-56467 Client ID: PBS	SampType: MBLK Batch ID: 56467	TestCode: 8270_S_4-2 Units: μg/Kg TestNo: SW8270 SW3545	Prep Date: 6/10/2016  Analysis Date: 6/14/2016	RunNo: <b>99823</b> SeqNo: <b>2191882</b>
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Surr: 4-Terphenyl-d14 Surr: 2-Chlorophenol-d4	1,400 1,500	1,667 2,500	82.2 18 137 61.7 20 130	
Surr: 1,2-Dichlorobenzene-d4	1,000	1,667	59.9 20 130	

Sample ID LFB-56467	SampType: <b>LFB</b>	TestCod	de: <b>8270_S_4-</b> 2	2 Units: μg/Kg		Prep Date	: 6/10/2016	RunNo: 99823	
Client ID: ZZZZZZ	Batch ID: 56467	TestN	lo: <b>SW8270</b>	SW3545		Analysis Date	6/14/2016	SeqNo: <b>2191883</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit RPD Ref Val	%RPD RPDLin	nit Qual
3-Methylphenol/4-Methylphenol	1,300	660	1,667	0	80.0	37	137		
Phenol	1,300	330	1,667	0	77.0	38	104		
2-Methylphenol	1,200	330	1,667	0	70.7	36	104		
Acenaphthylene	1,200	330	1,667	0	72.0	43	107		
Acenaphthene	1,300	330	1,667	0	76.0	45	109		
Dibenzofuran	1,300	330	1,667	0	80.7	48	112		
Fluorene	1,200	330	1,667	0	70.3	47	108		
Hexachlorobenzene	1,200	330	1,667	0	71.2	51	110		
Pentachlorophenol	890	830	1,667	0	53.5	22	115		
Phenanthrene	1,300	330	1,667	0	79.9	47	124		
Anthracene	1,400	330	1,667	0	81.1	50	117		
Fluoranthene	1,200	330	1,667	0	73.9	45	126		
Pyrene	1,300	330	1,667	0	75.3	49	132		
Benzo(a)anthracene	1,300	330	1,667	0	76.7	52	116		
Chrysene	1,300	330	1,667	0	80.9	48	121		
Benzo(b)fluoranthene	1,100	330	1,667	0	63.7	45	122		
Benzo(k)fluoranthene	1,300	330	1,667	0	78.8	54	124		

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 23 of 38





PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747

Website: www.pacelabs.com

TEL: (631) 694-3040 FAX: (631) 420-8436

**QC SUMMARY REPORT** 

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID:** 56467

Sample ID LFB-56467	SampType: <b>LFB</b>	TestCo	de: <b>8270_S_4</b> -	2 Units: μg/Kg		Prep Da	te: <b>6/10/2</b> 0	)16	RunNo: 998	823	
Client ID: ZZZZZZ	Batch ID: 56467	Test	No: <b>SW8270</b>	SW3545		Analysis Da	te: <b>6/14/2</b> 0	)16	SeqNo: <b>21</b> 9	91883	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	1,100	330	1,667	0	68.9	56	119				
Indeno(1,2,3-cd)pyrene	1,400	330	1,667	0	86.8	50	108				
Dibenzo(a,h)anthracene	1,400	330	1,667	0	84.7	52	109				
Benzo(g,h,i)perylene	1,400	330	1,667	0	81.2	30	107				
Surr: 2-Fluorophenol	1,900		2,500		74.7	25	121				
Surr: Nitrobenzene-d5	1,200		1,667		72.5	23	120				
Surr: Phenol-d5	1,900		2,500		74.7	24	113				
Surr: 2,4,6-Tribromophenol	2,000		2,500		78.6	19	122				
Surr: 2-Fluorobiphenyl	1,200		1,667		70.0	30	115				
Surr: 4-Terphenyl-d14	1,200		1,667		71.7	18	137				
Surr: 2-Chlorophenol-d4	1,900		2,500		75.1	20	130				
Surr: 1,2-Dichlorobenzene-d4	1,200		1,667		70.3	20	130				

Qualifiers:

- Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 24 of 38



Website: www.pacelabs.com

# **QC SUMMARY REPORT**

WO#:

1606862

17-Jun-16

**Client:** Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 BatchID: 56467

Sample ID MB-56467	SampType: MBLK	TestCode:	8270_S_4	-2 Units: μg/Kg		Prep Da	te: <b>6/10/</b>	2016	RunNo: 998	809	
Client ID: PBS	Batch ID: 56467	TestNo:	SW8270	SW3545		Analysis Da	te: <b>6/14/</b>	2016	SeqNo: <b>21</b> 9	91649	
Analyte	Result	PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimi	t RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	< 330	330									
2-Methylphenol	< 330	330									
Acenaphthylene	< 330	330									
Acenaphthene	< 330	330									
Dibenzofuran	< 330	330									
Fluorene	< 330	330									
Hexachlorobenzene	< 330	330									
Pentachlorophenol	< 830	830									
Phenanthrene	< 330	330									
Anthracene	< 330	330									
Fluoranthene	< 330	330									
Pyrene	< 330	330									
Benzo(a)anthracene	< 330	330									
Chrysene	< 330	330									
Benzo(b)fluoranthene	< 330	330									
Benzo(k)fluoranthene	< 330	330									
Benzo(a)pyrene	< 330	330									
Indeno(1,2,3-cd)pyrene	< 330	330									
Dibenzo(a,h)anthracene	< 330	330									
Benzo(g,h,i)perylene	< 330	330									
Surr: 2-Fluorophenol	1,300		2,500		52.6	25	12 <sup>-</sup>				
Surr: Nitrobenzene-d5	1,200		1,667		72.0	23	120	)			
Surr: Phenol-d5	1,600		2,500		63.9	24	113				
Surr: 2,4,6-Tribromophenol	790		2,500		31.5	19	122				
Surr: 2-Fluorobiphenyl	950		1,667		57.2	30	119	5			
Surr: 4-Terphenyl-d14	1,100		1,667		65.9	18	137	7			
Ç	ds Maximum Contaminant Leve			on was required.			Е	Value above quan	_		
_	es for preparation or analysis ex-	ceeded	M Manua	al Integration used to d	etermine a	rea response	ND	Not Detected at th	e Reporting Lin	nit	
O RSD is great	er than RSDlimit		P Second	d column confirmation	exceeds		R	RPD outside acce	pted recovery lir	nits	

- Spike Recovery outside accepted recovery limits
- Sample container temperature is out of limit as specified

Page 25 of 38



# **QC SUMMARY REPORT**

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID:** 56467

Website: www.pacelabs.com

Sample ID MB-56467 Client ID: PBS	SampType: MBLK Batch ID: 56467	TestCode: <b>8270_S_4-2</b> TestNo: <b>SW8270</b>	Units: µg/Kg SW3545		•	e: <b>6/10/20</b> e: <b>6/14/20</b>		RunNo: <b>99</b> 8 SeqNo: <b>21</b> 9		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Chlorophenol-d4 Surr: 1,2-Dichlorobenzene-d4	1,400 990	2,500 1,667		57.1 59.3	20 20	130 130				

Sample ID LFB-56467	SampType: <b>LFB</b>	TestCod	de: <b>8270_S_4-</b> 2	L Units: μg/Kg		Prep Date:	6/10/2016	RunNo: 99809	·
Client ID: ZZZZZZ	Batch ID: <b>56467</b>	TestN	lo: <b>SW8270</b>	SW3545		Analysis Date:	6/14/2016	SeqNo: <b>2191650</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit F	lighLimit RPD Ref Val	%RPD RPDLimit	Qual
Phenol	1,200	330	1,667	0	69.1	38	104		
2-Methylphenol	1,200	330	1,667	0	72.1	36	104		
Acenaphthylene	1,100	330	1,667	0	64.7	43	107		
Acenaphthene	1,100	330	1,667	0	68.8	45	109		
Dibenzofuran	1,300	330	1,667	0	76.1	48	112		
Fluorene	1,200	330	1,667	0	73.9	47	108		
Hexachlorobenzene	1,200	330	1,667	0	74.5	51	110		
Pentachlorophenol	< 830	830	1,667	0	40.4	22	115		
Phenanthrene	1,300	330	1,667	0	78.7	47	124		
Anthracene	1,400	330	1,667	0	82.5	50	117		
Fluoranthene	1,300	330	1,667	0	78.3	45	126		
Pyrene	1,200	330	1,667	0	73.5	49	132		
Benzo(a)anthracene	1,300	330	1,667	0	75.3	52	116		
Chrysene	1,400	330	1,667	0	83.0	48	121		
Benzo(b)fluoranthene	1,200	330	1,667	0	73.8	45	122		
Benzo(k)fluoranthene	1,500	330	1,667	0	88.2	54	124		
Benzo(a)pyrene	1,300	330	1,667	0	77.9	56	119		
Indeno(1,2,3-cd)pyrene	1,400	330	1,667	0	84.4	50	108		

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 26 of 38





Website: www.pacelabs.com

# **QC SUMMARY REPORT**

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID:** 56467

Sample ID LFB-56467	SampType: <b>LFB</b>	TestCod	de: <b>8270_S_4</b> -	2 Units: μg/Kg		Prep Dat	te: <b>6/10/20</b>	16	RunNo: 998	309	
Client ID: ZZZZZZ	Batch ID: 56467	TestN	No: <b>SW8270</b>	SW3545		Analysis Dat	te: <b>6/14/20</b>	116	SeqNo: <b>21</b> 9	91650	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenzo(a,h)anthracene	1,200	330	1,667	0	73.6	52	109				
Benzo(g,h,i)perylene	1,200	330	1,667	0	71.7	30	107				
Surr: 2-Fluorophenol	1,700		2,500		69.8	25	121				
Surr: Nitrobenzene-d5	1,200		1,667		71.8	23	120				
Surr: Phenol-d5	1,800		2,500		70.1	24	113				
Surr: 2,4,6-Tribromophenol	1,400		2,500		57.1	19	122				
Surr: 2-Fluorobiphenyl	1,000		1,667		61.1	30	115				
Surr: 4-Terphenyl-d14	1,000		1,667		61.5	18	137				
Surr: 2-Chlorophenol-d4	1,700		2,500		68.0	20	130				
Surr: 1,2-Dichlorobenzene-d4	1,000		1,667		61.3	20	130				

Qualifiers:

- Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 27 of 38



Website: www.pacelabs.com

**QC SUMMARY REPORT** 

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID: R99674** 

Sample ID VBLK061416	SampType: MBLK Tes	tCode: 82	260_S_S	SUF Units: µg/Kg		Prep Da	ite:		RunNo: 996	674	
Client ID: PBS	Batch ID: R99674 T	estNo: S	W8260			Analysis Da	nte: <b>6/14</b> /	2016	SeqNo: 218	8210	
Analyte	Result PC	L SP	K value	SPK Ref Val	%REC	LowLimit	HighLim	it RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	< 250 25	0									
Vinyl chloride	< 10 1	0									
1,1-Dichloroethene	< 10 1	0									
Acetone	< 10 1	0									
Methylene chloride	< 10 1	0									
trans-1,2-Dichloroethene	< 10 1	0									
Methyl tert-butyl ether	< 10 1	0									
1,1-Dichloroethane	< 10 1	0									
cis-1,2-Dichloroethene	< 10 1	0									
2-Butanone	< 10 1	0									
Chloroform	< 10 1	0									
1,1,1-Trichloroethane	< 10 1	0									
Carbon tetrachloride	< 10 1	0									
Benzene	< 10 1	0									
1,2-Dichloroethane	< 10 1	0									
Trichloroethene	< 10 1	0									
Toluene	< 10 1	0									
Tetrachloroethene	< 10 1	0									
Chlorobenzene	< 10 1	0									
Ethylbenzene	< 10 1	0									
n-Propylbenzene	< 10 1	0									
1,3,5-Trimethylbenzene/P-ethyltolu	ene < 10 1	0									
tert-Butylbenzene	< 10 1	0									
1,2,4-Trimethylbenzene	< 10 1	0									
sec-Butylbenzene	< 10 1	0									
1,3-Dichlorobenzene	< 10 1	0									
Qualifiers: * Value exceeds	Maximum Contaminant Level	D	Diluti	on was required.			Е	Value above qua	antitation range		
H Holding times t	for preparation or analysis exceeded	M	Manu	al Integration used to d	etermine a	rea response	ND	Not Detected at	the Reporting Lim	it	
O RSD is greater		P	Secon	nd column confirmation	exceeds	•	R		cepted recovery lin		
_	outside accepted recovery limits	W	Comm	le container temperatur	a is out of	limit og amagit	God		•		e 28 of

- S Spike Recovery outside accepted recovery limits
- W Sample container temperature is out of limit as specified



Website: www.pacelabs.com

# **QC SUMMARY REPORT**

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID: R99674** 

Sample ID VBLK061416 Client ID: PBS	SampType: MBLK Batch ID: R99674		de: <b>8260_S_S</b> No: <b>SW8260</b>	UF Units: μg/Kg		Prep Da Analysis Da		116	RunNo: <b>99</b> 0 SegNo: <b>21</b> 8		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit		RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	< 10	10									
n-Butylbenzene	< 10	10									
1,2-Dichlorobenzene	< 10	10									
Surr: 1,2-Dichloroethane-d4	60		50.00		120	33	145				
Surr: Toluene-d8	46		50.00		92.2	60	132				
Surr: 4-Bromofluorobenzene	53		50.00		106	60	148				

Sample ID LFB061416	SampType: LFB	TestCoo	de: <b>8260_S_S</b>	UF Units: μg/Kg		Prep Da	te:		RunNo: 990	674	
Client ID: ZZZZZZ	Batch ID: <b>R99674</b>	TestN	No: <b>SW8260</b>			Analysis Da	te: <b>6/14/2</b> 0	116	SeqNo: <b>21</b> 8	38211	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1,200	250	1,250	0	99.7	10	205				
Vinyl chloride	65	10	50.00	0	131	45	137				
1,1-Dichloroethene	67	10	50.00	0	134	47	152				
Acetone	60	10	50.00	0	120	23	196				
Methylene chloride	61	10	50.00	0	121	50	164				
trans-1,2-Dichloroethene	65	10	50.00	0	130	53	157				
Methyl tert-butyl ether	61	10	50.00	0	122	25	171				
1,1-Dichloroethane	70	10	50.00	0	140	53	160				
cis-1,2-Dichloroethene	66	10	50.00	0	132	75	130				S
2-Butanone	57	10	50.00	0	114	52	164				
Chloroform	67	10	50.00	0	133	71	135				
1,1,1-Trichloroethane	62	10	50.00	0	123	59	134				
Carbon tetrachloride	59	10	50.00	0	118	57	135				
Benzene	61	10	50.00	0	122	65	129				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 29 of 38





Website: www.pacelabs.com

VROAD

QC SUMMARY REPORT

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID: R99674** 

Sample ID LFB061416	SampType: <b>LFB</b>	TestCo	de: <b>8260_S_S</b>	SUF Units: μg/Kg		Prep Da	te:		RunNo: 99	674	
Client ID: ZZZZZZ	Batch ID: <b>R99674</b>	Test	No: <b>SW8260</b>			Analysis Da	te: <b>6/14/2</b> 0	)16	SeqNo: 21	88211	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	69	10	50.00	0	137	65	143				
Trichloroethene	62	10	50.00	0	123	62	130				
Toluene	62	10	50.00	0	123	66	131				
Tetrachloroethene	50	10	50.00	0	100	10	176				
Chlorobenzene	53	10	50.00	0	107	62	136				
Ethylbenzene	55	10	50.00	0	110	59	135				
n-Propylbenzene	52	10	50.00	0	104	56	125				
1,3,5-Trimethylbenzene/P-ethyltolue	ene 100	10	100.0	0	104	49	134				
tert-Butylbenzene	50	10	50.00	0	100	56	127				
1,2,4-Trimethylbenzene	55	10	50.00	0	111	59	126				
sec-Butylbenzene	53	10	50.00	0	106	50	126				
1,3-Dichlorobenzene	51	10	50.00	0	102	64	124				
1,4-Dichlorobenzene	50	10	50.00	0	101	61	127				
n-Butylbenzene	59	10	50.00	0	117	54	121				
1,2-Dichlorobenzene	51	10	50.00	0	101	67	125				
Surr: 1,2-Dichloroethane-d4	54		50.00		107	33	145				
Surr: Toluene-d8	47		50.00		93.9	60	132				
Surr: 4-Bromofluorobenzene	53		50.00		106	60	148				

Qualifiers:

- Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits

Page 30 of 38



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# **QC SUMMARY REPORT**

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID: R99834** 

Sample ID VBLK061616	SampType: MBI	L <b>K</b> TestCo	de: <b>82</b> 0	80_S_S	UF Units: μg/Kg		Prep Da	ite:		RunNo: 998	834	
Client ID: PBS	Batch ID: R99	834 Testl	No: <b>SV</b>	8260			Analysis Da	ate: 6/16/	/2016	SeqNo: 219	93960	
Analyte	Res	sult PQL	SPK	value	SPK Ref Val	%REC	LowLimit	HighLim	it RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	<	10 10										
1,1-Dichloroethene	<	10 10										
Acetone	<	10 10										
Methylene chloride	<	10 10										
trans-1,2-Dichloroethene	<	10 10										
Methyl tert-butyl ether	<	10 10										
1,1-Dichloroethane	<	10 10										
cis-1,2-Dichloroethene	<	10 10										
2-Butanone	<	10 10										
Chloroform	<	10 10										
1,1,1-Trichloroethane	<	10 10										
Carbon tetrachloride	<	10 10										
Benzene	<	10 10										
1,2-Dichloroethane	<	10 10										
Trichloroethene	<	10 10										
Toluene	<	10 10										
Tetrachloroethene	<	10 10										
Chlorobenzene	<	10 10										
Ethylbenzene	<	10 10										
Xylene (total)	<	10 10										
n-Propylbenzene	<	10 10										
1,3,5-Trimethylbenzene/P-6	thyltoluene <	10 10										
tert-Butylbenzene	-	10 10										
1,2,4-Trimethylbenzene		10 10										
sec-Butylbenzene		10 10										
1,3-Dichlorobenzene		10 10										
Qualifiers: * Value	exceeds Maximum Contami	inant Level	D	Diluti	on was required.			E	Value above quar	ntitation range		
H Holdin	g times for preparation or a	nalysis exceeded	M	Manu	al Integration used to d	etermine a	rea response	ND	Not Detected at the	_	nit	
	greater than RSDlimit	•	P		d column confirmation		•	R	RPD outside acce			
	Recovery outside accepted r	ecovery limits	W		le container temperatur		limit as specif			-		e 31 of

- S Spike Recovery outside accepted recovery limits
- W Sample container temperature is out of limit as specified



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# **QC SUMMARY REPORT**

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID: R99834** 

Sample ID VBLK061616 Client ID: PBS	SampType: MBLK Batch ID: R99834		de: <b>8260_S_S</b> No: <b>SW8260</b>	UF Units: μg/Kg		Prep Da Analysis Da		016	RunNo: <b>998</b> SeqNo: <b>219</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	< 10	10									
n-Butylbenzene	< 10	10									
1,2-Dichlorobenzene	< 10	10									
Surr: 1,2-Dichloroethane-d4	58		50.00		116	33	145				
Surr: Toluene-d8	46		50.00		92.6	60	132				
Surr: 4-Bromofluorobenzene	52		50.00		104	60	148				

Sample ID LFB061616	SampType: LFB	TestCod	de: <b>8260_S_S</b>	<b>UF</b> Units: μg/Kg		Prep Dat	e:		RunNo: 998	334	
Client ID: ZZZZZZ	Batch ID: <b>R99834</b>	TestN	No: <b>SW8260</b>			Analysis Dat	e: <b>6/16/20</b>	116	SeqNo: <b>21</b> 9	93961	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	57	10	50.00	0	115	45	137				
1,1-Dichloroethene	56	10	50.00	0	111	47	152				
Acetone	62	10	50.00	0	124	23	196				
Methylene chloride	55	10	50.00	0	110	50	164				
trans-1,2-Dichloroethene	56	10	50.00	0	113	53	157				
Methyl tert-butyl ether	58	10	50.00	0	117	25	171				
1,1-Dichloroethane	62	10	50.00	0	124	53	160				
cis-1,2-Dichloroethene	59	10	50.00	0	119	75	130				
2-Butanone	67	10	50.00	0	133	52	164				
Chloroform	61	10	50.00	0	121	71	135				
1,1,1-Trichloroethane	52	10	50.00	0	104	59	134				
Carbon tetrachloride	50	10	50.00	0	99.4	57	135				
Benzene	54	10	50.00	0	109	65	129				
1,2-Dichloroethane	64	10	50.00	0	128	65	143				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 32 of 38





Website: www.pacelabs.com

**QC SUMMARY REPORT** 

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID: R99834** 

	SampType: LFB		de: <b>8260_S_S</b>	UF Units: μg/Kg		Prep Date		40	RunNo: 998		
Client ID: ZZZZZZ	Batch ID: <b>R99834</b>	Testi	lo: <b>SW8260</b>			Analysis Date	6/16/20	16	SeqNo: 219	93961	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit I	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	53	10	50.00	0	106	62	130				
Toluene	55	10	50.00	0	109	66	131				
Tetrachloroethene	39	10	50.00	0	78.8	10	176				
Chlorobenzene	49	10	50.00	0	98.1	62	136				
Ethylbenzene	48	10	50.00	0	96.7	59	135				
Xylene (total)	150	10	150.0	0	101	62	135				
n-Propylbenzene	45	10	50.00	0	90.8	56	125				
1,3,5-Trimethylbenzene/P-ethyltolu	ene 92	10	100.0	0	91.9	49	134				
tert-Butylbenzene	43	10	50.00	0	86.8	56	127				
1,2,4-Trimethylbenzene	50	10	50.00	0	101	59	126				
sec-Butylbenzene	46	10	50.00	0	91.7	50	126				
1,3-Dichlorobenzene	47	10	50.00	0	94.5	64	124				
1,4-Dichlorobenzene	47	10	50.00	0	94.2	61	127				
n-Butylbenzene	50	10	50.00	0	100	54	121				
1,2-Dichlorobenzene	48	10	50.00	0	95.7	67	125				
Surr: 1,2-Dichloroethane-d4	51		50.00		102	33	145				
Surr: Toluene-d8	46		50.00		92.7	60	132				
Surr: 4-Bromofluorobenzene	53		50.00		105	60	148				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 33 of 38



Website: www.pacelabs.com

# **QC SUMMARY REPORT**

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID: R99970** 

·	SampType: MBLK  Batch ID: R99970		e: 8260_S_SUF Units: µg/Kg p: SW8260		Prep Da		046	RunNo: 999		
Client ID: PBS	Balcii ID. <b>R99970</b>	resun	J. <b>3448260</b>		Analysis Da	ie. 6/16/2	1016	SeqNo: 219	96023	
Analyte	Result	PQL	SPK value SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	< 100	100								D
Vinyl chloride	< 100	100								D
1,1-Dichloroethene	< 100	100								D
Acetone	< 500	500								D
Methylene chloride	< 500	500								D
trans-1,2-Dichloroethene	< 100	100								D
Methyl tert-butyl ether	< 100	100								D
1,1-Dichloroethane	< 100	100								D
cis-1,2-Dichloroethene	< 100	100								D
2-Butanone	< 100	100								D
Chloroform	< 100	100								D
1,1,1-Trichloroethane	< 100	100								D
Carbon tetrachloride	< 100	100								D
Benzene	< 100	100								D
1,2-Dichloroethane	< 100	100								D
Trichloroethene	< 100	100								D
Toluene	< 100	100								D
Tetrachloroethene	< 100	100								D
Chlorobenzene	< 100	100								D
Ethylbenzene	< 100	100								D
Xylene (total)	< 100	100								D
n-Propylbenzene	< 100	100								D
1,3,5-Trimethylbenzene/P-ethyltolue	ene < 100	100								D
ert-Butylbenzene	< 100	100								D
1,2,4-Trimethylbenzene	< 100	100								D
sec-Butylbenzene	< 100	100								D
C	Maximum Contaminant Levor preparation or analysis ex		D Dilution was required.  M Manual Integration used to de			Е	Value above quant	_		

- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- R RPD outside accepted recovery limits

Page 34 of 38



Website: www.pacelabs.com

# **QC SUMMARY REPORT**

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID: R99970** 

Sample ID VBLK061616M	SampType: MBLK	TestCode: 8260	D_S_SUF Units: µg/Kg		Prep Date	e:	RunNo: 99	970	
Client ID: PBS	Batch ID: <b>R99970</b>	TestNo: SW8	3260		Analysis Date	e: <b>6/16/2016</b>	SeqNo: 21	96023	
Analyte	Result	PQL SPK \	/alue SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref \	/al %RPD	RPDLimit	Qual
1,3-Dichlorobenzene	< 100	100							D
1,4-Dichlorobenzene	< 100	100							D
n-Butylbenzene	< 100	100							D
1,2-Dichlorobenzene	< 100	100							D
Surr: 1,2-Dichloroethane-d4	2,100	2	2,500	83.7	33	145			D
Surr: Toluene-d8	2,500	2	2,500	98.5	60	132			D
Surr: 4-Bromofluorobenzene	2,500	2	2,500	98.2	60	148			D

Sample ID LFB061616M	SampType: <b>LFB</b>	TestCoo	de: <b>8260_S_S</b>	UF Units: μg/Kg		Prep Dat	e:	RunNo: <b>99970</b>	
Client ID: ZZZZZZ	Batch ID: <b>R99970</b>	TestN	lo: <b>SW8260</b>			Analysis Dat	e: <b>6/16/2016</b>	SeqNo: <b>2196024</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Va	al %RPD RPDLimit	Qual
1,4-Dioxane	40,000	100	62,500	0	63.7	10	205		D
Vinyl chloride	1,900	100	2,500	0	75.6	45	137		D
1,1-Dichloroethene	2,100	100	2,500	0	82.4	47	152		D
Acetone	1,900	500	2,500	0	74.6	23	196		D
Methylene chloride	2,000	500	2,500	0	80.0	50	164		D
trans-1,2-Dichloroethene	2,300	100	2,500	0	93.9	53	157		D
Methyl tert-butyl ether	2,500	100	2,500	0	102	25	171		D
1,1-Dichloroethane	2,300	100	2,500	0	92.7	53	160		D
cis-1,2-Dichloroethene	2,500	100	2,500	0	98.7	75	130		D
2-Butanone	2,000	100	2,500	0	81.5	52	164		D
Chloroform	2,400	100	2,500	0	97.3	71	135		D
1,1,1-Trichloroethane	2,100	100	2,500	0	84.9	59	134		D
Carbon tetrachloride	2,000	100	2,500	0	80.3	57	135		D

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- Dilution was required.
- Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 35 of 38





Website: www.pacelabs.com

## **QC SUMMARY REPORT**

WO#:

1606862

17-Jun-16

Client: Pace Analytical Services Inc.

**Project:** 16060161 - 1368.001 **BatchID: R99970** 

Sample ID LFB061616M	SampType: <b>LFB</b>	TestCo	de: <b>8260_S_S</b>	UF Units: μg/Kg		Prep Date	):		RunNo: 99	970	
Client ID: ZZZZZZ	Batch ID: <b>R99970</b>	TestN	No: <b>SW8260</b>			Analysis Date	e: 6/16/20	16	SeqNo: <b>21</b> !	96024	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2,300	100	2,500	0	90.8	65	129				D
1,2-Dichloroethane	2,700	100	2,500	0	106	65	143				D
Trichloroethene	2,300	100	2,500	0	90.7	62	130				D
Toluene	2,300	100	2,500	0	91.4	66	131				D
Tetrachloroethene	1,900	100	2,500	0	77.0	10	176				D
Chlorobenzene	2,200	100	2,500	0	89.5	62	136				D
Ethylbenzene	2,200	100	2,500	0	88.3	59	135				D
Xylene (total)	7,000	100	7,500	0	93.4	62	135				D
n-Propylbenzene	2,200	100	2,500	0	89.5	56	125				D
1,3,5-Trimethylbenzene/P-ethyltolu	ene 4,600	100	5,000	0	92.1	49	134				D
tert-Butylbenzene	2,300	100	2,500	0	90.3	56	127				D
1,2,4-Trimethylbenzene	2,300	100	2,500	0	93.2	59	126				D
sec-Butylbenzene	2,300	100	2,500	0	93.7	50	126				D
1,3-Dichlorobenzene	2,300	100	2,500	0	90.4	64	124				D
1,4-Dichlorobenzene	2,200	100	2,500	0	89.9	61	127				D
n-Butylbenzene	2,500	100	2,500	0	98.2	54	121				D
1,2-Dichlorobenzene	2,300	100	2,500	0	91.2	67	125				D
Surr: 1,2-Dichloroethane-d4	2,300		2,500		93.1	33	145				D
Surr: Toluene-d8	2,100		2,500		83.2	60	132				D
Surr: 4-Bromofluorobenzene	2,200		2,500		89.4	60	148				D

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 36 of 38





#### PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747

ad Hollow Road lville, NY 11747 Sample Receipt Checklist

TEL: (631) 694-3040 FAX: (631) 420-8436 Website: <u>www.pacelabs.com</u>

Client Name PACE-NY			Date an	d Time Received:	6/9/2016 9:30:00 AM
Work Order Number: 1606862 RcptNo: 1			Receive	ed by Paige Dohe	rty
Completed by: Paige Doharty		Reviev	wed by:	atlin F	Pangarella
Completed Date: <u>6/9/2016 12:39:57 PM</u>		Reviev	ved Date:	6/13/2016	6 1:26:40 PM
Carrier name: FedEx					
Chain of custody present? Chain of custody signed when relinquished and received? Chain of custody agrees with sample labels? Are matrices correctly identified on Chain of custody? Is it clear what analyses were requested? Custody seals intact on sample bottles? Samples in proper container/bottle?	Yes Yes Yes Yes Yes Yes Yes Yes	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	No	Not Present	<b>✓</b>
Were correct preservatives used and noted?	Yes	✓	No 🗌	NA	
Preservative added to bottles: Sample Condition? Sufficient sample volume for indicated test? Were container labels complete (ID, Pres, Date)? All samples received within holding time?	Intact Yes Yes Yes	<b>Y</b>	Broken   No   No   No   No	Leaking	
Was an attempt made to cool the samples? All samples received at a temp. of > 0° C to 6.0° C? Response when temperature is outside of range:	Yes Yes		No 🗌 No 🗆	NA NA	
Sample Temp. taken and recorded upon receipt? Water - Were bubbles absent in VOC vials? Water - Was there Chlorine Present? Water - pH acceptable upon receipt? Are Samples considered acceptable?	Yes Yes Yes Yes Yes		No	To 1. No Vials NA No Water	9° ✓ ✓ ✓
Custody Seals present? Airbill or Sticker? Airbill No:			No Sticker	Not Present	
Case Number: SDG:		SA			
Any No response should be detailed in the comments section	on below, if appl	licable.			
Client Contacted? Yes No NA  Contact Mode: Phone: Fax:  Client Instructions:	Person Cont	acted:	☐ In Person	:	
	acted By: proceed per C	OC.			
CorrectiveAction:					



<u>WorkOrder :</u> 1606862

# Certifications

STATE	<b>CERTIFICATION</b> #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO 00340
PENNSYLVANIA	68-00350

Page 38 of 38

Pace LI

CHAIN OF CUSTODY RECORD	CUSTOD	Y RE	CORD		PAGE 1 OF 1			DISP	SAL REQU	IREMENTS: (To	DISPOSAL REQUIREMENTS: (To be filled in by Client)	
Daca Analytical Sarvices In	First Sc	Zivi e	l so	ز				T		RETURN TO CLIENT		
2190 Technology Dr	ווכמו טנ ive, Scher	ectady	. NY 12;	308 30 <b>2</b>	LRF # 16060161				DISF ARC	DISPOSAL BY RECEIVING LAB ARCHIVAL BY RECEIVING LAB	VING LAB VING LAB	
Telephone (518) 346-4592 Fax (518) 381-6055	3-4592 I	⁻ax (51	8) 381-6	3055	(LAB US	(LAB USE ONLY)		Addition	al charges incurre	Additional charges incurred for disposal (if hazardous) or archival.	dous) or archival.	
WWW. Dacelabs. Colli			PRO JECT#/PRO JECT NAME	ECT NAME:				CNITED ANALYS	AI VOIC AND	Call for details.	D DECLIESTED	
			16060161			PRESER	PRESERVATIVE CODE	DE: TEN AN	AL I 313 AND		PRESERVATIVE KEY	VF KEY
1		<u>- 13</u>	LOCATION (CITY/STATE) ADDRESS	/STATE) ADDR	ESS:	ВОТ	BOTTLE TYPE:				0 - ICE	
PROJECT MANAGER:						BOT	BOTTLE SIZE:				1 - HCL	
Nick Nicholas			¥			SA		/			7 2 - HNO3 3 - H2SO4	
Project:	136	1368.001	REQUIRED TURN AROUND TIME	AROUND TIM	E: 6/16/2016	BNIATV	_	30 <sub>22</sub>	700		4 - NaOH 5 - Zn. Acetate	ate
Notes:						100	_	E8 	\ \	<u>_</u>	MeoH	
*PART 375 PARAMETERS FOR 8260 AND 8270. SAMPLES NOT COLLECTED PER METHOD 5035 GUIDANCE. OKAY TO PROCEST	0 AND 8270. SAN 35 GUIDANCE. C		NAME OF COURIER (IF USED):	ER (IF USED):	i para	B OF C	2001	SOOS SNOCS	\		7 - NaHSO4 8 - Other (Na2SO3)	a2SO3)
ELECTRONIC RESULTS	nicholas.nicholas@pacelabs.com	pacelabs.com			LAB	381	_	\	\ \	_		
	Nicole. Johnson@pacelabs.com	celabs.com		GRAB/	SAMPLE ID	VUN	\	\	_	\ \ \		Ĭ
SAMPLE ID	DATE	TIME	MATRIX	COMP	(LAB USE ONLY)	/ _	/	/	/ /	/	/ REMARKS:	
1602325-W	6/7/16	12:50	S	GRAB	AT14057	2	×	×			1606862	
1602325-E	6/7/16	12:45	S	GRAB	AT14058	2	×	×			•	
1602325-S	6/7/16	12:40	S	GRAB	AT14059	2	×	×				
1602325-BOTTOM	6/7/16	12:35	S	COMP	AT14060	2	×	×				
				<				4		- 01	200	0
	AP:	8	COC TAPE:	z	(	PROPERLY PRESERVED:	PRESERVE		z	OTHER NOTES: A	OTHER NOTES: Analytical Report [LEVEL-2] EDD: EQUIS-DEC-DE	3-DEC-DB
RECEIVED BROKEN OR LEAKING:	<b>②</b> ≻	ŏ	COC DISCREPANCIES:		Q	RECVD W/I HOLDING TIMES:	10LDING TII	MES:	z			
RELINQUISHED BY		RECEIVED BY			RELINQUISHED BY	SIGNATÜBE	RECEIVED BY	W #10	REL	RELINQUISHED BY	RECEIVED BY	T
SIGNATURE	0)	+		Oldar One		(IECA)	h					
PRINTED NAME  POST (C. C. C	PRINTED NAME			PRINTED NAME		PRINTED NAM		dayer	PRINTED NAME		PRINTED NAME	
	COMPANY			COMPANY		COMPANY		12-12	COMPANY		COMPANY	
DATETIME (6:00)	DATE/TIME			DATE/TIME		DATE/TIME	16/	9/16	DATE/TIME		DATE/TIME	
							2	05:16			S:\LOGIN	S:\LOGIN\MDLCOCS

4169 E183 1999

CHAIN-OF-CUSTODY / Analytical / <16060161P1>ent  The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fie	Sartion C	with payable IDDLO	Company Name for the Leavelle IN REGULATORY AGENCY	Address: 473 Electron Es Partient   NPDES   GROUND WATER   DRINKING WATER	Page Quote Reference: OCC 1/9567 COTHER	Pace Project Colling Che Site Location	Pace Profile #: STATE:	Requested Analysis Filtered (Y/N)	Preservatives S	40272 409 1	HC S <sub>2</sub> O <sub>3</sub> ihanol er er er	Weight State of the state of th	XX	XX	070 X X X X X X X X X X X X X X X X X X						TIME ACCEPTED BY / AFFILIATION DATE TIME SAMPLE CONDITIONS	15:47 Jegy Jegy W 15:47 15:8 Y N Y	°C (y)	FR: William State of Color of
CHAIN-OF-	WW.paratas.com		HALLOSS (C) ATVINE DIVE. Bartolog COPY TO MILLE STOPPED	Albu, NY12205	<u>ት</u> አት	8 218 (805 Project Name:	Story Control	1	<del></del>	Drinking Water DW saw Water WT OO WAS WATER WW III Product P Soil/Soild Of O	그렇 사망 다	AM 1	1 C C C C C C C C C C C C C C C C C C C	1,02325.5	4 1607325- Batton SLC61 12:36 6/7 12:35	2	7 7	co co	10	2	ADDITIONAL COMMENTS RELINQUISHED BY JAFFILLATION DATE	UF - MARAM	OBIGINAL SAMPLER NAME AND SIGNATURE	PRINT Name of SAMPLER:

"Important Note: By storning this form you are accepting Pace's NET 30 day payment terms and agreeing to late chances of 1.5% per month for any invoices not paid within 30 days.

# <16060161PZ>

# Sample Condition Upon Receipt

					PROJECT: 130	368.001.001	
COURIER: FedEx   UPS   CI	Client	Pace	Other				
TRACKING # 1		CUSTOD	CUSTODY SEAL PRESENT: Yes		No (本 INTACT: Yes)出	□ oN ⊃	N/A □
PACKING MATERIAL: Bubble Wrap 🗆	<b>Bubble Bags</b>	S	None⊛	Other $\square$	ICE USED: Wet≪	Blue	None
THERMOMETER USED: #164 □ IR Gun 03(女 #160239773 □	4 #16023977		#160239773-PRB		COOLER TEMPERATURE (°C):	5.8	
BIOLOGICAL TISSUE IS FROZEN: Yes	No	N/A(B					
COMMENTS:				Temp	Temperature is Acceptable?	Ayes 🗆	ON 🗆
Chain of Custody Present:	ØYes	ON		1.			
Chain of Custody Filled Out:	ØYes	°N		2.			
Chain of Custody Relinquished:	ØYes €	°N □		'n.			
Sampler Name / Signature on COC:	Offices	oN 🗆	,	4.			
Samples Arrived within Hold Time:	OSI Yes	°N 🗆		5.			
Short Hold Time Analysis (<72hr):	□Yes	SN.		6.			
Rush Turn Around Time Requested:	□Yes	ONAC		7.			
Sufficient Volume:	DVes.	oN□	30	8.			
Correct Containers Used:	Ø.Ves	□No	9,	9.			
- Pace Containers Used:	(X) Yes	oN □					
Containers Intact:	χ. γ.	oN 🗆		10.			
Filtered volume received for Dissolved tests: □ <sub>Yes</sub>	tS: □ yes	□No	MND	11.			
Sample Labels match COC: - Includes date/time/ID/Analysis	Sey□	ØNo		12. Oblicotis	12. Oblichish tum MCCC of 12,35 for dees not moved event label of 12,35 for		Soundle " 1602325 -130ths
All containers needing preservation have been checked:	□Yes	ê	N/A	13. Scrmy les	13. Samiles not collected permethod 5035 guidance	the 5035	guidance.
All containers needing preservation are in	□Yes	SHN0	□ N/A				
compliance with EPA recommendation:			_	Initial when			
- Exceptions that are not checked: TOC, VOA, Subcontract Analyses	ntract Analyses		J	completed:	Lot # of added preservative:	servative:	
Headspace in VOA Vials (>6mm):	□Yes	□No	(MNA	14.			
Trip Blank Present:	□Yes	oN □	N/A	15.			
Trip Blank Custody Seals Present:	□Yes	» □	<b>M</b> NA				
Pace Trip Blank Lot #:							
Sample Receipt form filled in:		Line-Out	(Includes Copy	ing Shipping Do	Line-Out (Includes Copying Shipping Documents and verifying sample pH):	mple pH):	PAUP 6/8/16
				1			
		Ing In (In	clude notifyin	a DM of any die	Log in (Includes notifying DM of any discrenacies and documenting in LIMS).	na in HMS).	

Document Control# F-NY-C-034-rev.01 (24May2016)



September 2, 2016

Mr. John R. Strang, P.E. Environmental Engineer 2 New York State Department of Environmental Conservation Region 4 1130 South Westcott Road Schenectady, New York 12306-2014

#### Via Electronic Mail

Re: Tanks 011, 012, 013, and 014

ALCO – BCP Site C447042

Schenectady, NY

Dear Mr. Strang:

On behalf of Maxon ALCO Holdings, LLC, Barton & Loguidice, Inc. (B&L) has prepared the following report for the results of the sampling for the Tanks 011, 012, 013, and 014 closure activities.

#### **Summary of IRM Activities**

Excavation activities were undertaken at the tank 011, 012, 013, and 014 area in accordance with the approved November 2014 Addendum to the Excavation Work Plan (EXC-WP) dated May 2014. The top of the tanks 011, 012, and 013 were removed by the excavator and approximately 300 tons of the flowable fill (concrete) was removed and stockpiled on a separate storage area that was lined with plastic sheeting and bermed to prohibit run-off. Incidental small quantities of water with no petroleum sheen or odor were observed on the surface of the concrete in tanks 012 and 013. Tanks 011, 012, and 013 were removed on July 13, 14, and 15, 2016. Tank 014 was nearly full of fluids and sludge and was carefully removed while intact on July 13, 2016 and staged on plastic. Tank 011, 012, and 013 interior surfaces were observed to be free of petroleum staining and odor and with NYSDEC concurrence in the field the associated steel was combined with the facilities scrap metal for recycling. Clean Harbors vacuum pumped and cleaned tank 014 on July 27, 2016 and with NYSDEC concurrence in the field the associated steel was combined with the facilities scrap metal for recycling.

Visibly clean overlying soils were removed and stockpiled. Groundwater was not encountered. Soil sampling of each tank excavation were conducted on July 15 with concurrence from NYSDEC on the number and locations of the soil samples.

#### **Summary of Sample Results**

A total of three soil samples were collected, at locations shown on the attached sketch. In addition to volatile organic compounds (VOCs), soil samples were also analyzed for semi-VOCs at the request of NYSDEC. VOCs were not detected. Detections for SVOCs are summarized on the attached table. Sample T-12 had the SVOC benzo(b)fluoranthene at a concentration above the Restricted Residential Soil Cleanup Objective (SCO).





Mr. John R. Strang, P.E. NYSDEC September 2, 2016 Page 2

The SVOCs detected were polynuclear aromatic hydrocarbons (PAHs), that are typically related to coal usage; the PAH detections are consistent with the site-wide PAH detections that constitute Area of Concern 3 that will be addressed by the soil cover. The laboratory results for the soil samples are also attached to this letter.

#### Recommendations

- No additional investigation or remediation is recommended for the area associated with tanks 011, 012, 013, and 014.
- Given the observations made, B&L recommends re-use of the associated concrete flowable fill through addition to the current stock pile on-site in preparation for concrete crushing.

Additional items to be forwarded to the NYSDEC upon receipt are non-hazardous waste manifests and disposal receipts associated with tank 014 contents.

Please feel free to contact the undersigned at (518) 218-1801 with any questions or need for additional information.

Very truly yours,

BARTON & LOGUIDICE, INC.

Andrew J. Barber

Sr. Environmental Consultant

AJB/akd Enclosure

cc: Steve Porter, Esq. - Maxon ALCO Holdings LLC

Steve Luciano - Maxon ALCO Holdings LLC
Paul Fallati - Maxon ALCO Holdings LLC

Dean Sommer, Esq. - Young Sommer

Rich Ostrov - NYSDEC Region 4, OGC

Al DeMarco - NYSDOH

ALCO Brownfield Site 301 Nott Road, Schenectady NY												
COMPOUND	NYSDEC Part 375 Restricted Use SCO's -Restricted Residential (1)	UNIT	T-11	T-12	T-13	DUP-X						
Acenapthene	100,000	μg/kg	-	160 J	-	-						
Anthracene	100,000	μg/kg	-	420 S	-	-						
Benzo(a)anthracene	1,000	μg/kg	-	940	-	-						
Benzo(a)pyrene	1,000	μg/kg	-	810 S	-	-						
Benzo(b)fluoranthene	1,000	μg/kg	-	1,100	-	-						
Benzo(g,h,i)perylene	100,000	μg/kg	-	520 S	-	-						
Benzo(k)fluoranthene	3,900	μg/kg	-	400	-	-						
Chrysene	3,900	μg/kg	-	950 S	-	-						
Dibenzo(a,h)anthracene	330	μg/kg	-	150 Jc	-	-						
Dibenzofuran	59,000	μg/kg	-	100 J	-	-						
Fluoranthene	100,000	μg/kg	-	2,300	-	-						
Fluorene	100,000	μg/kg	-	160 J	-	-						
Indeno(1,2,3-cd)pyrene	500	μg/kg	-	490 S	-	-						
Napthalene	100,000	μg/kg	-	97 J	-	-						
Phenanthrene	100,000	μg/kg	-	1,900	-	-						
Pyrene	100,000	μg/kg	-	1,800	-	-						

<sup>- =</sup> Not Detected

Bold values indicate exceedances.

Blind duplicate sample "Dup" collected at T-13.

1. NYSDEC Part 375 Table 375-6.8(b) Restricted Use Soil Cleanup Objectives (SCOs) for the Protection of Public Health.

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

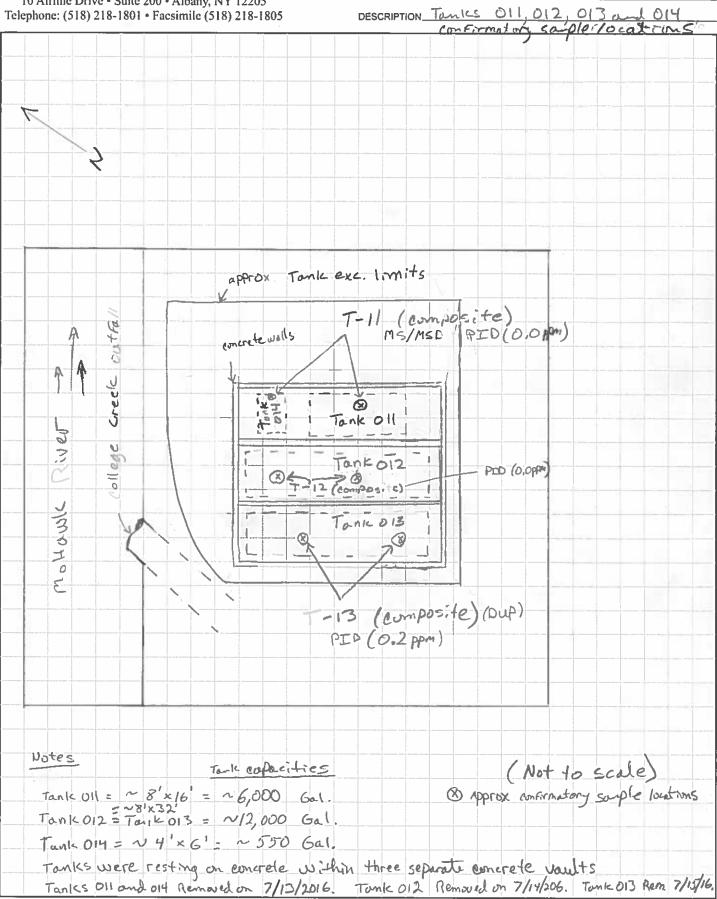
J = Estimated value below calibration range S = Recovery outside of control limits for this analyte



Engineers · Environmental Scientists · Planners · Landscape Architects

10 Airline Drive • Suite 200 • Albany, NY 12205

JOB ALCO	1368,	001.	<u> </u>	
SHEET NO.	1	OF		
CALCULATED BY	NZS	DATE	July	2016
	<u>.                                    </u>		)	
	T 100 0011	212	013	1 000







#### Pace Analytical e-Report

\*Issuance of this report is prior to full data package.

Report prepared for:

BARTON AND LOGUIDICE 10 AIRLINE DRIVE ALBANY, NY 12205

CONTACT: ANDY BARBER

-----

Project ID: ALCO

Sampling Date(s): July 15, 2016 Lab Report ID: 16070280

Client Service Contact: Nick Nicholas (518) 346-4592

\_\_\_\_\_

**Analysis Included:** 

VOCs E8260C - Sub Pace LI SVOCs E8270D - Sub Pace LI

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within the document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Roy Smith Technical Director TNI

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (460241)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com This page intentionally left blank.

# Table of Contents

Section 1: QUALIFIERS	4
Section 2: SAMPLE CHAIN OF CUSTODY	(
Section 3: SAMPLE RECEIPT	9
Section 4: Subcontract Analysis	11

2

# **QUALIFIERS**

#### **Definitions**

- B Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.
- D Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.
- E Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.
- J Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- MDL Adjusted Method Detection Limit.
- P Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.
- PQL Practical Quantitation Limit. PQLs are adjusted for sample weight/volume and dilution factors.
- RL Reporting Limit Denotes lowest analyte concentration reportable for the sample based on regulatory or project specific limits.
- U Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.
- Z Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.
- \* Value not within control limits.

## SAMPLE CHAIN OF CUSTODY



## CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must b < 16070280P1

-1	<b>£</b> 07	กวด	<b>វា</b> បា	
~1	OUT	U40	OP1	_

	Section B			Section C		16070290		Page	e:	of į	
	Report To:	01.15.2		Invoice Information: Attention:					1 5	9062	1
Company: Barton And logarities inc	Copy To:	23477		Mean	1 6	7			10	<u> 100C</u>	i.
10 Kirlase Drive Soute 200	Andy 1	zarbera		Company Name: Problem food of grid it is INC REGULATORY AGENCY							
Albany NY 12205	<i>t</i> =			Address: 443 C	rection to a pic	3077	NPDES	GROUI	ND WATER	DRINKI	NG WATER
Email To: MSharter Dortmadloguedical	Purchase Order No.:			Pace Quote Reference:	700017		UST F	RCRA		OTHER	
	Project Name: ALCO			Pace Project Manager:	A. Pla		Site Location	411			
Requested Due Date/TAT:		801,CO1		Pace Profile #:			STATE:	M			
lenerame someon resumment and are resume or reference from the after a summer of a second second second second	1200.					Requested A	nalysis Filtered	· (Y/N)			
Section D Matrix Coo	des							1 1 1	-		
Required Client Information MATRIX / Co	OM O O O O	COLLECTED		A( Prese	rvatives >				ille A		
Drinking Water Water	WT   g   U		NOI	5							
Waste Water Product	WW pile W STAI			[Z]					Î		
SAMPLE ID Soil/Solid Oil	P St OC CE-GRAB		COL	) 		22			(3)		
(A-Z, 0-9 / ,-) Wipe			TA o	CONTAINERS sserved		1 1/2 1/2			Chlorine (Y/N)		
Sample IDs MUST BE UNIQUE Tissue Other	AR TS OT OT		TEME	Ved		0 80			흥		
	SI SIX		LE J	COl	T S and S				na		
ITEM #	MATRIX SAMPLE	TIME 0.75	SAMPLE TEMP	# OF CONTAIN Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub>	NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	707			Residual	-	
		TIME DATE	TIME Ø					<del>  -</del> - -		ace Project I	
1 T-11 2 T-12	SL C 7/15	8:00		2 X	<del>                                     </del>	<del></del>	1 Atu	549	1 1		Cholher
	SL C 7/15	8:05 -		2 X						13550	
		8:10		2 X		481 1			IA	[ASS]	
4 DUP	54 C 7/15 54 C 7/15	8:15		2 ×	ļ ļ Į ž					17552	
5 MS/MSD (T-11)	SL C 7/15	8:20 -		2 X	<del>╎╎╎╎</del> ╏				IAT	77553	
6										· · · · · · · · · · · · · · · · · · ·	
7						$\bot \bot \bot \bot$					
8											
9					$oxed{+}oxed{+}oxed{+}oxed{+}$						
10					<u> </u>						
11											
12					<u> </u>						
ADDITIONAL COMMENTS	RELINQUISHED BY	AFFILIATION	DATE	TIME	ACCEPTED BY / AI	FFILIATION	DATE	TIME	S.	AMPLE CONDIT	IONS
CAT B deliverage	Math		115/16	1145 a.	Range	Pace	7/15/16 1	145 1	4.8(A) )	N	y
			/ /		0		7 1				
		SAMPLER NAME AN	D SIGNATURE		<del></del>				ပ္ <u>ရ</u>	y y	ntact
OR	RIGINAL	PRINT Name	of SAMPLER:	Noth	SLOFFT				Temp in °C	ustod ad Cc	y/N)
		SIGNATURE	of SAMPLER:	Alsot		ATE Signed MM/DD/YY):	7/15/16		Ter Rec	Custody Sealed Coole (Y/N)	Samples Intact (Y/N)
*Important Note: By signing this form you are accepting Pace Analytical Services, Inc.	پ Pace's NET 30 day payment terms ۽	and agreeing to late charges	of 1.5% per month Ju	for any invoices not paid uly 22, 2016			1.1.		F-ALL-Q-020		7-2007 280 - Page 7 of 42

### <16070280P2>



### Sample Condition Upon Receipt

		***************************************				CLIENT NAME: BAR	-0N X 1	GUSTE
						PROJECT: ALCO	1014 CX LC	OMDICE
COURIER: FedEx  UPS Clie TRACKING # UPS	entes	Pace   CUSTODY	Other	_	No 🕾	INTACT: Yes 🗆	No 🗆	N/A &
7	Bubble Bags		None	Other 🗆		ICE USED: Wetle	Blue 🗆	None □
•	_		239773-PRB		COOLER TE		, 8	
BIOLOGICAL TISSUE IS FROZEN: Yes □	No 🗆	N/A, EL						<del></del>
COMMENTS:					Temperatu	re is Acceptable?	Tes	□No
Chain of Custody Present:	∑∃Yes	□No		1.				
Chain of Custody Filled Out:	√⊒Yes	□No		2.				
Chain of Custody Relinquished:	y⊟Yes	□No		3.				
Sampler Name / Signature on COC:	)⊒-Yes	□No		4.				
Samples Arrived within Hold Time:	ÉPYes	□No		5.				
Short Hold Time Analysis (<72hr):	□Yes	ÆlNo		6.				
Rush Turn Around Time Requested:	□Yes	7500		7. ASAP				
Sufficient Volume:	¿'⊠Yes	□No		8.				
Correct Containers Used:	' <b>X⊡</b> Yes	□No		9.				
- Pace Containers Used:	∑es	□No						
Containers Intact:	X9Yes	□No		10.				
Filtered volume received for Dissolved test	S: □Yes	□№	- → N/A	11.				
Sample Labels match COC: - Includes date/time/ID/Analysis	Pres	Ъи₀			on Coc	tamers for sample 1	US/MSD (T-	11), but only two
All containers needing preservation have been checked:	□Yes	□No	% <del>⊡</del> N/A	13.	<u> </u>			
All containers needing preservation are in compliance with EPA recommendation:	□Yes	□No	A⊒NIA	Initial wher	າ			
- Exceptions that are not checked: TOC, VOA, Subcon	tract Analyses			completed	NIA	Lot # of added prese	rvative: <u>N</u>	A
Headspace in VOA Vials (>6mm):	□Yes	□No	AN/A	14.	***************************************			
Trip Blank Present:	□Yes	□No	?⊞N/A	15.				
Trip Blank Custody Seals Present:	□Yes	□No	X⊒N/A					
Pace Trip Blank Lot #:N/A								
Sample Receipt form filled in: 1040-115/84		Line-Out (	Includes Cop	ving Shippir	ng Docume	nts and verifying sam	ole oH):	W 7/15/16

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

EMP 7/15/16

## SAMPLE RECEIPT



### SAMPLE RECEIPT REPORT 16070280

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 Phone: 518.346.4592 Fax: 518.381.6055

**CLIENT: BARTON AND LOGUIDICE** 

PROJECT: ALCO LRF: 16070280

**REPORT: DATA PACKAGE** 

EDD: YES

LRF TAT: \*48 HOUR\*

**RECEIVED DATE:** 07/15/2016 11:45

SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF 1,3AMPLES PRESERVED PER METHOD GUIDANCE: YES

<sup>3</sup> SAMPLES REC'D IN HOLDTIME: YES SHIPPING ID:

**DISPOSAL:** BY LAB (45 DAYS) NUMBER OF COOLERS: 1 CUSTODY SEAL INTACT: NA COC DISCREPANCY: YES

COOLER STATUS: CHILLED TEMPERATURE(S): 54.8 (IR) °C

COMMENTS:

RECEIVED 4 CONTAINERS FOR SAMPLE MS/MSD (T-11) ONLY TWO ARE LISTED ON COC

CLIENT ID (LAB ID)	TAT-DUE Date <sup>4</sup>	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
T-11 (AT17549)	*48 HOUR* 07-19-16	07/15/2016 08:00	Soil	SVOCs E8270D	SVOCs E8270D - Sub Pace LI	MS, MSD
	*48 HOUR* 07-19-16	07/15/2016 08:00	Soil	VOCs E8260C	VOCs E8260C - Sub Pace LI	MS, MSD
T-12 (AT17550)	*48 HOUR* 07-19-16	07/15/2016 08:05	Soil	SVOCs E8270D	SVOCs E8270D - Sub Pace LI	
	*48 HOUR* 07-19-16	07/15/2016 08:05	Soil	VOCs E8260C	VOCs E8260C - Sub Pace LI	
T-13 (AT17551)	*48 HOUR* 07-19-16	07/15/2016 08:10	Soil	SVOCs E8270D	SVOCs E8270D - Sub Pace LI	
	*48 HOUR* 07-19-16	07/15/2016 08:10	Soil	VOCs E8260C	VOCs E8260C - Sub Pace LI	
DUP (AT17552)	*48 HOUR* 07-19-16	07/15/2016 08:15	Soil	SVOCs E8270D	SVOCs E8270D - Sub Pace LI	
	*48 HOUR* 07-19-16	07/15/2016 08:15	Soil	VOCs E8260C	VOCs E8260C - Sub Pace LI	

The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.

#### **Reporting Parameters and Lists**

This report may not be reproduced except in full, without the written approval of Pace Analytical Services, Inc.

The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

3 Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it 4is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.

The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.

<sup>&</sup>lt;sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

<sup>6</sup>Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

## Subcontract Analysis





PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747

TEL: (631) 694-3040 FAX: (631) 420-8436 Website: www.pacelabs.com

**Case Narrative** 

1607D46

WO#: Date:

**CLIENT:** Pace Analytical Services Inc.

**Project:** 16070280 - 1368.001

### SAMPLING METHOD 5035A NOT FOLLOWED



Nicholas Nicholas

:7/15/2016 8:00:00 AM

:7/16/2016 9:45:00 AM

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308 LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:** 

Type: Soil

Origin:

Lab No. : 1607D46-001

Client Sample ID: T-11

Attn To:

Collected

Received

AT17549/AT17553

Collected By CLIENT

Analytical Method: SW8260C :		Prep M	<u>lethod:</u> 503	5A-L		Analyst: KG
Parameter(s)	Results C	Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,1,1-Trichloroethane	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,1,2,2-Tetrachloroethane	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,1,2-Trichloroethane	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,1-Dichloroethane	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,1-Dichloroethene	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,1-Dichloropropene	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,2,3-Trichlorobenzene	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,2,3-Trichloropropane	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,2,4-Trichlorobenzene	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,2,4-Trimethylbenzene	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,2-Dibromo-3-chloropropane	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,2-Dibromoethane	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,2-Dichlorobenzene	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,2-Dichloroethane	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,2-Dichloropropane	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,3,5-Trimethylbenzene/P- ethyltoluene	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,3-Dichlorobenzene	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,3-Dichloropropane	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
1,4-Dichlorobenzene	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
2,2-Dichloropropane	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
2-Butanone	< 2.1	С	1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
2-Chloroethylvinyl ether	< 2.1	С	1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
2-Chlorotoluene/4-Chlorotoluene	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
2-Hexanone	< 2.1	С	1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
4-Isopropyltoluene	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
4-Methyl-2-pentanone	< 2.1	С	1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Acetone	< 10	С	1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Benzene	< 2.1		1	μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported:

Cathlin Panzarella

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

Nicholas Nicholas

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Lab No. : 1607D46-001

**LABORATORY RESULTS**Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Client Sample ID: T-11

AT17549/AT17553

**Sample Information:** 

Type: Soil

Origin:

Collected : 7/15/2016 8:00:00 AM

Received : 7/16/2016 9:45:00 AM

Collected By CLIENT

Attn To:

Analytical Method: SW8260C :		Prep Meth	nod: 5035A-L			Analyst: KG
Parameter(s)	Results Qu	ualifier [	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Bromobenzene	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Bromochloromethane	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Bromodichloromethane	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Bromoform	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Bromomethane	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Carbon disulfide	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Carbon tetrachloride	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Chlorobenzene	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Chloroethane	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Chloroform	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Chloromethane	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
cis-1,2-Dichloroethene	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
cis-1,3-Dichloropropene	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Dibromochloromethane	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Dibromomethane	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Dichlorodifluoromethane	< 2.1	c 1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Ethylbenzene	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Hexachlorobutadiene	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Isopropylbenzene	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
m,p-Xylene	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Methyl tert-butyl ether	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Methylene chloride	< 10	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Naphthalene	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
n-Butylbenzene	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
n-Propylbenzene	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
o-Xylene	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
sec-Butylbenzene	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Styrene	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
tert-Butylbenzene	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03
Tetrachloroethene	< 2.1	1		μg/Kg-dry	07/18/2016 6:59 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported :



Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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Page 3 of 27





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#### LABORATORY RESULTS

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Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Lab No. : 1607D46-001

Type: Soil

**Sample Information:** 

Attn To: Nicholas Nicholas

Collected :7/15/2016 8:00:00 AM Client Sample ID: T-11

Origin:

AT17549/AT17553 Received :7/16/2016 9:45:00 AM

Collected By CLIENT

Analytical Method: SW8260C :		Prep Method: 5035A-L					
Parameter(s)	Results Qu	alifier D.F.	<u>Units</u>			Analyzed:	Container:
Toluene	< 2.1	1	μg/Kg-dry			07/18/2016 6:59 PM	Container-01 of 03
trans-1,2-Dichloroethene	< 2.1	1	μg/Kg-dry			07/18/2016 6:59 PM	Container-01 of 03
trans-1,3-Dichloropropene	< 2.1	1	μg/Kg-dry			07/18/2016 6:59 PM	Container-01 of 03
Trichloroethene	< 2.1	1	μg/Kg-dry			07/18/2016 6:59 PM	Container-01 of 03
Trichlorofluoromethane	< 2.1	1	μg/Kg-dry			07/18/2016 6:59 PM	Container-01 of 03
Vinyl acetate	< 2.1	1	μg/Kg-dry			07/18/2016 6:59 PM	Container-01 of 03
Vinyl chloride	< 2.1	1	μg/Kg-dry			07/18/2016 6:59 PM	Container-01 of 03
Xylene (total)	< 2.1	1	μg/Kg-dry			07/18/2016 6:59 PM	Container-01 of 03
Surr: 1,2-Dichloroethane-d4	92.7	1	%Rec	Limit	33-145	07/18/2016 6:59 PM	Container-01 of 03
Surr: 4-Bromofluorobenzene	86.8	1	%Rec	Limit	60-148	07/18/2016 6:59 PM	Container-01 of 03
Surr: Toluene-d8	91.8	1	%Rec	Limit	60-132	07/18/2016 6:59 PM	Container-01 of 03

#### NOTES:

Results may be biased low due to sample not being collected according to 5035A low level specifications.

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported:

Cathlin Panzarella

Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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Page 4 of 27



LABORATORY RESULTS

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Pace Analytical Services Inc.

NYSDOH ID#10478

2190 Technology Drive Schenectady, NY 12308

Lab No. : 1607D46-001

Client Sample ID: T-11

**Sample Information:** 

Type: Soil

Origin:

Attn To: Nicholas Nicholas
Collected: :7/15/2016 8:00:00 AM

Received : 7/16/2016 9:45:00 AM

AT17549/AT17553

www.pacelabs.com

Collected By CLIENT

Parameter(s)         Results         Qualifier         D.F.         Units         Analyzed:         Container.           2.4.5-Trichlorophenol         < 350         1         μg/Kg-dry         07/19/2016 1:23 PM         Container-01 of 01           2.4.Dichlorophenol         < 350         1         μg/Kg-dry         07/19/2016 1:23 PM         Container-01 of 01           2.4-Dinitrophenol         < 350         1         μg/Kg-dry         07/19/2016 1:23 PM         Container-01 of 01           2.4-Dinitrophenol         < 350         1         μg/Kg-dry         07/19/2016 1:23 PM         Container-01 of 01           2.4-Dinitrophenol         < 350         1         μg/Kg-dry         07/19/2016 1:23 PM         Container-01 of 01           2.6-Dinitrotoluene         < 350         1         μg/Kg-dry         07/19/2016 1:23 PM         Container-01 of 01           2-Chlorophenol         < 350         1         μg/Kg-dry         07/19/2016 1:23 PM         Container-01 of 01           2-Methylipaphthalene         < 170         1         μg/Kg-dry         07/19/2016 1:23 PM         Container-01 of 01           2-Mitrophenol         < 340         1         μg/Kg-dry         07/19/2016 1:23 PM         Container-01 of 01           2-Nitrophenol         < 350         1	Analytical Method: SW8270D:	Prep	Method: SW3	545A	Prep Date: 7/18/2016 2:59:31 PM	Analyst: EAG
2,4,6-Trichlorophenol         < 350	Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
2,4-Dichlorophenol         < 350	2,4,5-Trichlorophenol	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
2,4-Dimethylphenol         < 350	2,4,6-Trichlorophenol	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
2.4-Dinitrophenol	2,4-Dichlorophenol	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
2.4-Dinitrotoluene         < 350	2,4-Dimethylphenol	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
2.6-Dinitrotoluene         < 350         1         μg/Kg-dry         07/19/2016 1:23 PM         Container-O1 of 01           2-Chloronaphthalene         < 170	2,4-Dinitrophenol	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
2-Chloronaphthalene         < 170         1         μg/Kg-dry         07/19/2016 1:23 PM         Container-01 of 01           2-Chlorophenol         < 350	2,4-Dinitrotoluene	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
2-Chlorophenol	2,6-Dinitrotoluene	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
2-Methylnaphthalene	2-Chloronaphthalene	< 170	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
2-Methylphenol	2-Chlorophenol	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
2-Nitroaniline	2-Methylnaphthalene	< 170	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
2-Nitrophenol < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 3,3 '-Dichlorobenzidine < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 3,3 '-Dichlorobenzidine < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4,6-Dinitro-2-methylphenol < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Bromophenyl-phenylether < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chloro-3-methylphenol < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chloro-3-methylphenol < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chlorophenyl-phenylether < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chlorophenyl-phenylether < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenyl-phenylether < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Acenaphthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Acenaphthylene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Pg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Pg/	2-Methylphenol	< 340	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
3,3'-Dichlorobenzidine	2-Nitroaniline	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
3-Nitroaniline < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4,6-Dinitro-2-methylphenol < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Bromophenyl-phenylether < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chloro-3-methylphenol < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chloro-3-methylphenol < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chlorophenyl-phenylether < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chlorophenyl-phenylether < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Acenaphthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitracene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(a)anthracene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(a)pyrene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(g,h,i)perylene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01	2-Nitrophenol	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
4,6-Dinitro-2-methylphenol < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Bromophenyl-phenylether < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chloro-3-methylphenol < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chloroaniline < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chlorophenyl-phenylether < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chlorophenyl-phenylether < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Acenaphthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Acenaphthylene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Anthracene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(a)anthracene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(a)pyrene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01	3,3'-Dichlorobenzidine	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
4-Bromophenyl-phenylether < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chloro-3-methylphenol < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chloroaniline < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chlorophenyl-phenylether < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitroaniline < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitroaniline < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Acenaphthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Acenaphthylene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Anthracene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(a)anthracene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(a)pyrene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01	3-Nitroaniline	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
4-Chloro-3-methylphenol < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chlorophenyl-phenylether < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chlorophenyl-phenylether < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chlorophenyl-phenylether < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Cenaphthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chlorophenyl-phenylether < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01	4,6-Dinitro-2-methylphenol	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
4-Chloroaniline < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Chlorophenyl-phenylether < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitroaniline < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Acenaphthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Acenaphthylene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Anthracene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(a)anthracene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(a)pyrene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(g,h,i)perylene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Container-01	4-Bromophenyl-phenylether	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
4-Chlorophenyl-phenylether < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Acenaphthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Acenaphthylene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Anthracene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(a)anthracene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(a)pyrene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(g,h,i)perylene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01	4-Chloro-3-methylphenol	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
4-Nitroaniline < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 4-Nitrophenol < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Acenaphthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Acenaphthylene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Anthracene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(a)anthracene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(a)pyrene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(g,h,i)perylene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01	4-Chloroaniline	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
4-Nitrophenol < 350 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Acenaphthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Acenaphthylene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Anthracene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(a)anthracene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(a)pyrene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(b)fluoranthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01 Benzo(g,h,i)perylene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01	4-Chlorophenyl-phenylether	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
Acenaphthene       < 170       1       μg/Kg-dry       07/19/2016 1:23 PM       Container-01 of 01         Acenaphthylene       < 170	4-Nitroaniline	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
Acenaphthylene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01  Anthracene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01  Benzo(a)anthracene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01  Benzo(a)pyrene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01  Benzo(b)fluoranthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01  Benzo(g,h,i)perylene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01	4-Nitrophenol	< 350	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
Anthracene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01  Benzo(a)anthracene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01  Benzo(a)pyrene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01  Benzo(b)fluoranthene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01  Benzo(g,h,i)perylene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01	Acenaphthene	< 170	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
Benzo(a)anthracene       < 170       1       μg/Kg-dry       07/19/2016 1:23 PM       Container-01 of 01         Benzo(a)pyrene       < 170	Acenaphthylene	< 170	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
Benzo(a)pyrene       < 170	Anthracene	< 170	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
Benzo(b)fluoranthene       < 170	Benzo(a)anthracene	< 170	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
Benzo(g,h,i)perylene < 170 1 µg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01	Benzo(a)pyrene	< 170	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
Benzo(g,h,i)perylene < 170 1 $\mu$ g/Kg-dry 07/19/2016 1:23 PM Container-01 of 01	Benzo(b)fluoranthene	< 170	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01
Benzo(k)fluoranthene < 170 1 μg/Kg-dry 07/19/2016 1:23 PM Container-01 of 01	Benzo(g,h,i)perylene	< 170	1		07/19/2016 1:23 PM	Container-01 of 01
	Benzo(k)fluoranthene	< 170	1	μg/Kg-dry	07/19/2016 1:23 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported :



Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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Nicholas Nicholas

:7/15/2016 8:00:00 AM

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308 LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:** 

Type: Soil

Origin:

Lab No. : 1607D46-001

Client Sample ID: T-11

:7/16/2016 9:45:00 AM Collected By CLIENT

Attn To:

Collected

Received

AT17549/AT17553

Analytical Method: SW8270D :		Prep N	Method: SW3	3545A		Prep Date: 7	/18/2016 2:59:31 PM	Analyst: EAG
Parameter(s)	Results C	Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Bis(2-chloroethoxy)methane	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Bis(2-chloroethyl)ether	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Bis(2-ethylhexyl)phthalate	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Butyl benzyl phthalate	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Carbazole	< 170		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Chrysene	< 170		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Dibenzo(a,h)anthracene	< 170		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Dibenzofuran	< 170		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Diethylphthalate	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Dimethylphthalate	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Di-n-butyl phthalate	87	J	1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Di-n-octyl phthalate	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Fluoranthene	< 170		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Fluorene	< 170		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Hexachlorobenzene	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Hexachlorobutadiene	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Hexachlorocyclopentadiene	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Hexachloroethane	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Indeno(1,2,3-cd)pyrene	< 170		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Isophorone	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Naphthalene	< 170		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Nitrobenzene	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
N-Nitroso-di-n-propylamine	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
N-Nitrosodiphenylamine	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Pentachlorophenol	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Phenanthrene	< 170		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Phenol	< 350		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Pyrene	< 170		1	μg/Kg-dry			07/19/2016 1:23 PM	Container-01 of 01
Surr: 1,2-Dichlorobenzene-d4	77.4		1	%Rec	Limit	20-130	07/19/2016 1:23 PM	Container-01 of 01
Surr: 2,4,6-Tribromophenol	88.6		1	%Rec	Limit	19-122	07/19/2016 1:23 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported:

Cathlin Panzarella

Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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Page 6 of 27





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LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Pace Analytical Services Inc.

NYSDOH ID#10478

2190 Technology Drive Schenectady, NY 12308

Lab No. : 1607D46-001

Client Sample ID: T-11

Type: Soil

**Sample Information:** 

Origin:

Attn To: Nicholas Nicholas

Collected :7/15/2016 8:00:00 AM Received :7/16/2016 9:45:00 AM

AT17549/AT17553

Collected By CLIENT

Analytical Method: SW8270D :	Prep	Method: SW	3545A	•	Prep Date	e: 7/18/2016 2:59:31 PM	Analyst: EAG
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Surr: 2-Chlorophenol-d4	85.4	1	%Rec	Limit	20-130	07/19/2016 1:23 PM	Container-01 of 01
Surr: 2-Fluorobiphenyl	78.5	1	%Rec	Limit	30-115	07/19/2016 1:23 PM	Container-01 of 01
Surr: 2-Fluorophenol	75.1	1	%Rec	Limit	25-121	07/19/2016 1:23 PM	Container-01 of 01
Surr: 4-Terphenyl-d14	81.3	1	%Rec	Limit	18-137	07/19/2016 1:23 PM	Container-01 of 01
Surr: Nitrobenzene-d5	80.9	1	%Rec	Limit	23-120	07/19/2016 1:23 PM	Container-01 of 01
Surr: Phenol-d5	82.0	1	%Rec	Limit	24-113	07/19/2016 1:23 PM	Container-01 of 01
Analytical Method: D2216 :							Analyst: RL
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Percent Moisture	3.8	1	wt%			07/19/2016 3:41 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

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H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported:

Cathlin Panzarella

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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AT17550

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Nicholas Nicholas

:7/15/2016 8:05:00 AM Received : 7/16/2016 9:45:00 AM

Collected By CLIENT

Attn To:

Collected

#### LABORATORY RESULTS

Lab No. : 1607D46-002

Client Sample ID: T-12

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT					
Analytical Method: SW8260C:		Prep Method: 503	B5A-L		Analyst: KG
Parameter(s)	Results Qua	alifier D.F.	<u>Units</u>	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,1,1-Trichloroethane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,1,2,2-Tetrachloroethane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,1,2-Trichloroethane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,1-Dichloroethane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,1-Dichloroethene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,1-Dichloropropene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,2,3-Trichlorobenzene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,2,3-Trichloropropane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,2,4-Trichlorobenzene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,2,4-Trimethylbenzene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,2-Dibromo-3-chloropropane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,2-Dibromoethane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,2-Dichlorobenzene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,2-Dichloroethane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,2-Dichloropropane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,3,5-Trimethylbenzene/P- ethyltoluene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,3-Dichlorobenzene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,3-Dichloropropane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
1,4-Dichlorobenzene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
2,2-Dichloropropane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
2-Butanone	< 2.1	c 1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
2-Chloroethylvinyl ether	< 2.1	c 1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
2-Chlorotoluene/4-Chlorotoluene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
2-Hexanone	< 2.1	c 1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
4-Isopropyltoluene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
4-Methyl-2-pentanone	< 2.1	c 1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Acetone	< 10	c 1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Benzene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

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S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported:



Project Manager: Caitlin Panzarella

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Page 8 of 27



575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

AT17550

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Nicholas Nicholas

Collected :7/15/2016 8:05:00 AM Received :7/16/2016 9:45:00 AM

Collected By CLIENT

Attn To:

#### **LABORATORY RESULTS**

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Lab No. : 1607D46-002 Sample Information:

Type : Soil

Origin:

Analytical Method: SW8260C:	<u>Pre</u> r	Method: 503	5A-L		Analyst: KG
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Bromobenzene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Bromochloromethane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Bromodichloromethane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Bromoform	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Bromomethane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Carbon disulfide	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Carbon tetrachloride	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Chlorobenzene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Chloroethane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Chloroform	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Chloromethane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
cis-1,2-Dichloroethene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
cis-1,3-Dichloropropene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Dibromochloromethane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Dibromomethane	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Dichlorodifluoromethane	< 2.1 c	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Ethylbenzene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Hexachlorobutadiene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Isopropylbenzene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
m,p-Xylene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Methyl tert-butyl ether	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Methylene chloride	< 10	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Naphthalene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
n-Butylbenzene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
n-Propylbenzene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
o-Xylene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
sec-Butylbenzene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Styrene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
tert-Butylbenzene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01
Tetrachloroethene	< 2.1	1	μg/Kg-dry	07/18/2016 7:20 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

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M-, M+ = Matrix Spike recovery below / above control limit

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P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported :



Project Manager: Caitlin Panzarella

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AT17550

LABORATORY RESULTS Results are only for the samples and analytes requested.

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Pace Analytical Services Inc.

NYSDOH ID#10478

2190 Technology Drive Schenectady, NY 12308

Lab No. : 1607D46-002

Type: Soil

**Sample Information:** 

Client Sample ID: T-12

Origin:

Attn To: Nicholas Nicholas

Collected :7/15/2016 8:05:00 AM Received :7/16/2016 9:45:00 AM

Collected By CLIENT

Analytical Method: SW8260C:	•	Prep N	<u>1ethod:</u> 503	5A-L			_	Analyst: KG
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Toluene	< 2.1		1	μg/Kg-dry			07/18/2016 7:20 PM	Container-01 of 01
trans-1,2-Dichloroethene	< 2.1		1	μg/Kg-dry			07/18/2016 7:20 PM	Container-01 of 01
trans-1,3-Dichloropropene	< 2.1		1	μg/Kg-dry			07/18/2016 7:20 PM	Container-01 of 01
Trichloroethene	< 2.1		1	μg/Kg-dry			07/18/2016 7:20 PM	Container-01 of 01
Trichlorofluoromethane	< 2.1		1	μg/Kg-dry			07/18/2016 7:20 PM	Container-01 of 01
Vinyl acetate	< 2.1		1	μg/Kg-dry			07/18/2016 7:20 PM	Container-01 of 01
Vinyl chloride	< 2.1		1	μg/Kg-dry			07/18/2016 7:20 PM	Container-01 of 01
Xylene (total)	< 2.1		1	μg/Kg-dry			07/18/2016 7:20 PM	Container-01 of 01
Surr: 1,2-Dichloroethane-d4	92.7		1	%Rec	Limit	33-145	07/18/2016 7:20 PM	Container-01 of 01
Surr: 4-Bromofluorobenzene	85.8		1	%Rec	Limit	60-148	07/18/2016 7:20 PM	Container-01 of 01
Surr: Toluene-d8	92.0		1	%Rec	Limit	60-132	07/18/2016 7:20 PM	Container-01 of 01

#### NOTES:

Results may be biased low due to sample not being collected according to 5035A low level specifications.

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported:

Cathlin Panzarella

Project Manager: Caitlin Panzarella

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Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To:

Nicholas Nicholas

Collected :7/15/2016 8:05:00 AM Received : 7/16/2016 9:45:00 AM

AT17550

#### LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Lab No. : 1607D46-002

Client Sample ID: T-12

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT					
Analytical Method: SW8270D :		Prep Method: SW3	545A	Prep Date: 7/18/2016 2:59:31 PM	Analyst: EAG
Parameter(s)	Results Qual	ifier <u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
2,4,5-Trichlorophenol	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
2,4,6-Trichlorophenol	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
2,4-Dichlorophenol	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
2,4-Dimethylphenol	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
2,4-Dinitrophenol	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
2,4-Dinitrotoluene	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
2,6-Dinitrotoluene	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
2-Chloronaphthalene	< 170	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
2-Chlorophenol	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
2-Methylnaphthalene	< 170	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
2-Methylphenol	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
2-Nitroaniline	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
2-Nitrophenol	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
3,3'-Dichlorobenzidine	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
3-Nitroaniline	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
4,6-Dinitro-2-methylphenol	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
4-Bromophenyl-phenylether	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
4-Chloro-3-methylphenol	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
4-Chloroaniline	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
4-Chlorophenyl-phenylether	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
4-Nitroaniline	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
4-Nitrophenol	< 340	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
Acenaphthene	160 J	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
Acenaphthylene	< 170	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
Anthracene	420 S	3 1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
Benzo(a)anthracene	940	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
Benzo(a)pyrene	810 S	3 1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
Benzo(b)fluoranthene	1,100	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
Benzo(g,h,i)perylene	520 S	3 1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01
Benzo(k)fluoranthene	400	1	μg/Kg-dry	07/19/2016 2:46 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

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M-, M+ = Matrix Spike recovery below / above control limit

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S = Recovery outside of control limits for this analyte

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Cathlin Panzarella

Project Manager: Caitlin Panzarella

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Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: Nicholas Nicholas

Collected :7/15/2016 8:05:00 AM Received : 7/16/2016 9:45:00 AM

#### LABORATORY RESULTS

Results are only for the samples and analytes requested.

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**Sample Information:** Lab No. : 1607D46-002

Type: Soil

Origin:

Analytical Method: SW8270D:		Dron !	Mothod: SM/	25454	Prop Data:	7/19/2016 2:50:31 PM	Analyst: EAC
<del></del>	<b>5</b> "	· · · · · · · · · · · · · · · · · · ·	Method: SW3		Prep Date:	7/18/2016 2:59:31 PM	Analyst: EAG
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>		Analyzed:	Container:
Bis(2-chloroethoxy)methane	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Bis(2-chloroethyl)ether	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Bis(2-ethylhexyl)phthalate	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Butyl benzyl phthalate	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Carbazole	160	J	1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Chrysene	950	S	1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Dibenzo(a,h)anthracene	150	Jc	1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Dibenzofuran	100	J	1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Diethylphthalate	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Dimethylphthalate	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Di-n-butyl phthalate	84	J	1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Di-n-octyl phthalate	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Fluoranthene	2,300		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Fluorene	160	J	1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Hexachlorobenzene	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Hexachlorobutadiene	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Hexachlorocyclopentadiene	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Hexachloroethane	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Indeno(1,2,3-cd)pyrene	490	S	1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Isophorone	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Naphthalene	97	J	1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Nitrobenzene	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
N-Nitroso-di-n-propylamine	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
N-Nitrosodiphenylamine	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Pentachlorophenol	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Phenanthrene	1,900		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Phenol	< 340		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Pyrene	1,800		1	μg/Kg-dry		07/19/2016 2:46 PM	Container-01 of 01
Surr: 1,2-Dichlorobenzene-d4	72.0		1		nit 20-130	07/19/2016 2:46 PM	Container-01 of 01
Surr: 2,4,6-Tribromophenol	81.7		1		mit 19-122	07/19/2016 2:46 PM	Container-01 of 01

Client Sample ID: T-12

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

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Cathlin Panzarella

Project Manager: Caitlin Panzarella

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Page 12 of 27





AT17550

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Nicholas Nicholas

:7/15/2016 8:05:00 AM :7/16/2016 9:45:00 AM Received

Collected By CLIENT

Attn To:

Collected

#### LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT							
Analytical Method: SW8270D :	<u>Prep</u>	Prep Method: SW3545A				<u>2:</u> 7/18/2016 2:59:31 PM	Analyst: EAG
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Surr: 2-Chlorophenol-d4	79.4	1	%Rec	Limit	20-130	07/19/2016 2:46 PM	Container-01 of 01
Surr: 2-Fluorobiphenyl	76.2	1	%Rec	Limit	30-115	07/19/2016 2:46 PM	Container-01 of 01
Surr: 2-Fluorophenol	70.7	1	%Rec	Limit	25-121	07/19/2016 2:46 PM	Container-01 of 01
Surr: 4-Terphenyl-d14	78.8	1	%Rec	Limit	18-137	07/19/2016 2:46 PM	Container-01 of 01
Surr: Nitrobenzene-d5	76.0	1	%Rec	Limit	23-120	07/19/2016 2:46 PM	Container-01 of 01
Surr: Phenol-d5	77.3	1	%Rec	Limit	24-113	07/19/2016 2:46 PM	Container-01 of 01

Lab No. : 1607D46-002

Client Sample ID: T-12

	77.0	•	701100	 017 10720 10 21 10 1 111	00111011101 01 01 01
Analytical Method: D221	6:				Analyst: RL
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Percent Moisture	3.4	1	wt%	 07/19/2016 3:46 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported:

Cathlin Panzarella

Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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Page 13 of 27





575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

AT17551

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: Nicholas Nicholas

Collected :7/15/2016 8:10:00 AM Received :7/16/2016 9:45:00 AM

Collected By CLIENT

#### LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Sample Information:

**Lab No.** : **1607D46-003** Type : Soil

Origin:

Analytical Method: SW8260C:		Prep N	Method: 503	5A-L		Analyst: KG
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,1,1-Trichloroethane	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,1,2,2-Tetrachloroethane	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,1,2-Trichloroethane	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,1-Dichloroethane	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,1-Dichloroethene	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,1-Dichloropropene	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,2,3-Trichlorobenzene	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,2,3-Trichloropropane	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,2,4-Trichlorobenzene	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,2,4-Trimethylbenzene	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,2-Dibromo-3-chloropropane	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,2-Dibromoethane	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,2-Dichlorobenzene	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,2-Dichloroethane	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,2-Dichloropropane	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,3,5-Trimethylbenzene/P- ethyltoluene	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,3-Dichlorobenzene	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,3-Dichloropropane	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
1,4-Dichlorobenzene	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
2,2-Dichloropropane	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
2-Butanone	< 2.0	С	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
2-Chloroethylvinyl ether	< 2.0	С	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
2-Chlorotoluene/4-Chlorotoluene	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
2-Hexanone	< 2.0	С	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
4-Isopropyltoluene	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
4-Methyl-2-pentanone	< 2.0	С	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Acetone	< 10	С	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Benzene	< 2.0		1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01

Client Sample ID: T-13

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported :

Cathlin Panzarella

Project Manager: Caitlin Panzarella

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Page 14 of 27



AT17551

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Nicholas Nicholas

:7/15/2016 8:10:00 AM Received :7/16/2016 9:45:00 AM

Collected By CLIENT

Attn To:

Collected

#### LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:** 

Lab No. : 1607D46-003 Type: Soil

Origin:

Collected By CLIENT					
Analytical Method: SW8260C:	Prep !	Method: 5035	A-L		Analyst: KG
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Bromobenzene	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Bromochloromethane	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Bromodichloromethane	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Bromoform	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Bromomethane	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Carbon disulfide	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Carbon tetrachloride	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Chlorobenzene	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Chloroethane	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Chloroform	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Chloromethane	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
cis-1,2-Dichloroethene	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
cis-1,3-Dichloropropene	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Dibromochloromethane	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Dibromomethane	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Dichlorodifluoromethane	< 2.0 c	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Ethylbenzene	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Hexachlorobutadiene	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Isopropylbenzene	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
m,p-Xylene	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Methyl tert-butyl ether	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Methylene chloride	< 10	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Naphthalene	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
n-Butylbenzene	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
n-Propylbenzene	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
o-Xylene	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
sec-Butylbenzene	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Styrene	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
tert-Butylbenzene	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01
Tetrachloroethene	< 2.0	1	μg/Kg-dry	07/18/2016 7:41 PM	Container-01 of 01

Client Sample ID: T-13

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

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Project Manager: Caitlin Panzarella

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Page 15 of 27





575 Broad Hollow Road , Melville, NY 11747

TEL: (631) 694-3040 FAX: (631) 420-8436

NYSDOH ID#10478 www.pacelabs.com

AT17551

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Nicholas Nicholas :7/15/2016 8:10:00 AM

Received : 7/16/2016 9:45:00 AM

Collected By CLIENT

Attn To:

Collected

#### LABORATORY RESULTS

Results are only for the samples and analytes requested.

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Sample Information:

Type : Soil

Origin:

Concoted by CEIEITI								
Analytical Method: SW8260C :		Prep Method: 5035A-L						Analyst: KG
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Toluene	< 2.0		1	μg/Kg-dry			07/18/2016 7:41 PM	Container-01 of 01
trans-1,2-Dichloroethene	< 2.0		1	μg/Kg-dry			07/18/2016 7:41 PM	Container-01 of 01
trans-1,3-Dichloropropene	< 2.0		1	μg/Kg-dry			07/18/2016 7:41 PM	Container-01 of 01
Trichloroethene	< 2.0		1	μg/Kg-dry			07/18/2016 7:41 PM	Container-01 of 01
Trichlorofluoromethane	< 2.0		1	μg/Kg-dry			07/18/2016 7:41 PM	Container-01 of 01
Vinyl acetate	< 2.0		1	μg/Kg-dry			07/18/2016 7:41 PM	Container-01 of 01
Vinyl chloride	< 2.0		1	μg/Kg-dry			07/18/2016 7:41 PM	Container-01 of 01
Xylene (total)	< 2.0		1	μg/Kg-dry			07/18/2016 7:41 PM	Container-01 of 01
Surr: 1,2-Dichloroethane-d4	97.8		1	%Rec	Limit	33-145	07/18/2016 7:41 PM	Container-01 of 01
Surr: 4-Bromofluorobenzene	87.0		1	%Rec	Limit	60-148	07/18/2016 7:41 PM	Container-01 of 01
Surr: Toluene-d8	90.7		1	%Rec	Limit	60-132	07/18/2016 7:41 PM	Container-01 of 01

Lab No.: 1607D46-003

Client Sample ID: T-13

#### NOTES:

Results may be biased low due to sample not being collected according to 5035A low level specifications.

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

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Project Manager: Caitlin Panzarella

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Page 16 of 27



AT17551

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: Nicholas Nicholas :7/15/2016 8:10:00 AM

Received : 7/16/2016 9:45:00 AM

Collected By CLIENT

Collected

#### LABORATORY RESULTS

Lab No. : 1607D46-003

Client Sample ID: T-13

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:** 

Type: Soil

Origin:

2,4,5-Trichlorophenol       < 340	Analyzed: Contain 0/2016 3:14 PM Contain 0/2016 3:14 PM Contain 0/2016 3:14 PM Contain 0/2016 3:14 PM Contain	=
2,4,5-Trichlorophenol       < 340       1       μg/Kg-dry       07/19//         2,4,6-Trichlorophenol       < 340       1       μg/Kg-dry       07/19//         2,4-Dichlorophenol       < 340       1       μg/Kg-dry       07/19//         2,4-Dimethylphenol       < 340       1       μg/Kg-dry       07/19//         2,4-Dinitrophenol       < 340       1       μg/Kg-dry       07/19//         2,4-Dinitrotoluene       < 340       1       μg/Kg-dry       07/19//         2,6-Dinitrotoluene       < 340       1       μg/Kg-dry       07/19//         2-Chloronaphthalene       < 170       1       μg/Kg-dry       07/19//         2-Chlorophenol       < 340       1       μg/Kg-dry       07/19//         2-Methylphenol       < 330       1       μg/Kg-dry       07/19//         2-Nitrophenol       < 340       1       μg/Kg-dry       07/19//         3,3'-Dichlorobenzidine       < 340       1       μg/Kg-dry       07/19//         3-Nitroaniline       < 340       1       μg/Kg-dry       07/19//         4,6-Dinitro-2-methylphenol       < 340       1       μg/Kg-dry       07/19//	0/2016 3:14 PM Contain 0/2016 3:14 PM Contain 0/2016 3:14 PM Contain 0/2016 3:14 PM Contain	er-01 of 01 er-01 of 01 er-01 of 01
2,4,6-Trichlorophenol       < 340	9/2016 3:14 PM Contain 9/2016 3:14 PM Contain 9/2016 3:14 PM Contain	er-01 of 01 er-01 of 01
2,4-Dichlorophenol	9/2016 3:14 PM Contain 9/2016 3:14 PM Contain	er-01 of 01
2,4-Dimethylphenol	9/2016 3:14 PM Contain	
2,4-Dinitrophenol		er-01 of 01
2,4-Dinitrotoluene       < 340	/2016 3:14 PM Contain	
2,6-Dinitrotoluene       < 340		er-01 of 01
2-Chloronaphthalene < 170 1 µg/Kg-dry 07/19/. 2-Chlorophenol < 340 1 µg/Kg-dry 07/19/. 2-Methylnaphthalene < 170 1 µg/Kg-dry 07/19/. 2-Methylphenol < 330 1 µg/Kg-dry 07/19/. 2-Nitroaniline < 340 1 µg/Kg-dry 07/19/. 2-Nitrophenol < 340 1 µg/Kg-dry 07/19/. 3,3´-Dichlorobenzidine < 340 1 µg/Kg-dry 07/19/. 3-Nitroaniline < 340 1 µg/Kg-dry 07/19/. 3-Nitroaniline < 340 1 µg/Kg-dry 07/19/. 4,6-Dinitro-2-methylphenol < 340 1 µg/Kg-dry 07/19/.	9/2016 3:14 PM Contain	er-01 of 01
2-Chlorophenol < 340 1 μg/Kg-dry 07/19/2 2-Methylnaphthalene < 170 1 μg/Kg-dry 07/19/2 2-Methylphenol < 330 1 μg/Kg-dry 07/19/2 2-Nitroaniline < 340 1 μg/Kg-dry 07/19/2 2-Nitrophenol < 340 1 μg/Kg-dry 07/19/2 3,3´-Dichlorobenzidine < 340 1 μg/Kg-dry 07/19/2 3-Nitroaniline < 340 1 μg/Kg-dry 07/19/2 3-Nitroaniline < 340 1 μg/Kg-dry 07/19/2 4,6-Dinitro-2-methylphenol < 340 1 μg/Kg-dry 07/19/2	9/2016 3:14 PM Contain	er-01 of 01
2-Methylnaphthalene       < 170	9/2016 3:14 PM Contain	er-01 of 01
2-Methylphenol < 330 1 μg/Kg-dry 07/19/2 2-Nitroaniline < 340 1 μg/Kg-dry 07/19/2 2-Nitrophenol < 340 1 μg/Kg-dry 07/19/2 3,3΄-Dichlorobenzidine < 340 1 μg/Kg-dry 07/19/2 3-Nitroaniline < 340 1 μg/Kg-dry 07/19/2 4,6-Dinitro-2-methylphenol < 340 1 μg/Kg-dry 07/19/2	9/2016 3:14 PM Contain	er-01 of 01
2-Nitroaniline       < 340	9/2016 3:14 PM Contain	er-01 of 01
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9/2016 3:14 PM Contain	er-01 of 01
3,3´-Dichlorobenzidine < 340 1 $\mu$ g/Kg-dry 07/19/. 3-Nitroaniline < 340 1 $\mu$ g/Kg-dry 07/19/. 4,6-Dinitro-2-methylphenol < 340 1 $\mu$ g/Kg-dry 07/19/.	9/2016 3:14 PM Contain	er-01 of 01
3-Nitroaniline < 340 1 $\mu$ g/Kg-dry 07/19/. 4,6-Dinitro-2-methylphenol < 340 1 $\mu$ g/Kg-dry 07/19/.	9/2016 3:14 PM Contain	er-01 of 01
4,6-Dinitro-2-methylphenol < 340 1 μg/Kg-dry 07/19/	9/2016 3:14 PM Contain	er-01 of 01
10 0 7	9/2016 3:14 PM Contain	er-01 of 01
	9/2016 3:14 PM Contain	er-01 of 01
4-Bromophenyl-phenylether $< 340$ 1 $\mu$ g/Kg-dry 07/19/.	9/2016 3:14 PM Contain	er-01 of 01
4-Chloro-3-methylphenol < 340 1 $\mu$ g/Kg-dry 07/19/	9/2016 3:14 PM Contain	er-01 of 01
4-Chloroaniline $< 340$ 1 $\mu g/Kg$ -dry $07/19/2$	9/2016 3:14 PM Contain	er-01 of 01
4-Chlorophenyl-phenylether $< 340$ 1 $\mu g/Kg$ -dry 07/19/	9/2016 3:14 PM Contain	er-01 of 01
4-Nitroaniline $< 340$ 1 µg/Kg-dry $07/19/2$	9/2016 3:14 PM Contain	er-01 of 01
4-Nitrophenol $< 340$ 1 $\mu$ g/Kg-dry 07/19/	9/2016 3:14 PM Contain	er-01 of 01
Acenaphthene $< 170$ 1 $\mu$ g/Kg-dry $07/19/2$	9/2016 3:14 PM Contain	er-01 of 01
Acenaphthylene $< 170$ 1 µg/Kg-dry $07/19/1$	9/2016 3:14 PM Contain	er-01 of 01
Anthracene $< 170$ 1 $\mu$ g/Kg-dry 07/19/	9/2016 3:14 PM Contain	er-01 of 01
Benzo(a)anthracene < 170 1 $\mu$ g/Kg-dry 07/19/	9/2016 3:14 PM Contain	er-01 of 01
Benzo(a)pyrene $< 170$ 1 µg/Kg-dry 07/19/	9/2016 3:14 PM Contain	er-01 of 01
	9/2016 3:14 PM Contain	er-01 of 01
Benzo(g,h,i)perylene < 170 1 $\mu$ g/Kg-dry 07/19/2	9/2016 3:14 PM Contain	er-01 of 01
	9/2016 3:14 PM Contain	er-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported:

Cathlin Panzarella Project Manager: Caitlin Panzarella

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Page 17 of 27



AT17551

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Nicholas Nicholas

Collected :7/15/2016 8:10:00 AM Received : 7/16/2016 9:45:00 AM

Attn To:

#### LABORATORY RESULTS

Lab No. : 1607D46-003

Client Sample ID: T-13

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT						
Analytical Method: SW8270D:	<u>Pre</u>	ep Method: SW3	545A	Prep Date: 7/	18/2016 2:59:31 PM	Analyst: EAG
Parameter(s)	Results Qualifie	<u>r D.F.</u>	<u>Units</u>		Analyzed:	Container:
Bis(2-chloroethoxy)methane	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Bis(2-chloroethyl)ether	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Bis(2-ethylhexyl)phthalate	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Butyl benzyl phthalate	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Carbazole	< 170	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Chrysene	< 170	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Dibenzo(a,h)anthracene	< 170	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Dibenzofuran	< 170	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Diethylphthalate	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Dimethylphthalate	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Di-n-butyl phthalate	95 J	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Di-n-octyl phthalate	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Fluoranthene	< 170	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Fluorene	< 170	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Hexachlorobenzene	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Hexachlorobutadiene	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Hexachlorocyclopentadiene	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Hexachloroethane	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Indeno(1,2,3-cd)pyrene	< 170	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Isophorone	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Naphthalene	< 170	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Nitrobenzene	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
N-Nitroso-di-n-propylamine	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
N-Nitrosodiphenylamine	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Pentachlorophenol	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Phenanthrene	< 170	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Phenol	< 340	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Pyrene	< 170	1	μg/Kg-dry		07/19/2016 3:14 PM	Container-01 of 01
Surr: 1,2-Dichlorobenzene-d4	72.9	1	%Rec Lir	mit 20-130	07/19/2016 3:14 PM	Container-01 of 01
Surr: 2,4,6-Tribromophenol	75.3	1	%Rec Lir	mit 19-122	07/19/2016 3:14 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported:

Cathlin Panzarella

Project Manager: Caitlin Panzarella

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TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

AT17551

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Nicholas Nicholas :7/15/2016 8:10:00 AM

Received : 7/16/2016 9:45:00 AM

Collected By CLIENT

Attn To:

Collected

#### **LABORATORY RESULTS**

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Sample Information:

Type: Soil

Origin:

Client Sample ID: T-13

Analytical Method: SW8270D :	Prep Method: SW3545A			Prep Date:	7/18/2016 2:59:31 PM	Analyst: EAG	
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Surr: 2-Chlorophenol-d4	78.5	1	%Rec	Limit	20-130	07/19/2016 3:14 PM	Container-01 of 01
Surr: 2-Fluorobiphenyl	73.5	1	%Rec	Limit	30-115	07/19/2016 3:14 PM	Container-01 of 01
Surr: 2-Fluorophenol	70.6	1	%Rec	Limit	25-121	07/19/2016 3:14 PM	Container-01 of 01
Surr: 4-Terphenyl-d14	76.0	1	%Rec	Limit	18-137	07/19/2016 3:14 PM	Container-01 of 01
Surr: Nitrobenzene-d5	75.7	1	%Rec	Limit	23-120	07/19/2016 3:14 PM	Container-01 of 01
Surr: Phenol-d5	76.1	1	%Rec	Limit	24-113	07/19/2016 3:14 PM	Container-01 of 01
Analytical Method: D2216 :							Analyst: RL
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Percent Moisture	1.3	1	wt%			07/19/2016 3:46 PM	Container-01 of 01

Lab No. : 1607D46-003

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported :

Cathlin Panzarella

Project Manager: Caitlin Panzarella

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Page 19 of 27



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Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To: Nicholas Nicholas

Collected :7/15/2016 8:15:00 AM

Received :7/16/2016 9:45:00 AM

Collected By CLIENT

#### LABORATORY RESULTS

Lab No. : 1607D46-004

Client Sample ID: DUP

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:** 

Type: Soil

Origin:

Collected By CLIENT					
Analytical Method: SW8260C :		Prep Method: 5035	A-L		Analyst: KG
Parameter(s)	Results Qualit	fier D.F.	<u>Units</u>	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,1,1-Trichloroethane	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,1,2,2-Tetrachloroethane	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,1,2-Trichloroethane	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,1-Dichloroethane	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,1-Dichloroethene	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,1-Dichloropropene	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,2,3-Trichlorobenzene	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,2,3-Trichloropropane	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,2,4-Trichlorobenzene	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,2,4-Trimethylbenzene	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,2-Dibromo-3-chloropropane	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,2-Dibromoethane	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,2-Dichlorobenzene	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,2-Dichloroethane	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,2-Dichloropropane	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,3,5-Trimethylbenzene/P- ethyltoluene	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,3-Dichlorobenzene	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,3-Dichloropropane	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
1,4-Dichlorobenzene	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
2,2-Dichloropropane	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
2-Butanone	< 2.0 c	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
2-Chloroethylvinyl ether	< 2.0 c	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
2-Chlorotoluene/4-Chlorotoluene	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
2-Hexanone	< 2.0 c	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
4-Isopropyltoluene	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
4-Methyl-2-pentanone	< 2.0 c	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Acetone	< 10 c	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Benzene	< 2.0	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

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Cathlin Panzarella

Project Manager: Caitlin Panzarella

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AT17552

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

y, NY 12308 Nicholas Nicholas

:7/15/2016 8:15:00 AM

Received :7/16/2016 9:45:00 AM

Collected By CLIENT

Attn To:

Collected

#### LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Sample Information:

**Lab No.** : **1607D46-004** Type : Soil

Origin:

Analytical Method: SW8260C:		Prep N	<u>Method:</u> 5035	5A-L		Analyst: KG
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Bromobenzene	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Bromochloromethane	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Bromodichloromethane	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Bromoform	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Bromomethane	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Carbon disulfide	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Carbon tetrachloride	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Chlorobenzene	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Chloroethane	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Chloroform	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Chloromethane	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
cis-1,2-Dichloroethene	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
cis-1,3-Dichloropropene	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Dibromochloromethane	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Dibromomethane	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Dichlorodifluoromethane	< 2.0	С	1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Ethylbenzene	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Hexachlorobutadiene	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Isopropylbenzene	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
m,p-Xylene	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Methyl tert-butyl ether	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Methylene chloride	< 10		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Naphthalene	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
n-Butylbenzene	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
n-Propylbenzene	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
o-Xylene	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
sec-Butylbenzene	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Styrene	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
tert-Butylbenzene	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01
Tetrachloroethene	< 2.0		1	μg/Kg-dry	07/18/2016 8:02 PM	Container-01 of 01

Client Sample ID: DUP

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

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J = Estimated value - below calibration range

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S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported :



Project Manager: Caitlin Panzarella

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Page 21 of 27





AT17552

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To:

Collected

Received

Nicholas Nicholas

:7/15/2016 8:15:00 AM :7/16/2016 9:45:00 AM

LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested

**Sample Information:** 

Type: Soil

Origin:

Client Sample ID: DUP

Collected By CLIENT Analytical Method: SW8260C: Prep Method: 5035A-L Analyst: KG Parameter(s) Results Qualifier D.F. **Units** Analyzed: Container: 1 07/18/2016 8:02 PM Toluene < 2.0 µg/Kg-dry Container-01 of 01 1 07/18/2016 8:02 PM Container-01 of 01 trans-1,2-Dichloroethene < 2.0 μg/Kg-dry trans-1,3-Dichloropropene < 2.0 1 07/18/2016 8:02 PM Container-01 of 01 µg/Kg-dry 1 07/18/2016 8:02 PM Container-01 of 01 Trichloroethene < 2.0 µg/Kg-dry Trichlorofluoromethane < 2.0 1 μg/Kg-dry 07/18/2016 8:02 PM Container-01 of 01 Vinyl acetate < 2.0 1 µg/Kg-dry 07/18/2016 8:02 PM Container-01 of 01 Vinyl chloride 1 07/18/2016 8:02 PM Container-01 of 01 < 2.0 µg/Kg-dry 1 07/18/2016 8:02 PM Container-01 of 01 Xylene (total) < 2.0 µg/Kg-dry Surr: 1,2-Dichloroethane-d4 95.0 1 %Rec Limit 33-145 07/18/2016 8:02 PM Container-01 of 01 Surr: 4-Bromofluorobenzene 1 %Rec Limit 60-148 07/18/2016 8:02 PM Container-01 of 01 87.1 Surr: Toluene-d8 89.5 1 %Rec Limit 60-132 07/18/2016 8:02 PM Container-01 of 01

Lab No. : 1607D46-004

#### NOTES:

Results may be biased low due to sample not being collected according to 5035A low level specifications.

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

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Project Manager: Caitlin Panzarella

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2190 Technology Drive Schenectady, NY 12308

Nicholas Nicholas :7/15/2016 8:15:00 AM

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#### LABORATORY RESULTS

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**Sample Information:** Lab No. : 1607D46-004

Type: Soil

Origin:

Collected By CLIENT					
Analytical Method: SW8270D:	Prep N	Method: SW3	545A	Prep Date: 7/18/2016 2:59:31 PM	Analyst: EAG
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
2,4,5-Trichlorophenol	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
2,4,6-Trichlorophenol	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
2,4-Dichlorophenol	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
2,4-Dimethylphenol	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
2,4-Dinitrophenol	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
2,4-Dinitrotoluene	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
2,6-Dinitrotoluene	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
2-Chloronaphthalene	< 170	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
2-Chlorophenol	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
2-Methylnaphthalene	< 170	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
2-Methylphenol	< 330	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
2-Nitroaniline	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
2-Nitrophenol	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
3,3'-Dichlorobenzidine	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
3-Nitroaniline	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
4,6-Dinitro-2-methylphenol	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
4-Bromophenyl-phenylether	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
4-Chloro-3-methylphenol	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
4-Chloroaniline	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
4-Chlorophenyl-phenylether	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
4-Nitroaniline	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
4-Nitrophenol	< 340	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Acenaphthene	< 170	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Acenaphthylene	< 170	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Anthracene	< 170	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Benzo(a)anthracene	< 170	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Benzo(a)pyrene	< 170	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Benzo(b)fluoranthene	< 170	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Benzo(g,h,i)perylene	< 170	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Benzo(k)fluoranthene	< 170	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01

Client Sample ID: DUP

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

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Cathlin Panzarella Project Manager: Caitlin Panzarella

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TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

AT17552

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Nicholas Nicholas

:7/15/2016 8:15:00 AM :7/16/2016 9:45:00 AM

Collected By CLIENT

Attn To:

Collected

Received

#### LABORATORY RESULTS

Lab No. : 1607D46-004

Client Sample ID: DUP

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Sample Information:

Type: Soil

Origin:

Analytical Method: SW8270D :	Prep Method: SW3545A		Prep Date: 7/18/2016 2:59:31 PM	Analyst: EAG		
Parameter(s)	Results C	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Bis(2-chloroethoxy)methane	< 340		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Bis(2-chloroethyl)ether	< 340		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Bis(2-ethylhexyl)phthalate	< 340		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Butyl benzyl phthalate	< 340		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Carbazole	< 170		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Chrysene	< 170		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Dibenzo(a,h)anthracene	< 170		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Dibenzofuran	< 170		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Diethylphthalate	< 340		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Dimethylphthalate	< 340		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Di-n-butyl phthalate	76	J	1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Di-n-octyl phthalate	< 340		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Fluoranthene	< 170		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Fluorene	< 170		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Hexachlorobenzene	< 340		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Hexachlorobutadiene	< 340		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Hexachlorocyclopentadiene	< 340		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Hexachloroethane	< 340		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Indeno(1,2,3-cd)pyrene	< 170		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Isophorone	< 340		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Naphthalene	< 170		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
Nitrobenzene	< 340		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
N-Nitroso-di-n-propylamine	< 340		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01
N-Nitrosodiphenylamine	< 340		1	μg/Kg-dry	07/19/2016 3:42 PM	Container-01 of 01

µg/Kg-dry

μg/Kg-dry

µg/Kg-dry

µg/Kg-dry

Limit 20-130

Limit

19-122

%Rec

%Rec

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

Pentachlorophenol

Phenanthrene

Phenol

Pyrene

D.F. = Dilution Factor D = Results for Dilution

Surr: 1,2-Dichlorobenzene-d4

Surr: 2,4,6-Tribromophenol

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

< 340

< 170

< 340

< 170

64.9

65.5

1

1

1

1

1

1

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported :



07/19/2016 3:42 PM

Project Manager: Caitlin Panzarella

07/19/2016 3:42 PM Container-01 of 01

Test results meet the requirements of NELAC unless otherwise noted.

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Page 24 of 27

Container-01 of 01





TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

AT17552

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Lab No. : 1607D46-004

LABORATORY RESULTS Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Client Sample ID: DUP

**Sample Information:** 

Type: Soil

Origin:

Attn To: Nicholas Nicholas

Collected :7/15/2016 8:15:00 AM Received :7/16/2016 9:45:00 AM

Collected By CLIENT

,							
Analytical Method: SW8270D:	Prep	Method: SW	3545A		Prep Date	e: 7/18/2016 2:59:31 PM	Analyst: EAG
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Surr: 2-Chlorophenol-d4	69.0	1	%Rec	Limit	20-130	07/19/2016 3:42 PM	Container-01 of 01
Surr: 2-Fluorobiphenyl	67.8	1	%Rec	Limit	30-115	07/19/2016 3:42 PM	Container-01 of 01
Surr: 2-Fluorophenol	60.7	1	%Rec	Limit	25-121	07/19/2016 3:42 PM	Container-01 of 01
Surr: 4-Terphenyl-d14	69.5	1	%Rec	Limit	18-137	07/19/2016 3:42 PM	Container-01 of 01
Surr: Nitrobenzene-d5	67.1	1	%Rec	Limit	23-120	07/19/2016 3:42 PM	Container-01 of 01
Surr: Phenol-d5	67.3	1	%Rec	Limit	24-113	07/19/2016 3:42 PM	Container-01 of 01
Analytical Method: D2216 :							Analyst: RL
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Percent Moisture	1.2	1	wt%			07/19/2016 3:47 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method Date Reported:

Cathlin Panzarella

Project Manager: Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Page 25 of 27



PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747

**Sample Receipt Checklist** 

TEL: (631) 694-3040 FAX: (631) 420-8436 Website: <u>www.pacelabs.com</u>

Client Name PACE-NY				Date and	Time Received:	7/16/2016 9:45:00 AM
Work Order Number: 1607D46	RcptNo: 1			Received I	by <b>Jaclyn Kuri</b>	
Completed by: Jacush	Kwi		Rev	iewed by: Co	tillin I	Pangarella
Completed Date: <u>7/16/2016</u>	1:40:40 PM		Rev	iewed Date:		11:56:37 AM
Carrier name: FedEx						
Chain of custody present? Chain of custody signed when reling Chain of custody agrees with sample Are matrices correctly identified on 0 Is it clear what analyses were reque Custody seals intact on sample bott	e labels? Chain of custody? sted?	Yes Yes Yes Yes Yes	<b>&gt; &gt; &gt;</b>	No	Not Present	ightharpoons
Samples in proper container/bottle? Were correct preservatives used and Preservative added to bottles:	d noted?	Yes Yes	<b>Y</b>	No 🗌 No 🗆	NA	
Sample Condition? Sufficient sample volume for indicate Were container labels complete (ID, All samples received within holding	Pres, Date)?	Intact Yes Yes Yes	<b>&gt; &gt; &gt; &gt; &gt;</b>	Broken   No   No   No   No	Leaking	
Was an attempt made to cool the sa All samples received at a temp. of > Response when temperature is outs	0° C to 6.0° C?	Yes Yes	<b>Y</b>	No 🗌 No 🗆	NA NA	
Sample Temp. taken and recorded to Water - Were bubbles absent in VO Water - Was there Chlorine Present Water - pH acceptable upon receipt' Are Samples considered acceptable	C vials? ?	Yes Yes Yes Yes Yes		No     No     No     No     No	To 1 No Vials NA No Water	.1 °
Custody Seals present? Airbill or Sticker? Airbill No:		Yes Air Bil 6903 0	<b>✓</b>	No ☐ Sticker ☐ 3335	Not Present	
Case Number:	SDG: PACE-NY479		;	SAS:		
Any No response should be detailed	I in the comments section	n below, if app	licable	e		
Client Contacted? Yes Contact Mode: Phone Client Instructions:	□ No ✓ NA □ Fax:	Person Cont	acted	:		=======
Date Contacted: Regarding: Comments: SAMPLING METHOD 5035A NOT		acted By:				
CorrectiveAction:						



WorkOrder: 1607D46

### Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO 00340
PENNSYLVANIA	68-00350

Page 27 of 27

## DAMER - NY 177

CHAIN OF	CHAIN OF CUSTODY RECORD	RECORD		PAGE 10F 1			DISPOSAL	SAL REQUIF	REMENTS: (To	REQUIREMENTS: (To be filled in by Client)	
Door A poly	tion Com	- 000	2					RETU	RETURN TO CLIENT		
race Alialylical dervices, ilic.	iicai oen	ACES, I	<u>ن</u> ا					● DISPC	DISPOSAL BY RECEIVING LAB	/ING LAB	
2190 Technology Drive, Schenectady, NY 12308	rive, Schenect	ady, NY 1.	2308	LRF# 16070280				ARCH	ARCHIVAL BY RECEIVING LAB	/ING LAB	
l elephone (518) 34 www.pacelabs.com	.6-4592 Fax	(518) 381	-6055	(LAB US	(LAB USE ONLY)		Additional char Call for details.	ıl charges incurred etails.	Additional charges incurred for disposal (if hazardous) or archival. Call for details.	dous) or archival.	
CLIENT (REPORTS TO BE SENT TO):		PROJECT#/PROJECT NAME:	OJECT NAME:			Ш	NTER AN	ALYSIS AND IV	ENTER ANALYSIS AND METHOD NUMBER REQUESTED	R REQUESTED	
PACE		1607028(	16070280		PRESER	PRESERVATIVE CODE	ni			PRESERVATIVE KEY	KEY
		LOCATION (CI	TY/STATE) ADD	RESS:	BOTT	BOTTLE TYPE:	MASON			90 - ICE	<b>71</b>
PROJECT MANAGER:					LLOB	BOTTLE SIZE:	40Z			1 - HCL	
Nick Nicholas		ž			SA:		<u></u>			2 - HNO3	
Project:	1368.001	<del> </del>	REQUIRED TURN AROUND TIME:	ле: 7/19/2016	∃NIAT		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\	\	4 - NaOH	
Notes:		T			NOC	- ocg	2283 	_	\ \ \	HO=W - 9	,
PRESERVATION NOT VERIFIED AT SCHENECTAY LAB	I SCHENECTAY LAB.	NAME OF COU	NAME OF COURIER (IF USED):		Я OF (	NOCS E	SNOCS I			7 - NaHSO4 8 - Other (Na2SO3)	(803)
ELECTRONIC RESULTS	nicholas.nicholas@pacelabs.com	os.com		LAB	 18E	<u></u>	\	_	_		
	Nicole. Johnson@pacelabs.com	.com	GRAB/	SAMPLE ID	NUN	\	\	\ \	<u></u>		
SAMPLEID	DATE TIME	MATRIX	COMP	(LAB USE ONLY)	_				/	/ REMARKS:	
<b>T-11</b>	7/15/16 8:(	8:00	GRAB	AT17549	2	X				MS/MSD Needed for 8260 & 8270	
T-12	7/15/16 8:(	8:05	GRAB	AT17550	2	×					
T-13	7/15/16 8:	8:10 S	GRAB	AT17551	7	×				Revend CO	U
DUP	7/15/16 8:	8:15 S	GRAB	AT17552	2	×				1607 D46	
										CONP 7/20 III	10
-											
AMBIENT OR CHILLED:	TEMP:	COC TAPE:	z		PROPERLY !	PROPERLY PRESERVED:	<b>&gt;</b>	z	OTHER NOTES: An	OTHER NOTES: Analytical Report [LEVEL-2] EDD: EQUIS-DEC-DE	DEC-DE
RECEIVED BROKEN OR LEAKING:	∠ ≻	COC DISCREPANCIES:			RECVD W/I F	RECVD W/I HOLDING TIMES:	S: Y	Z			
RELINQUISHED BY	RECEIVED BY	ED BY		RELINQUISHED BY		RECEIVED BY		l Ì	RELINQUISHED BY	RECEIVED BY	
SIGNATURE	SIGNATURE		SIGNATURE	-	SIGNATURE			SIGNATURE		SIGNATURE	
PRINTED NAME	PRINTED NAME		PRINTED NAME		PRINTED NAME	i.m.		PRINTED NAME		PRINTED NAME	
COMPANY	COMPANY		COMPANY		COMPANY			COMPANY		COMPANY	
рате/тіме	DATE/TIME		DATE/TIME		DATE/TIME			DATE/TIME		DATE/TIME	T
1										S:ALOGINAMDLCOCS	SOCOT

Pace NY 479

8 - Other (Na2SO3) S:\LOGIN\MDLCOC PRESERVATIVE KEY OTHER NOTES: Analytical Report (LEVEL 2) EDD: EQUIS-DEC 5 - Zn. Acetate 7 - NaHSO4 3 - H2SO4 6 - MeOH 2 - HN03 4 - NaOH 1-HCL DISPOSAL REQUIREMENTS: (To be filled in by Client) 0 - ICE REMARKS Z V ENTER ANALYSIS AND METHOD NUMBER REQUESTED Additional charges incurred for disposal (if hazardous) or archival. PRINTED NAME DISPOSAL BY RECEIVING LAB ARCHIVAL BY RECEIVING LAB DATE/TIME COMPANY RETURN TO CLIENT RELINQUISHED BY RINTED NAME SIGNATURE DATE/TIME OMPANY Call for details, 20028 E8520D MASON 40z DATETING GILLS NOC8 E8560C PRESERVATIVE CODE: RECVD W/I HOLDING TIMES: × × × × × BOTTLE TYPE: RECEIVED BY BOTTLE SIZE: PROPERLY PRESERVED: × × × × (LAB USE ONLY) NUMBER OF CONTAINERS N 2 7/19/2016 LRF# 16070280 (LAB USE ONLY) PAGE 10F 1 SAMPLE ID RELINQUISHED BY GRAB | AT17549 GRAB | AT17550 GRAB AT17553 GRAB |AT17551 GRAB AT17552 OCATION (CITY/STATE) ADDRESS: REQUIRED TURN AROUND TIME: VAME OF COURIER (IF USED) PROJECT#/PROJECT NAME: COMP RINTED NAME GRAB/ Pace Analytical Services, Inc. 2190 Technology Drive, Schenectady, NY 12308 Telephone (518) 346-4592 Fax (518) 381-6055 SIGNATURE COMPANY DATE/TIME ()× COC DISCREPANCIES 16070280 CHAIN OF CUSTODY RECORD MATRIX COC TAPE: ഗ ഗ S ഗ S ż nicholas.nicholas@pacelabs.com Nicole. Johnson@pacelabs. com 8:05 8:10 8:15 8:00 8:20 RECEIVED BY 1368.001 TIME RESERVATION NOT VERIFIED AT SCHENECTAY LAB. DATE/TIME RINTED NAME 7/15/16 GNATURE 7/15/16 7/15/16 7/15/16 7/15/16 DATE TEMP: 1 20 DOCK COR CLIENT (REPORTS TO BE SENT TO): www.pacelabs.com Very Pelle Port 7/15/10 16:00 ECEIVED BROKEN OR LEAKING: RELINQUISHED BY **ELECTRONIC RESULTS** SAMPLE ID Nick Nicholas MBIENT OR CHILLED: ROJECT MANAGER MS/MSD (T-11) PACE roject: otes: 1-11 T-12 T-13 DUP

1,000 OX26 2535

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must b < 16070280P1>

at Blelitable Pace Project No./ Lab I.D. (N/A) DRINKING WATER Samples Intact SAMPLE CONDITIONS OTHER ATT-155% (N/Y) MT 17850 ATT 3552 Z Custody Cooler \* 1750 Ö Ice (Y/N) GROUND WATER Received on 488 Residual Chlorine (Y/N) O° ni qmaT REGULATORY AGENCY RCRA 3 5 Requested Analysis Filtered (Y/N) es C 7 Site Location STATE: NPDES 1/2// DATE UST Ne Wo DATE Signed (MM/DD/YY): 500 ACCEPTED BY / AFFILIATION 6728 70/ × × 701 6, LAnalysis Test ↓ N/A Other Methanol Preservatives Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> HOßN HCI нио<sup>3</sup> Address: J.W. <sup>†</sup>OS<sup>z</sup>H ace Profile #: Section C Pace Quote Reference: Pace Project Unpreserved TIME 7 d # OF CONTAINERS d 3 SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER: SAMPLE TEMP AT COLLECTION DATE TIME COMPOSITE END/GRAB DATE COLLECTED , 0001, COST RELINQUISHED BY / AFFILIATION 2:10 82.23 855 8:15 8,80 TIME COMPOSITE START DATE (G=GRAB C=COMP) SAMPLE TYPE Purchase Order No.: Project Number MATRIX CODE roject Name: ORIGINAL Section B Report To: Copy To: Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Scil/Solid Oii Wipe All All Tissue Other Fer Slarting dologuities Prive Suff 200 ADDITIONAL COMMENTS 1220 YA (A-Z, 0-9 / ,-) Sample IDs MUST BE ÜNIQUE SAMPLE ID Section D Required Client Information Requested Due Date/TAT: 10 MIC 7/-1-13 DIVI Section A # MƏTI 9 œ Ō 10 ٣

Face Analytical www.pacelebs.com

### <16070280P2>



							ı	***************************************
						CLIENT NAME: BARTON & LOGWIDICE	STON W LO	GWIDICE
					. –	PROJECT:		
COURIER: FedEx   UPS	Client	Pace	Other 🗆		•			
TRACKING # N/A		CUSTOD	CUSTODY SEAL PRESENT: Yes	S	No in	INTACT: Yes	No	N/A/\$
PACKING MATERIAL: Bubble Wrap	Bubble Bags	ags 🗆	None  Of	Other		ICE USED: Wette	Blue	None
THERMOMETER USED: #164   IR Gun 03		9773 \( \) #16	#160239773 🗆 #160239773-PRB 🗆	8	OLER TEIV	COOLER TEMPERATURE (°C): L1, &	ر ر ر	
BIOLOGICAL TISSUE IS FROZEN: Yes 🗆	No ON	N/A.B.						
COMMENTS:				Ā	mperature	Temperature is Acceptable?	) Sa	<b>№</b>

					iciiipciatule is Acceptable:
	Chain of Custody Present:	<b>PYes</b>	oN []		
	Chain of Custody Filled Out:	∑PYes	ON.		2.
	Chain of Custody Relinquished:	∑-DYes	ONC		3.
	Sampler Name / Signature on COC:	∑ayes	□No		4.
	Samples Arrived within Hold Time:	À Tres	% □		5.
	Short Hold Time Analysis (<72hr):	□Yes	₽NP		9
	Rush Turn Around Time Requested:	□Yes	ABNo.		7. ASAP
	Sufficient Volume:	Z Yes	ON		8.
	Correct Containers Used:	- Agyes	oN□		9.
	- Pace Containers Used:	<b>Pres</b>	o N□		
	Containers Intact:	Apres	ON		10.
	Filtered volume received for Dissolved tests: □ves	S: □Yes	°N 🗆	¥M,	11.
	Sample Labels match COC:	A es	» []		12. Account Folicontainers for sounde MS/MSD (T-11), but only two
	- Includes date/time/ID/Analysis				We hated on Coc
	All containers needing preservation have been checked:	∏Yes	on 🗆	SEPN/A	13.
	All containers needing preservation are in	□Yes	°N □	PANA AMA	
	compliance with EPA recommendation:				Initial when
	- Exceptions that are not checked: TOC, VOA, Subcontract Analyses	ract Analyses			completed: $M/A$ Lot # of added preservative: $M/A$
	Headspace in VOA Vials (>6mm):	□Yes	oN 🗆	€ BNA	14.
	Trip Blank Present:	□Yes	ºN□	ANDR	15.
	Trip Blank Custody Seals Present:	□Yes	oN □	<b>XC</b> N/A	
	Pace Trip Blank Lot #: 🔝 🕦 🎢				
	Sample Baroint form filled in:		O-ori	* theinder Co	Anima Chimaina Dominante and confidence and an all the
ĺ	סמוולום וומכולו וסנווו ווווכת וווי		ביייי	ו (ווורוחחבי רה	Line-Dut (Intrinues Copying Shipping Documents and Verrying Sample pri):

Line-Dut (Includes Lopying Snipping Documents and Veritying Sample pH):

Log In (Includes notifying PM of any discrepacies and documenting in LIMS):

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

2/15/10 30 al



New York State Department of Environmental Conservation Division of Environmental Remediation

## Petroleum Bulk Storage Application

npleted Form	& Fees To:		
	Return Completed Form & Fees To:		

<b>PBS Number:</b> 4-601508	ber:	Petrol Pursuant Reg (Please Type	Petroleum Bulk Storage Application  Pursuant to the Environmental Conservation Law: Article 17, Title 10; and  Regulations 6 NYCRR Part 613 and 6 NYCRR Subpart 374-2  (Please Type or Print Clearly and Complete All Items for Sections A, B & C)	orage Applica vation Law: Article 17, Title and 6 NYCRR Subpart 374 plete All Items for Section	<b>UON</b> 10; and 2 is A, B & C)		
		Section A	Section A - Facility/Property Owner/Contact Information	Wner/Contact Inform	nation	Expiration Date:	Date:
actio	ш	Facility Name: MAXON ALCO HOLDINGS LLC.	INGS LLC.	Tax Map Info: Borough/Section:	TYPE OF PETROLEUM FACILITY (Check only one)	LITY (Check only one)	□ 02=Retail Gasoline Sales
rype: 3	<	Facility Address (Physical Address, No P.O. Boxes)	No P.O. Boxes)	Block:	☐ 03=Other Retail Sales		☐ 04=Manufacturing
Initial/New Facility	O	Facility Address (cont.):		Lot:	☐ 07=Apartment/Office Building	Du	☐ 08=School
Change of Ownership	1	City: SCHENECTADY	Star	State: ZIP Code: NY 12305	☐ 09=Farm ☐ 11=Airline/Air Taxi/Airport		☐ 10=Private Residence ☐ 12=Chemical Distributor
Tank Installation, Closing or		County:	Township/City SCHENECTADY (C)	Facility Phone Number: (518) 465-1565	☐ 13=Municipality ☐ 25=Auto Service/Repair (No Gasoline Sales)	o Gasoline Sales)	<ul><li>□ 15=Railroad</li><li>□ 16=Nuclear Power Plant</li></ul>
Repair Information	- ⊢	Name of Class B (Daily On-Site) Operator: STEPHEN LUCIANO	erator.	Operator Authorization No.	☐ 26=Religious (Church, Synagogue, Mosque, Temple, etc.) ☐ 27=Hospital/Nursing Home/Health Care ☐ 28=	agogue, Mosque, Temp /Health Care	ıle, etc.) □ 28=Cemetery / Memorial
Renewal	<b>&gt;</b>	Name of Class A (Primary) Operator: STEPHEN LUCIANO		Operator Authorization No.	□ 52=Marina ■ 99=Other (Specify):	BROWNFIELD CLEANUP SITE	P SITE
NOTE:		Facility (Property) Owner (from Deed): MAXON ALCO HOLDINGS LLC.	d): LLC.		Emergency Contact Name: STEPHEN LUCIANO		Emergency Telephone Number: (518) 465-1565
Fill in		Facility Owner Address (Street and/or P.O. Box): 695 ROTTERDAM INDUSTRIAL PARK	or P.O. Box): SIAL PARK		I hereby certify, under penalty of law, that all of the information provided on this form is true and False statements made herein may be minishable as a criminal offense and/or a civil violation in	, that all of the information	l hereby certify, under penalty of law, that all of the information provided on this form is true and correct. Eakse statements made herein may be punishable as a criminal offense and/or a civil violation in
Owner	0	City: SCHENECTADY	State: NY ZI	ZIP Code: 12306	accordance with applicable state and federal law	d federal law.	
nformation nere>>>	3 z	Federal Tax ID Number: 27-0407456	Owner Telephone Number: (518) 465-1565		Name of Property Owner or Authorized Representative: PAUL FALLATI	thorized Representative	: Amount Enclosed: \$ 0.00
	ш	Type of Owner: (check only one)	8	Local Government	Title: AUTHORIZED REPRESENTATIVE	ESENTATIVE	
ndicate Lank Owner in	œ	1 ☐ Private Resident	4 🛮 Federa	Federal Government	Signature:	1	Date: 10 - 11
Section C.		2 ☐ State Government	5 🛭 Corpor	Corporate/Commercial/Other		- mount	e/ - 0/ 0.
fficial Use Only	O (	(Please keep this information up to date Facility Contact Person Name:	late STEPHEN LUCIANO			For Overdue Reg	For Overdue Registrations Only:
	o ∝ ∝	Contact Person Company Name:	MAXON ALCO HOLDINGS LLC	INGS LLC		registration, you may	If you are submitting an application to an overlate registration, you may settle the violation by submitting the normal fee any back fees due and a penalty of \$50 for
ate Processed:	шωα	Address:	695 ROTTERDAM INDUSTRIAL PARK	OUSTRIAL PARK		every month the application settle, or make no cho	every month the application is overdue. If you decline to settle, or make no choice, the case will be referred for
mount Received:	. O Z	Address (cont.):				enforcement which mathemath the violations. Please	enforcement which may result in higher penalties to resolve the violations. Please indicate your choice below:
eviewed By:	ΔШZ	City/State/ZIP Code:	SCHENECTADY, NY 12306	12306		☐ I agree to settle ar penalty amounts.	I agree to settle and have enclosed the proper fees and penalty amounts.
ev. 10/03/15	ОШ	Tel. Number: (518) 465-1565		eMail Address: SLUCIANO@GALESI.COM	@GALESI.COM		I decine to settle and understand that higher penalties may result.

PBS Number:

4-601508

## (Please use the key located on the last page to Section B - Tank Information

Registration Expiration Date:

complete each item/column)

	voltage of schools of a notice		- 6			die				e* ×										
(21)	Under Dispenser Containment (UDC) (Check box if present)																			
(20)	Piping Leak Detection	0		00		00		0				 						 		
(19)	Piping Secondary Containment	00 00		00		0 00		00 00									20,2			
(18)	Piping External Protection	)		)		)		)												
		00		00	*	00		00												
(17)	Piping Type	00	3.	00		00		00												
(16)	Piping Location	00	5 5.	00		00	12/	00			5 2									
(15)	Pumping/Dispensing	00	. N	00		00		00												
(14)	Tank Spill Prevention	00		00	- O	00		00		-										
(13)	Tank Overfill Prevention											 						 		
	Leak Detection	00		00		00		00												
(12)		00		00		00		00				 								
	Confainment	0		0		0		0												
(44)	Tank Secondary	00		00		00		00				 								
(10)	Tank External Protection											 								
(6)	Tank Internal Protection	00 0		00 00		00 00		00 0					2	2		4.	2			
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(9)	city ons)	00		00		00		. 2						6 8			*			
8	Capacity (Gallons)	6,000		12,000		12,000		550												
	tion, srvice anent Date (YYYY)	395	910	56	910	-56	010	36	910											
(5)	Installation, Out of service or Permanent Closure Date (MM/DD/YYYY) Application will be returned if blank	5/1/1995	07/13/2016	5/1/1995	07/14/2016	5/1/1995	07/15/2016	5/1/1995	07/13/2016										7.50	
3	oninio	3	0	3	0	3	0	3	0						* * *				2 8 9	
(3)		5		5		5		5 3											10	
6	Tank Number	011		012		013		014												
5		1/3		1/3		1/3		1/3		2										

Note: If you need to add tanks to your registration, write them in using blank lines above. Attach additional sheets as needed. Blank Section B is available at <a href="http://www.dec.ny.gov/docs/remediation hudson pdf/pbsrenewal.pdf">http://www.dec.ny.gov/docs/remediation hudson pdf/pbsrenewal.pdf</a>

PBS Number:

4-601508

## Petroleum Bulk Storage Application Section C – Tank Ownership Information (for PBS tanks listed in Section B)

nformation	ndividual):				State: ZIP:	ıber:		ks Owned		Tank Number (cont.)			
Tank Owner Information	Tank Owner Name (Company/Individual):	Contact Person:	Tank Owner Address:	Tank Owner Address (cont.)	City:	Contact Person Telephone Number:	Contact Person Email:	Specific Tanks Owned		Tank Number			
uo					ZIP:			P		Tank Number (cont.)			
Tank Owner Information	ny/Individual):				State:	Vumber:		Specific Tanks Owned		Tank N			
Tank Owne	Tank Owner Name (Company/Individual):	Contact Person:	Tank Owner Address:	Tank Owner Address (cont.)	City:	Contact Person Telephone Number:	Contact Person Email:	Specific T		Tank Number			
n arty) Owner. wner, fill out					ZIP:			at this facility.	r below:	Tank Number (cont.)			
Tank Owner Information box if same as Facility (Propertier is different from property ow information below:	//Individual):				State:	ımber:		Specific Tanks Owned if this owner owns all tanks	d by this owner	Tank Nu			
Tank Owner Information  X□ Check box if same as Facility (Property) Owner.  If tank owner is different from property owner, fill out	Tank Owner Name (Company/Individual):	Contact Person:	Tank Owner Address:	Tank Owner Address (cont.)	City:	Contact Person Telephone Number:	Contact Person Email:	Specific Tanks Owned  Check box if this owner owns all tanks at this facility.	If not, list tanks owned by this owner below:	Tank Number			

Attach additional sheets as needed.

# PETROLEUM BULK STORAGE APPLICATION - SECTION B - TANK INFORMATION - CODE KEYS

Piping Secondary Containment (19) 00. None 01. Diking (Aboveground Only) 02. Vault (w/access)		Pipe Leak Detection (20)  00. None  01. Interstitial Electronic Monitoring 02. Interstitial Manual Monitoring 03. Vapor Well 04. Groundwater Well 07. Pressurized Piping Leak Detector 09. Exempt Suction Piping 10. Statistical Inventory Reconciliation (SIR) 99. Other-Please list:*	Under Dispenser Containment (UDC) (21) Check Box if Present  * If other, please list on a separate sheet including tank number. ** Each of these codes must be combined with code 01 or 06 to meet compliance requirements.
Overfill Protection (13) 00. None 01. Float Vent Valve 02. High Level Alarm 03. Automatic Shut-Off	=	99. Other-Please list:*  Pumping/Dispensing Method (15) 00. None 01. Pressurized Dispenser 02. Suction Dispenser 03. Gravity 04. On-Site Heating System (Suction) 05. On-Site Heating System (Suction) 06. Tank-Mounted Dispenser 07. Loading Rack/Transfer Pump	- 11 15- 15- 15- 15- 15- 15- 15- 15
01. Epoxy Liner 02. Rubber Liner 03. Fiberglass Liner (FRP) 04. Glass Liner 99. Other-Please list:*	<b>2</b>	06. Wrapped (Piping) 07. Retrofitted Sacrificial Anode 08. Retrofitted Impressed Current 09. Urethane 99. Other-Please list:*  Tank Secondary Containment (11) 00. None 01. Diking (AST Only) 02. Vault (w/o access) 03. Vault (w/o access) 04. Double-Walled (UST Only) 05. Synthetic Liner 06. Synthetic Liner 06. Remote Impounding Area	
0008. Diesel 2710. Biodiesel 0011. Jet Fuel 1044. Jet Fuel (Biofuel) 2641. Aviation Gasoline	Lubricating/Cutting Oils 0013. Lube Oil 0015. Motor Oil 1045. Gear/Spindle Oil 0010. Hydraulic Oil 0007. Cutting Oil 0021. Transmission Fluid	1836. Turbine Oil 0308. Petroleum Grease Oils Used as Building Materials 2626. Asphaltic Emulsions 0748. Form Oil Petroleum Spirits 0014. White/Mineral Spirits 1731. Naphtha Mineral/Insulating Oils 0020. Insulating Oil (e.g., Transformer, Cable Oil) 2630. Mineral Oil	Waste/Used/Other Oils 0022. Waste/Used Oil 9999. Other-Please list:*  Crude Oil 0006. Crude Oil 0701. Crude Oil 0701. Crude Oil 071. Steel/Carbon Steel/Iron 02. Galvanized Steel Alloy 03. Stainless Steel Alloy 04. Fiberglass Coated Steel 05. Steel Tank in Concrete 06. Steel Tank in Concrete 06. Steel Tank in Concrete 06. Fiberglass Reinforced Plastic (FRP) 07. Plastic 08. Equivalent Technology 09. Concrete 10. Urethane Clad Steel 99. Other-Please list:*  Internal Protection (9) 00. None
Action (1) 1. Initial Listing 2. Add Tank 3. Close/Remove Tank 4. Information Correction 5. Repair/Reline Tank	Tank Location (3)  1. Aboveground-contact w/ soil 2. Aboveground-contact w/ impervious barrier 3. Aboveground on saddles, legs, stilts, rack or cradle	4. Tank with 10% or more below ground 5. Underground including vaulted with no access for inspection 6. Aboveground in Subterranean Vault w/ access for inspections  Status (4) 1. In-service 2. Out-of-service 3. Closed-Removed 4. Closed-Removed 5. Tank converted to Non-Regulated use D. Delivery Prohibited	Products Stored (7)  Heating Oils: On-Site Consumption 0001. #2 Fuel Oil 0002. #4 Fuel Oil 0259. #5 Fuel Oil 0259. #5 Fuel Oil 0003. #6 Fuel Oil 0012. Kerosene 0591. Clarified Oil 2711. Biodiesel (Heating) 2642. Used Oil (Heating) 2642. Used Oil (Heating) 2718. #2 Fuel Oil 2719. #4 Fuel Oil 2721. #6 Fuel Oil 2722. Kerosene 2723. Clarified Oil 2724. Biodiesel (Heating)  Motor Fuels 0009. Gasoline 2712. Gasoline/Ethanol

### Nathan J. Shaffer

From: **Andrew Barber** 

Sent: Wednesday, October 26, 2016 1:36 PM

To: Strang, John (DEC); Ostrov, Rich (DEC); Deming, Justin H (HEALTH); Mustico, Richard X

(DEC)

Cc: Nathan J. Shaffer; Rosemary J. McCormick ALCO Spill #1604483 Monthly Report Subject:

John – provided below is the first monthly report for Spill 1604483, as required by your approval letter – please let me know if this format works for you

Date	Activity Description
10/3	Inspection
10/4	Inspection
10/5	Inspection
10/6	Inspection
10/7	Inspection
10/11	Inspection
10/14	Inspection, collected samples from monitoring wells (MW-71, MW-72, and MW-73)
10/17	Inspection, boom replacement
10/18	Inspection, boom replacement
10/21	Inspection
10/25	Inspection, boom replacement

During the inspection visits, adjustments were made to the booms for optimal containment and absorption of the residual sheen. In general, the sheen persisted behind the booms, but did not appear to visibly increase during the month of October; sheens were not observed outside of the containment boom. The sheen was most prevalent in areas at the edge of the geosynthetic clay liner (which was installed during the injection work). New areas of riverbank seepage were not observed along the riverbank in the vicinity of the booms.

Site inspections for Spill 1604483 area will continue during the month of November, 2016; a minimum of two times a week or more frequently, as needed.

Andrew J. Barber

Sr. Environmental Consultant

### Barton & Loguidice, D.P.C.

Engineers, Environmental Scientists, Planners, Landscape Architects

10 Airline Drive • Suite 200 • Albany, NY 12205 • Phone: (518) 218-1801 www.bartonandloguidice.com



A Please consider the environment before printing this e-mail.



### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Office of Environmental Quality, Region 4

1130 North Westcott Road, Schenectady, NY 12306-2014 P: (518) 357-2045 | F: (518) 357-2398 www.dec.ny.gov

December 15, 2016

Mr. Andrew Barber Barton & Loguidice, D.P.C. 10 Airline Drive, Suite 200 Albany, NY 12205

Re:

Spill #1505689 (08/27/2015)

ALCO-Maxon Site - Parcel A, BCP Site C447042 ALCO-Maxon Site - Parcel B, BCP Site C447043

301 Nott Street, Schenectady, NY 12306

Schenectady County

Dear Mr. Barber:

The impacted material encountered during the excavation of soil for the Mohawk Harbor was reported as spill 1505689 on 8/27/2015. The spill was closed administratively on 10/15/2015 as the handling and disposal of the material will be completed under the requirements of the revised Excavation Work Plan, approved by the New York State Department of Environmental Conservation in October 2015.

Please contact me at (518) 357-2390, if you have any questions.

Sincerely,

John R. Strang, P.E.

John M. Strong

**Environmental Engineer 2** 

Division of Environmental Remediation

Region 4

ec:

D. Buicko, Maxon ALCO Holdings, LLC

T. Owens, Galesi

S. Luciano, Galesi

J. Deming, NYSDOH

R. Ostrov, NYSDEC

R. Mustico, NYSDEC

### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Office of Environmental Quality, Region 4
1130 North Westcott Road, Schenectady, NY 12306-2014
P: (518) 357-2045 | F: (518) 357-2398
www.dec.ny.gov

December 15, 2016

Mr. Andrew Barber Barton & Loguidice, D.P.C. 10 Airline Drive, Suite 200 Albany, NY 12205

Re: Spill #1507232, ALCO-Maxon Site - Parcel A

BCP Site C447042

301 Nott Street, Schenectady, NY 12306

Schenectady County

Dear Mr. Barber:

With the 2/26/26 Spill Report, and the receipt of the disposal records (dated 3/25/16) for the material removed from underground storage tank 10 in the remediation of Spill 1507232, the New York State Department of Environmental Conservation Region 4 office has closed this spill (date of closure 3/25/16).

Please contact me at (518) 357-2390, if you have any questions.

Sincerely,

John R. Strang, P.E.

Environmental Engineer 2

John R Strong

Division of Environmental Remediation

Region 4

ec: D. Buicko, Maxon ALCO Holdings, LLC

T. Owens, Galesi

S. Luciano, Galesi

J. Deming, NYSDOH

R. Ostrov, NYSDEC

R. Mustico, NYSDEC

### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Office of Environmental Quality, Region 4 1130 North Westcott Road, Schenectady, NY 12306-2014 P: (518) 357-2045 | F: (518) 357-2398 www.dec.ny.gov

October 27, 2016

Mr. Andrew Barber Barton & Loguidice, D.P.C. 10 Airline Drive, Suite 200 Albany, NY 12205

> Re: Spill #1602325, ALCO-Maxon Site- Parcel A 301 Nott Street, Schenectady, NY 12305 Schenectady County

Dear Mr. Barber:

With receipt of the Spill Closure Report (9/02/16) and the waste manifests for the material removed in the remediation of Spill 1602325 (6/07/2016), the New York State Department of Environmental Conservation (NYSDEC) Region 4 office has closed this spill. This closure letter and enclosure are to be included in the Final Engineering Report for ALCO-Maxon Site – Parcel A. A copy of the NYSDEC Spill Report is enclosed.

Please contact me at (518) 357-2390, if you have any questions.

Sincerely,

John R. Strang, P.E. Environmental Engineer 2

John R Streng

Division of Environmental Remediation

Region 4

### Enclosure

ec: D. Buicko, Maxon ALCO Holdings, LLC

T. Owens, Galesi

S. Luciano, Galesi

J. Deming, NYSDOH

R. Ostrov, NYSDEC

R. Mustico, NYSDEC

K. Goertz, NYSDEC

Letter.er. 1602325.2016-11-27.ALCO-Maxon Site - Parcel A





### NYSDEC SPILL REPORT FORM



DEC REGION: 4  SPILL NAME: MAXON ALCO BROWNFIELD NOTT ST IND  CALLER NAME: NATE  CLR'S AGENCY: B AND L				SPILL NUMBER: D DEC LEAD: NOTIFIER'S NAME: NOTIFIER'S AGENCY:		1602325  JRSTRANG  NATE									
										BANDL					
										CALLER'S PH	IONE: (518) 32	1-6142		NOTIFIE	R'S PHONE:
						SPILL DATE:		06/07/2016	SPILL TI	ME:	8:45 am	1 4	DISPATCH	IER:	2
CALL RECEIVED DATE:		06/07/2016	RECEIVE	D TIME:	8:54 am		DABRUCE								
		Control Company	SPILL LOCA	ATION	Substitute.		15,10		-504.0						
PLACE:	MAXON ALCO BROWNFIELD NOTT ST IND F			COUNTY: TOWN/CITY: COMMUNITY:		Schenectady									
STREET:	301 NOTT ST ALCO 301 NOTT ST					Schenectady (c) SCHENECTADY									
0017407															
CONTACT:	NATE			CONT	ACT PHONE:		- Samuel - Sam								
CONT. FACTOR: Unknown				SPILL REPORTED BY: Other											
FACILITY TYPE: Commercial/Industrial				_ WATERBODY:											
CALLER RE		ntamination during exc	cavation												
MATERIAL unknown petrole	eum	CLASS Petrole		SPILLED	REC	OVERED	RESOUR Soil,	CES AFF	ECTED						
		PC	TENTIAL S	PILLER	RS										
COMPANY N/A MAXON A BROWNFIELD		ADDRESS NY PK				CON	TACT								
Tank No. Tank	k Size Materia	d Cause	Sou	rce	Test Meth	od	Leak Rate	Gross	Failure						
DEC REMAR	RKS:						-								

Contractor excavating the site river bank adjacent to the Rivers Casino (within ALCO-Maxon Site - Parcel A) with the bank isolated from the Mohawk by steel sheeting. Soil had strong petroleum odor and measured 120 on photo-ionization detector (ppb RAE). Visual showed some diesel product present. All previous readings from soil were less than 26 with one high reading of 41. Environmental consultant (Barton & Loguidice) called in the spill and notified DER project manager.

DEC at spill location that morning (6/7/16). Petroleum smelly soil was excavated and stockpiled on plastic and bermed to prevent run-off. Pads were placed on surface water (within steel sheeting) to capture any diesel oil sheen. Plan is to over-excavate the location and take confirmatory soil samples. All excavated soil (on plastic) was covered and will have waste characterization sampling done. Confirmatory samples from the bottom and sides of the excavation were taken. Pictures in file. (Strang)

7/15 and 7/19/16 Excavated soil (approximately 300 tons) was transported from Parcel A and disposed of in Rapp Road Landfill. (Strang)

Created On: 06/07/2016 Date Printed: 10/27/2016

Last Updated: 10/27/2016



### NYSDEC SPILL REPORT FORM



DEC REGION: 4 SPILL NUMBER: 1602325

SPILL NAME: MAXON ALCO BROWNFIELD NOTT ST IND DEC LEAD: JRSTRANG

10/26/16 DER PM received Closure Report (9/2/16) with results of confirmatory sampling and accepted. Region had received disposal receipts earlier. Spill closed. (Strang)

PIN

T&A

COST CENTER

CLASS: C3

CLOSE DATE: 10/26/2016

**MEETS STANDARDS:** 

False

Created On: 06/07/2016 Date Printed: 10/27/2016

Last Updated: 10/27/2016

2