Prepared for:
BASF Rensselaer
Rensselaer, NY

Prepared by:
AECOM
Westford, MA
60135965.500
January 31, 2013

Dredged Sediment Treatment Pilot Study Closure Report

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Sean Crowell
Prepared By Sean Crowell

John A. Bleiler
Reviewed By John A. Bleiler

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1.0 Introduction

This report has been prepared by AECOM on behalf of BASF Corporation (BASF) to summarize activities associated with closure of the *Dredged Sediment Treatment Pilot Study* at the BASF Rensselaer Site, in Rensselaer, New York (the "Site"). BASF recently completed the *Dredged Sediment Treatment Pilot Study*, the goal of which was to evaluate the feasibility and practicality of operating an ex situ treatment system to reduce concentrations of volatile organic compounds (VOCs) in dredged Hudson River sediment. The results of this study were documented in the *Dredged Sediment Treatment Pilot Study Report* (May 2011); this report was accepted by the New York State Department of Environmental Conservation (NYSDEC) in April 2012. The pilot study project was conducted as an Interim Remedial Measure (IRM) in accordance with an approved July 2008 IRM Work Plan, and is summarized in the following bullets:

- In 2008, after dredging was completed by others[1], approximately 1,000 cubic yards (CY) of dredged sediment was stockpiled in a secure enclosure in the western portion of the Site.
- The pilot study program consisted of dividing the 1,000 CY of dredged sediment into four approximately equally sized volumes for placement into independent treatment cells. The four treatment cells were located on a paved and fenced area of the Main Plant site immediately across Riverside Avenue from the Containment Cell location.
- Each of the four piles was treated slightly differently so BASF could evaluate remedial performance using different treatment cell configurations, treatment technologies, variations in bulking agents/amendments, heating mechanisms, and piping configurations within the treatment cells.
  - Treatment Cells 1 and 2 were constructed using un-amended sediments and vertical extraction and injection piping. Different heating regimes were evaluated in these 2 cells.
  - Treatment Cell 3 was constructed by adding approximately 19% LKD to sediment and was designed to evaluate the use of horizontal extraction and injection piping.
  - Treatment Cell 4 was constructed by adding approximately 30% peat moss to the sediment and was designed to evaluate biological treatment using vertical extraction and injection piping in the more permeable material.
- On December 16, 2010, following completion of pilot study activities, composite samples were collected from each of the treatment cells in order to determine the concentrations of VOCs present in the treatment cells after completion of the testing activities. Table 6-9 in the *Dredged Sediment Treatment Pilot Study Report* presented these results.
- In December 2010 and April 2011, following the completion of pilot testing, all four treatment cells were sampled for disposal, including VOC Toxicity Characteristic Leachability Procedure (TCLP) sampling. Based on these results, Cells 3 and 4 were disposed of off-site as non-hazardous waste. However, analytical results indicated that the leachate from the two

[1] Empire Generating Project conducted the dredging to allow for installation of a process water discharge outfall diffuser line

unamended cells (Cells 1 and 2) exceeded the acceptable TCLP limit (0.5 mg/l) for benzene and that Cell 1 also contained 1,2-dichloroethane at a concentration in excess of its TCLP limit.

- In the fall of 2011, approximately 30% peat was added via bucket mixing to Cells 1 and 2 (to approximate the conditions in Former Cell 4), and these two cells were moved and consolidated into one cell on the eastern side of the BASF property. Since this time, BASF has conducted weekly inspections to document the condition of this cell, and has provided these reports to NYSDEC on a monthly basis since the summer of 2012.
- In May 2012, after allowing approximately 6 months for biological treatment to occur, five composite VOC TCLP analyses were re-conducted on the stockpiled material. While the absolute values in the TCLP extracts showed substantive reductions in the leachate benzene concentration, these lower concentrations were still slightly above the regulatory limit (all other VOC TCLP concentrations, including 1,2, dichloroethane, were well below their respective TCLP thresholds) .
- In April 2012, the NYSDEC prepared a letter requiring BASF to dispose of all residual sediments from the recently completed *Dredged Sediment Treatment Pilot Study* on or before July 24, 2012.
- In June 2012, BASF prepared a letter presenting the above results, and requesting an extension until the end of the calendar year 2012 to allow for additional biological treatment with peat over the warm summer and fall months. On July 17, 2012, the NYSDEC approved this request and granted an extension through the calendar year. This approval letter required that BASF remove all sediments from the Site by December 31, 2012 and provide copies of transport and manifest documentation within 30 days of BASF receiving the paperwork.

This report summarizes activities which were completed to decommission and close out the IRM pilot study at the Site. This report summarizes these disposal activities and provides final confirmation that all sediment dredged during the diffuser line installation was handled and disposed of properly. Included with this report is final paperwork documenting the ultimate transportation and disposal of the residual material to approved facilities as non-hazardous VOC contaminated soil.

Sediment disposal occurred during three separate events:

1) Disposal of Containment Cell residuals after pilot study construction;
2) Disposal of treated sediment after completion of initial pilot studies;
3) Final disposal of remaining sediment following additional treatment;

Each of these activities is described in detail in Section 2.

2.0 Dredged Sediment Handling and Disposal

The materials original dredged by Empire under the approved IRM work plan were controlled by BASF and employed in pilot studies as discussed in separate work plans and subsequent discussions with NYSDEC. The materials were properly maintained in fully enclosed stock piles throughout the period from generation through ultimate disposal. The following sections provide details on the handling and final disposal of the dredged and treated material.

2.1 Disposal of Containment Cell Materials

The pilot study program consisted of placing the dredged Sediment into a Containment Cell located between Riverside Avenue and the Hudson River, and dividing the 1,000 CY of dredged sediment into four approximately equally sized volumes for placement into independent treatment cells. The four treatment cells were located on a paved and fenced area of the Main Plant site immediately across Riverside Avenue from the Containment Cell location (Figure 1). Each of the four piles was treated slightly differently as summarized above and documented in the *Dredged Sediment Treatment Pilot Study Report.* Pilot study activities occurred primarily between August and December 2009, with construction fieldwork commencing during the week of September 21, 2009.

Upon completion of pilot cell construction, residual materials remaining in the Containment Cell were sampled for waste characterization in accordance with requirements of the disposal facilities. Between September 23 and September 28, 2010, residual Containment Cell materials (312.86 tons) were transported by Silvarole Trucking, Inc. to the High Acres Landfill in Fairport, NY for disposal as non-hazardous VOC-contaminated soil. The transportation and disposal was performed in accordance with local, state, and federal regulations. The associated waste profile, and waste manifests are included as Appendix A.

HDPE liner materials used to enclose the containment cell were disposed of with the sediment, and all concrete blocks were removed from the area to complete the final deconstruction of the Containment Cell. Free water remaining or drained from the materials during handling, or generated as a result of odor control measures during the handling was collected and treated at BASF's on-site groundwater treatment plant (GWTP).

2.2 Pilot Cell Deconstruction

In December 2010 and April 2011, following completion of pilot study activities, composite samples were collected from each of the treatment cells in order to determine the concentrations of VOCs present in the treatment cells after completion of the testing activities, and evaluate options for potential disposal of the treatment materials. Samples from this event indicated that the materials present in Test Cells 1 and 2 failed TCLP for both benzene and 1,2-dichloroethane. Cells 3 and 4 both passed TCLP. Key results of the VOC TCLP sampling are summarized below.

December 2010/April 2011 Test Cell TCLP Sampling				
	Benzene	**Chlorobenzene**	**1,4-Dichlorobenzene**	**1,2-Dichloroethane**
TCLP Regulatory Level	0.5	100	7.5	0.5
Test Cell 1 (un-amended)	3.28	70.8	3.39	1.05
Test Cell 2 (un-amended)	2.11	56.2	3.36	ND
Test Cell 3 (LKD-amended)	0.048	3.7	0.82	0.036
Test Cell 4 (peat-amended)	0.092	14	1.4	0.18

Note: All concentrations presented as milligrams per liter (mg/l). Bold face indicates detected concentration exceeds threshold

Based on these results, Cells 3 and 4 were disposed of off-site as non-hazardous VOC contaminated soil. Between July 19 and July 21 of 2011, 488.02 tons of sediment was transported by Fiacco Trucking, Inc. to the Ontario County Landfill in Stanley, NY for disposal as non-hazardous VOC- contaminated soil. The transportation and disposal was performed in accordance with local, state, and federal regulations. The associated waste profile, and waste manifests are included as Appendix B.

HDPE liner materials used to enclose the test cell were disposed of with the sediment, and all concrete blocks were removed from the area to complete the final deconstruction of Cells 3 and 4. Free water remaining or drained from the materials during handling, or generated as a result of odor control measures during the handling, was collected and treated at BASF's on site GWTP.

In conjunction with the disposal for Cells 3 and 4, approximately 30% peat was added via bucket mixing to Cells 1 and 2 (to approximate the conditions in Former Cell 4), and these two cells were moved and consolidated into one cell (Blended Containment Cell) on the eastern side of the BASF property (see Figure 1).

2.3 Blended Containment Cell Handling

As described in Section 1, In May 2012, after allowing approximately 6 months for biological treatment to occur, five composite VOC TCLP analyses were re-conducted on the stockpiled material. While the absolute values in the TCLP extracts showed substantive reductions in the leachate benzene concentration, these lower concentrations were still slightly above the regulatory limit (all other VOC TCLP concentrations, including 1,2, dichloroethane, were well below their respective TCLP thresholds) .

May 2012 Test Cell TCLP Sampling		
Sample	**Benzene**	**1,2 Dichloroethane**
TCLP Regulatory Level	0.5	0.5
SS-1	**0.84**	0.18
SS-2	**0.84**	0.10
SS-3	**0.94**	0.16
SS-4	**0.68**	0.13
SS-5	**1.3**	0.22

In September 2012, under NYSDEC supervision, AECOM supervised the addition of 20% of additional peat moss to the blended test cell. During this process, the cell remained at the same location but was split into two separate cells of identical size and make up. The cells were constructed identically, fully enclosed with HDPE, and supported by concrete blocks.

In October 2012, 4 composite samples were collected from the blended test cell. Results from these samples indicated that materials no longer exceeded applicable TCLP parameters, and that addition of peat had rendered the material non-hazardous.

May 2012 Test Cell TCLP Sampling		
Sample	**Benzene**	**1,2 Dichloroethane**
TCLP Regulatory Level	0.5	0.5
SP-1AD	**0.18**	0.028
SP-1BC	**0.26**	0.055
SP-2AD	**0.28**	0.050
SP-2BC	**0.31**	0.063

Based on these results, between December 4 and December 10 of 2012, 1082.52 tons of sediment was transported by Longhorn Trucking, Inc. to the Ontario Count Landfill in Stanley, NY for disposal as non-hazardous VOC-contaminated soil. The transportation and disposal was performed in accordance with local, state, and federal regulations. The associated waste profile, and waste manifests are included as Appendix C.

HDPE liner materials used to enclose the containment cell were disposed of with the sediment, and all concrete blocks were removed from the area to complete the final deconstruction of the blended cell containment structure. Free water remaining or drained from the materials during handling, or generated as a result of odor control measures during the handling was collected and treated at BASF's on site GWTP. Non-contact concrete blocks and other materials utilized to construct the stock piles were either placed neatly on Site for future use, or disposed of as general construction debris. The stock pile area was swept clean and left to match existing pre-sediment handling Site conditions.

3.0 Summary

The sediments, water, and construction materials generated as a result of Empire's 2009 diffuser line installation have been properly handled and disposed of based on all local, state, and federal environmental regulations. Documented disposal activities consisted of the following:

- **December 2010** – 313.86 tons of untreated material were disposed of at the High Acres Landfill in Fairport, NY as non-hazardous VOC-contaminated soil.
- **July 2011** – 488.02 tons of LKD- and peat-amended material were disposed of at the Ontario County Landfill in Stanley, NY as non-hazardous VOC- contaminated soil.
- **December 2012** – 1082.52 tons of peat-amended material were disposed of at the Ontario Count Landfill in Stanley, NY as non-hazardous VOC-contaminated soil.

This report serves as final documentation of associated handling and disposal activities and provides final closure to 2009 *Dredged Sediment Treatment Pilot Study* IRM Work Plan.

Figures

Location of Sediment Cells/ Piles

Feet
0 250 500 1,000

N

Location of the Pilot Study Sediment Blended Containment Cell, Treatment Cell, and Containment Cell

BASF Corporation
Rensselaer, New York

SCALE	DATE	PROJECT NO.
1:4,300	1/13	60135950

AECOM

Figure Number

1

J:\Indl_Service\Project Files\BASF-0760\Rensaleer NY\GIS\2012GIS\MXD\StockpileMap_52212.mxd

Appendix A

Containment Cell Disposal Documents

Generator's Nonhazardous Waste Profile Sheet

WASTE MANAGEMENT

Requested Disposal Facility _____ Profile Number

☐ Renewal for Profile Number _____ Waste Approval Expiration Date _____

A. Waste Generator Facility Information (must reflect location of waste generation/origin)

1. Generator Name: BASF Corporation
2. Site Address: 36 Riverside Avenue
3. City/ZIP: Rensselaer
4. State: New York
5. County: Rensselaer
6. Contact Name/Title: Wayne St. Clair (Engineer)
7. Email Address: wayne.stclair@basf.com
8. Phone: 518-465-6534 9. FAX: 518-465-7095
10. NAICS Code: 562910
11. Generator USEPA ID #: NYD093249688
12. State ID# (if applicable): NA

B. Customer Information ☐ same as above

P. O. Number: 647578

1. Customer Name: AECOM
2. Billing Address: 2 Technology Park Drive
3. City, State and ZIP: Westford, MA 01886
4. Contact Name: Sean Crowell
5. Contact Email: sean.crowell@aecom.com
6. Phone: 978-589-3165 FAX: 978-589-3705
7. Transporter Name: _____
8. Transporter ID # (if appl.): _____
9. Transporter Address: _____
10. City, State and ZIP: _____

C. Waste Stream Information

1. DESCRIPTION

a. Common Waste Name: Non Hazardous - VOC contaminated soil
State Waste Code(s): NA

b. Describe Process Generating Waste or Source of Contamination:

Material was dredged from Hudson River, original source is various operations resulting from the sites former use as a production facility.

c. Typical Color(s): Grey, Brown

d. Strong Odor? ☑ Yes ☐ No Describe: Solvent odor, measures are being applied to control.

e. Physical State at 70°F: ☑ Solid ☐ Liquid ☐ Powder ☐ Semi-Solid or Sludge ☐ Other: _____

f. Layers? ☑ Single layer ☐ Multi- layer ☐ NA

g. Water Reactive? ☐ Yes ☑ No If Yes, Describe: _____

h. Free Liquid Range (%): 1 to 5 ☐ NA(solid)

i. pH Range: ☐ ≤2 ☐ 2.1-12.4 ☐ ≥12.5 ☐ NA(solid) ☑ Actual: 8.35

j. Liquid Flash Point: ☐ < 140°F ☑ ≥ 140°F ☐ NA(solid) ☐ Actual: _____

k. Flammable Solid: ☐ Yes ☑ No

l. Physical Constituents: List all constituents of waste stream - (e.g. Soil 0-80%, Wood 0-20%): ☑ (See Attached)

Constituents *(Total Composition Must be > 100%)*	Lower Range	Unit of Measure	Upper Range	Unit of Measure
1. Soil	95	%	100	%
2. HDPE and Fabrick Liner	0	%	5	%
3.				
4.				
5.				
6.				

2. ESTIMATED QUANTITY OF WASTE AND SHIPPING INFORMATION

a. ☐ One Time Event ☐ Base ☑ Repeat Event

b. Estimated Annual Quantity: 1,000 ☐ Tons ☑ Cubic Yards ☐ Drums ☐ Gallons ☐ Other (specify): _____

c. Shipping Frequency: 1 to 2 Units per ☑ Month ☐ Quarter ☐ Year ☐ One Time ☐ Other

d. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If yes, answer e.) ☐ Yes ☑ No

e. USDOT Shipping Description (if applicable): _____

3. SAFETY REQUIREMENTS (Handling, PPE, etc.): _____

Generator's Nonhazardous Waste Profile Sheet

D. Regulatory Status (Please check appropriate responses)

1. Is this a USEPA (40 CFR Part 261)/State hazardous waste? If yes, contact your sales representative. ☐ Yes ☑ No
2. Is this waste included in one or more of categories below (Check all that apply)? If yes, attach supporting documentation. ☐ Yes ☑ No
   - ☐ Delisted Hazardous Waste
   - ☐ Excluded Wastes Under 40 CFR 261.4
   - ☐ Treated Hazardous Waste Debris
   - ☐ Treated Characteristic Hazardous Waste
3. Is the waste from a Federal (40 CFR 300, Appendix B) or state mandated clean-up? If yes, see instructions. ☑ Yes ☐ No
4. Does the waste represented by this waste profile sheet contain radioactive material? ☐ Yes ☑ No
   a. If yes, is disposal regulated by the Nuclear Regulatory Commission? ☐ Yes ☐ No
   b. If yes, is disposal regulated by a State Agency for radioactive waste/NORM? ☐ Yes ☐ No
5. Does the waste represented by this waste profile sheet contain concentrations of regulated Polychlorinated Biphenyls (PCBs)? ☑ Yes ☐ No
   a. If yes, is disposal regulated under TSCA? ☐ Yes ☑ No
6. Does the waste contain untreated, regulated, medical or infectious waste? ☐ Yes ☑ No
7. Does the waste contain asbestos? ☐ Yes ☑ No If Yes, ☐ Friable ☐ Non Friable
8. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)? ☐ Yes ☑ No
   If yes, does the waste contain <500 ppmw VOHAPs at the point of determination? ☐ Yes ☐ No

E. Generator Certification (Please read and certify by signature below)

By signing this Generator's Waste Profile Sheet, I hereby certify that all:

1. Information submitted in this profile and all attached documents contain true and accurate descriptions of the waste material;
2. Relevant information within the possession of the Generator regarding known or suspected hazards pertaining to this waste has been disclosed to WM/the Contractor;
3. Analytical data attached pertaining to the profiled waste was derived from testing a representative sample in accordance with 40 CFR 261.20(c) or equivalent rules; and
4. Changes that occur in the character of the waste (i.e. changes in the process or new analytical) will be identified by the Generator and disclosed to WM (and the Contractor if applicable) prior to providing the waste to WM (and the Contractor if applicable).
5. Check all that apply:
   - ☑ Attached analytical pertains to the waste. Identify laboratory & sample ID #'s and parameters tested: S1 (9030 Sulfide, 8260 VOC's, Semi VOC's GC/MS, DRO 8015, SW 846 metals, TCLP), S1-2 (TCLP) # Pages: 72
   - ☐ Only the analyses identified on the attachment pertain to the waste (identify by laboratory & sample ID #'s and parameters tested). Attachment #: _____
   - ☐ Additional information necessary to characterize the profiled waste has been attached (other than analytical). Indicate the number of attached pages: _____
   - ☐ I am an agent signing on behalf of the Generator, and the delegation of authority to me from the Generator for this signature is available upon request.
   - ☑ By Generator process knowledge, the following waste is not a listed waste and is below all TCLP regulatory limits.

Certification Signature: Wayne St. Clair **Title:** Engineer

Company Name: BASF Corporation **Name (Print):** Wayne St. Clair

Date: 9/17/10

FOR WM USE ONLY

Management Method: ☐ Landfill ☐ Bioremediation ☐ Non-hazardous solidification ☐ Other: _____

Approval Decision: ☐ Approved ☐ Not Approved

Waste Approval Expiration Date: _____

Management Facility Precautions, Special Handling Procedures or Limitation on approval:

_____

_____

- ☐ Shall not contain free liquid
- ☐ Shipment must be scheduled into disposal facility
- ☐ Approval Number must accompany each shipment
- ☐ Waste Manifest must accompany load

WM Authorization Name / Title: _____ **Date:** _____

State Authorization (if Required): _____ **Date:** _____

WASTE MANAGEMENT

EXHIBIT A

SITE: High Acres Landfill **PROFILE** 106169NY

Billing Customer Information	Job Site Contact Information	Service Location (Generator)
AECOM	AECOM	BASF Corporation
2 Technology Park Drive	2 Technology Park Drive	36 Riverside Avenue
Westford MA 01886	Westford MA 01886	Rensselaer NY 12144
Sean Crowell	Sean Crowell	Wayne St. Clair
Phone (978) 589-3165	Phone (978) 589-3165	Phone (518) 465-6534
Fax (978) 589-3705	Fax (978) 589-3705	Fax (518) 465-6534
sean.crowell@aecom.com	sean.crowell@aecom.com	wayne.stclair@basf.com
PO Required YES	PO Number 647578	

Sales Contacts

WM Contact:	David Porter	**WM Customer Service Phone:**	(716) 286-0405	**WM Contact Fax:**	(716) 286-0211
WM Sales Rep:	Sue Rossi	**Sales Rep ID**	2442		

SERVICE INFORMATION

Material / Volume:	NH - VOC Contaminated Soil		1500	Ton	Direct Landfill	Non Haz	
NH - VOC Contaminated Soil	$45.00 per	Ton with	5	Ton Minimum Per Load			
Disposal Surcharge	Varies weekly			Current rate at time of quote is	4.38%		
Environmental Fee	7.50%			Applied to Invoice Total			
Disp Tax 1	On Disposal	8.0	Per %	On Transportation	8.0	per %	
Dumps	$36.50 per	Ton with	22 Ton Minimum Per Load	Applied to			
Transportation Fuel Surcharge	Subject to change weekly			Current rate at time of quote is	26.00%		
Demurrage	$85.00 Hour	/ after	1 Hour Free Loading				
Service Agreement Expiration	National Account						
PROFILE EXPIRATION DATE							
	Pricing is subject to an annual CPI						

Additional Information:

Waste will be disposed of at High Acres Landfill
TECHNICAL SERVICE CENTER 800-843-3604
All profiled wastes must be called into the receiving facility's Scalehouse 24 hours prior to shipping.
All loads must have 4 part bill of lading or manifest with approved profile number clearly marked on the paperwork.

High Acres Scale (585) 223-6132 X236

THE WORK CONTEMPLATED BY THIS EXHIBIT A IS TO BE DONE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE INDUSTRIAL WASTE & DISPOSAL SERVICES AGREEMENT BETWEEN THE PARTIES DATED: National Account

COMPANY: Waste Management of NY, LLC

By: _____ 9/21/10
Name: David Porter Date
Title: Technical Service Representative

COMPANY: AECOM

By: _____ 9/21/10
Name: Sean Crowell Date
Title: Engineer

TestAmerica Laboratories, Inc.

June 18, 2010

Mr. Paul Morrow
TestAmerica, Inc.
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Re: Laboratory Project No. 29000
Case: AECOM; SDG: RTF0916

Dear Mr. Morrow:

Enclosed are the analytical results for the samples that were received by TestAmerica Burlington on June 15th, 2010. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 06/15/10 ETR No: 137737		
832701	RTF0916-01	05/11/10	SOLID

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

Acid Soluble Sulfide
The Solid matrix spike/matrix spike duplicate analyses performed on sample, RTF0916-01 yielded a low recovery (72%) of Acid Soluble Sulfide that was outside the established control criteria (75-125%) indicating a potential problem due to the sample matrix itself.

Any reference within this report to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.) The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 660-1990.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sincerely,

Joseph Carabillo
Project Manager

cc:

Continuation...

TestAmerica Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: SW-846: The relative percent difference for detected concentrations between two GC columns is greater than 40%. Unless otherwise specified the higher of the two values is reported on the Form I.

CLP SOW: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

*: Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P	ICP-AES
MS	ICP-MS
CV	Cold Vapor AA
AS	Semi-Automated Spectrophotometric

FQA009:02.18.08:4
TestAmerica Burlington

WET CHEMISTRY

Sample Report Summary

Client Sample No.
RTF0916-01

Lab Name: TestAmerica Burlington
Contract: RTF0916
SDG No.: RTF0916

Lab Code: TALVT
Case No.: AECOM
Lab Sample ID: 832701

Matrix: SOLID
Client: STLNYB
Date Received: 06/15/10

% Solids: 56.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
9030B/9034	Acid Soluble Sulfide	06/16/10	BLKSU061610A	mg/Kg	1	26.9	26.9	
IN623	Solids, Percent	06/15/10		%	1	0.10	56.0	

Printed on: 06/17/10 11:01 AM

WET CHEMISTRY

Method Blank Report Summary

Lab Name: TestAmerica Burlington **Contract:** RTF0916 **SDG No.:** RTF0916

Lab Code: TALVT **Case No.:** AECOM

Matrix: SOIL **Client:** STLNYB

% Solids:

Lab Sample ID	Method	Parameter	Conc.	Units	Qual.	DF	RL	Analytical Run Date	Analytical Batch
BLKSU061610A	9030B/9034	Acid Soluble Sulfide	16.0	mg/Kg	U	1	16.0	06/16/10	BLKSU061610A

Printed on: 06/17/10 11:01 AM

WET CHEMISTRY

Matrix Spike Sample Report Summary

Client Sample No.: RTF0916-01MS

Lab Name: TestAmerica Burlington | Contract: RTF0916 | SDG No.: RTF0916

Lab Code: TALVT | Case No.: AECOM | Lab Sample ID: 832701MS

Matrix: SOLID | Client: STLNYB | Date Received: 06/15/10

% Solids: 56.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Matrix Spike Result Conc.	Qual.	Sample Result Conc.	Qual.	Spike Added	% Rec.	Control Limit
9030B/9034	Acid Soluble Sulfide	06/16/10	BLKSU061610A	mg/Kg	316		26.9		401	72	75-125

Printed on: 06/17/10 11:01 AM

WET CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.
RTF0916-01REP

Lab Name: TestAmerica Burlington | Contract: RTF0916 | SDG No.: RTF0916

Lab Code: TALVT | Case No.: AECOM | Lab Sample ID: 832701DP

Matrix: SOLID | Client: STLNYB | Date Received: 06/15/10

% Solids: 56.0

Method	Parameter	Analytical Run Date	Analytical Batch	Units	Sample Result Conc.	Sample Result Qual.	Duplicate Sample Result Conc.	Duplicate Sample Result Qual.	RPD[1]
9030B/9034	Acid Soluble Sulfide	06/16/10	BLKSU061610A	mg/Kg	26.9		28.0		4

1 - Control Limit for RPD is +/- 20%, unless otherwise specified.

Printed on: 06/17/10 11:01 AM

WET CHEMISTRY

Laboratory Control Sample Report Summary

Lab Name: TestAmerica Burlington **Contract:** RTF0916 **SDG No.:** RTF0916

Lab Code: TALVT **Case No.:** AECOM

Matrix: SOIL **Client:** STLNYB

% Solids:

Lab Sample ID	Method	Parameter	Analytical Run Date	Analytical Batch	Units	LCS Conc.	True Value	% Rec.	Control Limit
LCSSU061610A	9030B/9034	Acid Soluble Sulfide	06/16/10	BLKSU061610A	mg/Kg	232	228	102	75-125

Printed on: 06/17/10 11:01 AM

SUBCONTRACT ORDER
TestAmerica Buffalo

RTF0916

SENDING LABORATORY:

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716-691-2600
Fax: 716-691-7991
Project Manager: Paul Morrow
Client: AECOM - Latham, NY

RECEIVING LABORATORY:

TestAmerica Burlington
30 Community Drive; Suite 11
S. Burlington, VT 05403
Phone :(802) 655-1203
Fax: (802) 655-1248
Project Location: NY - NEW YORK
Receipt Temperature: 2.7 °C Ice: (Y) / N

Report: Level 2 Report

Copy/Relog from RTE0590. Added via Bottle Orders by PKM 05/10/10 13:07

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: RTF0916-01 (S1 - Solid)			Sampled: **05/11/10 14:00**			
WC - ~~Sulfate 9038~~	mg/kg	06/18/10	06/08/10 14:00	$25.00	60%	
Containers Supplied:						

SULFIDE BY 9030

CALL PAUL MORROW

716 - 504 - 9814

Released By	Date/Time	Received By	Date/Time
[signature]	6/14/10 1400	[signature]	6/15/10 1027
Released By	Date/Time	Received By	Date/Time

Page 1 of 1

WORK ORDER LOGIN REVIEW

Printed: 6/14/2010 5:39:16PM

RTF0916

TestAmerica Buffalo

AECOM - Latham, NY

ample	Client ID	Sample Alias	Sample Date/Time	Received Date/Time	QC Sample	Storage Number
TF0916-01	S1	S1	05/11/10 14:00	06/14/10 17:27	False	17665

Reviewed By

Date

TestAmerica Burlington
SAMPLE RECEIPT & LOG IN CHECKLIST

Client: STLNUS	Date Received: 06/15/10	Log In Date: 06/15/10
ETR: 137737	Time Received: 1027	By: CR
SDG: RTF0916	Received By: CR	Signature:
Project: 29000	# Coolers Received: 1	PM Signature:
Samples Delivered By: X Shipping Service ☐ Courier ☐ Hand ☐ Other (specify)		Date: 6/16/10
List Air bill Number(s) or Attach a photocopy of the Air Bill:		

COOLER SCREEN	YES	NO	NA	COMMENTS
There is *no* evidence to indicate tampering	X			
Custody seals are present and intact	X			
Custody seal numbers are present	X			
If yes, list custody seal numbers: 619499				

Thermal Preservation Type: X Wet Ice ☐ Blue Ice ☐ None ☐ Other (specify)

IR Gun ID: 96 Correction Factor (CF) = -2 °C

Cooler 1: 2.7	°C	Cooler 6	°C	Cooler 11	°C	Cooler 16	°C
Cooler 2:	°C	Cooler 7	°C	Cooler 12	°C	Cooler 17	°C
Cooler 3:	°C	Cooler 8	°C	Cooler 13	°C	Cooler 18	°C
Cooler 4:	°C	Cooler 9	°C	Cooler 14	°C	Cooler 19	°C
Cooler 5	°C	Cooler 10	°C	Cooler 15	°C	Cooler 20	°C

Unless otherwise documented, the recorded temperature readings are adjusted readings to account for the CF of the IR Gun

EPA Criteria: 0-6°C, except for air and geo samples which should be at ambient temperature and tissue samples, which may be frozen.

Some clients require thermal preservation criteria of 2-4°C or other such criteria. The PM must notify SM when alternate criteria is specified.

SAMPLE CONDITION	YES	NO	NA	COMMENTS
Sample containers were received intact	X			
Legible sample labels are affixed to each container	X			

CHAIN OF CUSTODY (COC)	YES	NO	NA	COMMENTS
COC is present and includes the following information for each container:				
- Sample ID / Sample Description	X			
- Date of Sample Collection	X			
- Time of Sample Collection	X			
- Identification of the Sampler		X		
- Preservation Type		X		
- Requested Tests Method(s)	X			
- Necessary Signatures	X			
Internal Chain of Custody (ICOC) Required		X		
If yes to above, ICOC Record initiated for every Worksheet			X	

SAMPLE INTEGRITY / USABILITY	YES	NO	NA	COMMENTS
The sample container matches the COC	X			
Appropriate sample containers were received for the tests requested	X			
Samples were received within holding time	X			
Sufficient amount of sample is provided for requested analyses	X			
VOA vials do not have headspace or a bubble >6mm (1/4" diameter)			X	
Appropriate preservatives were used for the tests requested			X	
pH of inorganic samples checked and is within method specification			X	
If no, attach Inorganic Sample pH Adjustment Form			X	

ANOMALY / NCR SUMMARY

FSR002:12.19.07:3
TestAmerica Burlington

Analytical Report

Work Order: RTE1193

Project Description

BASF Waste Characterization

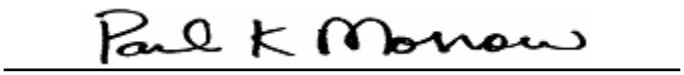
For:

Frank Zeske

AECOM - Latham, NY

40 British American Blvd

Latham, NY 12110



Paul Morrow

Project Manager

Paul.Morrow@testamericainc.com

Friday, May 28, 2010

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE1193

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/24/10
Reported: 05/28/10 15:54

TestAmerica Buffalo
Current Certifications

As of 04/16/2010

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
North Dakota	CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania*	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington*	NELAP CWA,RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA,RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE1193

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/24/10
Reported: 05/28/10 15:54

CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE1193

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/24/10
Reported: 05/28/10 15:54

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
D08	Dilution required due to high concentration of target analyte(s)
D12	Dilution required due to sample viscosity
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M4	The sample required a dilution due to matrix interference. Because of this dilution, the matrix spike concentrations in the sample were reduced to a level where the recovery calculation does not provide useful information. See Blank Spike (LCS).
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
W1	Sample was prepared and analyzed utilizing a medium level extraction.
Z3	The sample required a dilution, the surrogate spike concentration in the sample are reduced to a level where the recovery calculation does not provide useful information.
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE1193

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/24/10
Reported: 05/28/10 15:54

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE1193-01 (S1 - Solid)						**Sampled: 05/11/10 14:00**		**Recvd: 05/12/10 09:00**		
Volatile Organic Compounds by EPA 8260B										
1,2,4-Trichlorobenzene	**220000**	D08, W1	5200	2000	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,2-Dichlorobenzene	**480000**	D08, W1	5200	1300	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,3-Dichlorobenzene	**17000**	D08, W1	5200	1400	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,4-Dichlorobenzene	**60000**	D08, W1	5200	730	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Chlorobenzene	**170000**	D08, W1	5200	680	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Xylenes, total	**3000**	D08, W1,J	10000	870	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Semivolatile Organics by GC/MS										
Biphenyl	**68000**	D12,J	110000	6800	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
N-Nitrosodiphenylamine	**120000**	D12	110000	5900	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Diesel Range Organics by 8015M										
Diesel range organics	**2200**	D08,B	220	65	mg/kg dry	10.0	05/25/10 09:34	GFD	10E1906	8015
Total Metals by SW 846 Series Methods										
Arsenic	**36.0**		2.7	0.3	mg/kg dry	1.00	05/26/10 03:35	DAN	10E1957	6010B
Barium	**75.3**	B	0.665	0.013	mg/kg dry	1.00	05/26/10 03:35	DAN	10E1957	6010B
Cadmium	**1.16**		0.266	0.040	mg/kg dry	1.00	05/26/10 03:35	DAN	10E1957	6010B
Chromium	**81.4**		0.665	0.120	mg/kg dry	1.00	05/26/10 03:35	DAN	10E1957	6010B
Lead	**144**		1.3	0.2	mg/kg dry	1.00	05/26/10 03:35	DAN	10E1957	6010B
Silver	**0.157**	J	0.665	0.093	mg/kg dry	1.00	05/26/10 03:35	DAN	10E1957	6010B
Mercury	**4.89**	D08	0.263	0.106	mg/kg dry	10.0	05/26/10 15:58	MXM	10E2035	7471A
General Chemistry Parameters										
Percent Solids	**75**		0.010	NR	%	1.00	05/25/10 12:50	JRR	10E1945	Dry Weight

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE1193

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/24/10
Reported: 05/28/10 15:54

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
S1	RTE1193-01	Solid	05/11/10 14:00	05/24/10 13:10	

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE1193

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/24/10
Reported: 05/28/10 15:54

Analytical Report

Sample ID: RTE1193-01 (S1 - Solid) — **Sampled: 05/11/10 14:00** — **Recvd: 05/12/10 09:00**

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND	D08, W1	5200	1400	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,1,2,2-Tetrachloroethane	ND	D08, W1	5200	840	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,1,2-Trichloroethane	ND	D08, W1	5200	1100	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,1,2-Trichlorotrifluoroethane	ND	D08, W1	5200	2600	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,1-Dichloroethane	ND	D08, W1	5200	1600	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,1-Dichloroethene	ND	D08, W1	5200	1800	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,2,4-Trichlorobenzene	**220000**	D08, W1	5200	2000	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,2-Dibromo-3-chloropropane	ND	D08, W1	5200	2600	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,2-Dibromoethane (EDB)	ND	D08, W1	5200	200	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,2-Dichlorobenzene	**480000**	D08, W1	5200	1300	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,2-Dichloroethane	ND	D08, W1	5200	2100	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,2-Dichloroethene, Total	ND	D08, W1	10000	2700	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,2-Dichloropropane	ND	D08, W1	5200	840	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,3-Dichlorobenzene	**17000**	D08, W1	5200	1400	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,4-Dichlorobenzene	**60000**	D08, W1	5200	730	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
2-Butanone (MEK)	ND	D08, W1	26000	15000	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
2-Hexanone	ND	D08, W1	26000	11000	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
4-Methyl-2-pentanone (MIBK)	ND	D08, W1	26000	1700	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Acetone	ND	D08, W1	26000	21000	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Benzene	ND	D08, W1	5200	250	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Bromodichloromethane	ND	D08, W1	5200	1000	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Bromoform	ND	D08, W1	5200	2600	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Bromomethane	ND	D08, W1	5200	1100	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Carbon disulfide	ND	D08, W1	5200	2400	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Carbon Tetrachloride	ND	D08, W1	5200	1300	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Chlorobenzene	**170000**	D08, W1	5200	680	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Chlorodibromomethane	ND	D08, W1	5200	2500	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Chloroethane	ND	D08, W1	5200	1100	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Chloroform	ND	D08, W1	5200	3600	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Chloromethane	ND	D08, W1	5200	1200	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
cis-1,2-Dichloroethene	ND	D08, W1	5200	1400	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
cis-1,3-Dichloropropene	ND	D08, W1	5200	1200	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Cyclohexane	ND	D08, W1	5200	1200	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Dichlorodifluoromethane	ND	D08, W1	5200	2300	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Ethylbenzene	ND	D08, W1	5200	1500	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Isopropylbenzene	ND	D08, W1	5200	780	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Methyl Acetate	ND	D08, W1	5200	2500	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Methyl tert-Butyl Ether	ND	D08, W1	5200	2000	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Methylcyclohexane	ND	D08, W1	5200	2400	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Methylene Chloride	ND	D08, W1	5200	1000	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Styrene	ND	D08, W1	5200	1200	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Tetrachloroethene	ND	D08, W1	5200	700	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Toluene	ND	D08, W1	5200	1400	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
trans-1,2-Dichloroethene	ND	D08, W1	5200	1200	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
trans-1,3-Dichloropropene	ND	D08, W1	5200	250	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Trichloroethene	ND	D08, W1	5200	1400	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE1193

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/24/10
Reported: 05/28/10 15:54

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE1193-01 (S1 - Solid) - cont.							**Sampled: 05/11/10 14:00**		**Recvd: 05/12/10 09:00**	
Volatile Organic Compounds by EPA 8260B - cont.										
Trichlorofluoromethane	ND	D08, W1	5200	2400	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Vinyl chloride	ND	D08, W1	5200	1700	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
Xylenes, total	**3000**	D08, W1,J	10000	870	ug/kg dry	40.0	05/25/10 00:27	NMD	10E1915	8260B
1,2-Dichloroethane-d4	*102 %*	*D08, W1*	*Surr Limits: (53-146%)*				*05/25/10 00:27*	*NMD*	*10E1915*	*8260B*
4-Bromofluorobenzene	*115 %*	*D08, W1*	*Surr Limits: (49-148%)*				*05/25/10 00:27*	*NMD*	*10E1915*	*8260B*
Toluene-d8	*112 %*	*D08, W1*	*Surr Limits: (50-149%)*				*05/25/10 00:27*	*NMD*	*10E1915*	*8260B*
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND	D12	110000	24000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
2,4,6-Trichlorophenol	ND	D12	110000	7200	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
2,4-Dichlorophenol	ND	D12	110000	5700	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
2,4-Dimethylphenol	ND	D12	110000	29000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
2,4-Dinitrophenol	ND	D12	210000	38000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
2,4-Dinitrotoluene	ND	D12	110000	17000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
2,6-Dinitrotoluene	ND	D12	110000	27000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
2-Chloronaphthalene	ND	D12	110000	7300	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
2-Chlorophenol	ND	D12	110000	5500	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
2-Methylnaphthalene	ND	D12	110000	1300	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
2-Methylphenol	ND	D12	110000	3300	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
2-Nitroaniline	ND	D12	210000	35000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
2-Nitrophenol	ND	D12	110000	5000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
3,3'-Dichlorobenzidine	ND	D12	110000	95000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
3-Nitroaniline	ND	D12	210000	25000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
4,6-Dinitro-2-methylphenol	ND	D12	210000	38000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
4-Bromophenyl phenyl ether	ND	D12	110000	35000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
4-Chloro-3-methylphenol	ND	D12	110000	4500	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
4-Chloroaniline	ND	D12	110000	32000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
4-Chlorophenyl phenyl ether	ND	D12	110000	2300	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
4-Methylphenol	ND	D12	210000	6100	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
4-Nitroaniline	ND	D12	210000	12000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
4-Nitrophenol	ND	D12	210000	26000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Acenaphthene	ND	D12	110000	1300	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Acenaphthylene	ND	D12	110000	890	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Acetophenone	ND	D12	110000	5600	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Anthracene	ND	D12	110000	2800	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Atrazine	ND	D12	110000	4800	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Benzaldehyde	ND	D12	110000	12000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Benzo[a]anthracene	ND	D12	110000	1900	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Benzo[a]pyrene	ND	D12	110000	2600	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Benzo[b]fluoranthene	ND	D12	110000	2100	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Benzo[g,h,i]perylene	ND	D12	110000	1300	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Benzo[k]fluoranthene	ND	D12	110000	1200	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Biphenyl	**68000**	D12,J	110000	6800	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Bis(2-chloroethoxy)methane	ND	D12	110000	5900	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Bis(2-chloroethyl)ether	ND	D12	110000	9400	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Bis(2-chloroisopropyl) ether	ND	D12	110000	11000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C

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Work Order: RTE1193

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/24/10
Reported: 05/28/10 15:54

Analytical Report

Sample ID: RTE1193-01 (S1 - Solid) - cont. **Sampled: 05/11/10 14:00** **Recvd: 05/12/10 09:00**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Semivolatile Organics by GC/MS - cont.										
Bis(2-ethylhexyl) phthalate	ND	D12	110000	35000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Butyl benzyl phthalate	ND	D12	110000	29000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Caprolactam	ND	D12	110000	47000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Carbazole	ND	D12	110000	1300	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Chrysene	ND	D12	110000	1100	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Dibenz[a,h]anthracene	ND	D12	110000	1300	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Dibenzofuran	ND	D12	110000	1100	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Diethyl phthalate	ND	D12	110000	3300	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Dimethyl phthalate	ND	D12	110000	2800	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Di-n-butyl phthalate	ND	D12	110000	38000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Di-n-octyl phthalate	ND	D12	110000	2500	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Fluoranthene	ND	D12	110000	1600	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Fluorene	ND	D12	110000	2500	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Hexachlorobenzene	ND	D12	110000	5400	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Hexachlorobutadiene	ND	D12	110000	5600	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Hexachlorocyclopentadiene	ND	D12	110000	33000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Hexachloroethane	ND	D12	110000	8400	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Indeno[1,2,3-cd]pyrene	ND	D12	110000	3000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Isophorone	ND	D12	110000	5400	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Naphthalene	ND	D12	110000	1800	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Nitrobenzene	ND	D12	110000	4800	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
N-Nitrosodi-n-propylamine	ND	D12	110000	8600	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
N-Nitrosodiphenylamine	**120000**	D12	110000	5900	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Pentachlorophenol	ND	D12	210000	37000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Phenanthrene	ND	D12	110000	2300	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Phenol	ND	D12	110000	11000	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
Pyrene	ND	D12	110000	700	ug/kg dry	500	05/28/10 01:55	MKP	10E1905	8270C
2,4,6-Tribromophenol	*	*D12,Z3*	*Surr Limits: (39-146%)*				*05/28/10 01:55*	*MKP*	*10E1905*	*8270C*
2-Fluorobiphenyl	*80 %*	*D12,Z3*	*Surr Limits: (37-120%)*				*05/28/10 01:55*	*MKP*	*10E1905*	*8270C*
2-Fluorophenol	*57 %*	*D12,Z3*	*Surr Limits: (18-120%)*				*05/28/10 01:55*	*MKP*	*10E1905*	*8270C*
Nitrobenzene-d5	*90 %*	*D12,Z3*	*Surr Limits: (34-132%)*				*05/28/10 01:55*	*MKP*	*10E1905*	*8270C*
Phenol-d5	*73 %*	*D12,Z3*	*Surr Limits: (11-120%)*				*05/28/10 01:55*	*MKP*	*10E1905*	*8270C*
p-Terphenyl-d14	*100 %*	*D12,Z3*	*Surr Limits: (58-147%)*				*05/28/10 01:55*	*MKP*	*10E1905*	*8270C*
Diesel Range Organics by 8015M										
Diesel range organics	**2200**	D08,B	220	65	mg/kg dry	10.0	05/25/10 09:34	GFD	10E1906	8015
o-Terphenyl	*	*D08,Z3*	*Surr Limits: (46-148%)*				*05/25/10 09:34*	*GFD*	*10E1906*	*8015*
Total Metals by SW 846 Series Methods										
Arsenic	**36.0**		2.7	0.3	mg/kg dry	1.00	05/26/10 03:35	DAN	10E1957	6010B
Barium	**75.3**	B	0.665	0.013	mg/kg dry	1.00	05/26/10 03:35	DAN	10E1957	6010B
Cadmium	**1.16**		0.266	0.040	mg/kg dry	1.00	05/26/10 03:35	DAN	10E1957	6010B
Chromium	**81.4**		0.665	0.120	mg/kg dry	1.00	05/26/10 03:35	DAN	10E1957	6010B
Lead	**144**		1.3	0.2	mg/kg dry	1.00	05/26/10 03:35	DAN	10E1957	6010B
Selenium	ND		5.3	0.5	mg/kg dry	1.00	05/26/10 03:35	DAN	10E1957	6010B
Silver	**0.157**	J	0.665	0.093	mg/kg dry	1.00	05/26/10 03:35	DAN	10E1957	6010B
Mercury	**4.89**	D08	0.263	0.106	mg/kg dry	10.0	05/26/10 15:58	MXM	10E2035	7471A

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Project: BASF Waste Characterization
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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE1193-01 (S1 - Solid) - cont.						**Sampled: 05/11/10 14:00**		**Recvd: 05/12/10 09:00**		
General Chemistry Parameters										
Percent Solids	**75**		0.010	NR	%	1.00	05/25/10 12:50	JRR	10E1945	Dry Weight

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SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
Diesel Range Organics by 8015M									
8015	10E1906	RTE1193-01	30.42	g	1.00	mL	05/24/10 17:00	LTT	3550B GC
General Chemistry Parameters									
Dry Weight	10E1945	RTE1193-01	10.00	g	10.00	g	05/25/10 09:13	JRR	Dry Weight
Semivolatile Organics by GC/MS									
8270C	10E1905	RTE1193-01	30.88	g	1.00	mL	05/24/10 17:00	LTT	3550B MB
Total Metals by SW 846 Series Methods									
6010B	10E1957	RTE1193-01	0.50	g	50.00	mL	05/25/10 12:30	JRK	3050B
7471A	10E2035	RTE1193-01	0.61	g	50.00	mL	05/26/10 13:30	MXM	7471A_
Volatile Organic Compounds by EPA 8260B									
8260B	10E1915	RTE1193-01	5.12	g	500.00	mL	05/24/10 19:41	NMD	Methanol Prep

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 05/24/10 (Lab Number:10E1915-BLK1, Batch: 10E1915)											
1,1,1-Trichloroethane			100	28	ug/kg wet	ND					
1,1,2,2-Tetrachloroethane			100	16	ug/kg wet	ND					
1,1,2-Trichloroethane			100	21	ug/kg wet	ND					
1,1,2-Trichlorotrifluoroethane			100	50	ug/kg wet	ND					
1,1-Dichloroethane			100	31	ug/kg wet	ND					
1,1-Dichloroethene			100	35	ug/kg wet	ND					
1,2,4-Trichlorobenzene			100	38	ug/kg wet	ND					
1,2-Dibromo-3-chloropropane			100	50	ug/kg wet	ND					
1,2-Dibromoethane (EDB)			100	3.8	ug/kg wet	ND					
1,2-Dichlorobenzene			100	25	ug/kg wet	ND					
1,2-Dichloroethane			100	41	ug/kg wet	ND					
1,2-Dichloroethene, Total			200	52	ug/kg wet	ND					
1,2-Dichloropropane			100	16	ug/kg wet	ND					
1,3-Dichlorobenzene			100	27	ug/kg wet	ND					
1,4-Dichlorobenzene			100	14	ug/kg wet	ND					
2-Butanone (MEK)			500	300	ug/kg wet	ND					
2-Hexanone			500	200	ug/kg wet	ND					
4-Methyl-2-pentanone (MIBK)			500	32	ug/kg wet	ND					
Acetone			500	410	ug/kg wet	ND					
Benzene			100	4.8	ug/kg wet	ND					
Bromodichloromethane			100	20	ug/kg wet	ND					
Bromoform			100	50	ug/kg wet	ND					
Bromomethane			100	22	ug/kg wet	ND					
Carbon disulfide			100	45	ug/kg wet	ND					
Carbon Tetrachloride			100	25	ug/kg wet	ND					
Chlorobenzene			100	13	ug/kg wet	ND					
Chlorodibromomethane			100	48	ug/kg wet	ND					
Chloroethane			100	21	ug/kg wet	ND					
Chloroform			100	68	ug/kg wet	ND					
Chloromethane			100	24	ug/kg wet	ND					
cis-1,2-Dichloroethene			100	28	ug/kg wet	ND					
cis-1,3-Dichloropropene			100	24	ug/kg wet	ND					
Cyclohexane			100	22	ug/kg wet	ND					
Dichlorodifluoromethane			100	44	ug/kg wet	ND					
Ethylbenzene			100	29	ug/kg wet	ND					

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Project: BASF Waste Characterization
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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 05/24/10 (Lab Number:10E1915-BLK1, Batch: 10E1915)											
Isopropylbenzene			100	15	ug/kg wet	ND					
Methyl Acetate			100	48	ug/kg wet	ND					
Methyl tert-Butyl Ether			100	38	ug/kg wet	ND					
Methylcyclohexane			100	47	ug/kg wet	ND					
Methylene Chloride			100	20	ug/kg wet	63					J
Styrene			100	24	ug/kg wet	ND					
Tetrachloroethene			100	13	ug/kg wet	ND					
Toluene			100	27	ug/kg wet	ND					
trans-1,2-Dichloroethene			100	24	ug/kg wet	ND					
trans-1,3-Dichloropropene			100	4.8	ug/kg wet	ND					
Trichloroethene			100	28	ug/kg wet	ND					
Trichlorofluoromethane			100	47	ug/kg wet	ND					
Vinyl chloride			100	33	ug/kg wet	ND					
Xylenes, total			200	17	ug/kg wet	ND					
Surrogate: 1,2-Dichloroethane-d4					*ug/kg wet*		*111*	*53-146*			
Surrogate: 4-Bromofluorobenzene					*ug/kg wet*		*114*	*49-148*			
Surrogate: Toluene-d8					*ug/kg wet*		*114*	*50-149*			
LCS Analyzed: 05/24/10 (Lab Number:10E1915-BS1, Batch: 10E1915)											
1,1-Dichloroethene		2480	99	34	ug/kg wet	1370	55	54-144			
1,2-Dichloroethene, Total			200	52	ug/kg wet	ND		75-120			
Benzene		2480	99	4.8	ug/kg wet	2850	115	75-131			
Chlorobenzene		2480	99	13	ug/kg wet	3090	125	80-127			
Toluene		2480	99	27	ug/kg wet	2970	120	76-133			
Trichloroethene		2480	99	28	ug/kg wet	2810	114	77-130			
Surrogate: 1,2-Dichloroethane-d4					*ug/kg wet*		*115*	*53-146*			
Surrogate: 4-Bromofluorobenzene					*ug/kg wet*		*120*	*49-148*			
Surrogate: Toluene-d8					*ug/kg wet*		*125*	*50-149*			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
Blank Analyzed: 05/28/10 (Lab Number:10E1905-BLK1, Batch: 10E1905)											
2,4,5-Trichlorophenol			170	36	ug/kg wet	ND					
2,4,6-Trichlorophenol			170	11	ug/kg wet	ND					
2,4-Dichlorophenol			170	8.7	ug/kg wet	ND					
2,4-Dimethylphenol			170	45	ug/kg wet	ND					
2,4-Dinitrophenol			320	58	ug/kg wet	ND					
2,4-Dinitrotoluene			170	26	ug/kg wet	ND					
2,6-Dinitrotoluene			170	40	ug/kg wet	ND					
2-Chloronaphthalene			170	11	ug/kg wet	ND					
2-Chlorophenol			170	8.4	ug/kg wet	ND					
2-Methylnaphthalene			170	2.0	ug/kg wet	ND					
2-Methylphenol			170	5.1	ug/kg wet	ND					
2-Nitroaniline			320	53	ug/kg wet	ND					
2-Nitrophenol			170	7.6	ug/kg wet	ND					
3,3'-Dichlorobenzidine			170	140	ug/kg wet	ND					
3-Nitroaniline			320	38	ug/kg wet	ND					
4,6-Dinitro-2-methylphenol			320	57	ug/kg wet	ND					
4-Bromophenyl phenyl ether			170	53	ug/kg wet	ND					
4-Chloro-3-methylphenol			170	6.8	ug/kg wet	ND					
4-Chloroaniline			170	49	ug/kg wet	ND					
4-Chlorophenyl phenyl ether			170	3.5	ug/kg wet	ND					
4-Methylphenol			320	9.2	ug/kg wet	ND					
4-Nitroaniline			320	18	ug/kg wet	ND					
4-Nitrophenol			320	40	ug/kg wet	ND					
Acenaphthene			170	1.9	ug/kg wet	ND					
Acenaphthylene			170	1.4	ug/kg wet	ND					
Acetophenone			170	8.5	ug/kg wet	ND					
Anthracene			170	4.2	ug/kg wet	ND					
Atrazine			170	7.4	ug/kg wet	ND					
Benzaldehyde			170	18	ug/kg wet	ND					
Benzo[a]anthracene			170	2.9	ug/kg wet	ND					
Benzo[a]pyrene			170	4.0	ug/kg wet	ND					
Benzo[b]fluoranthene			170	3.2	ug/kg wet	ND					
Benzo[g,h,i]perylene			170	2.0	ug/kg wet	ND					
Benzo[k]fluoranthene			170	1.8	ug/kg wet	ND					
Biphenyl			170	10	ug/kg wet	ND					

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
Blank Analyzed: 05/28/10 (Lab Number:10E1905-BLK1, Batch: 10E1905)											
Bis(2-chloroethoxy)methane			170	9.0	ug/kg wet	ND					
Bis(2-chloroethyl)ether			170	14	ug/kg wet	ND					
Bis(2-chloroisopropyl) ether			170	17	ug/kg wet	ND					
Bis(2-ethylhexyl) phthalate			170	53	ug/kg wet	ND					
Butyl benzyl phthalate			170	44	ug/kg wet	ND					
Caprolactam			170	72	ug/kg wet	ND					
Carbazole			170	1.9	ug/kg wet	ND					
Chrysene			170	1.7	ug/kg wet	ND					
Dibenz[a,h]anthracene			170	1.9	ug/kg wet	ND					
Dibenzofuran			170	1.7	ug/kg wet	ND					
Diethyl phthalate			170	5.0	ug/kg wet	ND					
Dimethyl phthalate			170	4.3	ug/kg wet	ND					
Di-n-butyl phthalate			170	57	ug/kg wet	ND					
Di-n-octyl phthalate			170	3.9	ug/kg wet	ND					
Fluoranthene			170	2.4	ug/kg wet	ND					
Fluorene			170	3.8	ug/kg wet	ND					
Hexachlorobenzene			170	8.2	ug/kg wet	ND					
Hexachlorobutadiene			170	8.5	ug/kg wet	ND					
Hexachlorocyclopentadiene			170	50	ug/kg wet	ND					
Hexachloroethane			170	13	ug/kg wet	ND					
Indeno[1,2,3-cd]pyrene			170	4.6	ug/kg wet	ND					
Isophorone			170	8.3	ug/kg wet	ND					
Naphthalene			170	2.8	ug/kg wet	ND					
Nitrobenzene			170	7.3	ug/kg wet	ND					
N-Nitrosodi-n-propylamine			170	13	ug/kg wet	ND					
N-Nitrosodiphenylamine			170	9.0	ug/kg wet	ND					
Pentachlorophenol			320	57	ug/kg wet	ND					
Phenanthrene			170	3.5	ug/kg wet	ND					
Phenol			170	17	ug/kg wet	ND					
Pyrene			170	1.1	ug/kg wet	ND					
Surrogate: 2,4,6-Tribromophenol					*ug/kg wet*		*79*	*39-146*			
Surrogate: 2-Fluorobiphenyl					*ug/kg wet*		*59*	*37-120*			
Surrogate: 2-Fluorophenol					*ug/kg wet*		*51*	*18-120*			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
Blank Analyzed: 05/28/10 (Lab Number:10E1905-BLK1, Batch: 10E1905)											
Surrogate: Nitrobenzene-d5					*ug/kg wet*		*58*	*34-132*			
Surrogate: Phenol-d5					*ug/kg wet*		*58*	*11-120*			
Surrogate: p-Terphenyl-d14					*ug/kg wet*		*80*	*58-147*			
LCS Analyzed: 05/28/10 (Lab Number:10E1905-BS1, Batch: 10E1905)											
2,4,5-Trichlorophenol			170	36	ug/kg wet	ND		59-126			
2,4,6-Trichlorophenol			170	11	ug/kg wet	ND		59-123			
2,4-Dichlorophenol			170	8.6	ug/kg wet	ND		52-120			
2,4-Dimethylphenol			170	45	ug/kg wet	ND		36-120			
2,4-Dinitrophenol			320	58	ug/kg wet	ND		35-146			
2,4-Dinitrotoluene		3260	170	26	ug/kg wet	3180	98	55-125			
2,6-Dinitrotoluene			170	40	ug/kg wet	ND		66-128			
2-Chloronaphthalene			170	11	ug/kg wet	ND		57-120			
2-Chlorophenol		3260	170	8.4	ug/kg wet	2610	80	38-120			
2-Methylnaphthalene			170	2.0	ug/kg wet	ND		47-120			
2-Methylphenol			170	5.1	ug/kg wet	ND		48-120			
2-Nitroaniline			320	53	ug/kg wet	ND		61-130			
2-Nitrophenol			170	7.5	ug/kg wet	ND		50-120			
3,3'-Dichlorobenzidine			170	140	ug/kg wet	ND		48-126			
3-Nitroaniline			320	38	ug/kg wet	ND		61-127			
4,6-Dinitro-2-methylphenol			320	57	ug/kg wet	ND		49-155			
4-Bromophenyl phenyl ether			170	52	ug/kg wet	ND		58-131			
4-Chloro-3-methylphenol		3260	170	6.8	ug/kg wet	2950	91	49-125			
4-Chloroaniline			170	48	ug/kg wet	ND		49-120			
4-Chlorophenyl phenyl ether			170	3.5	ug/kg wet	ND		63-124			
4-Methylphenol			320	9.2	ug/kg wet	ND		50-119			
4-Nitroaniline			320	18	ug/kg wet	ND		63-128			
4-Nitrophenol		3260	320	40	ug/kg wet	3440	106	43-137			
Acenaphthene		3260	170	1.9	ug/kg wet	2870	88	53-120			
Acenaphthylene			170	1.3	ug/kg wet	ND		58-121			
Acetophenone			170	8.5	ug/kg wet	ND		66-120			
Anthracene			170	4.2	ug/kg wet	ND		62-129			
Atrazine			170	7.3	ug/kg wet	ND		73-133			
Benzaldehyde			170	18	ug/kg wet	ND		21-120			
Benzo[a]anthracene			170	2.8	ug/kg wet	ND		65-133			
Benzo[a]pyrene			170	4.0	ug/kg wet	ND		64-127			

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Project: BASF Waste Characterization
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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
LCS Analyzed: 05/28/10 (Lab Number:10E1905-BS1, Batch: 10E1905)											
Benzo[b]fluoranthene			170	3.2	ug/kg wet	ND		64-135			
Benzo[g,h,i]perylene			170	2.0	ug/kg wet	ND		50-152			
Benzo[k]fluoranthene			170	1.8	ug/kg wet	ND		58-138			
Biphenyl			170	10	ug/kg wet	ND		71-120			
Bis(2-chloroethoxy)methane			170	9.0	ug/kg wet	ND		61-133			
Bis(2-chloroethyl)ether			170	14	ug/kg wet	ND		45-120			
Bis(2-chloroisopropyl) ether			170	17	ug/kg wet	ND		44-120			
Bis(2-ethylhexyl) phthalate			170	53	ug/kg wet	ND		61-133			
Butyl benzyl phthalate			170	44	ug/kg wet	ND		61-129			
Caprolactam			170	71	ug/kg wet	ND		54-133			
Carbazole			170	1.9	ug/kg wet	ND		59-129			
Chrysene			170	1.6	ug/kg wet	ND		64-131			
Dibenz[a,h]anthracene			170	1.9	ug/kg wet	ND		54-148			
Dibenzofuran			170	1.7	ug/kg wet	ND		56-120			
Diethyl phthalate			170	5.0	ug/kg wet	ND		66-126			
Dimethyl phthalate			170	4.3	ug/kg wet	ND		65-124			
Di-n-butyl phthalate			170	57	ug/kg wet	ND		58-130			
Di-n-octyl phthalate			170	3.9	ug/kg wet	ND		62-133			
Fluoranthene			170	2.4	ug/kg wet	ND		62-131			
Fluorene			170	3.8	ug/kg wet	ND		63-126			
Hexachlorobenzene			170	8.2	ug/kg wet	ND		60-132			
Hexachlorobutadiene			170	8.4	ug/kg wet	ND		45-120			
Hexachlorocyclopentadiene			170	50	ug/kg wet	ND		31-120			
Hexachloroethane			170	13	ug/kg wet	ND		41-120			
Indeno[1,2,3-cd]pyrene			170	4.6	ug/kg wet	ND		56-149			
Isophorone			170	8.2	ug/kg wet	ND		56-120			
Naphthalene			170	2.7	ug/kg wet	ND		46-120			
Nitrobenzene			170	7.3	ug/kg wet	ND		49-120			
N-Nitrosodi-n-propylamine		3260	170	13	ug/kg wet	2770	85	46-120			
N-Nitrosodiphenylamine			170	9.0	ug/kg wet	ND		20-119			
Pentachlorophenol		3260	320	57	ug/kg wet	3170	98	33-136			
Phenanthrene			170	3.5	ug/kg wet	ND		60-130			
Phenol		3260	170	17	ug/kg wet	2560	79	36-120			
Pyrene		3260	170	1.1	ug/kg wet	3150	97	51-133			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
LCS Analyzed: 05/28/10 (Lab Number:10E1905-BS1, Batch: 10E1905)											
Surrogate: 2,4,6-Tribromophenol					*ug/kg wet*		*91*	*39-146*			
Surrogate: 2-Fluorobiphenyl					*ug/kg wet*		*84*	*37-120*			
Surrogate: 2-Fluorophenol					*ug/kg wet*		*70*	*18-120*			
Surrogate: Nitrobenzene-d5					*ug/kg wet*		*80*	*34-132*			
Surrogate: Phenol-d5					*ug/kg wet*		*80*	*11-120*			
Surrogate: p-Terphenyl-d14					*ug/kg wet*		*88*	*58-147*			
Matrix Spike Analyzed: 05/28/10 (Lab Number:10E1905-MS1, Batch: 10E1905)											
QC Source Sample: RTE1193-01											
2,4,5-Trichlorophenol	ND		110000	24000	ug/kg dry	ND		59-126			D12
2,4,6-Trichlorophenol	ND		110000	7300	ug/kg dry	ND		59-123			D12
2,4-Dichlorophenol	ND		110000	5800	ug/kg dry	ND		52-120			D12
2,4-Dimethylphenol	ND		110000	30000	ug/kg dry	ND		36-120			D12
2,4-Dinitrophenol	ND		220000	39000	ug/kg dry	ND		35-146			D12
2,4-Dinitrotoluene	ND	4350	110000	17000	ug/kg dry	ND		55-125			D12,M4
2,6-Dinitrotoluene	ND		110000	27000	ug/kg dry	ND		66-128			D12
2-Chloronaphthalene	ND		110000	7400	ug/kg dry	9790		57-120			D12,J
2-Chlorophenol	ND	4350	110000	5600	ug/kg dry	ND		38-120			D12,M4
2-Methylnaphthalene	ND		110000	1300	ug/kg dry	ND		47-120			D12
2-Methylphenol	ND		110000	3400	ug/kg dry	ND		48-120			D12
2-Nitroaniline	ND		220000	35000	ug/kg dry	ND		61-130			D12
2-Nitrophenol	ND		110000	5000	ug/kg dry	ND		50-120			D12
3,3'-Dichlorobenzidine	ND		110000	97000	ug/kg dry	ND		48-126			D12
3-Nitroaniline	ND		220000	25000	ug/kg dry	ND		61-127			D12
4,6-Dinitro-2-methylphenol	ND		220000	38000	ug/kg dry	ND		49-155			D12
4-Bromophenyl phenyl ether	ND		110000	35000	ug/kg dry	ND		58-131			D12
4-Chloro-3-methylphenol	ND	4350	110000	4500	ug/kg dry	ND		49-125			D12,M4
4-Chloroaniline	ND		110000	32000	ug/kg dry	ND		49-120			D12
4-Chlorophenyl phenyl ether	ND		110000	2300	ug/kg dry	ND		63-124			D12
4-Methylphenol	ND		220000	6100	ug/kg dry	ND		50-119			D12
4-Nitroaniline	ND		220000	12000	ug/kg dry	ND		63-128			D12
4-Nitrophenol	ND	4350	220000	27000	ug/kg dry	ND		43-137			D12,M4
Acenaphthene	ND	4350	110000	1300	ug/kg dry	ND		53-120			D12,M4
Acenaphthylene	ND		110000	900	ug/kg dry	ND		58-121			D12

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
Matrix Spike Analyzed: 05/28/10 (Lab Number:10E1905-MS1, Batch: 10E1905)											
QC Source Sample: RTE1193-01											
Acetophenone	ND		110000	5700	ug/kg dry	ND		66-120			D12
Anthracene	ND		110000	2800	ug/kg dry	ND		62-129			D12
Atrazine	ND		110000	4900	ug/kg dry	ND		73-133			D12
Benzaldehyde	ND		110000	12000	ug/kg dry	ND		21-120			D12
Benzo[a]anthracene	ND		110000	1900	ug/kg dry	ND		65-133			D12
Benzo[a]pyrene	ND		110000	2700	ug/kg dry	ND		64-127			D12
Benzo[b]fluoranthene	ND		110000	2100	ug/kg dry	ND		64-135			D12
Benzo[g,h,i]perylene	ND		110000	1300	ug/kg dry	ND		50-152			D12
Benzo[k]fluoranthene	ND		110000	1200	ug/kg dry	ND		58-138			D12
Biphenyl	68100		110000	6900	ug/kg dry	63700		71-120			D12,J
Bis(2-chloroethoxy)methane	ND		110000	6000	ug/kg dry	ND		61-133			D12
Bis(2-chloroethyl)ether	ND		110000	9500	ug/kg dry	ND		45-120			D12
Bis(2-chloroisopropyl) ether	ND		110000	12000	ug/kg dry	ND		44-120			D12
Bis(2-ethylhexyl) phthalate	ND		110000	35000	ug/kg dry	ND		61-133			D12
Butyl benzyl phthalate	ND		110000	30000	ug/kg dry	ND		61-129			D12
Caprolactam	ND		110000	48000	ug/kg dry	ND		54-133			D12
Carbazole	ND		110000	1300	ug/kg dry	ND		59-129			D12
Chrysene	ND		110000	1100	ug/kg dry	ND		64-131			D12
Dibenz[a,h]anthracene	ND		110000	1300	ug/kg dry	ND		54-148			D12
Dibenzofuran	ND		110000	1100	ug/kg dry	ND		56-120			D12
Diethyl phthalate	ND		110000	3300	ug/kg dry	ND		66-126			D12
Dimethyl phthalate	ND		110000	2900	ug/kg dry	ND		65-124			D12
Di-n-butyl phthalate	ND		110000	38000	ug/kg dry	ND		58-130			D12
Di-n-octyl phthalate	ND		110000	2600	ug/kg dry	ND		62-133			D12
Fluoranthene	ND		110000	1600	ug/kg dry	ND		62-131			D12
Fluorene	ND		110000	2500	ug/kg dry	ND		63-126			D12
Hexachlorobenzene	ND		110000	5500	ug/kg dry	ND		60-132			D12
Hexachlorobutadiene	ND		110000	5600	ug/kg dry	ND		45-120			D12
Hexachlorocyclopentadiene	ND		110000	33000	ug/kg dry	ND		31-120			D12
Hexachloroethane	ND		110000	8500	ug/kg dry	ND		41-120			D12
Indeno[1,2,3-cd]pyrene	ND		110000	3000	ug/kg dry	ND		56-149			D12
Isophorone	ND		110000	5500	ug/kg dry	ND		56-120			D12
Naphthalene	ND		110000	1800	ug/kg dry	ND		46-120			D12
Nitrobenzene	ND		110000	4900	ug/kg dry	ND		49-120			D12

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
Matrix Spike Analyzed: 05/28/10 (Lab Number:10E1905-MS1, Batch: 10E1905)											
QC Source Sample: RTE1193-01											
N-Nitrosodi-n-propylamine	ND	4350	110000	8700	ug/kg dry	ND		46-120			D12,M4
N-Nitrosodiphenylamine	122000		110000	6000	ug/kg dry	97400		20-119			D12,J
Pentachlorophenol	ND	4350	220000	38000	ug/kg dry	ND		33-136			D12,M4
Phenanthrene	ND		110000	2300	ug/kg dry	ND		60-130			D12
Phenol	ND	4350	110000	12000	ug/kg dry	ND		36-120			D12,M4
Pyrene	ND	4350	110000	710	ug/kg dry	8700	200	51-133			D12,M4,J
Surrogate: 2,4,6-Tribromophenol					*ug/kg dry*			*39-146*			*D12,Z3*
Surrogate: 2-Fluorobiphenyl					*ug/kg dry*		*75*	*37-120*			*D12,Z3*
Surrogate: 2-Fluorophenol					*ug/kg dry*		*77*	*18-120*			*D12,Z3*
Surrogate: Nitrobenzene-d5					*ug/kg dry*		*55*	*34-132*			*D12,Z3*
Surrogate: Phenol-d5					*ug/kg dry*		*80*	*11-120*			*D12,Z3*
Surrogate: p-Terphenyl-d14					*ug/kg dry*		*90*	*58-147*			*D12,Z3*
Matrix Spike Dup Analyzed: 05/28/10 (Lab Number:10E1905-MSD1, Batch: 10E1905)											
QC Source Sample: RTE1193-01											
2,4,5-Trichlorophenol	ND		110000	24000	ug/kg dry	ND		59-126		18	D12
2,4,6-Trichlorophenol	ND		110000	7300	ug/kg dry	ND		59-123		19	D12
2,4-Dichlorophenol	ND		110000	5800	ug/kg dry	ND		52-120		19	D12
2,4-Dimethylphenol	ND		110000	30000	ug/kg dry	ND		36-120		42	D12
2,4-Dinitrophenol	ND		220000	39000	ug/kg dry	ND		35-146		22	D12
2,4-Dinitrotoluene	ND	4350	110000	17000	ug/kg dry	ND		55-125		20	D12,M4
2,6-Dinitrotoluene	ND		110000	27000	ug/kg dry	ND		66-128		15	D12
2-Chloronaphthalene	ND		110000	7400	ug/kg dry	8260		57-120	17	21	D12,J
2-Chlorophenol	ND	4350	110000	5600	ug/kg dry	ND		38-120		25	D12,M4
2-Methylnaphthalene	ND		110000	1300	ug/kg dry	ND		47-120		21	D12
2-Methylphenol	ND		110000	3400	ug/kg dry	ND		48-120		27	D12
2-Nitroaniline	ND		220000	35000	ug/kg dry	ND		61-130		15	D12
2-Nitrophenol	ND		110000	5000	ug/kg dry	ND		50-120		18	D12
3,3'-Dichlorobenzidine	ND		110000	97000	ug/kg dry	ND		48-126		25	D12
3-Nitroaniline	ND		220000	25000	ug/kg dry	ND		61-127		19	D12
4,6-Dinitro-2-methylphenol	ND		220000	38000	ug/kg dry	ND		49-155		15	D12
4-Bromophenyl phenyl ether	ND		110000	35000	ug/kg dry	ND		58-131		15	D12
4-Chloro-3-methylphenol	ND	4350	110000	4500	ug/kg dry	ND		49-125		27	D12,M4

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
Matrix Spike Dup Analyzed: 05/28/10 (Lab Number:10E1905-MSD1, Batch: 10E1905)											
QC Source Sample: RTE1193-01											
4-Chloroaniline	ND		110000	32000	ug/kg dry	ND		49-120		22	D12
4-Chlorophenyl phenyl ether	ND		110000	2300	ug/kg dry	ND		63-124		16	D12
4-Methylphenol	ND		220000	6100	ug/kg dry	ND		50-119		24	D12
4-Nitroaniline	ND		220000	12000	ug/kg dry	ND		63-128		24	D12
4-Nitrophenol	ND	4350	220000	27000	ug/kg dry	ND		43-137		25	D12,M4
Acenaphthene	ND	4350	110000	1300	ug/kg dry	ND		53-120		35	D12,M4
Acenaphthylene	ND		110000	900	ug/kg dry	ND		58-121		18	D12
Acetophenone	ND		110000	5700	ug/kg dry	ND		66-120		20	D12
Anthracene	ND		110000	2800	ug/kg dry	ND		62-129		15	D12
Atrazine	ND		110000	4900	ug/kg dry	ND		73-133		20	D12
Benzaldehyde	ND		110000	12000	ug/kg dry	ND		21-120		20	D12
Benzo[a]anthracene	ND		110000	1900	ug/kg dry	ND		65-133		15	D12
Benzo[a]pyrene	ND		110000	2700	ug/kg dry	ND		64-127		15	D12
Benzo[b]fluoranthene	ND		110000	2100	ug/kg dry	ND		64-135		15	D12
Benzo[g,h,i]perylene	ND		110000	1300	ug/kg dry	ND		50-152		15	D12
Benzo[k]fluoranthene	ND		110000	1200	ug/kg dry	ND		58-138		22	D12
Biphenyl	68100		110000	6900	ug/kg dry	58900		71-120	8	20	D12,J
Bis(2-chloroethoxy)methane	ND		110000	6000	ug/kg dry	ND		61-133		17	D12
Bis(2-chloroethyl)ether	ND		110000	9500	ug/kg dry	ND		45-120		21	D12
Bis(2-chloroisopropyl) ether	ND		110000	12000	ug/kg dry	ND		44-120		24	D12
Bis(2-ethylhexyl) phthalate	ND		110000	35000	ug/kg dry	ND		61-133		15	D12
Butyl benzyl phthalate	ND		110000	30000	ug/kg dry	ND		61-129		16	D12
Caprolactam	ND		110000	48000	ug/kg dry	ND		54-133		20	D12
Carbazole	ND		110000	1300	ug/kg dry	ND		59-129		20	D12
Chrysene	ND		110000	1100	ug/kg dry	ND		64-131		15	D12
Dibenz[a,h]anthracene	ND		110000	1300	ug/kg dry	ND		54-148		15	D12
Dibenzofuran	ND		110000	1100	ug/kg dry	ND		56-120		15	D12
Diethyl phthalate	ND		110000	3300	ug/kg dry	ND		66-126		15	D12
Dimethyl phthalate	ND		110000	2900	ug/kg dry	ND		65-124		15	D12
Di-n-butyl phthalate	ND		110000	38000	ug/kg dry	ND		58-130		15	D12
Di-n-octyl phthalate	ND		110000	2600	ug/kg dry	ND		62-133		16	D12
Fluoranthene	ND		110000	1600	ug/kg dry	ND		62-131		15	D12
Fluorene	ND		110000	2500	ug/kg dry	ND		63-126		15	D12
Hexachlorobenzene	ND		110000	5500	ug/kg dry	ND		60-132		15	D12
Hexachlorobutadiene	ND		110000	5600	ug/kg dry	ND		45-120		44	D12

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
Matrix Spike Dup Analyzed: 05/28/10 (Lab Number:10E1905-MSD1, Batch: 10E1905)											
QC Source Sample: RTE1193-01											
Hexachlorocyclopentadiene	ND		110000	33000	ug/kg dry	ND		31-120		49	D12
Hexachloroethane	ND		110000	8500	ug/kg dry	ND		41-120		46	D12
Indeno[1,2,3-cd]pyrene	ND		110000	3000	ug/kg dry	ND		56-149		15	D12
Isophorone	ND		110000	5500	ug/kg dry	ND		56-120		17	D12
Naphthalene	ND		110000	1800	ug/kg dry	ND		46-120		29	D12
Nitrobenzene	ND		110000	4900	ug/kg dry	ND		49-120		24	D12
N-Nitrosodi-n-propylamine	ND	4350	110000	8700	ug/kg dry	ND		46-120		31	D12,M4
N-Nitrosodiphenylamine	122000		110000	6000	ug/kg dry	90900		20-119	7	15	D12,J
Pentachlorophenol	ND	4350	220000	38000	ug/kg dry	ND		33-136		35	D12,M4
Phenanthrene	ND		110000	2300	ug/kg dry	ND		60-130		15	D12
Phenol	ND	4350	110000	12000	ug/kg dry	ND		36-120		35	D12,M4
Pyrene	ND	4350	110000	710	ug/kg dry	8480	195	51-133	3	35	D12,M4,J
Surrogate: 2,4,6-Tribromophenol					*ug/kg dry*			*39-146*			*D12,Z3*
Surrogate: 2-Fluorobiphenyl					*ug/kg dry*		*105*	*37-120*			*D12,Z3*
Surrogate: 2-Fluorophenol					*ug/kg dry*		*47*	*18-120*			*D12,Z3*
Surrogate: Nitrobenzene-d5					*ug/kg dry*		*70*	*34-132*			*D12,Z3*
Surrogate: Phenol-d5					*ug/kg dry*		*80*	*11-120*			*D12,Z3*
Surrogate: p-Terphenyl-d14					*ug/kg dry*		*85*	*58-147*			*D12,Z3*

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Latham, NY 12110

Work Order: RTE1193

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/24/10
Reported: 05/28/10 15:54

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Diesel Range Organics by 8015M											
Blank Analyzed: 05/25/10 (Lab Number:10E1906-BLK1, Batch: 10E1906)											
Diesel range organics			16	4.9	mg/kg wet	7.4					J
Surrogate: o-Terphenyl					*mg/kg wet*		*98*	*46-148*			
LCS Analyzed: 05/25/10 (Lab Number:10E1906-BS1, Batch: 10E1906)											
Diesel range organics		49.9	17	5.0	mg/kg wet	63.5	127	64-137			B
Surrogate: o-Terphenyl					*mg/kg wet*		*98*	*46-148*			
Matrix Spike Analyzed: 05/25/10 (Lab Number:10E1906-MS1, Batch: 10E1906)											
QC Source Sample: RTE1193-01											
Diesel range organics	2180	64.6	220	65	mg/kg dry	1720	-702	64-137			D08,M4,B
Surrogate: o-Terphenyl					*mg/kg dry*			*46-148*			*D08,Z3*
Matrix Spike Dup Analyzed: 05/25/10 (Lab Number:10E1906-MSD1, Batch: 10E1906)											
QC Source Sample: RTE1193-01											
Diesel range organics	2180	66.2	220	66	mg/kg dry	1240	-1410	64-137	33	35	D08,M4,B
Surrogate: o-Terphenyl					*mg/kg dry*			*46-148*			*D08,Z3*

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Work Order: RTE1193

Project: BASF Waste Characterization
Project Number: [none]

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by SW 846 Series Methods											
Blank Analyzed: 05/26/10 (Lab Number:10E1957-BLK1, Batch: 10E1957)											
Arsenic			2.0	0.2	mg/kg wet	ND					
Barium			0.510	0.010	mg/kg wet	0.015					B,J
Cadmium			0.204	0.031	mg/kg wet	ND					
Chromium			0.510	0.092	mg/kg wet	ND					
Lead			1.0	0.1	mg/kg wet	ND					
Selenium			4.1	0.4	mg/kg wet	ND					
Silver			0.510	0.071	mg/kg wet	ND					
Matrix Spike Analyzed: 05/26/10 (Lab Number:10E1957-MS1, Batch: 10E1957)											
QC Source Sample: RTE1193-01											
Arsenic	36.0	51.6	2.6	0.3	mg/kg dry	70.9	67	75-125			M1
Barium	75.3	51.6	0.646	0.013	mg/kg dry	209	259	75-125			M1,B
Cadmium	1.16	51.6	0.258	0.039	mg/kg dry	46.9	89	75-125			
Chromium	81.4	51.6	0.646	0.116	mg/kg dry	114	63	75-125			M1
Lead	144	51.6	1.3	0.2	mg/kg dry	143	-3	75-125			M1
Selenium	ND	51.6	5.2	0.5	mg/kg dry	46.8	91	75-125			
Silver	0.157	12.9	0.646	0.090	mg/kg dry	12.7	97	75-125			
Matrix Spike Dup Analyzed: 05/26/10 (Lab Number:10E1957-MSD1, Batch: 10E1957)											
QC Source Sample: RTE1193-01											
Arsenic	36.0	55.7	2.8	0.3	mg/kg dry	83.8	86	75-125	17	20	
Barium	75.3	55.7	0.696	0.014	mg/kg dry	136	109	75-125	43	20	R3,B
Cadmium	1.16	55.7	0.278	0.042	mg/kg dry	52.0	91	75-125	10	20	
Chromium	81.4	55.7	0.696	0.125	mg/kg dry	132	90	75-125	14	20	
Lead	144	55.7	1.4	0.2	mg/kg dry	166	38	75-125	15	20	M1
Selenium	ND	55.7	5.6	0.5	mg/kg dry	51.1	92	75-125	9	20	
Silver	0.157	13.9	0.696	0.097	mg/kg dry	13.9	99	75-125	9	20	
Reference Analyzed: 05/26/10 (Lab Number:10E1957-SRM1, Batch: 10E1957)											
Arsenic		107	2.0	0.2	mg/kg wet	99.3	93	69.3-129.9			
Barium		332	0.501	0.010	mg/kg wet	316	95	74-126			B
Cadmium		244	0.200	0.030	mg/kg wet	218	89	73.4-126.2			
Chromium		81.2	0.501	0.090	mg/kg wet	72.5	89	68.9-131.5			
Lead		107	1.0	0.1	mg/kg wet	98.7	92	71.4-129			
Selenium		177	4.0	0.4	mg/kg wet	169	95	68.4-132.2			
Silver		46.3	0.501	0.070	mg/kg wet	43.3	94	66.2-133.5			

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Project: BASF Waste Characterization
Project Number: [none]

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by SW 846 Series Methods											
Blank Analyzed: 05/26/10 (Lab Number:10E2035-BLK1, Batch: 10E2035)											
Mercury			0.0200	0.0081	mg/kg wet	ND					
Reference Analyzed: 05/26/10 (Lab Number:10E2035-SRM1, Batch: 10E2035)											
Mercury		2.97	0.180	0.0728	mg/kg wet	2.81	95	67.6-132.8			

TestAmerica
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Analytical Report

Work Order: RTE0668

Project Description
BASF Waste Characterization

For:

Frank Zeske

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Melissa Deyo

Melissa Deyo For Paul Morrow

Project Manager

melissa.deyo@testamericainc.com

Wednesday, May 19, 2010

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

TestAmerica Buffalo
Current Certifications

As of 04/16/2010

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
North Dakota	CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania*	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington*	NELAP CWA,RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA,RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

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Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

For batch 10E0854, the Lab Control Sample did not have spike added during extraction The Sample Matrix Spike and Spike Duplicate for this batch, did however have compliant spike recoveries.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

AECOM - Latham, NY
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Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
B1	Analyte was detected in the associated method / calibration blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
D02	Dilution required due to sample matrix effects
D03	Dilution required due to excessive foaming
D07	Dilution required due to the nature of the TCLP matrix
D08	Dilution required due to high concentration of target analyte(s)
HFT	The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M4	The sample required a dilution due to matrix interference. Because of this dilution, the matrix spike concentrations in the sample were reduced to a level where the recovery calculation does not provide useful information. See Blank Spike (LCS).
N1	See case narrative.
QSU	Sulfur (EPA 3660) clean-up performed on extract.
Z3	The sample required a dilution, the surrogate spike concentration in the sample are reduced to a level where the recovery calculation does not provide useful information.
Z5	Due to sample matrix effects, the surrogate recovery was outside acceptance limits. Secondary surrogate recovery was within the acceptance limits.
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

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Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE0668-01 (S1 - Solid)						**Sampled: 05/11/10 14:00**			**Recvd: 05/12/10 09:00**	
TCLP Volatile Organic Compounds by EPA Method 1311/8260B										
1,2-Dichloroethane	**9.6**	D08,J	10	2.1	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Benzene	**19**	D08	10	4.1	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
TCLP Semivolatile Compounds by EPA Method 1311/8270C										
1,4-Dichlorobenzene	**530**		40	1.8	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
3 & 4 Methylphenol	**18**	J	40	1.4	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Nitrobenzene	**13**	J	20	1.2	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Pyridine	**1.6**	J	100	1.6	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1242	**8400**	QSU	2700	580	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
TCLP Pesticides by EPA Method 1311/8081A										
Heptachlor	**13**	D08, QSU	4.0	0.68	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
Heptachlor epoxide	**21**	D08, QSU	4.0	0.42	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
TCLP Metals										
Arsenic	**0.0172**		0.0100	0.0056	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Barium	**0.849**	B, B1	0.0020	0.0003	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Cadmium	**0.0147**		0.0010	0.0003	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Chromium	**0.0209**		0.0040	0.0009	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Lead	**0.0678**		0.0050	0.0030	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Mercury	**0.0002**		0.0002	0.0001	mg/L	1.00	05/13/10 16:38	MXM	10E0984	7470A TCLP
General Chemistry Parameters										
Percent Solids	**71**		0.010	NR	%	1.00	05/13/10 13:44	JRR	10E0960	Dry Weight
pH	**8.35**		NR	0.00	SU	1.00	05/13/10 14:30	RMB	10E1025	9045
Flashpoint	**>176**		50.0	50.0	°F	1.00	05/14/10 13:47	JLN	10E1130	1010
H2S Released From Waste	**80.2**		10.0	0.6	mg/kg	1.00	05/14/10 09:30	RJP	10E1119	Section 7.3
Sample ID: RTE0668-01RE1 (S1 - Solid)						**Sampled: 05/11/10 14:00**			**Recvd: 05/12/10 09:00**	
TCLP Volatile Organic Compounds by EPA Method 1311/8260B										
Chlorobenzene	**3200**	D08	50	38	ug/L	50.0	05/15/10 00:37	LH	10E1040	8260B TCLP
Sample ID: RTE0668-02 (W1 - Water)						**Sampled: 05/11/10 13:30**			**Recvd: 05/12/10 09:00**	
TCLP Pesticides by EPA Method 1311/8081A										
Heptachlor	**0.51**	D08, QSU,J	1.0	0.17	ug/L	5.00	05/14/10 17:43	LMW	10E1033	8081 TCLP
Heptachlor epoxide	**0.18**	D08, QSU,J	1.0	0.11	ug/L	5.00	05/14/10 17:43	LMW	10E1033	8081 TCLP
Methoxychlor	**2.7**	D08, QSU	1.0	0.28	ug/L	5.00	05/14/10 17:43	LMW	10E1033	8081 TCLP
TCLP Metals										
Arsenic	**0.0126**		0.0100	0.0056	mg/L	1.00	05/13/10 19:59	DAN	10E0932	6010B TCLP
Barium	**0.177**		0.0020	0.0003	mg/L	1.00	05/13/10 19:59	DAN	10E0932	6010B TCLP
Cadmium	**0.0013**		0.0010	0.0003	mg/L	1.00	05/13/10 19:59	DAN	10E0932	6010B TCLP
Chromium	**0.0056**		0.0040	0.0009	mg/L	1.00	05/14/10 15:55	DAN	10E0932	6010B TCLP
Silver	**0.0018**	J	0.0030	0.0012	mg/L	1.00	05/13/10 19:59	DAN	10E0932	6010B TCLP

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Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE0668-02 (W1 - Water) - cont.						**Sampled: 05/11/10 13:30**		**Recvd: 05/12/10 09:00**		
General Chemistry Parameters										
pH	**7.71**	HFT	NR	0.00	SU	1.00	05/12/10 23:52	JFR	10E0928	9040
Flashpoint	**Result is greater than indicated value (>176.0).**		50.0	50.0	°F	1.00	05/13/10 15:58	RJP	10E1024	1010
Sample ID: RTE0668-02RE1 (W1 - Water)						**Sampled: 05/11/10 13:30**		**Recvd: 05/12/10 09:00**		
TCLP Herbicides by EPA Method 1311/8151A										
2,4-D [2C]	**6.0**		2.0	1.6	ug/L	1.00	05/18/10 12:38	MAN	10E1201	8151A TCLP

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Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
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Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
S1	RTE0668-01	Solid	05/11/10 14:00	05/12/10 09:00	
W1	RTE0668-02	Water	05/11/10 13:30	05/12/10 09:00	

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Project: BASF Waste Characterization
Project Number: [none]

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE0668-01 (S1 - Solid)						**Sampled: 05/11/10 14:00**		**Recvd: 05/12/10 09:00**		
TCLP Volatile Organic Compounds by EPA Method 1311/8260B										
1,1-Dichloroethene	ND	D08	10	2.9	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
1,2-Dichloroethane	**9.6**	D08,J	10	2.1	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
2-Butanone (MEK)	ND	D08	50	13	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Benzene	**19**	D08	10	4.1	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Carbon Tetrachloride	ND	D08	10	2.7	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Chloroform	ND	D08	10	3.4	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Tetrachloroethene	ND	D08	10	3.6	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Trichloroethene	ND	D08	10	4.6	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Vinyl chloride	ND	D08	10	9.0	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
1,2-Dichloroethane-d4	*106 %*	*D08*	*Surr Limits: (66-137%)*				*05/14/10 20:57*	*LH*	*10E1040*	*8260B TCLP*
4-Bromofluorobenzene	*87 %*	*D08*	*Surr Limits: (73-120%)*				*05/14/10 20:57*	*LH*	*10E1040*	*8260B TCLP*
Toluene-d8	*95 %*	*D08*	*Surr Limits: (71-126%)*				*05/14/10 20:57*	*LH*	*10E1040*	*8260B TCLP*
TCLP Semivolatile Compounds by EPA Method 1311/8270C										
1,4-Dichlorobenzene	**530**		40	1.8	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
2,4,5-Trichlorophenol	ND		20	1.9	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
2,4,6-Trichlorophenol	ND		20	2.4	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
2,4-Dinitrotoluene	ND		20	1.8	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
2-Methylphenol	ND		20	1.6	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
3 & 4 Methylphenol	**18**	J	40	1.4	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Hexachlorobenzene	ND		20	2.0	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Hexachlorobutadiene	ND		20	2.7	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Hexachloroethane	ND		20	2.4	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Nitrobenzene	**13**	J	20	1.2	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Pentachlorophenol	ND		40	8.8	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Pyridine	**1.6**	J	100	1.6	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
2,4,6-Tribromophenol	*109 %*		*Surr Limits: (52-132%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
2-Fluorobiphenyl	*77 %*		*Surr Limits: (48-120%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
2-Fluorophenol	*41 %*		*Surr Limits: (20-120%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
Nitrobenzene-d5	*71 %*		*Surr Limits: (46-120%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
Phenol-d5	*33 %*		*Surr Limits: (16-120%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
p-Terphenyl-d14	*69 %*		*Surr Limits: (24-136%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	2700	520	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1221	ND	QSU	2700	520	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1232	ND	QSU	2700	520	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1242	**8400**	QSU	2700	580	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1248	ND	QSU	2700	520	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1254	ND	QSU	2700	560	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1260	ND	QSU	2700	1200	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1262	ND	QSU	2700	560	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1268	ND	QSU	2700	560	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Decachlorobiphenyl	*	*QSU,Z3*	*Surr Limits: (34-148%)*				*05/14/10 17:46*	*JxM*	*10E0904*	*8082*
Tetrachloro-m-xylene	*	*QSU,Z3*	*Surr Limits: (35-134%)*				*05/14/10 17:46*	*JxM*	*10E0904*	*8082*
TCLP Pesticides by EPA Method 1311/8081A										
Chlordane	ND	D08, QSU	40	2.3	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
Endrin	ND	D08, QSU	4.0	1.1	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
gamma-BHC (Lindane)	ND	D08, QSU	4.0	0.48	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP

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Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

Analytical Report

Sample ID: RTE0668-01 (S1 - Solid) - cont. **Sampled: 05/11/10 14:00** **Recvd: 05/12/10 09:00**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
TCLP Pesticides by EPA Method 1311/8081A - cont.										
Heptachlor	**13**	D08, QSU	4.0	0.68	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
Heptachlor epoxide	**21**	D08, QSU	4.0	0.42	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
Methoxychlor	ND	D08, QSU	4.0	1.1	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
Toxaphene	ND	D08, QSU	40	9.6	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
Decachlorobiphenyl	*	*D08, QSU,Z3*	*Surr Limits: (15-139%)*				*05/14/10 17:07*	*LMW*	*10E1033*	*8081 TCLP*
Tetrachloro-m-xylene	*	*D08, QSU,Z3*	*Surr Limits: (30-139%)*				*05/14/10 17:07*	*LMW*	*10E1033*	*8081 TCLP*
TCLP Metals										
Arsenic	**0.0172**		0.0100	0.0056	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Barium	**0.849**	B, B1	0.0020	0.0003	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Cadmium	**0.0147**		0.0010	0.0003	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Chromium	**0.0209**		0.0040	0.0009	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Lead	**0.0678**		0.0050	0.0030	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Silver	ND		0.0030	0.0012	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Mercury	**0.0002**		0.0002	0.0001	mg/L	1.00	05/13/10 16:38	MXM	10E0984	7470A TCLP
General Chemistry Parameters										
Percent Solids	**71**		0.010	NR	%	1.00	05/13/10 13:44	JRR	10E0960	Dry Weight
pH	**8.35**		NA	0.00	SU	1.00	05/13/10 14:30	RMB	10E1025	9045
HCN Released From Waste	ND		10.0	0.0030	mg/kg	1.00	05/15/10 10:01	RJP	10E1202	Section 7.3
Flashpoint	**>176**		50.0	50.0	°F	1.00	05/14/10 13:47	JLN	10E1130	1010
H2S Released From Waste	**80.2**		10.0	0.6	mg/kg	1.00	05/14/10 09:30	RJP	10E1119	Section 7.3

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Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE0668-01RE1 (S1 - Solid)						**Sampled: 05/11/10 14:00**		**Recvd: 05/12/10 09:00**		
TCLP Volatile Organic Compounds by EPA Method 1311/8260B										
Chlorobenzene	**3200**	D08	50	38	ug/L	50.0	05/15/10 00:37	LH	10E1040	8260B TCLP
1,2-Dichloroethane-d4	*103 %*	*D08*	*Surr Limits: (66-137%)*				*05/15/10 00:37*	*LH*	*10E1040*	*8260B TCLP*
4-Bromofluorobenzene	*88 %*	*D08*	*Surr Limits: (73-120%)*				*05/15/10 00:37*	*LH*	*10E1040*	*8260B TCLP*
Toluene-d8	*98 %*	*D08*	*Surr Limits: (71-126%)*				*05/15/10 00:37*	*LH*	*10E1040*	*8260B TCLP*
TCLP Herbicides by EPA Method 1311/8151A										
2,4-D [2C]	ND		2.0	1.6	ug/L	1.00	05/18/10 12:08	MAN	10E1201	8151A TCLP
Silvex (2,4,5-TP) [2C]	ND		2.0	1.4	ug/L	1.00	05/18/10 12:08	MAN	10E1201	8151A TCLP
2,4-Dichlorophenylacetic acid [2C]	*20 %*		*Surr Limits: (19-128%)*				*05/18/10 12:08*	*MAN*	*10E1201*	*8151A TCLP*

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Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE0668-02 (W1 - Water)						**Sampled: 05/11/10 13:30**		**Recvd: 05/12/10 09:00**		
TCLP Volatile Organic Compounds by EPA Method 1311/8260B										
1,1-Dichloroethene	ND	D03	40	12	ug/L	40.0	05/14/10 15:20	LH	10E1088	8260B TCLP
1,2-Dichloroethane	ND	D03	40	8.6	ug/L	40.0	05/14/10 15:20	LH	10E1088	8260B TCLP
2-Butanone (MEK)	ND	D03	200	53	ug/L	40.0	05/14/10 15:20	LH	10E1088	8260B TCLP
Benzene	ND	D03	40	16	ug/L	40.0	05/14/10 15:20	LH	10E1088	8260B TCLP
Carbon Tetrachloride	ND	D03	40	11	ug/L	40.0	05/14/10 15:20	LH	10E1088	8260B TCLP
Chlorobenzene	ND	D03	40	30	ug/L	40.0	05/14/10 15:20	LH	10E1088	8260B TCLP
Chloroform	ND	D03	40	13	ug/L	40.0	05/14/10 15:20	LH	10E1088	8260B TCLP
Tetrachloroethene	ND	D03	40	15	ug/L	40.0	05/14/10 15:20	LH	10E1088	8260B TCLP
Trichloroethene	ND	D03	40	18	ug/L	40.0	05/14/10 15:20	LH	10E1088	8260B TCLP
Vinyl chloride	ND	D03	40	36	ug/L	40.0	05/14/10 15:20	LH	10E1088	8260B TCLP
1,2-Dichloroethane-d4	*94 %*	*D03*	*Surr Limits: (66-137%)*				*05/14/10 15:20*	*LH*	*10E1088*	*8260B TCLP*
4-Bromofluorobenzene	*90 %*	*D03*	*Surr Limits: (73-120%)*				*05/14/10 15:20*	*LH*	*10E1088*	*8260B TCLP*
Toluene-d8	*99 %*	*D03*	*Surr Limits: (71-126%)*				*05/14/10 15:20*	*LH*	*10E1088*	*8260B TCLP*
TCLP Semivolatile Compounds by EPA Method 1311/8270C										
1,4-Dichlorobenzene	ND	D02	200	9.2	ug/L	5.00	05/16/10 21:11	RAR	10E0972	8270C TCLP
2,4,5-Trichlorophenol	ND	D02	100	9.6	ug/L	5.00	05/16/10 21:11	RAR	10E0972	8270C TCLP
2,4,6-Trichlorophenol	ND	D02	100	12	ug/L	5.00	05/16/10 21:11	RAR	10E0972	8270C TCLP
2,4-Dinitrotoluene	ND	D02	100	8.9	ug/L	5.00	05/16/10 21:11	RAR	10E0972	8270C TCLP
2-Methylphenol	ND	D02	100	8.0	ug/L	5.00	05/16/10 21:11	RAR	10E0972	8270C TCLP
3 & 4 Methylphenol	ND	D02	200	7.2	ug/L	5.00	05/16/10 21:11	RAR	10E0972	8270C TCLP
Hexachlorobenzene	ND	D02	100	10	ug/L	5.00	05/16/10 21:11	RAR	10E0972	8270C TCLP
Hexachlorobutadiene	ND	D02	100	14	ug/L	5.00	05/16/10 21:11	RAR	10E0972	8270C TCLP
Hexachloroethane	ND	D02	100	12	ug/L	5.00	05/16/10 21:11	RAR	10E0972	8270C TCLP
Nitrobenzene	ND	D02	100	5.8	ug/L	5.00	05/16/10 21:11	RAR	10E0972	8270C TCLP
Pentachlorophenol	ND	D02	200	44	ug/L	5.00	05/16/10 21:11	RAR	10E0972	8270C TCLP
Pyridine	ND	D02	500	8.2	ug/L	5.00	05/16/10 21:11	RAR	10E0972	8270C TCLP
2,4,6-Tribromophenol	*62 %*	*D02*	*Surr Limits: (52-132%)*				*05/16/10 21:11*	*RAR*	*10E0972*	*8270C TCLP*
2-Fluorobiphenyl	*93 %*	*D02*	*Surr Limits: (48-120%)*				*05/16/10 21:11*	*RAR*	*10E0972*	*8270C TCLP*
2-Fluorophenol	*48 %*	*D02*	*Surr Limits: (20-120%)*				*05/16/10 21:11*	*RAR*	*10E0972*	*8270C TCLP*
Nitrobenzene-d5	*86 %*	*D02*	*Surr Limits: (46-120%)*				*05/16/10 21:11*	*RAR*	*10E0972*	*8270C TCLP*
Phenol-d5	*38 %*	*D02*	*Surr Limits: (16-120%)*				*05/16/10 21:11*	*RAR*	*10E0972*	*8270C TCLP*
p-Terphenyl-d14	*93 %*	*D02*	*Surr Limits: (24-136%)*				*05/16/10 21:11*	*RAR*	*10E0972*	*8270C TCLP*
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	0.49	0.17	ug/L	1.00	05/13/10 08:05	JxM	10E0854	8082
Aroclor 1221	ND	QSU	0.49	0.17	ug/L	1.00	05/13/10 08:05	JxM	10E0854	8082
Aroclor 1232	ND	QSU	0.49	0.17	ug/L	1.00	05/13/10 08:05	JxM	10E0854	8082
Aroclor 1242	ND	QSU	0.49	0.17	ug/L	1.00	05/13/10 08:05	JxM	10E0854	8082
Aroclor 1248	ND	QSU	0.49	0.17	ug/L	1.00	05/13/10 08:05	JxM	10E0854	8082
Aroclor 1254	ND	QSU	0.49	0.24	ug/L	1.00	05/13/10 08:05	JxM	10E0854	8082
Aroclor 1260	ND	QSU	0.49	0.24	ug/L	1.00	05/13/10 08:05	JxM	10E0854	8082
Aroclor 1262	ND	QSU	0.49	0.24	ug/L	1.00	05/13/10 08:05	JxM	10E0854	8082
Aroclor 1268	ND	QSU	0.49	0.24	ug/L	1.00	05/13/10 08:05	JxM	10E0854	8082
Decachlorobiphenyl	*	*QSU,Z5*	*Surr Limits: (12-137%)*				*05/13/10 08:05*	*JxM*	*10E0854*	*8082*
Tetrachloro-m-xylene	*42 %*	*QSU*	*Surr Limits: (35-121%)*				*05/13/10 08:05*	*JxM*	*10E0854*	*8082*
TCLP Pesticides by EPA Method 1311/8081A										
Chlordane	ND	D08, QSU	10	0.58	ug/L	5.00	05/14/10 17:43	LMW	10E1033	8081 TCLP
Endrin	ND	D08, QSU	1.0	0.28	ug/L	5.00	05/14/10 17:43	LMW	10E1033	8081 TCLP

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Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE0668-02 (W1 - Water) - cont.						**Sampled: 05/11/10 13:30**		**Recvd: 05/12/10 09:00**		
TCLP Pesticides by EPA Method 1311/8081A - cont.										
gamma-BHC (Lindane)	ND	D08, QSU	1.0	0.12	ug/L	5.00	05/14/10 17:43	LMW	10E1033	8081 TCLP
Heptachlor	**0.51**	D08, QSU,J	1.0	0.17	ug/L	5.00	05/14/10 17:43	LMW	10E1033	8081 TCLP
Heptachlor epoxide	**0.18**	D08, QSU,J	1.0	0.11	ug/L	5.00	05/14/10 17:43	LMW	10E1033	8081 TCLP
Methoxychlor	**2.7**	D08, QSU	1.0	0.28	ug/L	5.00	05/14/10 17:43	LMW	10E1033	8081 TCLP
Toxaphene	ND	D08, QSU	10	2.4	ug/L	5.00	05/14/10 17:43	LMW	10E1033	8081 TCLP
Decachlorobiphenyl	*	*D08, QSU,Z5*	*Surr Limits: (15-139%)*				*05/14/10 17:43*	*LMW*	*10E1033*	*8081 TCLP*
Tetrachloro-m-xylene	*135 %*	*D08, QSU*	*Surr Limits: (30-139%)*				*05/14/10 17:43*	*LMW*	*10E1033*	*8081 TCLP*
TCLP Metals										
Arsenic	**0.0126**		0.0100	0.0056	mg/L	1.00	05/13/10 19:59	DAN	10E0932	6010B TCLP
Barium	**0.177**		0.0020	0.0003	mg/L	1.00	05/13/10 19:59	DAN	10E0932	6010B TCLP
Cadmium	**0.0013**		0.0010	0.0003	mg/L	1.00	05/13/10 19:59	DAN	10E0932	6010B TCLP
Chromium	**0.0056**		0.0040	0.0009	mg/L	1.00	05/14/10 15:55	DAN	10E0932	6010B TCLP
Lead	ND		0.0050	0.0030	mg/L	1.00	05/13/10 19:59	DAN	10E0932	6010B TCLP
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/13/10 19:59	DAN	10E0932	6010B TCLP
Silver	**0.0018**	J	0.0030	0.0012	mg/L	1.00	05/13/10 19:59	DAN	10E0932	6010B TCLP
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/17/10 15:59	MXM	10E1234	7470A TCLP
General Chemistry Parameters										
pH	**7.71**	HFT	NA	0.00	SU	1.00	05/12/10 23:52	JFR	10E0928	9040
HCN Released From Waste	ND		10.0	0.0030	mg/L	1.00	05/15/10 10:01	RJP	10E1203	Section 7.3
Flashpoint	**Result is greater than indicated value (>176.0).**		50.0	50.0	°F	1.00	05/13/10 15:58	RJP	10E1024	1010
H2S Released From Waste	ND		10.0	0.6	mg/L	1.00	05/14/10 09:30	RJP	10E1120	Section 7.3

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Project: BASF Waste Characterization
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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE0668-02RE1 (W1 - Water)						**Sampled: 05/11/10 13:30**		**Recvd: 05/12/10 09:00**		
TCLP Herbicides by EPA Method 1311/8151A										
2,4-D [2C]	**6.0**		2.0	1.6	ug/L	1.00	05/18/10 12:38	MAN	10E1201	8151A TCLP
Silvex (2,4,5-TP) [2C]	ND		2.0	1.4	ug/L	1.00	05/18/10 12:38	MAN	10E1201	8151A TCLP
2,4-Dichlorophenylacetic acid [2C]	*61 %*		*Surr Limits: (19-128%)*				*05/18/10 12:38*	*MAN*	*10E1201*	*8151A TCLP*

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Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
1010	10E1130	RTE0668-01	50.00	mL	50.00	mL	05/14/10 13:47	JLN	No Prep Flashpoint
1010	10E1024	RTE0668-02	50.00	mL	50.00	mL	05/13/10 15:58	RJP	No Prep Flashpoint
9040	10E0928	RTE0668-02	1.00	mL	1.00	mL	05/12/10 23:52	JFR	pH
9045	10E1025	RTE0668-01	40.00	g	40.00	mL	05/13/10 14:30	RMB	LpH
Dry Weight	10E0960	RTE0668-01	10.00	g	10.00	g	05/13/10 09:57	CXM	Dry Weight
Section 7.3	10E1119	RTE0668-01	100.00	g	100.00	mL	05/14/10 09:30	RJP	Reactivity
Section 7.3	10E1120	RTE0668-02	100.00	mL	100.00	mL	05/14/10 09:30	RJP	Reactivity
Section 7.3	10E1202	RTE0668-01	5.00	g	5.00	mL	05/15/10 10:01	RJP	Reactivity
Section 7.3	10E1203	RTE0668-02	5.00	mL	5.00	mL	05/15/10 10:01	RJP	Reactivity
Polychlorinated Biphenyls by EPA Method 8082									
8082	10E0904	RTE0668-01	2.65	g	10.00	mL	05/13/10 10:00	CXM	3550B GC
8082	10E0854	RTE0668-02	1,030.00	mL	10.00	mL	05/12/10 17:00	LTT	3510C GC
TCLP Herbicides by EPA Method 1311/8151A									
8151A TCLP	10E1201	RTE0668-01RE´	250.00	mL	10.00	mL	05/16/10 08:00	BML	8151A Aq. Prep
8151A TCLP	10E1201	RTE0668-02RE´	250.00	mL	10.00	mL	05/16/10 08:00	BML	8151A Aq. Prep
TCLP Metals									
6010B TCLP	10E0932	RTE0668-02	50.00	mL	50.00	mL	05/13/10 07:15	JRK	3010A
6010B TCLP	10E0966	RTE0668-01	50.00	mL	50.00	mL	05/13/10 11:05	KCW	3010A
7470A TCLP	10E0984	RTE0668-01	30.00	mL	50.00	mL	05/13/10 13:00	MXM	7470A
7470A TCLP	10E1234	RTE0668-02	30.00	mL	50.00	mL	05/17/10 12:25	MXM	7470A
TCLP Pesticides by EPA Method 1311/8081A									
8081 TCLP	10E1033	RTE0668-01	250.00	mL	10.00	mL	05/14/10 10:00	EKD	3510C GC
8081 TCLP	10E1033	RTE0668-02	250.00	mL	10.00	mL	05/14/10 10:00	EKD	3510C GC
TCLP Semivolatile Compounds by EPA Method 1311/8270C									
8270C TCLP	10E0972	RTE0668-01	250.00	mL	1.00	mL	05/13/10 17:35	LTT	3510C MB
8270C TCLP	10E0972	RTE0668-02	250.00	mL	1.00	mL	05/13/10 17:35	LTT	3510C MB
TCLP Volatile Organic Compounds by EPA Method 1311/8260B									
8260B TCLP	10E1040	RTE0668-01RE´	5.00	mL	5.00	mL	05/13/10 18:52	LCH	5030B MS TCLP
8260B TCLP	10E1088	RTE0668-02	5.00	mL	5.00	mL	05/14/10 08:58	LCH	5030B MS
8260B TCLP	10E1040	RTE0668-01	5.00	mL	5.00	mL	05/13/10 18:52	RMJ	5030B MS TCLP

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
TCLP Volatile Organic Compounds by EPA Method 1311/8260B											
Blank Analyzed: 05/14/10 (Lab Number:10E1040-BLK1, Batch: 10E1040)											
1,1-Dichloroethene			10	2.9	ug/L	ND					D07
1,2-Dichloroethane			10	2.1	ug/L	ND					D07
2-Butanone (MEK)			50	13	ug/L	ND					D07
Benzene			10	4.1	ug/L	ND					D07
Carbon Tetrachloride			10	2.7	ug/L	ND					D07
Chlorobenzene			10	7.5	ug/L	ND					D07
Chloroform			10	3.4	ug/L	ND					D07
Tetrachloroethene			10	3.6	ug/L	ND					D07
Trichloroethene			10	4.6	ug/L	ND					D07
Vinyl chloride			10	9.0	ug/L	ND					D07
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*102*	*66-137*			*D07*
Surrogate: 4-Bromofluorobenzene					*ug/L*		*86*	*73-120*			*D07*
Surrogate: Toluene-d8					*ug/L*		*99*	*71-126*			*D07*
LCS Analyzed: 05/14/10 (Lab Number:10E1040-BS1, Batch: 10E1040)											
1,1-Dichloroethene		25.0	1.0	0.29	ug/L	23.0	92	65-138			
1,2-Dichloroethane		25.0	1.0	0.21	ug/L	26.3	105	75-127			
2-Butanone (MEK)		125	5.0	1.3	ug/L	129	103	57-140			
Benzene		25.0	1.0	0.41	ug/L	25.1	101	71-124			
Carbon Tetrachloride		25.0	1.0	0.27	ug/L	22.2	89	72-134			
Chlorobenzene		25.0	1.0	0.75	ug/L	24.2	97	72-120			
Chloroform		25.0	1.0	0.34	ug/L	25.6	102	73-127			
Tetrachloroethene		25.0	1.0	0.36	ug/L	24.4	98	74-122			
Trichloroethene		25.0	1.0	0.46	ug/L	24.7	99	74-123			
Vinyl chloride		25.0	1.0	0.90	ug/L	24.0	96	65-133			
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*98*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*94*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*100*	*71-126*			
LCS Analyzed: 05/14/10 (Lab Number:10E1040-BS2, Batch: 10E1040)											
1,1-Dichloroethene		25.0	1.0	0.29	ug/L	22.8	91	65-138			
1,2-Dichloroethane		25.0	1.0	0.21	ug/L	27.2	109	75-127			
2-Butanone (MEK)		125	5.0	1.3	ug/L	140	112	57-140			
Benzene		25.0	1.0	0.41	ug/L	26.2	105	71-124			
Carbon Tetrachloride		25.0	1.0	0.27	ug/L	21.6	86	72-134			
Chlorobenzene		25.0	1.0	0.75	ug/L	24.8	99	72-120			

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
TCLP Volatile Organic Compounds by EPA Method 1311/8260B											
LCS Analyzed: 05/14/10 (Lab Number:10E1040-BS2, Batch: 10E1040)											
Chloroform		25.0	1.0	0.34	ug/L	26.4	106	73-127			
Tetrachloroethene		25.0	1.0	0.36	ug/L	24.2	97	74-122			
Trichloroethene		25.0	1.0	0.46	ug/L	25.5	102	74-123			
Vinyl chloride		25.0	1.0	0.90	ug/L	25.7	103	65-133			
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*101*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*94*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*100*	*71-126*			
TCLP Volatile Organic Compounds by EPA Method 1311/8260B											
Blank Analyzed: 05/14/10 (Lab Number:10E1088-BLK1, Batch: 10E1088)											
1,1-Dichloroethene			1.0	0.29	ug/L	ND					
1,2-Dichloroethane			1.0	0.21	ug/L	ND					
2-Butanone (MEK)			5.0	1.3	ug/L	ND					
Benzene			1.0	0.41	ug/L	ND					
Carbon Tetrachloride			1.0	0.27	ug/L	ND					
Chlorobenzene			1.0	0.75	ug/L	ND					
Chloroform			1.0	0.34	ug/L	ND					
Tetrachloroethene			1.0	0.36	ug/L	ND					
Trichloroethene			1.0	0.46	ug/L	ND					
Vinyl chloride			1.0	0.90	ug/L	ND					
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*98*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*87*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*99*	*71-126*			
LCS Analyzed: 05/14/10 (Lab Number:10E1088-BS1, Batch: 10E1088)											
1,1-Dichloroethene		25.0	1.0	0.29	ug/L	23.0	92	65-138			
1,2-Dichloroethane		25.0	1.0	0.21	ug/L	26.3	105	75-127			
2-Butanone (MEK)		125	5.0	1.3	ug/L	129	103	57-140			
Benzene		25.0	1.0	0.41	ug/L	25.1	101	71-124			
Carbon Tetrachloride		25.0	1.0	0.27	ug/L	22.2	89	72-134			
Chlorobenzene		25.0	1.0	0.75	ug/L	24.2	97	72-120			
Chloroform		25.0	1.0	0.34	ug/L	25.6	102	73-127			
Tetrachloroethene		25.0	1.0	0.36	ug/L	24.4	98	74-122			
Trichloroethene		25.0	1.0	0.46	ug/L	24.7	99	74-123			
Vinyl chloride		25.0	1.0	0.90	ug/L	24.0	96	65-133			

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
TCLP Volatile Organic Compounds by EPA Method 1311/8260B											
LCS Analyzed: 05/14/10 (Lab Number:10E1088-BS1, Batch: 10E1088)											
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*98*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*94*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*100*	*71-126*			

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
TCLP Semivolatile Compounds by EPA Method 1311/8270C											
Blank Analyzed: 05/16/10 (Lab Number:10E0972-BLK1, Batch: 10E0972)											
1,4-Dichlorobenzene			10	0.46	ug/L	ND					
2,4,5-Trichlorophenol			5.0	0.48	ug/L	ND					
2,4,6-Trichlorophenol			5.0	0.61	ug/L	ND					
2,4-Dinitrotoluene			5.0	0.45	ug/L	ND					
2-Methylphenol			5.0	0.40	ug/L	ND					
3 & 4 Methylphenol			10	0.36	ug/L	ND					
Hexachlorobenzene			5.0	0.51	ug/L	ND					
Hexachlorobutadiene			5.0	0.68	ug/L	ND					
Hexachloroethane			5.0	0.59	ug/L	ND					
Nitrobenzene			5.0	0.29	ug/L	ND					
Pentachlorophenol			10	2.2	ug/L	ND					
Pyridine			25	0.41	ug/L	ND					
Surrogate: 2,4,6-Tribromophenol					*ug/L*		*100*	*52-132*			
Surrogate: 2-Fluorobiphenyl					*ug/L*		*76*	*48-120*			
Surrogate: 2-Fluorophenol					*ug/L*		*41*	*20-120*			
Surrogate: Nitrobenzene-d5					*ug/L*		*66*	*46-120*			
Surrogate: Phenol-d5					*ug/L*		*34*	*16-120*			
Surrogate: p-Terphenyl-d14					*ug/L*		*77*	*24-136*			
Blank Analyzed: 05/16/10 (Lab Number:10E0972-BLK2, Batch: 10E0972)											
1,4-Dichlorobenzene			40	1.8	ug/L	ND					
2,4,5-Trichlorophenol			20	1.9	ug/L	ND					
2,4,6-Trichlorophenol			20	2.4	ug/L	ND					
2,4-Dinitrotoluene			20	1.8	ug/L	ND					
2-Methylphenol			20	1.6	ug/L	ND					
3 & 4 Methylphenol			40	1.4	ug/L	ND					
Hexachlorobenzene			20	2.0	ug/L	ND					
Hexachlorobutadiene			20	2.7	ug/L	ND					
Hexachloroethane			20	2.4	ug/L	ND					
Nitrobenzene			20	1.2	ug/L	ND					
Pentachlorophenol			40	8.8	ug/L	ND					
Pyridine			100	1.6	ug/L	ND					
Surrogate: 2,4,6-Tribromophenol					*ug/L*		*109*	*52-132*			
Surrogate: 2-Fluorobiphenyl					*ug/L*		*87*	*48-120*			

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
TCLP Semivolatile Compounds by EPA Method 1311/8270C											
Blank Analyzed: 05/16/10 (Lab Number:10E0972-BLK2, Batch: 10E0972)											
Surrogate: 2-Fluorophenol					*ug/L*		*51*	*20-120*			
Surrogate: Nitrobenzene-d5					*ug/L*		*84*	*46-120*			
Surrogate: Phenol-d5					*ug/L*		*39*	*16-120*			
Surrogate: p-Terphenyl-d14					*ug/L*		*79*	*24-136*			
LCS Analyzed: 05/16/10 (Lab Number:10E0972-BS1, Batch: 10E0972)											
1,4-Dichlorobenzene		100	10	0.46	ug/L	71.4	71	25-120			
2,4,5-Trichlorophenol		100	5.0	0.48	ug/L	99.5	99	64-126			
2,4,6-Trichlorophenol		100	5.0	0.61	ug/L	97.2	97	64-120			
2,4-Dinitrotoluene		100	5.0	0.45	ug/L	104	104	50-125			
2-Methylphenol		100	5.0	0.40	ug/L	69.0	69	43-120			
3 & 4 Methylphenol		100	10	0.36	ug/L	65.4	65	41-120			
Hexachlorobenzene		100	5.0	0.51	ug/L	94.5	94	38-131			
Hexachlorobutadiene		100	5.0	0.68	ug/L	73.1	73	23-120			
Hexachloroethane		100	5.0	0.59	ug/L	71.1	71	20-120			
Nitrobenzene		100	5.0	0.29	ug/L	83.0	83	50-120			
Pentachlorophenol		100	10	2.2	ug/L	103	103	39-136			
Pyridine		100	25	0.41	ug/L	51.0	51	10-120			
Surrogate: 2,4,6-Tribromophenol					*ug/L*		*101*				
Surrogate: 2-Fluorobiphenyl					*ug/L*		*82*				
Surrogate: 2-Fluorophenol					*ug/L*		*42*				
Surrogate: Nitrobenzene-d5					*ug/L*		*74*				
Surrogate: Phenol-d5					*ug/L*		*32*				
Surrogate: p-Terphenyl-d14					*ug/L*		*77*				

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Polychlorinated Biphenyls by EPA Method 8082											
Blank Analyzed: 05/13/10 (Lab Number:10E0854-BLK1, Batch: 10E0854)											
Aroclor 1016			0.50	0.18	ug/L	ND					QSU
Aroclor 1221			0.50	0.18	ug/L	ND					QSU
Aroclor 1232			0.50	0.18	ug/L	ND					QSU
Aroclor 1242			0.50	0.18	ug/L	ND					QSU
Aroclor 1248			0.50	0.18	ug/L	ND					QSU
Aroclor 1254			0.50	0.25	ug/L	ND					QSU
Aroclor 1260			0.50	0.25	ug/L	ND					QSU
Aroclor 1262			0.50	0.25	ug/L	ND					QSU
Aroclor 1268			0.50	0.25	ug/L	ND					QSU
Surrogate: Decachlorobiphenyl					*ug/L*		*59*	*12-137*			*QSU*
Surrogate: Tetrachloro-m-xylene					*ug/L*		*73*	*35-121*			*QSU*
LCS Analyzed: 05/13/10 (Lab Number:10E0854-BS1, Batch: 10E0854)											
Aroclor 1016		5.00	0.50	0.18	ug/L	ND		61-123			N1,QSU
Aroclor 1221			0.50	0.18	ug/L	ND					N1,QSU
Aroclor 1232			0.50	0.18	ug/L	ND					N1,QSU
Aroclor 1242			0.50	0.18	ug/L	ND					N1,QSU
Aroclor 1248			0.50	0.18	ug/L	ND					N1,QSU
Aroclor 1254			0.50	0.25	ug/L	ND					N1,QSU
Aroclor 1260		5.00	0.50	0.25	ug/L	ND		52-128			N1,QSU
Aroclor 1262			0.50	0.25	ug/L	ND					N1,QSU
Aroclor 1268			0.50	0.25	ug/L	ND					N1,QSU
Surrogate: Decachlorobiphenyl					*ug/L*		*40*	*12-137*			*N1,QSU*
Surrogate: Tetrachloro-m-xylene					*ug/L*		*54*	*35-121*			*N1,QSU*
Polychlorinated Biphenyls by EPA Method 8082											
Blank Analyzed: 05/14/10 (Lab Number:10E0904-BLK1, Batch: 10E0904)											
Aroclor 1016			190	36	ug/kg wet	ND					QSU
Aroclor 1221			190	36	ug/kg wet	ND					QSU
Aroclor 1232			190	36	ug/kg wet	ND					QSU
Aroclor 1242			190	40	ug/kg wet	ND					QSU
Aroclor 1248			190	36	ug/kg wet	ND					QSU
Aroclor 1254			190	39	ug/kg wet	ND					QSU
Aroclor 1260			190	87	ug/kg wet	ND					QSU
Aroclor 1262			190	39	ug/kg wet	ND					QSU

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Polychlorinated Biphenyls by EPA Method 8082											
Blank Analyzed: 05/14/10 (Lab Number:10E0904-BLK1, Batch: 10E0904)											
Aroclor 1268			190	39	ug/kg wet	ND					QSU
Surrogate: Decachlorobiphenyl					*ug/kg wet*		*105*	*34-148*			*QSU*
Surrogate: Tetrachloro-m-xylene					*ug/kg wet*		*109*	*35-134*			*QSU*
LCS Analyzed: 05/14/10 (Lab Number:10E0904-BS1, Batch: 10E0904)											
Aroclor 1016		2420	240	47	ug/kg wet	3150	130	59-154			QSU
Aroclor 1221			240	47	ug/kg wet	ND		0-200			QSU
Aroclor 1232			240	47	ug/kg wet	ND		0-200			QSU
Aroclor 1242			240	52	ug/kg wet	ND		0-200			QSU
Aroclor 1248			240	47	ug/kg wet	ND		0-200			QSU
Aroclor 1254			240	51	ug/kg wet	ND		0-200			QSU
Aroclor 1260		2420	240	110	ug/kg wet	3060	127	51-179			QSU
Aroclor 1262			240	51	ug/kg wet	ND		0-200			QSU
Aroclor 1268			240	51	ug/kg wet	ND		0-200			QSU
Surrogate: Decachlorobiphenyl					*ug/kg wet*		*117*	*34-148*			*QSU*
Surrogate: Tetrachloro-m-xylene					*ug/kg wet*		*127*	*35-134*			*QSU*
Matrix Spike Analyzed: 05/14/10 (Lab Number:10E0904-MS1, Batch: 10E0904)											
QC Source Sample: RTE0668-01											
Aroclor 1016	ND	2940	2900	580	ug/kg dry	ND		59-154			M4,QSU
Aroclor 1221	ND		2900	580	ug/kg dry	ND		0-200			M4,QSU
Aroclor 1232	ND		2900	580	ug/kg dry	ND		0-200			M4,QSU
Aroclor 1242	8410		2900	640	ug/kg dry	9880		0-200			M4,QSU
Aroclor 1248	ND		2900	580	ug/kg dry	ND		0-200			M4,QSU
Aroclor 1254	ND		2900	620	ug/kg dry	ND		0-200			M4,QSU
Aroclor 1260	ND	2940	2900	1400	ug/kg dry	ND		51-179			M4,QSU
Aroclor 1262	ND		2900	620	ug/kg dry	ND		0-200			M4,QSU
Aroclor 1268	ND		2900	620	ug/kg dry	ND		0-200			M4,QSU
Surrogate: Decachlorobiphenyl					*ug/kg dry*			*34-148*			*M4,QSU,Z3*
Surrogate: Tetrachloro-m-xylene					*ug/kg dry*			*35-134*			*M4,QSU,Z3*
Matrix Spike Dup Analyzed: 05/14/10 (Lab Number:10E0904-MSD1, Batch: 10E0904)											
QC Source Sample: RTE0668-01											
Aroclor 1016	ND	2520	2500	490	ug/kg dry	ND		59-154		50	M4,QSU
Aroclor 1221	ND		2500	490	ug/kg dry	ND		0-200		200	M4,QSU
Aroclor 1232	ND		2500	490	ug/kg dry	ND		0-200		200	M4,QSU

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Polychlorinated Biphenyls by EPA Method 8082											
Matrix Spike Dup Analyzed: 05/14/10 (Lab Number:10E0904-MSD1, Batch: 10E0904)											
QC Source Sample: RTE0668-01											
Aroclor 1242	8410		2500	550	ug/kg dry	12800		0-200	26	200	M4,QSU
Aroclor 1248	ND		2500	490	ug/kg dry	ND		0-200		200	M4,QSU
Aroclor 1254	ND		2500	530	ug/kg dry	ND		0-200		200	M4,QSU
Aroclor 1260	ND	2520	2500	1200	ug/kg dry	ND		51-179		50	M4,QSU
Aroclor 1262	ND		2500	530	ug/kg dry	ND		0-200		200	M4,QSU
Aroclor 1268	ND		2500	530	ug/kg dry	ND		0-200		200	M4,QSU
Surrogate: Decachlorobiphenyl					*ug/kg dry*			*34-148*			*M4,QSU,Z3*
Surrogate: Tetrachloro-m-xylene					*ug/kg dry*			*35-134*			*M4,QSU,Z3*

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
TCLP Herbicides by EPA Method 1311/8151A											
Blank Analyzed: 05/18/10 (Lab Number:10E1201-BLK1, Batch: 10E1201)											
2,4-D			0.50	0.40	ug/L	ND					
Silvex (2,4,5-TP)			0.50	0.36	ug/L	ND					
Surrogate: 2,4-Dichlorophenylacetic					*ug/L*		*74*	*19-128*			
Blank Analyzed: 05/18/10 (Lab Number:10E1201-BLK2, Batch: 10E1201)											
2,4-D			2.0	1.6	ug/L	ND					
Silvex (2,4,5-TP)			2.0	1.4	ug/L	ND					
Surrogate: 2,4-Dichlorophenylacetic					*ug/L*		*23*	*19-128*			
LCS Analyzed: 05/18/10 (Lab Number:10E1201-BS1, Batch: 10E1201)											
2,4-D		2.00	0.50	0.40	ug/L	1.86	93	32-150			
Silvex (2,4,5-TP)		2.00	0.50	0.36	ug/L	2.03	102	25-137			
Surrogate: 2,4-Dichlorophenylacetic					*ug/L*		*77*	*19-128*			
LCS Dup Analyzed: 05/18/10 (Lab Number:10E1201-BSD1, Batch: 10E1201)											
2,4-D		2.00	0.50	0.40	ug/L	2.83	141	32-150	42	50	
Silvex (2,4,5-TP)		2.00	0.50	0.36	ug/L	2.14	107	25-137	5	35	
Surrogate: 2,4-Dichlorophenylacetic					*ug/L*		*80*	*19-128*			

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
TCLP Pesticides by EPA Method 1311/8081A											
Blank Analyzed: 05/14/10 (Lab Number:10E1033-BLK1, Batch: 10E1033)											
Chlordane			0.50	0.029	ug/L	ND					QSU
Endrin			0.050	0.014	ug/L	ND					QSU
gamma-BHC (Lindane)			0.050	0.0060	ug/L	ND					QSU
Heptachlor			0.050	0.0085	ug/L	ND					QSU
Heptachlor epoxide			0.050	0.0053	ug/L	ND					QSU
Methoxychlor			0.050	0.014	ug/L	ND					QSU
Toxaphene			0.50	0.12	ug/L	ND					QSU
Surrogate: Decachlorobiphenyl					*ug/L*		*55*	*15-139*			*QSU*
Surrogate: Tetrachloro-m-xylene					*ug/L*		*81*	*30-139*			*QSU*
Blank Analyzed: 05/14/10 (Lab Number:10E1033-BLK2, Batch: 10E1033)											
Chlordane			2.0	0.12	ug/L	ND					QSU
Endrin			0.20	0.055	ug/L	ND					QSU
gamma-BHC (Lindane)			0.20	0.024	ug/L	ND					QSU
Heptachlor			0.20	0.034	ug/L	ND					QSU
Heptachlor epoxide			0.20	0.021	ug/L	ND					QSU
Methoxychlor			0.20	0.056	ug/L	ND					QSU
Toxaphene			2.0	0.48	ug/L	ND					QSU
Surrogate: Decachlorobiphenyl					*ug/L*		*84*	*15-139*			*QSU*
Surrogate: Tetrachloro-m-xylene					*ug/L*		*73*	*30-139*			*QSU*
LCS Analyzed: 05/14/10 (Lab Number:10E1033-BS1, Batch: 10E1033)											
Endrin		0.500	0.050	0.014	ug/L	0.494	99	43-134			QSU
gamma-BHC (Lindane)		0.500	0.050	0.0060	ug/L	0.462	92	68-120			QSU
Heptachlor		0.500	0.050	0.0085	ug/L	0.459	92	52-120			QSU
Heptachlor epoxide		0.500	0.050	0.0053	ug/L	0.477	95	65-120			QSU
Methoxychlor		0.500	0.050	0.014	ug/L	0.521	104	52-142			QSU
Surrogate: Decachlorobiphenyl					*ug/L*		*64*	*15-139*			*QSU*
Surrogate: Tetrachloro-m-xylene					*ug/L*		*79*	*30-139*			*QSU*

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Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
TCLP Metals											
Blank Analyzed: 05/13/10 (Lab Number:10E0932-BLK1, Batch: 10E0932)											
Arsenic			0.0100	0.0056	mg/L	ND					
Barium			0.0020	0.0003	mg/L	ND					
Cadmium			0.0010	0.0003	mg/L	ND					
Chromium			0.0040	0.0009	mg/L	ND					
Lead			0.0050	0.0030	mg/L	ND					
Selenium			0.0150	0.0087	mg/L	ND					
Silver			0.0030	0.0012	mg/L	ND					
LCS Analyzed: 05/13/10 (Lab Number:10E0932-BS1, Batch: 10E0932)											
Arsenic		1.00	0.0100	0.0056	mg/L	0.988	99	80-120			
Barium		1.00	0.0020	0.0003	mg/L	0.988	99	80-120			
Cadmium		1.00	0.0010	0.0003	mg/L	0.989	99	80-120			
Chromium		1.00	0.0040	0.0009	mg/L	0.993	99	80-120			
Lead		1.00	0.0050	0.0030	mg/L	0.989	99	80-120			
Selenium		1.00	0.0150	0.0087	mg/L	0.988	99	80-120			
Silver		1.00	0.0030	0.0012	mg/L	0.975	97	80-120			
Matrix Spike Analyzed: 05/13/10 (Lab Number:10E0932-MS1, Batch: 10E0932)											
QC Source Sample: RTE0668-02											
Arsenic	0.0126	1.00	0.0100	0.0056	mg/L	1.03	102	70-130			
Barium	0.177	1.00	0.0020	0.0003	mg/L	1.18	101	70-130			
Cadmium	0.00127	1.00	0.0010	0.0003	mg/L	0.993	99	70-130			
Chromium	0.00559	1.00	0.0040	0.0009	mg/L	1.03	102	70-130			
Lead	ND	1.00	0.0050	0.0030	mg/L	1.00	100	70-130			
Selenium	ND	1.00	0.0150	0.0087	mg/L	1.02	102	70-130			
Silver	0.00185	1.00	0.0030	0.0012	mg/L	0.973	97	70-130			
Matrix Spike Dup Analyzed: 05/13/10 (Lab Number:10E0932-MSD1, Batch: 10E0932)											
QC Source Sample: RTE0668-02											
Arsenic	0.0126	1.00	0.0100	0.0056	mg/L	0.976	96	70-130	5	20	
Barium	0.177	1.00	0.0020	0.0003	mg/L	1.13	95	70-130	5	20	
Cadmium	0.00127	1.00	0.0010	0.0003	mg/L	0.938	94	70-130	6	20	
Chromium	0.00559	1.00	0.0040	0.0009	mg/L	0.990	98	70-130	4	20	
Lead	ND	1.00	0.0050	0.0030	mg/L	0.944	94	70-130	6	20	
Selenium	ND	1.00	0.0150	0.0087	mg/L	0.955	96	70-130	6	20	
Silver	0.00185	1.00	0.0030	0.0012	mg/L	0.915	91	70-130	6	20	
TCLP Metals											
Blank Analyzed: 05/14/10 (Lab Number:10E0966-BLK1, Batch: 10E0966)											

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Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
TCLP Metals											
Blank Analyzed: 05/14/10 (Lab Number:10E0966-BLK1, Batch: 10E0966)											
Arsenic			0.0100	0.0056	mg/L	ND					
Barium			0.0020	0.0003	mg/L	0.0091					B
Cadmium			0.0010	0.0003	mg/L	ND					
Chromium			0.0040	0.0009	mg/L	ND					
Lead			0.0050	0.0030	mg/L	ND					
Selenium			0.0150	0.0087	mg/L	ND					
Silver			0.0030	0.0012	mg/L	ND					
Blank Analyzed: 05/14/10 (Lab Number:10E0966-BLK2, Batch: 10E0966)											
Arsenic			0.0100	0.0056	mg/L	ND					
Barium			0.0020	0.0003	mg/L	ND					
Cadmium			0.0010	0.0003	mg/L	ND					
Chromium			0.0040	0.0009	mg/L	ND					
Lead			0.0050	0.0030	mg/L	ND					
Selenium			0.0150	0.0087	mg/L	ND					
Silver			0.0030	0.0012	mg/L	ND					
LCS Analyzed: 05/14/10 (Lab Number:10E0966-BS1, Batch: 10E0966)											
Arsenic		1.00	0.0100	0.0056	mg/L	1.06	106	80-120			
Barium		1.00	0.0020	0.0003	mg/L	0.995	99	80-120			B
Cadmium		1.00	0.0010	0.0003	mg/L	1.02	102	80-120			
Chromium		1.00	0.0040	0.0009	mg/L	0.972	97	80-120			
Lead		1.00	0.0050	0.0030	mg/L	0.973	97	80-120			
Selenium		1.00	0.0150	0.0087	mg/L	1.09	109	80-120			
Silver		1.00	0.0030	0.0012	mg/L	1.03	103	80-120			
Matrix Spike Analyzed: 05/14/10 (Lab Number:10E0966-MS1, Batch: 10E0966)											
QC Source Sample: RTE0668-01											
Arsenic	0.0172	1.00	0.0100	0.0056	mg/L	0.921	90	70-130			
Barium	0.849	1.00	0.0020	0.0003	mg/L	1.66	82	70-130			B
Cadmium	0.0147	1.00	0.0010	0.0003	mg/L	0.825	81	70-130			
Chromium	0.0209	1.00	0.0040	0.0009	mg/L	0.806	78	70-130			
Lead	0.0678	1.00	0.0050	0.0030	mg/L	0.869	80	70-130			
Selenium	ND	1.00	0.0150	0.0087	mg/L	0.928	93	70-130			
Silver	ND	1.00	0.0030	0.0012	mg/L	0.899	90	70-130			
Matrix Spike Dup Analyzed: 05/14/10 (Lab Number:10E0966-MSD1, Batch: 10E0966)											
QC Source Sample: RTE0668-01											
Arsenic	0.0172	1.00	0.0100	0.0056	mg/L	1.03	101	70-130	11	20	
Barium	0.849	1.00	0.0020	0.0003	mg/L	1.79	94	70-130	7	20	B

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
TCLP Metals											
Matrix Spike Dup Analyzed: 05/14/10 (Lab Number:10E0966-MSD1, Batch: 10E0966)											
QC Source Sample: RTE0668-01											
Cadmium	0.0147	1.00	0.0010	0.0003	mg/L	0.926	91	70-130	12	20	
Chromium	0.0209	1.00	0.0040	0.0009	mg/L	0.907	89	70-130	12	20	
Lead	0.0678	1.00	0.0050	0.0030	mg/L	0.970	90	70-130	11	20	
Selenium	ND	1.00	0.0150	0.0087	mg/L	1.03	103	70-130	11	20	
Silver	ND	1.00	0.0030	0.0012	mg/L	1.01	101	70-130	12	20	
TCLP Metals											
Blank Analyzed: 05/13/10 (Lab Number:10E0984-BLK1, Batch: 10E0984)											
Mercury			0.0002	0.0001	mg/L	ND					
Blank Analyzed: 05/13/10 (Lab Number:10E0984-BLK2, Batch: 10E0984)											
Mercury			0.0002	0.0001	mg/L	ND					
LCS Analyzed: 05/13/10 (Lab Number:10E0984-BS1, Batch: 10E0984)											
Mercury		0.00670	0.0002	0.0001	mg/L	0.00707	105	80-120			
Matrix Spike Analyzed: 05/13/10 (Lab Number:10E0984-MS1, Batch: 10E0984)											
QC Source Sample: RTE0668-01											
Mercury	0.000238	0.00670	0.0002	0.0001	mg/L	0.00732	106	75-125			
Matrix Spike Dup Analyzed: 05/13/10 (Lab Number:10E0984-MSD1, Batch: 10E0984)											
QC Source Sample: RTE0668-01											
Mercury	0.000238	0.00670	0.0002	0.0001	mg/L	0.00723	104	75-125	1	20	
TCLP Metals											
Blank Analyzed: 05/17/10 (Lab Number:10E1234-BLK1, Batch: 10E1234)											
Mercury			0.0002	0.0001	mg/L	ND					
LCS Analyzed: 05/17/10 (Lab Number:10E1234-BS1, Batch: 10E1234)											
Mercury		0.00667	0.0002	0.0001	mg/L	0.00710	106	80-120			
Matrix Spike Analyzed: 05/17/10 (Lab Number:10E1234-MS1, Batch: 10E1234)											
QC Source Sample: RTE0668-02											
Mercury	ND	0.00667	0.0002	0.0001	mg/L	0.000550	8	75-125			M1
Matrix Spike Dup Analyzed: 05/17/10 (Lab Number:10E1234-MSD1, Batch: 10E1234)											
QC Source Sample: RTE0668-02											
Mercury	ND	0.00667	0.0002	0.0001	mg/L	0.000393	6	75-125	33	20	M1

AECOM - Latham, NY
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Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
LCS Analyzed: 05/12/10 (Lab Number:10E0928-BS1, Batch: 10E0928)											
pH		7.00	NA	0.00	SU	7.00	100	99.3-100.8			
General Chemistry Parameters											
LCS Analyzed: 05/13/10 (Lab Number:10E1024-BS1, Batch: 10E1024)											
Flashpoint		81.0	50.0	50.0	°F	82.0	101	97.5-102.5			
Duplicate Analyzed: 05/13/10 (Lab Number:10E1024-DUP1, Batch: 10E1024)											
QC Source Sample: RTE0668-02											
Flashpoint	than indicate		50.0	50.0	°F	Result is greater than indicated value (>176.0).			0	200	
General Chemistry Parameters											
LCS Analyzed: 05/13/10 (Lab Number:10E1025-BS1, Batch: 10E1025)											
pH		7.00	NA	0.00	SU	7.01	100	99.3-100.8			
General Chemistry Parameters											
Blank Analyzed: 05/14/10 (Lab Number:10E1119-BLK1, Batch: 10E1119)											
H2S Released From Waste			10.0	0.6	mg/kg	ND					
LCS Analyzed: 05/14/10 (Lab Number:10E1119-BS1, Batch: 10E1119)											
H2S Released From Waste		570	10.0	0.6	mg/kg	140	25	10-100			
Duplicate Analyzed: 05/14/10 (Lab Number:10E1119-DUP1, Batch: 10E1119)											
QC Source Sample: RTE0668-01											
H2S Released From Waste	80.2		10.0	0.6	mg/kg	80.2			0	20	
General Chemistry Parameters											
Blank Analyzed: 05/14/10 (Lab Number:10E1120-BLK1, Batch: 10E1120)											
H2S Released From Waste			10.0	0.6	mg/L	ND					
LCS Analyzed: 05/14/10 (Lab Number:10E1120-BS1, Batch: 10E1120)											
H2S Released From Waste		570	10.0	0.6	mg/L	140	25	10-100			

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Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
LCS Analyzed: 05/14/10 (Lab Number:10E1130-BS1, Batch: 10E1130)											
Flashpoint		81.0	50.0	50.0	°F	80.0	99	97.5-102.5			
General Chemistry Parameters											
Blank Analyzed: 05/15/10 (Lab Number:10E1202-BLK1, Batch: 10E1202)											
HCN Released From Waste			10.0	0.0030	mg/kg	ND					
LCS Analyzed: 05/15/10 (Lab Number:10E1202-BS1, Batch: 10E1202)											
HCN Released From Waste		1000	10.0	0.0030	mg/kg	500	50	10-100			
Duplicate Analyzed: 05/15/10 (Lab Number:10E1202-DUP1, Batch: 10E1202)											
QC Source Sample: RTE0668-01											
HCN Released From Waste	ND		10.0	0.0030	mg/kg	ND				20	
General Chemistry Parameters											
Blank Analyzed: 05/15/10 (Lab Number:10E1203-BLK1, Batch: 10E1203)											
HCN Released From Waste			10.0	0.0030	mg/L	ND					
LCS Analyzed: 05/15/10 (Lab Number:10E1203-BS1, Batch: 10E1203)											
HCN Released From Waste		1000	10.0	0.0030	mg/L	500	50	10-100			

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt ____ .
Drinking Water? Yes ☐ No ☑

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
AECOM	Frank Zedik	5/11/10	139943
Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 1
40 British American Blvd.	518-951-2242		
City / State / Zip Code	Site Contact / Lab Contact		
Latham NY 12110	N/A		
Project Name and Location (State)	Carrier/Waybill Number		
~~BASF~~ BASF - Rensselaer, NY			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): SVOA, TCLP Metals, TCLP VOA, PCBs, Cn/HS, TCLP ME, Flash, LPH, TCLP Pest, TCLP VOA	Special Instructions/ Conditions of Receipt
WW 1 1L. Amber	5/11/10	1330		✓			✓						6	
WW 1 VOAs	"	"		✓			✓						3	
WW 1 1L. Amber	"	"		✓			✓						2	
WW 1 500ml Poly	"	"		✓			✓						1	
WW 1 125ml Poly	"	"		✓			✓						1	
S 1 16oz glass	"	1400		✓	✓		✓						1	
S 1 4oz glass	"	"			✓		✓						2	

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☑ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other 5 DAY TAT

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
	5/11/10	1500		5/11/10	1500
2. Relinquished By	Date	Time	2. Received By	Date	Time
	5/11/10	1700		5-12-10	0900
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

2.0°

DISTRIBUTION: WHITE - Returned to Client with Report: CANARY - Stays with the Sample: PINK - Field Copy

Columbia Analytical Services, Inc.
1317 S. 13th Avenue, Kelso, WA 98626 360.577.7222 360.636.1068 (fax) www.caslab.com

September 14, 2010 Analytical Report for Service Request No: K1007400

Sean Crowell
AECOM Environment
2 Technology Park Drive
Westford, MA 01886

RE: BASF/60135965 450

Dear Sean:

Enclosed are the revised report pages for the samples submitted to our laboratory on July 17, 2010. For your reference, these analyses have been assigned our service request number K1007400.

The matrix was changed to soil to reflect the nature of the parent sample.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace
Project Chemist

EW/lb

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	AECOM	**Service Request:**	K1007400
Project:	BASF/60135965 450		

Cover Page - Organic Analysis Data Package
Chlorinated Pesticides by HRGC/MS/MS

Sample Name	Lab Code	Date Collected	Date Received
S1-2	K1007400-002	07/16/2010	07/17/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Carl Dagen

Date: 9/2/10 Title: Env Engineer

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1007400
Project:	BASF/60135965 450	**Date Collected:**	07/16/2010
Sample Matrix:	Soil	**Date Received:**	07/17/2010

Chlorinated Pesticides by HRGC/MS/MS

Sample Name:	S1-2	**Units:**	ng/L
Lab Code:	K1007400-002	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	CAS SOC-PESTMS2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
gamma-BHC (Lindane)	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
beta-BHC	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
delta-BHC	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Hexachlorobenzene	**5.8**		0.50	1	07/23/10	08/20/10	KWG1008193	
Heptachlor	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	*
Chlorpyrifos	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Aldrin	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Octachlorostyrene	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Isodrin	ND	U	2.0	1	07/23/10	08/20/10	KWG1008193	
Oxychlordane	ND	U	2.0	1	07/23/10	08/20/10	KWG1008193	
Heptachlor Epoxide	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
2,4'-DDE	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
gamma-Chlordane	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
alpha-Chlordane	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
trans-Nonachlor	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Endosulfan I	ND	U	2.0	1	07/23/10	08/20/10	KWG1008193	
4,4'-DDE	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
2,4'-DDD	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Dieldrin	ND	U	5.0	1	07/23/10	08/20/10	KWG1008193	
Endrin	ND	U	2.0	1	07/23/10	08/20/10	KWG1008193	
2,4'-DDT	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	*
cis-Nonachlor	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
4,4'-DDD	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Endosulfan II	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Endrin Aldehyde	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
4,4'-DDT	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	*
Endosulfan Sulfate	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Methoxychlor	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	*
Endrin Ketone	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Mirex	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	

* See Case Narrative

Comments:

Client: AECOM
Project: BASF/60135965 450
Sample Matrix: Soil

Service Request: K1007400
Date Collected: 07/16/2010
Date Received: 07/17/2010

Chlorinated Pesticides by HRGC/MS/MS

Sample Name: S1-2
Lab Code: K1007400-002

Units: ng/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
S_GBHCD6	135	5-124	08/20/10	Outside Control Limits
S_HXCBZ13C6	86	5-120	08/20/10	Acceptable
S_Heptachlor-13C10	217	5-128	08/20/10	Outside Control Limits
S_Chlorpyrifos-d10	97	5-200	08/20/10	Acceptable
S_Aldrin-13C12	84	5-126	08/20/10	Acceptable
S_Oestyrene13C8	80	5-120	08/20/10	Acceptable
S_Isodrin-13C12	114	5-120	08/20/10	Acceptable
S_Oxychlordane-13C10	108	5-144	08/20/10	Acceptable
S_Heptachlrepox13C10	81	8-146	08/20/10	Acceptable
S_Endrin-13C12	118	20-157	08/20/10	Acceptable
S_4,4'DDD-d4	86	5-120	08/20/10	Acceptable
S_4,4'-DDT-d4	188	13-200	08/20/10	Acceptable
S_Mxchlord14	142	8-200	08/20/10	Acceptable
S_Endrinket13C12	92	5-120	08/20/10	Acceptable
S_Mirex-13C10	72	5-138	08/20/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1007400
Project:	BASF/60135965 450	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Chlorinated Pesticides by HRGC/MS/MS

Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KWG1008193-3	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	CAS SOC-PESTMS2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
gamma-BHC (Lindane)	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
beta-BHC	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
delta-BHC	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Hexachlorobenzene	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Heptachlor	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Chlorpyrifos	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Aldrin	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Octachlorostyrene	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Isodrin	ND	U	2.0	1	07/23/10	08/20/10	KWG1008193	
Oxychlordane	ND	U	2.0	1	07/23/10	08/20/10	KWG1008193	
Heptachlor Epoxide	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
2,4'-DDE	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
gamma-Chlordane	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
alpha-Chlordane	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
trans-Nonachlor	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Endosulfan I	ND	U	2.0	1	07/23/10	08/20/10	KWG1008193	
4,4'-DDE	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
2,4'-DDD	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Dieldrin	ND	U	5.0	1	07/23/10	08/20/10	KWG1008193	
Endrin	ND	U	2.0	1	07/23/10	08/20/10	KWG1008193	
2,4'-DDT	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
cis-Nonachlor	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
4,4'-DDD	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Endosulfan II	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Endrin Aldehyde	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
4,4'-DDT	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Endosulfan Sulfate	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Methoxychlor	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Endrin Ketone	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Mirex	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	

Comments:

Client: AECOM
Project: BASF/60135965 450
Sample Matrix: Soil

Service Request: K1007400
Date Collected: NA
Date Received: NA

Chlorinated Pesticides by HRGC/MS/MS

Sample Name: Method Blank
Lab Code: KWG1008193-3

Units: ng/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
S_GBHCD6	91	5-124	08/20/10	Acceptable
S_HXCBZ13C6	64	5-120	08/20/10	Acceptable
S_Heptachlor-13C10	108	5-128	08/20/10	Acceptable
S_Chlorpyrifos-d10	96	5-200	08/20/10	Acceptable
S_Aldrin-13C12	72	5-126	08/20/10	Acceptable
S_Oestyrene13C8	64	5-120	08/20/10	Acceptable
S_Isodrin-13C12	73	5-120	08/20/10	Acceptable
S_Oxychlordane-13C10	99	5-144	08/20/10	Acceptable
S_Heptachlrepox13C10	100	8-146	08/20/10	Acceptable
S_Endrin-13C12	101	20-157	08/20/10	Acceptable
S_4,4'DDD-d4	85	5-120	08/20/10	Acceptable
S_4,4'-DDT-d4	90	13-200	08/20/10	Acceptable
S_Mxchlord14	102	8-200	08/20/10	Acceptable
S_Endrinket13C12	96	5-120	08/20/10	Acceptable
S_Mirex-13C10	61	5-138	08/20/10	Acceptable

Comments:

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 804070

Customer Name AECOMMA-106169NY AECOM
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 9-23-004
Destination
PO 647578
Profile 106169NY (NH-VOC CONTAMINATED SOIL)
Generator 190-BASF BASF CORP

Carrier SIL SILVAROLE TRUCKING, INC.
Vehicle# 84
Container
Driver
Check#
Billing # 0005701
Gen EPA ID
Grid CELL 10

Volume

	Time	Scale	Operator	Inbound		
In	09/23/2010 13:26:57	A_Scale_1	SAYRA		Gross	103380 lb
Out	09/23/2010 13:51:44	B_Scale_2	SMARVIN		Tare	37560 lb
					Net	65820 lb
					Tons	32.91

Comments

	Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	32.91	Tons				REN
2	TPT-TRANS PER TON	100	32.91	Tons				

Total Fees

Total Ticket

river's Signature Rodney

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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NY DO 932494688			9-23-004

5. Generator's Name and Mailing Address: BASF CORPERATION 36 RIVERSIDE AVE RENSSELEAR NY

Generator's Site Address (if different than mailing address)

Generator's Phone: 518-465-6534

6. Transporter 1 Company Name: SILVEROLE TRUCKING 8A-190 — 585-276-0741 — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: HIGH ACRES LANDFILL 425 PERINTON PKWY, FAIRPORT NY 14450 — U.S. EPA ID Number

Facility's Phone: 585-223-6132

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZ VOC CONTAMINATED SOIL NON RCRA - NON REG		DT	35	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

CHEMTREC EMERGENCY RESONSE NUMBER 800-832-HELP

106169 NY

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair — Signature: Wayne St. Clair — Month: 9 Day: 23 Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rod Griffin — Signature: Rodney — Month: 9 Day: 23 Year: 10

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Sayra Duffy — Signature: SD — Month: 9 Day: 23 Year: 10

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 804069

Customer Name AECOMMA-106169NY AECOM
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 9-23-003
Destination
PO 647578
Profile 106169NY (NH-VOC CONTAMINATED SOIL)
Generator 190-BASF BASF CORP

Carrier SIL SILVAROLE TRUCKING, INC.
Vehicle# 83 Volume
Container
Driver
Check#
Billing # 0005701
Gen EPA ID
Grid CELL 10

	Time	Scale	Operator	Inbound		
In	09/23/2010 13:25:23	A_Scale_1	SAYRA		Gross	96340 lb
Out	09/23/2010 13:41:52	B_Scale_2	SMARVIN		Tare	36680 lb
					Net	59660 lb
					Tons	29.83

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	29.83	Tons				REN
2	TPT-TRANS PER TON	100	29.83	Tons				

Total Fees

Total Ticket

Driver's Signature _____

5-83

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NY DO 9324968 88			9-23-003

5. Generator's Name and Mailing Address: BASF CORPORATION 36 RIVERSIDE AVE RENSSELAER NY.

Generator's Site Address (if different than mailing address)

Generator's Phone: 518-465-6534

6. Transporter 1 Company Name: SILVEROLE TRUCKING 585-276-0741 8A-190 — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: HIGH ACRES LANDFILL 425 PERINTON PKWY, FAIRPORT, NY 14450 — U.S. EPA ID Number

Facility's Phone: 585-223-6132

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZ VOC CONTAMINATED SOIL NON-RERA - NON REG		DT	EST 35	T	
2.	PRO# 108 169 NY					
3.						
4.						

13. Special Handling Instructions and Additional Information

CHEM TREC EMERGENCY RESONSE NUMBER 800-832-HELP

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St Clair — Signature: Wayne St Clair — Month 9 Day 23 Year 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JEFF HOBES — Signature: [signature] — Month 9 Day 23 Year 10

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Sayre Utts — Signature: [signature] — Month 9 Day 30 Year 10

169-BLC-O 5 11977 (Rev. 8/06)

DESIGNATED FACILITY TO GENERATOR

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 804034

Customer Name	AECOMMA-106169NY AECOM	Carrier	SIL SILVAROLE TRUCKING, INC.
Ticket Date	09/23/2010	Vehicle#	211 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0005701
State Waste Code		Gen EPA ID	
Manifest	**	Grid	CELL 10
Destination			
PO	647578		
Profile	106169NY (NH-VOC CONTAMINATED SOIL)		
Generator	190-BASF BASF CORP		

	Time	Scale	Operator	Inbound		
In	09/23/2010 12:19:55	A_Scale_1	SMARVIN		Gross	117540 lb
Out	09/23/2010 12:35:40	B_Scale_2	SMARVIN		Tare	39380 lb
					Net	78160 lb
					Tons	39.08

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	39.08	Tons				REN
2	TPT-TRANS PER TON	100	39.08	Tons				

Total Fees

Total Ticket

river's Signature Charlie

2/1

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NY PO 9324968 8			9-23-002

5. Generator's Name and Mailing Address: BASF CORPORATION
Generator's Site Address (if different than mailing address): 36 RIVERSIDE AVE RENSSELAER NY
Generator's Phone: 518-465-6534

6. Transporter 1 Company Name: SILVEROLE TRUCKING 585-276-0741 BA-190
U.S. EPA ID Number: NY

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: HIGH ACRES LANDFILL 425 PERINTON PKWY FAIRPORT, NY 14450
U.S. EPA ID Number
Facility's Phone: 585-223-6132

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZ VOC CONTAMINATED SOIL NON-RCRA NON REG		DT	EST 35	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

CHEM TREC EMERGENCY RESPONSE NUMBER 800-832-HELP
1061169NY

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Wayne St Clair	Wayne St. Clair	9	23	10

INTL
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Charles King	Charles King	9	23	10
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year
Jaclyn Pilgrim	Jaclyn Pilgrim	9	23	10

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 804027

Customer Name AECONMA-106169NY AECOM
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest **
Destination
PO 647578
Profile 106169NY (NH-VOC CONTAMINATED SOIL)
Generator 190-BASF BASF CORP

Carrier SIL SILVAROLE TRUCKING, INC.
Vehicle# 96-T28 Volume
Container
Driver
Check#
Billing # 0005701
Gen EPA ID
Grid CELL 10

	Time	Scale	Operator	Inbound		
In	09/23/2010 12:00:38	A_Scale_1	JPILGRIM		Gross	106780 lb
Out	09/23/2010 12:15:49	B_Scale_2	SMARVIN		Tare	37840 lb
					Net	68940 lb
					Tons	34.47

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	34.47	Tons				REN
2	TPT-TRANS PER TON	100	34.47	Tons				

Total Fees
Total Ticket

Driver's Signature Bobby

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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYD093249688			9-03-001

5. Generator's Name and Mailing Address
BASF Corporation

Generator's Site Address (if different than mailing address)
36 Riverside Ave.
Rensselaer, NY

Generator's Phone: 518-465-6534 585-272-0741

6. Transporter 1 Company Name
SILVEROLE TRUCKING
8A-190

U.S. EPA ID Number
NYD093249688

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
HIGHACRES LANDFILL
425 PERINTON PKWY, FAIRPORT, NY 14450

U.S. EPA ID Number

Facility's Phone: 585-223-6132

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZ-VOC CONTAMINATED NON-RCRA-NONREG. SOIL		DT	ETT 35	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

CHEMTREC EMERGENCY RESPONSE NUMBER 800-832-HELP

Profile # 106169NY

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair
Signature: Wayne St. Clair
Month: 9 Day: 23 Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Robert Silvarole
Signature:
Month: 9 Day: 23 Year: 10

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Jaclyn Pilgrim
Signature: Jaclyn Pilgrim
Month: 9 Day: 23 Year: 10

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 804258

Customer Name AECOMMA-106169NY AECOM
Ticket Date 09/24/2010
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 9/24/006
Destination
PO 647578
Profile 106169NY (NH-VOC CONTAMINATED SOIL)
Generator 190-BASF BASF CORP

Carrier SIL SILVAROLE TRUCKING, INC.
Vehicle# 84 Volume
Container
Driver
Check#
Billing # 0005701
Gen EPA ID
Grid CELL 10

	Time	Scale	Operator	Inbound		
In	09/24/2010 14:24:01	A_Scale_1	sayra		Gross	103200 lb*
Out	09/24/2010 14:51:26	B_Scale_2	sayra		Tare	37600 lb
			* Manual Weight		Net	65600 lb
					Tons	32.80

Comments

	Product	LDx	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	32.80	Tons				REN
2	TPT-TRANS PER TON	100	32.80	Tons				

Total Fees
Total Ticket

River's Signature Bdrey

0320

106/09 NY

PROFILE ~~647578~~

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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NY D0 93244688			9-24-006

5. Generator's Name and Mailing Address: BASF CORPORATION 36 RIVERSIDE AVE RENSSELAER NY

Generator's Site Address (if different than mailing address)

Generator's Phone: 518-465-6534

6. Transporter 1 Company Name: SILVERBERG TRUCKING BA-190 585-276-0741 — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: HIGH ACRES LANDFILL 425 PERINTON PKWY, FAIRPORT NY 14450 — U.S. EPA ID Number

Facility's Phone: 585-223-6132

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZ VOC CONTAMINATED SOIL NON RCRA NON REG		DT	58T 35	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

CHEMTREC EMERGENCY RESPONSE NUMBER 800-892-HELP

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair — Signature: Wayne St. Clair — Month 09 Day 24 Year 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rodney Griffith — Signature: Rodney Griffith — Month 09 Day 24 Year 10

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Sabrina Ranallette — Signature: Sabrina Ranallette — Month 9 Day 24 Year 10

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 804235

Customer Name AECOMMA-106169NY AECOM
Ticket Date 09/24/2010
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 9-24-008
Destination
PO 647578
Profile 106169NY (NH-VOC CONTAMINATED SOIL)
Generator 190-BASF BASF CORP

Carrier SIL SILVAROLE TRUCKING, INC.
Vehicle# 95 Volume
Container
Driver
Check#
Billing # 0005701
Gen EPA ID
Grid CELL 10

	Time	Scale	Operator	Inbound		
In	09/24/2010 13:04:04	A_Scale_1	sayra		Gross	92240 lb
Out	09/24/2010 13:25:19	B_Scale_2	sayra		Tare	35520 lb
					Net	56720 lb
					Tons	28.36

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	28.36	Tons				REN
2	TPT-TRANS PER TON	100	28.36	Tons				

Total Fees
Total Ticket

Driver's Signature _____

404WM

9'5

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYDC932446888			9-24-008

5. Generator's Name and Mailing Address: BASF CORP. 36 RIVERSIDE AVE RENSSELEAR NY
Generator's Site Address (if different than mailing address):
Generator's Phone: 518-465-6534

6. Transporter 1 Company Name: SILVOROLE TRUCKING 8A-190 585-276-0741
U.S. EPA ID Number:

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: HIGH ACRES LANDFILL 425 PERINTON PKWY, FAIRPOINT, NY 14450
U.S. EPA ID Number: 585-223-6132
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZ VOC CONTAMINATED SOIL NON RCRA NON REG		DT	35	T	
2.	169 NY 106					
3.	PROFILE # 647578					
4.						

13. Special Handling Instructions and Additional Information
CHEMTREC EMERGENCY RESPONSE NUMBER 800-832-HELP

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: Wayne St. Clair
Signature: Wayne St. Clair
Month 09 Day 24 Year 10

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DAN BAIRD
Signature:
Month 9 Day 24 Year 10
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name:
Signature:
Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 8/06)

DESIGNATED FACILITY TO GENERATOR

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Reprint
Ticket# 804234

Customer Name AECOMMA-106169NY AECOM
Ticket Date 09/24/2010
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 9-24-007
Destination
PO 647578
Profile 106169NY (NH-VOC CONTAMINATED SOIL)
Generator 190-BASF BASF CORP

Carrier SIL SILVAROLE TRUCKING, INC.
Vehicle# 102 Volume
Container
Driver
Check#
Billing # 0005701
Gen EPA ID
Grid CELL 10

	Time	Scale	Operator	Inbound		
In	09/24/2010 13:03:13	A_Scale_1	sayra		Gross	104300 lb
Out	09/24/2010 13:22:16	B_Scale_2	sayra		Tare	37060 lb
					Net	67240 lb
					Tons	33.62

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	33.62	Tons				REN
2	TPT-TRANS PER TON	100	33.62	Tons				

Total Fees

Driver's Signature Rick

Total Ticket

404WM

102

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYD093244688			9-24-007

5. Generator's Name and Mailing Address: BASF CORP 36 RIVERSIDE AVE RENSSELEAR NY
Generator's Site Address (if different than mailing address):
Generator's Phone: 518-465-6534

6. Transporter 1 Company Name: SILVEROLE TRUCKING BA-190 — U.S. EPA ID Number: 585-276-0741

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: HIGH ACRE LANDFILL
425 PERINTON PKWY, FAIRPORT NY 14460 — U.S. EPA ID Number: 585-223-6132
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZ VOC CONTAMINATED SOIL NON RCRA NON REG		DT	EST 35	T	
2.						
3.	PROFILE # 647578					
4.	10616 NY					

13. Special Handling Instructions and Additional Information
CHEMTREC EMERGENCY RESPONSE NUMBER
800-832-HELP

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair — Signature: Wayne St. Clair — Month: 09 Day: 24 Year: 10

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rick DeCarolis — Signature — Month: 9 Day: 24 Year: 10

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Jayne Duffy — Signature — Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 804222

Customer Name AECOMMA-106169NY AECOM
Ticket Date 09/24/2010
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 9-24-005
Destination
PO 647578
Profile 106169NY (NH-VOC CONTAMINATED SOIL)
Generator 190-BASF BASF CORP

Carrier MAN MANGIARDI TRUCKING
Vehicle# 54
Container
Driver
Check#
Billing # 0005701
Gen EPA ID
Grid CELL 10

Volume

	Time	Scale	Operator
In	09/24/2010 12:41:24	A_Scale_1	sayra
Out	09/24/2010 12:57:45	B_Scale_2	sayra
			* Manual Weight

Inbound

Gross	103840 lb*
Tare	38540 lb
Net	65300 lb
Tons	32.65

Comments

	Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	32.65	Tons				REN
2	TPT-TRANS PER TON	100	32.65	Tons				

Total Fees

Total Ticket

Driver's Signature

TRIP OR 33

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYD 093244688			9-24-005

5. Generator's Name and Mailing Address: BASF CORPORATION 36 RIVERSIDE AVE RENSSELAER NY
Generator's Site Address (if different than mailing address)
Generator's Phone: 518-465-6634

6. Transporter 1 Company Name: MANGARDI TRUCKING 4A-209 SRB-477-8940 — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: HIGH ACRES LAND FILL — U.S. EPA ID Number
Facility's Phone: 425 PERINTON PKWY FAIRPORT, NY 14450 585-223-6132

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON-HAZ VOC CONTAMINATED SOIL NON REG ~~NON REG~~		DT	EST 55	T
2.					
3.	Profile# ~~647578~~				
4.	106169 NY				

13. Special Handling Instructions and Additional Information
CHEMTREC EMERGENCY RESPONSE NUMBER 800-832-NEW

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: Wayne St. Clair — Signature: Wayne St. Clair — Month 09 Day 24 Year 10

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Joe Mangardi — Signature — Month 9 Day 24 Year 10
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Sawyer Duffy — Signature — Month 9 Day 24 Year 10

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 804284

Customer Name	AECOMMA-106169NY AECOM	Carrier	MAN MANGIARDI TRUCKING
Ticket Date	09/27/2010	Vehicle#	50 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0005701
State Waste Code		Gen EPA ID	
Manifest	9-24-010	Grid	CELL 10
Destination			
PO	647578		
Profile	106169NY (NH-VOC CONTAMINATED SOIL)		
Generator	190-BASF BASF CORP		

	Time	Scale	Operator	Inbound		
In	09/27/2010 07:06:17	A_Scale_1	mmaloney		Gross	79840 lb
Out	09/27/2010 07:29:21	B_Scale_2	mmaloney		Tare	37600 lb
					Net	42240 lb
					Tons	21.12

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	21.12	Tons				REN
2	TPT-TRANS PER TON	100	21.12	Tons				

Total Fees

Total Ticket

river's Signature _____

50

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYD0 932446888			9-24-010

5. Generator's Name and Mailing Address: BASF Corp

Generator's Site Address (if different than mailing address): 36 RIVERSIDE AVE RENSSELAER NY

Generator's Phone: 585-465-6534

6. Transporter 1 Company Name: MANGARDI TRUCKING 4A-209 518-477-8940 — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: HIGH ACRES LANDFILL 425 PERINTON PKWY FAIRPORT, NY 14450 — U.S. EPA ID Number: 585-223-6132

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZ VOC CONTAMINATED SOIL NON RCRA NON REG		DT	EST 35	T	
2.						
3.						
4.	PROFILE # 10619 NM 647578 DF					

13. Special Handling Instructions and Additional Information

CHEMTREC EMERGENCY RESPONSE NUMBER 800-852-HELP

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair — Signature: Wayne St. Clair — Month 09 Day 24 Year 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Donald Fiske TK#50 — Signature: Donald Fiske — Month 9 Day 24 Year 10

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Mary Maloney — Signature: Mary Maloney — Month 09 Day 27 Year 10

169-BLC-O 5 11977 (Rev. 8/06) **DESIGNATED FACILITY TO GENERATOR**

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 804500

Customer Name AECOMMA-106169NY AECOM
Ticket Date 09/28/2010
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 9-24-009
Destination
PO 647578
Profile 106169NY (NH-VOC CONTAMINATED SOIL)
Generator 190-BASF BASF CORP

Carrier MAN MANGIARDI TRUCKING
Vehicle# 51
Container
Driver
Check#
Billing # 0005701
Gen EPA ID
Grid CELL 10

Volume

	Time	Scale	Operator	Inbound		
In	09/28/2010 10:32:12	A_Scale_1	SAYRA		Gross	96340 lb
Out	09/28/2010 10:55:20	B_Scale_2	mmaloney		Tare	38300 lb
					Net	58040 lb
					Tons	29.02

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	29.02	Tons				REN
2	TPT-TRANS PER TON	100	29.02	Tons				

Total Fees
Total Ticket

Driver's Signature _____

51

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NY DO 73244688			9-24-009

5. Generator's Name and Mailing Address: BASF CORP

Generator's Site Address (if different than mailing address): 36 RIVERSIDE AVE RENSSELEAR NY 518-465-6534

Generator's Phone:

6. Transporter 1 Company Name: MANGARDI TRUCKING 4A-209 518-477-8940 — U.S. EPA ID Number:

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: HIGH ACRES LANDFILL 425 PERINTON PKWY, FAIRPORT, NY 14450 — U.S. EPA ID Number: 585-223-6132

Facility's Phone:

GENERATOR

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NON-HAZ VOC CONTAMINATED SOIL NON RCRA NON REG		DT	EST 35	T
2.				
3. PROFILE # ~~647578~~ 106169 NY				
4.				

13. Special Handling Instructions and Additional Information

CHEMTREC EMERGENCY RESPONSE NUMBER 800-832-HELP

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair — Signature: Wayne St. Clair — Month 09 Day 24 Year 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Seth Spencer — Signature: [signature] — Month 9 Day 24 Year 10

Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [signature] — Signature: 83 — Month 9 Day 28 Year 10

169-BLC-O 5 11977 (Rev. 8/06) **DESIGNATED FACILITY TO GENERATOR**

Appendix B

Cell 3 and 4 Disposal Documents

FOR STATE USE ONLY		
SITE NO.	APPLICATION NO.	DATE RECEIVED
DEPARTMENT ACTION Approved Disapproved		DATE

{PRIVATE} ***SPECIAL WASTE CHARACTERIZATION PROFILE***

Disposal Facility Location (Choose One or More)	*Disposal Option*
Ontario County Landfill	**Waste** **BUD: _____ ADC,** **Other (describe)**

1) Company Generating Waste	**Address of Facility Generating Waste (Street, City, State, Zip)**		**County of Origin**
BASF Corporation	36 Riverside Avenue, Rensselaer, New York		Rensselaer
2) Representative of Generator (same as generator's signature) **Wayne St. Clair (Engineer)**	**Mailing Address of Representative** 36 Riverside Avenue, Rensselaer, NY	**Telephone No.** **518-465-6534**	**Fax No.** **518-465-7095**

3) Description of Facility/Process Generating Waste

Material was dredged from Hudson River, original source is various operations resulting from the sites former use as a production facility.

4) Description of waste (debris-containing, composition, uniform or mixture, etc.)

Grey, Brown soil with HDPE and fabric liner approximately 5%.

5) Is Waste Hazardous

Yes X No

6) Expected Annual Amount of Waste To Be Delivered	**Approximate Density of Waste**
900 **tons/year** 2,000 **cubic yards/year**	2700 **pounds/cubic yard**

7) Expected Frequency of Delivery

X **one-time**

_____ **daily** _____ **weekly** _____ **monthly** _____ **other (specify, if known)**

8) Hauler Name	**Address**	**NYSDEC Permit No.**	**Telephone No.**
Mangiardi Bros. Trucking INC.	4139 State Route 20, Castleton, N.Y. 12033	Exp. Date:	(518) 477-8940

9) Method of Delivery. If other, specify.

_____ roll-off _____ packer truck ___X__ tractor trailer _____ other

10) Previous Disposal Location	Address	Phone	Contact Person

{PRIVATE} *Waste Characterization Data*

11) Is the waste classified as a "listed" or "characteristic" hazardous waste as defined by USEPA, or State of origin, or State where disposed? (If yes, explain.)

No

12) Describe all hazardous or nuisance properties associated with the waste.

NA

13) Does the waste require any special handling or disposal procedures? If so, explain.

No

14) Analytical Data Submitted (TCLP/Other).	Type of Samples (indicate No. of each type in space provided)
YES-(TCLP and total VOCs 8260, Bulk Density ASTME 1109, Percent Moisture, TCLP and total RCRA 8 Metals, Total Sulfide, pH, PCBs, TCLP Chlorinated Pesticides, TCLP Chlorinated Herbicides, Diesel Range Organics) Please note that samples of concern are TC-3A1, TC-4A1, S-1, Composite 1, Composite 2 and Composite 3. Others represent different material and are only provided because they are on the lab reports.	__1__ grab __5__ composite -Sample S-1 is a grab sample collected prior to treatment of the sediment by addition of LKD and peat moss and is provided only as and indication that Herbicides are not a COC. -Composite 1, 2, and 3 are for PCB data only -TC-3A1 and TC-4A1 data covers all other requirements

New England Waste Services of N.Y., Inc. requires, at a minimum, the submittal of full TCLP (Metals-RCRA 8, VOC, SVOC, PCBs, Pesticides/Herbicides), pH, Reactivity, Ignitibility, and % solids testing results for any special waste submitted for landfill acceptance unless the applicant can provide an acceptable justification for submittal of less comprehensive data. The generator is responsible for proper waste characterization.

15) Justification for not submitting full TCLP data.

NA - TCLP DATA PROVIDED

GENERATOR CERTIFICATION

I hereby certify that (1) all information submitted on this form and on supplemental materials is complete and accurate to the best of my knowledge and ability to determine; (2) the information provided herein, including any supplemental information, such as laboratory analytical, MSDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed. I understand that, once the waste stream is approved by Casella based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal, at the sole discretion of Casella. I further understand that any deviation from the information contained herein will require immediate notification to the disposal facility and cessation of disposal.

Generator's Authorized Representative - Signature:	Print name:	Print Title:	Date:
Wayne St. Clair	Wayne St. Clair	Sapti Engineering	5/10/11

DISPOSITION (to be completed by Casella Waste Systems, Inc.)			
Received by:		**Date Received:**	**Date Logged In:**
Approved by:		**Project Name:**	
Title:			
Submitted to Casella PC&E	**Date:**	**Casella PC&E Approval**	**Date:**
Submitted to NYSDEC	**Date:**	**NYSDEC Approval**	**Date:**

Columbia Analytical Services, Inc.
1317 S. 13th Avenue, Kelso, WA 98626 360.577.7222 360.636.1068 (fax) www.caslab.com

January 24, 2011 Analytical Report for Service Request No: K1014072

Sean Crowell
AECOM Environment
2 Technology Park Drive
Westford, MA 01886

RE: BASF/ Rensselaer/60135965.451

Dear Sean:

Enclosed are the results of the samples submitted to our laboratory on December 17, 2010. For your reference, these analyses have been assigned our service request number K1014072.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Ed Wallace
Project Chemist

EW/dlm

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value that was detected outside the quantitation range.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value that was detected outside the quantitation range.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value that was detected outside the quantitation range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	AECOM	**Service Request No.:**	K1014072
Project:	BASF/Rensselaer	**Date Received:**	12/17/10
Sample Matrix:	Soil		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Twenty-two soil samples were received for analysis at Columbia Analytical Services on 12/17/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Total Sulfide by EPA Method 9030M:
The Relative Percent Difference (RPD) for the replicate analysis of Total Sulfide in sample TC-1A was outside the normal CAS control limits. The variability in the results was attributed to the heterogeneous character of the sample. Standard mixing techniques were used, but were not sufficient for complete homogenization of this sample.

pH by EPA Method 9045D:
In accordance with the 2007 EPA Methods Update Rule published in the Federal Register, the holding time for pH is 15 minutes from sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

TCLP Metals

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Mercury for sample TC-3A1 were not applicable. The analyzed concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Total Metals

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Mercury for sample TC-1A were not applicable. The analyzed concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Diesel Range Organics by EPA Method 8015B

Surrogate Exceptions:

Approved by EKW **Date** 2/2/11

The control criteria for o-Terphenyl in samples TC-3A1, TC-4A1, and TC-1A was not applicable. The analysis of the samples required a dilution, which resulted in a surrogate concentration below the reporting limit. No further corrective action was appropriate.

TCLP Volatiles by EPA Method 1311/8260B

No anomalies with the analysis of these samples were observed.

Volatile Organic Compounds by EPA Method 8260B

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike and duplicate matrix spike recovery of 1,2-Dichlorobenzene for samples TC-2AMS KWG1014271-4 and TC-2ADMS KWG1014271-5 was not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

The matrix spike recovery of 1,2,4-Trichlorobenzene for sample TC-2AMS KWG1014271-4 was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicated the analytical batch was in control. The matrix spike outlier suggested a potential high bias in this matrix. No further corrective action was appropriate.

Lab Control Sample Exceptions:
The lower control criterion of 72% was exceeded for Carbon Tetrachloride at 71% in Laboratory Control Sample (LCS) KWG1014271-1 and Duplicate Laboratory Control Sample (DLCS) KWG1014271-2. Carbon Tetrachloride is a control compound. The samples were analyzed against the failed LCS in order to meet hold times. The analyte in question was not detected in the field samples analyzed against this LCS. The error associated with reduced recovery indicated a potential low bias.

Elevated Detection Limits:
Several samples required further dilution than the normal mid-level dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

Sample Notes and Discussion:
The samples were not analyzed for the client requested CLP analytes. Samples were being analyzed on hold and without prior notice of the requested CLP analytes, a calibration could not be performed in order to have the samples analyzed within hold times.

Organochlorine Pesticides after TCLP Extraction by EPA Method 8270C (GC/MS/MS)

Surrogate Exceptions:
The control criteria were exceeded for Heptachlor-13C10 in samples TC-3A1 and TC-4A1 due to matrix interference. The presence of non-target background components prevented adequate resolution of the surrogate. Accurate quantitation was not possible. No further corrective action was appropriate.

Sample Notes and Discussion:
A Matrix Spike/Matrix Spike Duplicate (MS/MSD) was not extracted with this sample batch. A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for these samples.

Semivolatile Organic Compounds by EPA Method 8270C

Surrogate Exceptions:
The control criteria were exceeded for various surrogates in all field samples and associated matrix spike samples due to matrix interference. The presence of non-target background components prevented adequate resolution of the surrogate. Accurate quantitation was not possible. No further corrective action was appropriate.

Approved by EMW **Date** 2/2/11

Internal Standard Exceptions:
The internal standard recovery of Naphthalene-d8 in sample TC-3A1DMS was outside control criteria because of suspected matrix interference. The extract was reanalyzed at a dilution. The internal standard in question was within control criteria in the diluted analysis. All affected analytes were reported from the diluted analysis.

Matrix Spike Recovery Exceptions:
The matrix spike recovery of various analytes for sample TC-3A1 was outside control criteria because of suspected matrix interference. A matrix spike duplicate was also analyzed, but produced similar results. The results of the original analysis were reported. No further corrective action was appropriate.

Lab Control Sample Exceptions:
The advisory criterion was exceeded for various analytes in the replicate Laboratory Control Samples (LCS/DLCS) KWG1014244-3 and KWG1014244-4. As per the CAS/Kelso Standard Operating Procedure (SOP) for this method, these compounds are not included in the subset of analytes used to control the analysis. The recovery information reported for these analytes is for advisory purposes only (i.e. to provide additional detail related to the performance of each individual compound). No further corrective action was required.

The recoveries of Benzaldehyde, Caprolactam, and Atrazine in the replicate Laboratory Control Samples (LCS/DLCS) KWG1014244-3 and KWG1014244-4 were outside the control limits listed in the results summary. The limits are default values temporarily in use until sufficient data points are generated to calculate statistical control limits. Based on the method and historic data, the recoveries observed were in the range expected for this procedure. No further corrective action was taken.

Elevated Detection Limits:
The detection limits for all samples were elevated due to the sample extracts not being able to be concentrated to the final volume necessary to achieve target detection limits. The detection limit were further elevated for Fluorene in all samples. The chromatograms indicated the presence of non-target background components. The matrix interference prevented adequate resolution of the target compound at the normal limit. The results were flagged to indicate the matrix interference.

Sample Notes and Discussion:
The results reported for 2-Methylnaphthalene and 3,3'-Dichlorobenzidine in samples all samples may contain a slight bias. The chromatogram indicated the presence of non-target background components. The matrix interference may have resulted in a slight high bias in the affected samples. The results were flagged with "X" to indicate the issue.

TCLP Semivolatiles by EPA Method 1311/8270C

No anomalies with the analysis of these samples were observed.

Approved by EMW **Date** 2/2/11

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010
Date Analyzed: 12/21/2010

Duplicate Sample Summary
Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
TC-1A	K1014072-001	72.6	72.7	72.7	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/10
Sample Matrix:	Soil	**Date Received:**	12/17/10
		Units:	deg C
Analysis Method:	1020A Modified	**Basis:**	As Received

Flash Point

Sample Name	Lab Code	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
TC-1A	K1014072-001	>110		-		1	NA	12/21/10 04:00	
TC-3A1	K1014072-003	>110		-		1	NA	12/21/10 04:00	
TC-4A1	K1014072-004	>110		-		1	NA	12/21/10 04:00	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/10
Date Received: 12/17/10
Date Analyzed: 12/21/10

Replicate Sample Summary
General Chemistry Parameters

Sample Name: TC-4A1
Lab Code: K1014072-004

Units: deg C
Basis: As Received

Analyte Name	Method	MRL	MDL	Sample Result	TC-4A1DUP Duplicate Sample K1014072-004DUP2 Result	Average	RPD	RPD Limit
Flash Point	1020A Modified			>110	>110	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Analyzed: 12/21/10

Lab Control Sample Summary
General Chemistry Parameters

Units: deg C
Basis: As Received

Analyte Name	Method	Lab Control Sample K1014072-LCS Result	Spike Amount	% Rec	% Rec Limits
Flash Point	1020A Modified	28.0	27.0	104	85 - 115

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/10
Sample Matrix:	Soil	**Date Received:**	12/17/10
Prep Method:	EPA 9030B Modified	**Units:**	mg/Kg
Analysis Method:	9030M	**Basis:**	Dry

Sulfide, Total

Sample Name	Lab Code	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
TC-1A	K1014072-001	**59**		14	6	20	12/18/10	12/18/10 19:07	
TC-3A1	K1014072-003	**0.37**	J	0.67	0.27	1	12/18/10	12/18/10 19:07	
TC-4A1	K1014072-004	**1.50**		0.75	0.30	1	12/18/10	12/18/10 19:07	
Method Blank	K1014072-MB	ND	U	0.50	0.20	1	12/18/10	12/18/10 19:07	

Columbia Analytical Services

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INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Project Name: BASF/ Rensselaer
Project No.: 60135965.451

Service Request: K1014072

Sample Name:	Lab Code:
TC-1A	K1014072-001
TC-1AD	K1014072-001D
TC-1AS	K1014072-001S
TC-3A1	K1014072-003
TC-4A1	K1014072-004
Method Blank	K1014072-MB

Comments:

Approved By: SC **Date:** 1/14/11

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client:	AECOM	**Service Request:**	K1014072
Project No.:	60135965.451	**Date Collected:**	12/16/10
Project Name:	BASF/ Rensselaer	**Date Received:**	12/17/10
Matrix:	SOIL	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: TC-1A **Lab Code:** K1014072-001

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	2.3	1.0	2.0	12/20/10	12/22/10	32.4		
Barium	6010B	0.57	0.07	2.0	12/20/10	12/22/10	127		
Cadmium	6010B	0.11	0.05	2.0	12/20/10	12/22/10	3.99		
Chromium	6010B	0.6	0.2	2.0	12/20/10	12/22/10	159		
Lead	6010B	2.3	0.5	2.0	12/20/10	12/22/10	211		
Mercury	7471A	1.39	0.139	100.0	12/22/10	12/27/10	9.75		
Selenium	6010B	4.6	0.8	2.0	12/20/10	12/22/10	1.7	J	
Silver	6010B	0.6	0.2	2.0	12/20/10	12/22/10	1.0		

% Solids: 72.6

Comments:

Metals

- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Project No.: 60135965.451
Project Name: BASF/ Rensselaer
Matrix: SOIL

Service Request: K1014072
Date Collected: 12/16/10
Date Received: 12/17/10
Units: mg/Kg
Basis: DRY

Sample Name: TC-3A1 **Lab Code:** K1014072-003

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	2.2	1.0	2.0	12/20/10	12/22/10	48.4		
Barium	6010B	0.54	0.07	2.0	12/20/10	12/22/10	146		
Cadmium	6010B	0.11	0.04	2.0	12/20/10	12/22/10	3.85		
Chromium	6010B	0.5	0.2	2.0	12/20/10	12/22/10	146		
Lead	6010B	2.2	0.4	2.0	12/20/10	12/22/10	240		
Mercury	7471A	1.68	0.168	100.0	12/22/10	12/27/10	34.3		
Selenium	6010B	4.3	0.8	2.0	12/20/10	12/22/10	1.6	J	
Silver	6010B	0.5	0.2	2.0	12/20/10	12/22/10	0.8		

% Solids: 75.0

Comments:

Metals

- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Project No.: 60135965.451
Project Name: BASF/ Rensselaer
Matrix: SOIL

Service Request: K1014072
Date Collected: 12/16/10
Date Received: 12/17/10
Units: mg/Kg
Basis: DRY

Sample Name: TC-4A1
Lab Code: K1014072-004

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	2.5	1.1	2.0	12/20/10	12/22/10	39.1		
Barium	6010B	0.61	0.07	2.0	12/20/10	12/22/10	134		
Cadmium	6010B	0.12	0.05	2.0	12/20/10	12/22/10	1.89		
Chromium	6010B	0.6	0.2	2.0	12/20/10	12/22/10	116		
Lead	6010B	2.5	0.5	2.0	12/20/10	12/22/10	166		
Mercury	7471A	1.02	0.102	100.0	12/22/10	12/27/10	13.7		
Selenium	6010B	4.9	0.9	2.0	12/20/10	12/22/10	2.2	J	
Silver	6010B	0.6	0.2	2.0	12/20/10	12/22/10	0.4	J	

% Solids: 66.8

Comments:

Metals

- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Project No.: 60135965.451
Project Name: BASF/ Rensselaer
Matrix: SOIL

Service Request: K1014072
Date Collected:
Date Received:
Units: mg/Kg
Basis: DRY

Sample Name: Method Blank
Lab Code: K1014072-MB

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	2.0	0.9	2.0	12/20/10	12/22/10	0.9	U	
Barium	6010B	0.50	0.06	2.0	12/20/10	12/22/10	0.06	U	
Cadmium	6010B	0.10	0.04	2.0	12/20/10	12/22/10	0.04	U	
Chromium	6010B	0.5	0.2	2.0	12/20/10	12/22/10	0.2	U	
Lead	6010B	2.0	0.4	2.0	12/20/10	12/22/10	0.4	U	
Mercury	7471A	0.020	0.002	1.0	12/22/10	12/27/10	0.002	U	
Selenium	6010B	4.0	0.7	2.0	12/20/10	12/22/10	0.9	J	
Silver	6010B	0.5	0.2	2.0	12/20/10	12/22/10	0.2	U	

% Solids: 100.0

Comments:

Columbia Analytical Services

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INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Project Name: BASF/ Rensselaer
Project No.: 60135965.451

Service Request: K1014072

Sample Name:	Lab Code:
TC-1A	K1014072-001
TC-1AD	K1014072-001D
TC-1AS	K1014072-001S
TC-3A1	K1014072-003
TC-3A1D	K1014072-003D
TC-3A1S	K1014072-003S
TC-4A1	K1014072-004
Method Blank 1	K1014072-MB1
Method Blank 2	K1014072-MB2

Comments:

Approved By: 3C **Date:** 1/14/11

TCLP Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	AECOM	**Service Request:**	K1014072
Project No.:	60135965.451	**Date Collected:**	12/16/10
Project Name:	BASF/ Rensselaer	**Date Received:**	12/17/10
Matrix:	TCLP	**Units:**	mg/L
		Basis:	NA

Sample Name: TC-1A **Lab Code:** K1014072-001

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	0.10	0.01	1.0	12/21/10	12/27/10	0.04	J	
Barium	6010B	1.00	0.30	1.0	12/21/10	12/27/10	1.01		
Cadmium	6010B	0.010	0.002	1.0	12/21/10	12/27/10	0.009	J	
Chromium	6010B	0.010	0.003	1.0	12/21/10	12/27/10	0.014		
Lead	6010B	0.05	0.02	1.0	12/21/10	12/27/10	0.27		
Mercury	7470A	0.00100	0.00040	1.0	12/21/10	12/23/10	0.00040	U	
Selenium	6010B	0.10	0.02	1.0	12/21/10	12/27/10	0.02	U	
Silver	6010B	0.020	0.007	1.0	12/21/10	12/27/10	0.007	U	

% Solids: 0.0

Comments:

TCLP Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	AECOM	**Service Request:**	K1014072
Project No.:	60135965.451	**Date Collected:**	12/16/10
Project Name:	BASF/ Rensselaer	**Date Received:**	12/17/10
Matrix:	TCLP	**Units:**	mg/L
		Basis:	NA

Sample Name: TC-3A1 **Lab Code:** K1014072-003

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	0.10	0.01	1.0	12/21/10	12/27/10	0.01	U	
Barium	6010B	1.00	0.30	1.0	12/21/10	12/27/10	0.57	J	
Cadmium	6010B	0.010	0.002	1.0	12/21/10	12/27/10	0.036		
Chromium	6010B	0.010	0.003	1.0	12/21/10	12/27/10	0.034		
Lead	6010B	0.05	0.02	1.0	12/21/10	12/27/10	0.05	J	
Mercury	7470A	0.01000	0.00400	10.0	12/21/10	12/23/10	0.02200		
Selenium	6010B	0.10	0.02	1.0	12/21/10	12/27/10	0.04	J	
Silver	6010B	0.020	0.007	1.0	12/21/10	12/27/10	0.007	U	

% Solids: 0.0

Comments:

TCLP Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Project No.: 60135965.451
Project Name: BASF/ Rensselaer
Matrix: TCLP

Service Request: K1014072
Date Collected: 12/16/10
Date Received: 12/17/10
Units: mg/L
Basis: NA

Sample Name: TC-4A1 **Lab Code:** K1014072-004

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	0.10	0.01	1.0	12/21/10	12/27/10	0.03	J	
Barium	6010B	1.00	0.30	1.0	12/21/10	12/27/10	0.48	J	
Cadmium	6010B	0.010	0.002	1.0	12/21/10	12/27/10	0.008	J	
Chromium	6010B	0.010	0.003	1.0	12/21/10	12/27/10	0.012		
Lead	6010B	0.05	0.02	1.0	12/21/10	12/27/10	0.04	J	
Mercury	7470A	0.00100	0.00040	1.0	12/21/10	12/23/10	0.00040	U	
Selenium	6010B	0.10	0.02	1.0	12/21/10	12/27/10	0.04	J	
Silver	6010B	0.020	0.007	1.0	12/21/10	12/27/10	0.007	U	

% Solids: 0.0

Comments:

TCLP Metals

- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Project No.: 60135965.451
Project Name: BASF/ Rensselaer
Matrix: TCLP

Service Request: K1014072
Date Collected:
Date Received:
Units: mg/L
Basis: NA

Sample Name: Method Blank 1 **Lab Code:** K1014072-MB1

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	0.10	0.01	1.0	12/21/10	12/27/10	0.01	U	
Barium	6010B	1.00	0.30	1.0	12/21/10	12/27/10	0.30	U	
Cadmium	6010B	0.010	0.002	1.0	12/21/10	12/27/10	0.002	U	
Chromium	6010B	0.010	0.003	1.0	12/21/10	12/27/10	0.003	U	
Lead	6010B	0.05	0.02	1.0	12/21/10	12/27/10	0.02	U	
Mercury	7470A	0.00100	0.00040	1.0	12/21/10	12/23/10	0.00040	U	
Selenium	6010B	0.10	0.02	1.0	12/21/10	12/27/10	0.02	U	
Silver	6010B	0.020	0.007	1.0	12/21/10	12/27/10	0.007	U	

% Solids: 0.0

Comments:

TCLP Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Project No.: 60135965.451
Project Name: BASF/ Rensselaer
Matrix: TCLP

Service Request: K1014072
Date Collected:
Date Received:
Units: mg/L
Basis: NA

Sample Name: Method Blank 2 **Lab Code:** K1014072-MB2

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	0.10	0.01	1.0	12/21/10	12/27/10	0.01	U	
Barium	6010B	1.00	0.30	1.0	12/21/10	12/27/10	0.36	J	
Cadmium	6010B	0.010	0.002	1.0	12/21/10	12/27/10	0.002	U	
Chromium	6010B	0.010	0.003	1.0	12/21/10	12/27/10	0.003	J	
Lead	6010B	0.05	0.02	1.0	12/21/10	12/27/10	0.02	U	
Mercury	7470A	0.00100	0.00040	1.0	12/21/10	12/23/10	0.00040	U	
Selenium	6010B	0.10	0.02	1.0	12/21/10	12/27/10	0.02	J	
Silver	6010B	0.020	0.007	1.0	12/21/10	12/27/10	0.007	U	

% Solids: 0.0

Comments:

Client: AECOM **Service Request:** K1014072
Project: BASF/ Rensselaer/60135965.451

Cover Page - Organic Analysis Data Package
Diesel Range Organics

Sample Name	Lab Code	Date Collected	Date Received
TC-1A	K1014072-001	12/16/2010	12/17/2010
TC-3A1	K1014072-003	12/16/2010	12/17/2010
TC-4A1	K1014072-004	12/16/2010	12/17/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: LISA HARRIS

Date: January 7, 2011 Title: Scientist

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Extracted:	12/20/2010
		Date Analyzed:	01/03/2011

Diesel Range Organics

Sample Name:	TC-1A	**Units:**	mg/Kg
Lab Code:	K1014072-001	**Basis:**	Dry
File ID:	J:\GC21\DATA\010211F\0102F160.D	**Level:**	Low
Instrument ID:	GC21		
Extraction Method:	NotDoneHer	**Extraction Lot:**	KWG1100195
Analysis Method:	8015C	**Calibration ID:**	CAL10004
		Column1:	ZB-1 15m
Sample Amount:	30.30 g		
% Solids:	72.6		
Dilution Factor:	100		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
CASID30304	Diesel Range Organics	**8800**	DZ	1900	440	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	0	51-126	01/03/11	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Extracted:	12/20/2010
		Date Analyzed:	01/03/2011

Diesel Range Organics

Sample Name:	TC-3A1	**Units:**	mg/Kg
Lab Code:	K1014072-003	**Basis:**	Dry
File ID:	J:\GC21\DATA\010211F\0102F156.D	**Level:**	Low
Instrument ID:	GC21		
Extraction Method:	NotDoneHer	**Extraction Lot:**	KWG1100195
Analysis Method:	8015C	**Calibration ID:**	CAL10004
		Column1:	ZB-1 15m
Sample Amount:	30.48 g		
% Solids:	75.0		
Dilution Factor:	100		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
CASID30304	Diesel Range Organics	**6000**	DZ	1800	420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	0	51-126	01/03/11	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Extracted:	12/20/2010
		Date Analyzed:	01/03/2011

Diesel Range Organics

Sample Name:	TC-4A1	**Units:**	mg/Kg
Lab Code:	K1014072-004	**Basis:**	Dry
File ID:	J:\GC21\DATA\010211F\0102F158.D	**Level:**	Low
Instrument ID:	GC21		
Extraction Method:	NotDoneHer	**Extraction Lot:**	KWG1100195
Analysis Method:	8015C	**Calibration ID:**	CAL10004
		Column1:	ZB-1 15m
Sample Amount:	30.04 g		
% Solids:	66.8		
Dilution Factor:	100		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
CASID30304	Diesel Range Organics	**5500**	DZ	2100	480	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	0	51-126	01/03/11	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
		Date Extracted:	12/20/2010
		Date Analyzed:	01/03/2011

Diesel Range Organics

Sample Name:	Method Blank	**Units:**	mg/Kg
Lab Code:	KWG1100195-4	**Basis:**	Dry
File ID:	J:\GC21\DATA\010211F\0102F118.D	**Level:**	Low
Instrument ID:	GC21		
Extraction Method:	EPA 3550B	**Extraction Lot:**	KWG1100195
Analysis Method:	8015C	**Calibration ID:**	CAL10004
		Column1:	ZB-1 15m
Sample Amount:	30.48 g		
% Solids:	NA		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
CASID30304	Diesel Range Organics	6.6	U	6.6	1.6	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	80	51-126	01/03/11	Acceptable

Comments:

Client: AECOM **Service Request:** K1014072
Project: BASF/ Rensselaer/60135965.451

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
TC-1A	K1014072-001	12/16/2010	12/17/2010
TC-3A1	K1014072-003	12/16/2010	12/17/2010
TC-4A1	K1014072-004	12/16/2010	12/17/2010
TC-3A1MS	KWG1100203-1	12/16/2010	12/17/2010

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Signature: Holly Butcher Name: Holly Butcher

Date: 01-13-2011 Title: Scientist

u:\Stealth\Crystal.rpt\FormSSum.rpt SuperSet Reference: RR124254

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Prepared:	12/21/2010

Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction
Volatile Organic Compounds

Sample Name:	TC-1A	**Units:**	mg/L
Lab Code:	K1014072-001	**Basis:**	NA
Preparation Method:	EPA 1311ZHE	**Level:**	Low
Extraction Method:	EPA 5030B		
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Vinyl Chloride	ND	U	0.080	0.029	0.2	1	01/04/11	01/04/11	
1,1-Dichloroethene	ND	U	0.20	0.040	0.7	1	01/04/11	01/04/11	
2-Butanone (MEK)	ND	U	8.0	1.6	200	1	01/04/11	01/04/11	
Chloroform	ND	U	0.20	0.017	6	1	01/04/11	01/04/11	
Carbon Tetrachloride	ND	U	0.20	0.028	0.5	1	01/04/11	01/04/11	
Benzene	**2.4**		0.20	0.018	0.5	1	01/04/11	01/04/11	
1,2-Dichloroethane (EDC)	**0.60**		0.20	0.030	0.5	1	01/04/11	01/04/11	
Trichloroethene (TCE)	ND	U	0.20	0.025	0.5	1	01/04/11	01/04/11	
Tetrachloroethene (PCE)	ND	U	0.20	0.031	0.7	1	01/04/11	01/04/11	
Chlorobenzene	**51**		1.0	0.090	100	1	01/04/11	01/04/11	
1,4-Dichlorobenzene	**2.4**		0.20	0.022	7.5	1	01/04/11	01/04/11	

Surrogate Name	%Rec	Control Limits	Note
Dibromofluoromethane	102	73-122	Acceptable
Toluene-d8	106	78-129	Acceptable
4-Bromofluorobenzene	102	68-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Prepared:	12/21/2010

Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction
Volatile Organic Compounds

Sample Name:	TC-3A1	**Units:**	mg/L
Lab Code:	K1014072-003	**Basis:**	NA
Preparation Method:	EPA 1311ZHE	**Level:**	Low
Extraction Method:	EPA 5030B		
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Vinyl Chloride	ND	U	0.080	0.029	0.2	1	01/04/11	01/04/11	
1,1-Dichloroethene	ND	U	0.20	0.040	0.7	1	01/04/11	01/04/11	
2-Butanone (MEK)	ND	U	8.0	1.6	200	1	01/04/11	01/04/11	
Chloroform	ND	U	0.20	0.017	6	1	01/04/11	01/04/11	
Carbon Tetrachloride	ND	U	0.20	0.028	0.5	1	01/04/11	01/04/11	
Benzene	**0.048**	J	0.20	0.018	0.5	1	01/04/11	01/04/11	
1,2-Dichloroethane (EDC)	**0.036**	J	0.20	0.030	0.5	1	01/04/11	01/04/11	
Trichloroethene (TCE)	ND	U	0.20	0.025	0.5	1	01/04/11	01/04/11	
Tetrachloroethene (PCE)	ND	U	0.20	0.031	0.7	1	01/04/11	01/04/11	
Chlorobenzene	**3.7**		0.20	0.018	100	1	01/04/11	01/04/11	
1,4-Dichlorobenzene	**0.82**		0.20	0.022	7.5	1	01/04/11	01/04/11	

Surrogate Name	%Rec	Control Limits	Note
Dibromofluoromethane	103	73-122	Acceptable
Toluene-d8	107	78-129	Acceptable
4-Bromofluorobenzene	100	68-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Prepared:	12/21/2010

Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction
Volatile Organic Compounds

Sample Name:	TC-4A1	**Units:**	mg/L
Lab Code:	K1014072-004	**Basis:**	NA
Preparation Method:	EPA 1311ZHE	**Level:**	Low
Extraction Method:	EPA 5030B		
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Vinyl Chloride	ND	U	0.080	0.029	0.2	1	01/04/11	01/04/11	
1,1-Dichloroethene	ND	U	0.20	0.040	0.7	1	01/04/11	01/04/11	
2-Butanone (MEK)	ND	U	8.0	1.6	200	1	01/04/11	01/04/11	
Chloroform	ND	U	0.20	0.017	6	1	01/04/11	01/04/11	
Carbon Tetrachloride	ND	U	0.20	0.028	0.5	1	01/04/11	01/04/11	
Benzene	**0.092**	J	0.20	0.018	0.5	1	01/04/11	01/04/11	
1,2-Dichloroethane (EDC)	**0.18**	J	0.20	0.030	0.5	1	01/04/11	01/04/11	
Trichloroethene (TCE)	ND	U	0.20	0.025	0.5	1	01/04/11	01/04/11	
Tetrachloroethene (PCE)	ND	U	0.20	0.031	0.7	1	01/04/11	01/04/11	
Chlorobenzene	**14**		0.20	0.018	100	1	01/04/11	01/04/11	
1,4-Dichlorobenzene	**1.4**		0.20	0.022	7.5	1	01/04/11	01/04/11	

Surrogate Name	%Rec	Control Limits	Note
Dibromofluoromethane	101	73-122	Acceptable
Toluene-d8	107	78-129	Acceptable
4-Bromofluorobenzene	100	68-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Prepared:	12/21/2010

Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction
Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	mg/L
Lab Code:	KWG1100203-3	**Basis:**	NA
Preparation Method:	EPA 1311ZHE	**Level:**	Low
Extraction Method:	EPA 5030B		
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Vinyl Chloride	ND	U	0.080	0.029	0.2	1	01/04/11	01/04/11	
1,1-Dichloroethene	ND	U	0.20	0.040	0.7	1	01/04/11	01/04/11	
2-Butanone (MEK)	ND	U	8.0	1.6	200	1	01/04/11	01/04/11	
Chloroform	ND	U	0.20	0.017	6	1	01/04/11	01/04/11	
Carbon Tetrachloride	ND	U	0.20	0.028	0.5	1	01/04/11	01/04/11	
Benzene	ND	U	0.20	0.018	0.5	1	01/04/11	01/04/11	
1,2-Dichloroethane (EDC)	ND	U	0.20	0.030	0.5	1	01/04/11	01/04/11	
Trichloroethene (TCE)	ND	U	0.20	0.025	0.5	1	01/04/11	01/04/11	
Tetrachloroethene (PCE)	ND	U	0.20	0.031	0.7	1	01/04/11	01/04/11	
Chlorobenzene	ND	U	0.20	0.018	100	1	01/04/11	01/04/11	
1,4-Dichlorobenzene	ND	U	0.20	0.022	7.5	1	01/04/11	01/04/11	

Surrogate Name	%Rec	Control Limits	Note
Dibromofluoromethane	102	73-122	Acceptable
Toluene-d8	106	78-129	Acceptable
4-Bromofluorobenzene	98	68-117	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Service Request: K1014072

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
TC-1A	K1014072-001	12/16/2010	12/17/2010
TC-2A	K1014072-002	12/16/2010	12/17/2010
TC-3A1	K1014072-003	12/16/2010	12/17/2010
TC-4A1	K1014072-004	12/16/2010	12/17/2010
TC-4A2	K1014072-005	12/16/2010	12/17/2010
TC-4D2	K1014072-006	12/16/2010	12/17/2010
TC-4D1	K1014072-007	12/16/2010	12/17/2010
TC-3B2	K1014072-010	12/16/2010	12/17/2010
TC-3D2	K1014072-012	12/16/2010	12/17/2010
TC-3D4	K1014072-013	12/16/2010	12/17/2010
TC-3C4	K1014072-015	12/16/2010	12/17/2010
TC-3C3	K1014072-016	12/16/2010	12/17/2010
TC-3D1	K1014072-017	12/16/2010	12/17/2010
TC-3C2	K1014072-018	12/16/2010	12/17/2010
TC-3A4	K1014072-021	12/16/2010	12/17/2010
TC-3B3	K1014072-022	12/16/2010	12/17/2010
TC-2AMS	KWG1014271-4	12/16/2010	12/17/2010
TC-2ADMS	KWG1014271-5	12/16/2010	12/17/2010

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Signature: Holly Butcher
Name: Holly Butcher
Date: 01-13-2011
Title: Scientist

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Volatile Organic Compounds

Sample Name: TC-1A
Lab Code: K1014072-001

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry

Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	2.2	0.58	1	12/30/10	12/30/10	KWG1014271	
Chloromethane	ND	U	2.2	0.30	1	12/30/10	12/30/10	KWG1014271	
Vinyl Chloride	ND	U	2.2	0.33	1	12/30/10	12/30/10	KWG1014271	
Bromomethane	ND	U	2.2	0.40	1	12/30/10	12/30/10	KWG1014271	
Chloroethane	ND	U	2.2	0.71	1	12/30/10	12/30/10	KWG1014271	
Trichlorofluoromethane	ND	U	2.2	0.53	1	12/30/10	12/30/10	KWG1014271	
Trichlorotrifluoroethane	ND	U	2.2	0.58	1	12/30/10	12/30/10	KWG1014271	
1,1-Dichloroethene	ND	U	2.2	0.33	1	12/30/10	12/30/10	KWG1014271	
Acetone	ND	U	88	15	1	12/30/10	12/30/10	KWG1014271	
Carbon Disulfide	ND	U	2.2	0.44	1	12/30/10	12/30/10	KWG1014271	
Methylene Chloride	**0.97**	J	8.8	0.75	1	12/30/10	12/30/10	KWG1014271	
Methyl tert-Butyl Ether	ND	U	2.2	0.49	1	12/30/10	12/30/10	KWG1014271	
trans-1,2-Dichloroethene	ND	U	2.2	0.40	1	12/30/10	12/30/10	KWG1014271	
1,1-Dichloroethane	ND	U	2.2	0.34	1	12/30/10	12/30/10	KWG1014271	
cis-1,2-Dichloroethene	ND	U	2.2	0.30	1	12/30/10	12/30/10	KWG1014271	
2-Butanone (MEK)	ND	U	88	8.4	1	12/30/10	12/30/10	KWG1014271	
Bromochloromethane	ND	U	2.2	0.71	1	12/30/10	12/30/10	KWG1014271	
Chloroform	ND	U	2.2	0.32	1	12/30/10	12/30/10	KWG1014271	
1,1,1-Trichloroethane (TCA)	ND	U	2.2	0.33	1	12/30/10	12/30/10	KWG1014271	
Carbon Tetrachloride	ND	U	2.2	0.43	1	12/30/10	12/30/10	KWG1014271	*
Benzene	**47**		2.2	0.24	1	12/30/10	12/30/10	KWG1014271	
1,2-Dichloroethane (EDC)	**12**		2.2	0.36	1	12/30/10	12/30/10	KWG1014271	
Trichloroethene (TCE)	**0.57**	J	2.2	0.44	1	12/30/10	12/30/10	KWG1014271	
1,2-Dichloropropane	ND	U	2.2	0.42	1	12/30/10	12/30/10	KWG1014271	
Bromodichloromethane	ND	U	2.2	0.40	1	12/30/10	12/30/10	KWG1014271	
cis-1,3-Dichloropropene	ND	U	2.2	0.80	1	12/30/10	12/30/10	KWG1014271	
4-Methyl-2-pentanone (MIBK)	ND	U	88	12	1	12/30/10	12/30/10	KWG1014271	
Toluene	**18**		2.2	0.23	1	12/30/10	12/30/10	KWG1014271	
trans-1,3-Dichloropropene	ND	U	2.2	0.30	1	12/30/10	12/30/10	KWG1014271	
1,1,2-Trichloroethane	ND	U	2.2	0.62	1	12/30/10	12/30/10	KWG1014271	
Tetrachloroethene (PCE)	**0.66**	J	2.2	0.44	1	12/30/10	12/30/10	KWG1014271	
2-Hexanone	ND	U	88	12	1	12/30/10	12/30/10	KWG1014271	
Dibromochloromethane	ND	U	2.2	0.62	1	12/30/10	12/30/10	KWG1014271	
1,2-Dibromoethane (EDB)	ND	U	8.8	0.44	1	12/30/10	12/30/10	KWG1014271	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Volatile Organic Compounds

Sample Name: TC-1A
Lab Code: K1014072-001

Units: mg/Kg
Basis: Dry

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chlorobenzene	**2300**		22	4.9	1	12/29/10	12/29/10	KWG1014271	
Ethylbenzene	**7.6**		2.2	0.22	1	12/30/10	12/30/10	KWG1014271	
m,p-Xylenes	**22**		2.2	0.40	1	12/30/10	12/30/10	KWG1014271	
o-Xylene	**5.8**		2.2	0.33	1	12/30/10	12/30/10	KWG1014271	
Styrene	ND	U	2.2	0.53	1	12/30/10	12/30/10	KWG1014271	
Bromoform	ND	U	2.2	0.71	1	12/30/10	12/30/10	KWG1014271	
Isopropylbenzene	ND	U	8.8	0.40	1	12/30/10	12/30/10	KWG1014271	
1,1,2,2-Tetrachloroethane	ND	U	2.2	0.71	1	12/30/10	12/30/10	KWG1014271	
1,3-Dichlorobenzene	**98**		2.2	0.44	1	12/30/10	12/30/10	KWG1014271	
1,4-Dichlorobenzene	**340**		2.2	0.53	1	12/30/10	12/30/10	KWG1014271	
1,2-Dichlorobenzene	**2500**		22	5.3	1	12/29/10	12/29/10	KWG1014271	
1,2-Dibromo-3-chloropropane	ND	U	8.8	0.88	1	12/30/10	12/30/10	KWG1014271	
1,2,4-Trichlorobenzene	**710**		88	4.3	1	12/29/10	12/29/10	KWG1014271	
1,2,3-Trichlorobenzene	**150**		8.8	0.49	1	12/30/10	12/30/10	KWG1014271	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	68-119	12/30/10	Acceptable
Toluene-d8	105	81-124	12/30/10	Acceptable
4-Bromofluorobenzene	108	64-132	12/30/10	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Volatile Organic Compounds

Sample Name: TC-3A1
Lab Code: K1014072-003

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry

Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.42	0.11	1	12/30/10	12/30/10	KWG1014282	
Chloromethane	ND	U	0.42	0.058	1	12/30/10	12/30/10	KWG1014282	
Vinyl Chloride	ND	U	0.42	0.063	1	12/30/10	12/30/10	KWG1014282	
Bromomethane	ND	U	0.42	0.076	1	12/30/10	12/30/10	KWG1014282	
Chloroethane	ND	U	0.42	0.14	1	12/30/10	12/30/10	KWG1014282	
Trichlorofluoromethane	ND	U	0.42	0.11	1	12/30/10	12/30/10	KWG1014282	
Trichlorotrifluoroethane	ND	U	0.42	0.11	1	12/30/10	12/30/10	KWG1014282	
1,1-Dichloroethene	ND	U	0.42	0.063	1	12/30/10	12/30/10	KWG1014282	
Acetone	**9.1**	J	17	2.8	1	12/30/10	12/30/10	KWG1014282	
Carbon Disulfide	ND	U	0.42	0.084	1	12/30/10	12/30/10	KWG1014282	
Methylene Chloride	**0.18**	J	1.7	0.15	1	12/30/10	12/30/10	KWG1014282	
Methyl tert-Butyl Ether	ND	U	0.42	0.093	1	12/30/10	12/30/10	KWG1014282	
trans-1,2-Dichloroethene	ND	U	0.42	0.077	1	12/30/10	12/30/10	KWG1014282	
1,1-Dichloroethane	ND	U	0.42	0.065	1	12/30/10	12/30/10	KWG1014282	
cis-1,2-Dichloroethene	ND	U	0.42	0.057	1	12/30/10	12/30/10	KWG1014282	
2-Butanone (MEK)	**2.3**	J	17	1.6	1	12/30/10	12/30/10	KWG1014282	
Bromochloromethane	ND	U	0.42	0.14	1	12/30/10	12/30/10	KWG1014282	
Chloroform	ND	U	0.42	0.061	1	12/30/10	12/30/10	KWG1014282	
1,1,1-Trichloroethane (TCA)	ND	U	0.42	0.063	1	12/30/10	12/30/10	KWG1014282	
Carbon Tetrachloride	ND	U	0.42	0.081	1	12/30/10	12/30/10	KWG1014282	
Benzene	**0.99**		0.42	0.046	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichloroethane (EDC)	**0.75**		0.42	0.068	1	12/30/10	12/30/10	KWG1014282	
Trichloroethene (TCE)	ND	U	0.42	0.084	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichloropropane	ND	U	0.42	0.080	1	12/30/10	12/30/10	KWG1014282	
Bromodichloromethane	ND	U	0.42	0.077	1	12/30/10	12/30/10	KWG1014282	
cis-1,3-Dichloropropene	ND	U	0.42	0.16	1	12/30/10	12/30/10	KWG1014282	
4-Methyl-2-pentanone (MIBK)	ND	U	17	2.2	1	12/30/10	12/30/10	KWG1014282	
Toluene	**0.69**		0.42	0.044	1	12/30/10	12/30/10	KWG1014282	
trans-1,3-Dichloropropene	ND	U	0.42	0.058	1	12/30/10	12/30/10	KWG1014282	
1,1,2-Trichloroethane	ND	U	0.42	0.12	1	12/30/10	12/30/10	KWG1014282	
Tetrachloroethene (PCE)	ND	U	0.42	0.083	1	12/30/10	12/30/10	KWG1014282	
2-Hexanone	ND	U	17	2.3	1	12/30/10	12/30/10	KWG1014282	
Dibromochloromethane	ND	U	0.42	0.12	1	12/30/10	12/30/10	KWG1014282	
1,2-Dibromoethane (EDB)	ND	U	1.7	0.084	1	12/30/10	12/30/10	KWG1014282	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Volatile Organic Compounds

Sample Name: TC-3A1
Lab Code: K1014072-003

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chlorobenzene	**120**		8.4	1.9	1	12/30/10	12/30/10	KWG1014282	
Ethylbenzene	**0.48**		0.42	0.042	1	12/30/10	12/30/10	KWG1014282	
m,p-Xylenes	**1.8**		0.42	0.077	1	12/30/10	12/30/10	KWG1014282	
o-Xylene	**0.52**		0.42	0.063	1	12/30/10	12/30/10	KWG1014282	
Styrene	ND	U	0.42	0.11	1	12/30/10	12/30/10	KWG1014282	
Bromoform	ND	U	0.42	0.14	1	12/30/10	12/30/10	KWG1014282	
Isopropylbenzene	ND	U	1.7	0.077	1	12/30/10	12/30/10	KWG1014282	
1,1,2,2-Tetrachloroethane	ND	U	0.42	0.14	1	12/30/10	12/30/10	KWG1014282	
1,3-Dichlorobenzene	**20**		0.42	0.084	1	12/30/10	12/30/10	KWG1014282	
1,4-Dichlorobenzene	**63**		8.4	2.1	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichlorobenzene	**650**		8.4	2.1	1	12/30/10	12/30/10	KWG1014282	
1,2-Dibromo-3-chloropropane	ND	U	1.7	0.17	1	12/30/10	12/30/10	KWG1014282	
1,2,4-Trichlorobenzene	**530**		34	1.7	1	12/30/10	12/30/10	KWG1014282	
1,2,3-Trichlorobenzene	**83**		34	1.9	1	12/30/10	12/30/10	KWG1014282	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	88	68-119	12/30/10	Acceptable
Toluene-d8	96	81-124	12/30/10	Acceptable
4-Bromofluorobenzene	83	64-132	12/30/10	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Volatile Organic Compounds

Sample Name: TC-4A1
Lab Code: K1014072-004

Units: mg/Kg
Basis: Dry

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.51	0.14	1	12/30/10	12/30/10	KWG1014282	
Chloromethane	ND	U	0.51	0.069	1	12/30/10	12/30/10	KWG1014282	
Vinyl Chloride	ND	U	0.51	0.076	1	12/30/10	12/30/10	KWG1014282	
Bromomethane	ND	U	0.51	0.091	1	12/30/10	12/30/10	KWG1014282	
Chloroethane	ND	U	0.51	0.17	1	12/30/10	12/30/10	KWG1014282	
Trichlorofluoromethane	ND	U	0.51	0.13	1	12/30/10	12/30/10	KWG1014282	
Trichlorotrifluoroethane	ND	U	0.51	0.14	1	12/30/10	12/30/10	KWG1014282	
1,1-Dichloroethene	ND	U	0.51	0.075	1	12/30/10	12/30/10	KWG1014282	
Acetone	ND	U	21	3.4	1	12/30/10	12/30/10	KWG1014282	
Carbon Disulfide	ND	U	0.51	0.11	1	12/30/10	12/30/10	KWG1014282	
Methylene Chloride	**0.22**	J	2.1	0.18	1	12/30/10	12/30/10	KWG1014282	
Methyl tert-Butyl Ether	ND	U	0.51	0.12	1	12/30/10	12/30/10	KWG1014282	
trans-1,2-Dichloroethene	ND	U	0.51	0.092	1	12/30/10	12/30/10	KWG1014282	
1,1-Dichloroethane	ND	U	0.51	0.078	1	12/30/10	12/30/10	KWG1014282	
cis-1,2-Dichloroethene	ND	U	0.51	0.068	1	12/30/10	12/30/10	KWG1014282	
2-Butanone (MEK)	ND	U	21	2.0	1	12/30/10	12/30/10	KWG1014282	
Bromochloromethane	ND	U	0.51	0.17	1	12/30/10	12/30/10	KWG1014282	
Chloroform	**0.080**	J	0.51	0.073	1	12/30/10	12/30/10	KWG1014282	
1,1,1-Trichloroethane (TCA)	ND	U	0.51	0.076	1	12/30/10	12/30/10	KWG1014282	
Carbon Tetrachloride	ND	U	0.51	0.097	1	12/30/10	12/30/10	KWG1014282	
Benzene	**2.2**		0.51	0.055	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichloroethane (EDC)	**6.2**		0.51	0.081	1	12/30/10	12/30/10	KWG1014282	
Trichloroethene (TCE)	**0.14**	J	0.51	0.11	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichloropropane	ND	U	0.51	0.096	1	12/30/10	12/30/10	KWG1014282	
Bromodichloromethane	ND	U	0.51	0.092	1	12/30/10	12/30/10	KWG1014282	
cis-1,3-Dichloropropene	ND	U	0.51	0.19	1	12/30/10	12/30/10	KWG1014282	
4-Methyl-2-pentanone (MIBK)	ND	U	21	2.7	1	12/30/10	12/30/10	KWG1014282	
Toluene	**3.6**		0.51	0.053	1	12/30/10	12/30/10	KWG1014282	
trans-1,3-Dichloropropene	ND	U	0.51	0.069	1	12/30/10	12/30/10	KWG1014282	
1,1,2-Trichloroethane	ND	U	0.51	0.15	1	12/30/10	12/30/10	KWG1014282	
Tetrachloroethene (PCE)	**0.27**	J	0.51	0.10	1	12/30/10	12/30/10	KWG1014282	
2-Hexanone	ND	U	21	2.8	1	12/30/10	12/30/10	KWG1014282	
Dibromochloromethane	ND	U	0.51	0.15	1	12/30/10	12/30/10	KWG1014282	
1,2-Dibromoethane (EDB)	ND	U	2.1	0.11	1	12/30/10	12/30/10	KWG1014282	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Volatile Organic Compounds

Sample Name: TC-4A1
Lab Code: K1014072-004

Units: mg/Kg
Basis: Dry

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chlorobenzene	**450**		11	2.3	1	12/30/10	12/30/10	KWG1014282	
Ethylbenzene	**2.2**		0.51	0.051	1	12/30/10	12/30/10	KWG1014282	
m,p-Xylenes	**8.9**		0.51	0.092	1	12/30/10	12/30/10	KWG1014282	
o-Xylene	**2.6**		0.51	0.075	1	12/30/10	12/30/10	KWG1014282	
Styrene	ND	U	0.51	0.13	1	12/30/10	12/30/10	KWG1014282	
Bromoform	ND	U	0.51	0.17	1	12/30/10	12/30/10	KWG1014282	
Isopropylbenzene	**0.22**	J	2.1	0.092	1	12/30/10	12/30/10	KWG1014282	
1,1,2,2-Tetrachloroethane	ND	U	0.51	0.17	1	12/30/10	12/30/10	KWG1014282	
1,3-Dichlorobenzene	**42**		0.51	0.11	1	12/30/10	12/30/10	KWG1014282	
1,4-Dichlorobenzene	**110**		11	2.5	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichlorobenzene	**1000**		11	2.5	1	12/30/10	12/30/10	KWG1014282	
1,2-Dibromo-3-chloropropane	ND	U	2.1	0.21	1	12/30/10	12/30/10	KWG1014282	
1,2,4-Trichlorobenzene	**420**		41	2.0	1	12/30/10	12/30/10	KWG1014282	
1,2,3-Trichlorobenzene	**86**		41	2.3	1	12/30/10	12/30/10	KWG1014282	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	84	68-119	12/30/10	Acceptable
Toluene-d8	98	81-124	12/30/10	Acceptable
4-Bromofluorobenzene	83	64-132	12/30/10	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1014271-3

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry

Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.050	0.013	1	12/29/10	12/29/10	KWG1014271	
Chloromethane	ND	U	0.050	0.0068	1	12/29/10	12/29/10	KWG1014271	
Vinyl Chloride	ND	U	0.050	0.0075	1	12/29/10	12/29/10	KWG1014271	
Bromomethane	ND	U	0.050	0.0090	1	12/29/10	12/29/10	KWG1014271	
Chloroethane	ND	U	0.050	0.016	1	12/29/10	12/29/10	KWG1014271	
Trichlorofluoromethane	ND	U	0.050	0.012	1	12/29/10	12/29/10	KWG1014271	
Trichlorotrifluoroethane	ND	U	0.050	0.013	1	12/29/10	12/29/10	KWG1014271	
1,1-Dichloroethene	ND	U	0.050	0.0074	1	12/29/10	12/29/10	KWG1014271	
Acetone	ND	U	2.0	0.33	1	12/29/10	12/29/10	KWG1014271	
Carbon Disulfide	ND	U	0.050	0.010	1	12/29/10	12/29/10	KWG1014271	
Methylene Chloride	ND	U	0.20	0.017	1	12/29/10	12/29/10	KWG1014271	
Methyl tert-Butyl Ether	ND	U	0.050	0.011	1	12/29/10	12/29/10	KWG1014271	
trans-1,2-Dichloroethene	ND	U	0.050	0.0091	1	12/29/10	12/29/10	KWG1014271	
1,1-Dichloroethane	ND	U	0.050	0.0077	1	12/29/10	12/29/10	KWG1014271	
cis-1,2-Dichloroethene	ND	U	0.050	0.0067	1	12/29/10	12/29/10	KWG1014271	
2-Butanone (MEK)	ND	U	2.0	0.19	1	12/29/10	12/29/10	KWG1014271	
Bromochloromethane	ND	U	0.050	0.016	1	12/29/10	12/29/10	KWG1014271	
Chloroform	ND	U	0.050	0.0072	1	12/29/10	12/29/10	KWG1014271	
1,1,1-Trichloroethane (TCA)	ND	U	0.050	0.0075	1	12/29/10	12/29/10	KWG1014271	
Carbon Tetrachloride	ND	U	0.050	0.0096	1	12/29/10	12/29/10	KWG1014271	*
Benzene	ND	U	0.050	0.0054	1	12/29/10	12/29/10	KWG1014271	
1,2-Dichloroethane (EDC)	ND	U	0.050	0.0080	1	12/29/10	12/29/10	KWG1014271	
Trichloroethene (TCE)	ND	U	0.050	0.010	1	12/29/10	12/29/10	KWG1014271	
1,2-Dichloropropane	ND	U	0.050	0.0095	1	12/29/10	12/29/10	KWG1014271	
Bromodichloromethane	ND	U	0.050	0.0091	1	12/29/10	12/29/10	KWG1014271	
cis-1,3-Dichloropropene	ND	U	0.050	0.018	1	12/29/10	12/29/10	KWG1014271	
4-Methyl-2-pentanone (MIBK)	ND	U	2.0	0.26	1	12/29/10	12/29/10	KWG1014271	
Toluene	ND	U	0.050	0.0052	1	12/29/10	12/29/10	KWG1014271	
trans-1,3-Dichloropropene	ND	U	0.050	0.0068	1	12/29/10	12/29/10	KWG1014271	
1,1,2-Trichloroethane	ND	U	0.050	0.014	1	12/29/10	12/29/10	KWG1014271	
Tetrachloroethene (PCE)	ND	U	0.050	0.0099	1	12/29/10	12/29/10	KWG1014271	
2-Hexanone	ND	U	2.0	0.27	1	12/29/10	12/29/10	KWG1014271	
Dibromochloromethane	ND	U	0.050	0.014	1	12/29/10	12/29/10	KWG1014271	
1,2-Dibromoethane (EDB)	ND	U	0.20	0.010	1	12/29/10	12/29/10	KWG1014271	

Comments

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1014271-3

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chlorobenzene	ND	U	0.050	0.011	1	12/29/10	12/29/10	KWG1014271	
Ethylbenzene	ND	U	0.050	0.0050	1	12/29/10	12/29/10	KWG1014271	
m,p-Xylenes	ND	U	0.050	0.0091	1	12/29/10	12/29/10	KWG1014271	
o-Xylene	ND	U	0.050	0.0074	1	12/29/10	12/29/10	KWG1014271	
Styrene	ND	U	0.050	0.012	1	12/29/10	12/29/10	KWG1014271	
Bromoform	ND	U	0.050	0.016	1	12/29/10	12/29/10	KWG1014271	
Isopropylbenzene	ND	U	0.20	0.0091	1	12/29/10	12/29/10	KWG1014271	
1,1,2,2-Tetrachloroethane	ND	U	0.050	0.016	1	12/29/10	12/29/10	KWG1014271	
1,3-Dichlorobenzene	ND	U	0.050	0.010	1	12/29/10	12/29/10	KWG1014271	
1,4-Dichlorobenzene	ND	U	0.050	0.012	1	12/29/10	12/29/10	KWG1014271	
1,2-Dichlorobenzene	ND	U	0.050	0.012	1	12/29/10	12/29/10	KWG1014271	
1,2-Dibromo-3-chloropropane	ND	U	0.20	0.020	1	12/29/10	12/29/10	KWG1014271	
1,2,4-Trichlorobenzene	**0.027**	J	0.20	0.0096	1	12/29/10	12/29/10	KWG1014271	
1,2,3-Trichlorobenzene	**0.029**	J	0.20	0.011	1	12/29/10	12/29/10	KWG1014271	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	68-119	12/29/10	Acceptable
Toluene-d8	106	81-124	12/29/10	Acceptable
4-Bromofluorobenzene	102	64-132	12/29/10	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1014282-5

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.050	0.013	1	12/30/10	12/30/10	KWG1014282	
Chloromethane	ND	U	0.050	0.0068	1	12/30/10	12/30/10	KWG1014282	
Vinyl Chloride	ND	U	0.050	0.0075	1	12/30/10	12/30/10	KWG1014282	
Bromomethane	ND	U	0.050	0.0090	1	12/30/10	12/30/10	KWG1014282	
Chloroethane	ND	U	0.050	0.016	1	12/30/10	12/30/10	KWG1014282	
Trichlorofluoromethane	ND	U	0.050	0.012	1	12/30/10	12/30/10	KWG1014282	
Trichlorotrifluoroethane	ND	U	0.050	0.013	1	12/30/10	12/30/10	KWG1014282	
1,1-Dichloroethene	ND	U	0.050	0.0074	1	12/30/10	12/30/10	KWG1014282	
Acetone	ND	U	2.0	0.33	1	12/30/10	12/30/10	KWG1014282	
Carbon Disulfide	ND	U	0.050	0.010	1	12/30/10	12/30/10	KWG1014282	
Methylene Chloride	ND	U	0.20	0.017	1	12/30/10	12/30/10	KWG1014282	
Methyl tert-Butyl Ether	ND	U	0.050	0.011	1	12/30/10	12/30/10	KWG1014282	
trans-1,2-Dichloroethene	ND	U	0.050	0.0091	1	12/30/10	12/30/10	KWG1014282	
1,1-Dichloroethane	ND	U	0.050	0.0077	1	12/30/10	12/30/10	KWG1014282	
cis-1,2-Dichloroethene	ND	U	0.050	0.0067	1	12/30/10	12/30/10	KWG1014282	
2-Butanone (MEK)	ND	U	2.0	0.19	1	12/30/10	12/30/10	KWG1014282	
Bromochloromethane	ND	U	0.050	0.016	1	12/30/10	12/30/10	KWG1014282	
Chloroform	ND	U	0.050	0.0072	1	12/30/10	12/30/10	KWG1014282	
1,1,1-Trichloroethane (TCA)	ND	U	0.050	0.0075	1	12/30/10	12/30/10	KWG1014282	
Carbon Tetrachloride	ND	U	0.050	0.0096	1	12/30/10	12/30/10	KWG1014282	
Benzene	ND	U	0.050	0.0054	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichloroethane (EDC)	ND	U	0.050	0.0080	1	12/30/10	12/30/10	KWG1014282	
Trichloroethene (TCE)	ND	U	0.050	0.010	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichloropropane	ND	U	0.050	0.0095	1	12/30/10	12/30/10	KWG1014282	
Bromodichloromethane	ND	U	0.050	0.0091	1	12/30/10	12/30/10	KWG1014282	
cis-1,3-Dichloropropene	ND	U	0.050	0.018	1	12/30/10	12/30/10	KWG1014282	
4-Methyl-2-pentanone (MIBK)	ND	U	2.0	0.26	1	12/30/10	12/30/10	KWG1014282	
Toluene	ND	U	0.050	0.0052	1	12/30/10	12/30/10	KWG1014282	
trans-1,3-Dichloropropene	ND	U	0.050	0.0068	1	12/30/10	12/30/10	KWG1014282	
1,1,2-Trichloroethane	ND	U	0.050	0.014	1	12/30/10	12/30/10	KWG1014282	
Tetrachloroethene (PCE)	ND	U	0.050	0.0099	1	12/30/10	12/30/10	KWG1014282	
2-Hexanone	ND	U	2.0	0.27	1	12/30/10	12/30/10	KWG1014282	
Dibromochloromethane	ND	U	0.050	0.014	1	12/30/10	12/30/10	KWG1014282	
1,2-Dibromoethane (EDB)	ND	U	0.20	0.010	1	12/30/10	12/30/10	KWG1014282	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1014282-5

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chlorobenzene	ND	U	0.050	0.011	1	12/30/10	12/30/10	KWG1014282	
Ethylbenzene	ND	U	0.050	0.0050	1	12/30/10	12/30/10	KWG1014282	
m,p-Xylenes	ND	U	0.050	0.0091	1	12/30/10	12/30/10	KWG1014282	
o-Xylene	ND	U	0.050	0.0074	1	12/30/10	12/30/10	KWG1014282	
Styrene	ND	U	0.050	0.012	1	12/30/10	12/30/10	KWG1014282	
Bromoform	ND	U	0.050	0.016	1	12/30/10	12/30/10	KWG1014282	
Isopropylbenzene	ND	U	0.20	0.0091	1	12/30/10	12/30/10	KWG1014282	
1,1,2,2-Tetrachloroethane	ND	U	0.050	0.016	1	12/30/10	12/30/10	KWG1014282	
1,3-Dichlorobenzene	ND	U	0.050	0.010	1	12/30/10	12/30/10	KWG1014282	
1,4-Dichlorobenzene	ND	U	0.050	0.012	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichlorobenzene	ND	U	0.050	0.012	1	12/30/10	12/30/10	KWG1014282	
1,2-Dibromo-3-chloropropane	ND	U	0.20	0.020	1	12/30/10	12/30/10	KWG1014282	
1,2,4-Trichlorobenzene	**0.010**	J	0.20	0.0096	1	12/30/10	12/30/10	KWG1014282	
1,2,3-Trichlorobenzene	ND	U	0.20	0.011	1	12/30/10	12/30/10	KWG1014282	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	68-119	12/30/10	Acceptable
Toluene-d8	96	81-124	12/30/10	Acceptable
4-Bromofluorobenzene	77	64-132	12/30/10	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1014293-3

Units: mg/Kg
Basis: Dry

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.050	0.013	1	12/30/10	12/30/10	KWG1014293	
Chloromethane	ND	U	0.050	0.0068	1	12/30/10	12/30/10	KWG1014293	
Vinyl Chloride	ND	U	0.050	0.0075	1	12/30/10	12/30/10	KWG1014293	
Bromomethane	ND	U	0.050	0.0090	1	12/30/10	12/30/10	KWG1014293	
Chloroethane	ND	U	0.050	0.016	1	12/30/10	12/30/10	KWG1014293	
Trichlorofluoromethane	ND	U	0.050	0.012	1	12/30/10	12/30/10	KWG1014293	
Trichlorotrifluoroethane	ND	U	0.050	0.013	1	12/30/10	12/30/10	KWG1014293	
1,1-Dichloroethene	ND	U	0.050	0.0074	1	12/30/10	12/30/10	KWG1014293	
Acetone	ND	U	2.0	0.33	1	12/30/10	12/30/10	KWG1014293	
Carbon Disulfide	ND	U	0.050	0.010	1	12/30/10	12/30/10	KWG1014293	
Methylene Chloride	ND	U	0.20	0.017	1	12/30/10	12/30/10	KWG1014293	
Methyl tert-Butyl Ether	ND	U	0.050	0.011	1	12/30/10	12/30/10	KWG1014293	
trans-1,2-Dichloroethene	ND	U	0.050	0.0091	1	12/30/10	12/30/10	KWG1014293	
1,1-Dichloroethane	ND	U	0.050	0.0077	1	12/30/10	12/30/10	KWG1014293	
cis-1,2-Dichloroethene	ND	U	0.050	0.0067	1	12/30/10	12/30/10	KWG1014293	
2-Butanone (MEK)	ND	U	2.0	0.19	1	12/30/10	12/30/10	KWG1014293	
Bromochloromethane	ND	U	0.050	0.016	1	12/30/10	12/30/10	KWG1014293	
Chloroform	ND	U	0.050	0.0072	1	12/30/10	12/30/10	KWG1014293	
1,1,1-Trichloroethane (TCA)	ND	U	0.050	0.0075	1	12/30/10	12/30/10	KWG1014293	
Carbon Tetrachloride	ND	U	0.050	0.0096	1	12/30/10	12/30/10	KWG1014293	
Benzene	ND	U	0.050	0.0054	1	12/30/10	12/30/10	KWG1014293	
1,2-Dichloroethane (EDC)	ND	U	0.050	0.0080	1	12/30/10	12/30/10	KWG1014293	
Trichloroethene (TCE)	ND	U	0.050	0.010	1	12/30/10	12/30/10	KWG1014293	
1,2-Dichloropropane	ND	U	0.050	0.0095	1	12/30/10	12/30/10	KWG1014293	
Bromodichloromethane	ND	U	0.050	0.0091	1	12/30/10	12/30/10	KWG1014293	
cis-1,3-Dichloropropene	ND	U	0.050	0.018	1	12/30/10	12/30/10	KWG1014293	
4-Methyl-2-pentanone (MIBK)	ND	U	2.0	0.26	1	12/30/10	12/30/10	KWG1014293	
Toluene	ND	U	0.050	0.0052	1	12/30/10	12/30/10	KWG1014293	
trans-1,3-Dichloropropene	ND	U	0.050	0.0068	1	12/30/10	12/30/10	KWG1014293	
1,1,2-Trichloroethane	ND	U	0.050	0.014	1	12/30/10	12/30/10	KWG1014293	
Tetrachloroethene (PCE)	ND	U	0.050	0.0099	1	12/30/10	12/30/10	KWG1014293	
2-Hexanone	ND	U	2.0	0.27	1	12/30/10	12/30/10	KWG1014293	
Dibromochloromethane	ND	U	0.050	0.014	1	12/30/10	12/30/10	KWG1014293	
1,2-Dibromoethane (EDB)	ND	U	0.20	0.010	1	12/30/10	12/30/10	KWG1014293	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1014293-3

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chlorobenzene	ND	U	0.050	0.011	1	12/30/10	12/30/10	KWG1014293	
Ethylbenzene	ND	U	0.050	0.0050	1	12/30/10	12/30/10	KWG1014293	
m,p-Xylenes	ND	U	0.050	0.0091	1	12/30/10	12/30/10	KWG1014293	
o-Xylene	ND	U	0.050	0.0074	1	12/30/10	12/30/10	KWG1014293	
Styrene	ND	U	0.050	0.012	1	12/30/10	12/30/10	KWG1014293	
Bromoform	ND	U	0.050	0.016	1	12/30/10	12/30/10	KWG1014293	
Isopropylbenzene	ND	U	0.20	0.0091	1	12/30/10	12/30/10	KWG1014293	
1,1,2,2-Tetrachloroethane	ND	U	0.050	0.016	1	12/30/10	12/30/10	KWG1014293	
1,3-Dichlorobenzene	ND	U	0.050	0.010	1	12/30/10	12/30/10	KWG1014293	
1,4-Dichlorobenzene	ND	U	0.050	0.012	1	12/30/10	12/30/10	KWG1014293	
1,2-Dichlorobenzene	ND	U	0.050	0.012	1	12/30/10	12/30/10	KWG1014293	
1,2-Dibromo-3-chloropropane	ND	U	0.20	0.020	1	12/30/10	12/30/10	KWG1014293	
1,2,4-Trichlorobenzene	**0.012**	J	0.20	0.0096	1	12/30/10	12/30/10	KWG1014293	
1,2,3-Trichlorobenzene	**0.018**	J	0.20	0.011	1	12/30/10	12/30/10	KWG1014293	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	68-119	12/30/10	Acceptable
Toluene-d8	104	81-124	12/30/10	Acceptable
4-Bromofluorobenzene	100	64-132	12/30/10	Acceptable

Comments:

Client: AECOM **Service Request:** K1014072
Project: BASF/ Rensselaer/60135965.451

Cover Page - Organic Analysis Data Package
Semi-Volatile Organic Compounds by GC/MS

Sample Name	Lab Code	Date Collected	Date Received
TC-1A	K1014072-001	12/16/2010	12/17/2010
TC-3A1	K1014072-003	12/16/2010	12/17/2010
TC-4A1	K1014072-004	12/16/2010	12/17/2010
TC-3A1MS	KWG1014244-1	12/16/2010	12/17/2010
TC-3A1DMS	KWG1014244-2	12/16/2010	12/17/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: Carl Day

Date: 1/21/11 Title: SVA Engr

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-1A
Lab Code: K1014072-001

Extraction Method: EPA 3541
Analysis Method: 8270C

Units: mg/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzaldehyde	**2.5**		2.1	0.13	1	12/29/10	01/13/11	KWG1014244	*
Bis(2-chloroethyl) Ether	ND	U	2.1	0.072	1	12/29/10	01/11/11	KWG1014244	
Phenol	**11**		2.1	0.12	1	12/29/10	01/11/11	KWG1014244	
2-Chlorophenol	**1.8**	J	2.1	0.061	1	12/29/10	01/11/11	KWG1014244	
Bis(2-chloroisopropyl) Ether	ND	U	2.1	0.087	1	12/29/10	01/11/11	KWG1014244	
2-Methylphenol	**0.29**	J	2.1	0.11	1	12/29/10	01/11/11	KWG1014244	
Caprolactam	ND	U	4.2	0.91	1	12/29/10	01/13/11	KWG1014244	*
Hexachloroethane	ND	U	2.1	0.14	1	12/29/10	01/11/11	KWG1014244	*
N-Nitrosodi-n-propylamine	ND	U	2.1	0.12	1	12/29/10	01/11/11	KWG1014244	
4-Methylphenol†	**21**		2.1	0.11	1	12/29/10	01/11/11	KWG1014244	
Nitrobenzene	ND	U	2.1	0.17	1	12/29/10	01/11/11	KWG1014244	
Isophorone	ND	U	2.1	0.087	1	12/29/10	01/11/11	KWG1014244	
2-Nitrophenol	ND	U	2.1	0.086	1	12/29/10	01/11/11	KWG1014244	
2,4-Dimethylphenol	**0.35**	J	2.1	0.093	1	12/29/10	01/11/11	KWG1014244	
Bis(2-chloroethoxy)methane	ND	U	2.1	0.068	1	12/29/10	01/11/11	KWG1014244	
2,4-Dichlorophenol	**0.61**	J	2.1	0.11	1	12/29/10	01/11/11	KWG1014244	
Naphthalene	**18**		2.1	0.089	1	12/29/10	01/11/11	KWG1014244	
4-Chloroaniline	**2.4**		2.1	0.089	1	12/29/10	01/11/11	KWG1014244	
Hexachlorobutadiene	ND	U	2.1	0.087	1	12/29/10	01/11/11	KWG1014244	*
Biphenyl	**190**	D	41	1.2	20	12/29/10	01/14/11	KWG1014244	*
4-Chloro-3-methylphenol	ND	U	2.1	0.11	1	12/29/10	01/11/11	KWG1014244	
2-Methylnaphthalene	**5.0**	X	2.1	0.068	1	12/29/10	01/11/11	KWG1014244	
Hexachlorocyclopentadiene	ND	U	2.1	0.077	1	12/29/10	01/11/11	KWG1014244	*
2,4,6-Trichlorophenol	**0.10**	J	2.1	0.088	1	12/29/10	01/11/11	KWG1014244	
2,4,5-Trichlorophenol	**0.17**	J	2.1	0.11	1	12/29/10	01/11/11	KWG1014244	
Acetophenone	**1.4**	J	2.1	0.15	1	12/29/10	01/13/11	KWG1014244	*
2-Chloronaphthalene	**9.5**		2.1	0.062	1	12/29/10	01/11/11	KWG1014244	*
2-Nitroaniline	ND	U	13	0.11	1	12/29/10	01/11/11	KWG1014244	
Acenaphthylene	**0.17**	J	2.1	0.099	1	12/29/10	01/11/11	KWG1014244	
Dimethyl Phthalate	**0.76**	J	2.1	0.11	1	12/29/10	01/11/11	KWG1014244	
2,6-Dinitrotoluene	ND	U	2.1	0.096	1	12/29/10	01/11/11	KWG1014244	
Acenaphthene	**1.5**	J	2.1	0.083	1	12/29/10	01/11/11	KWG1014244	
3-Nitroaniline	ND	U	13	1.1	1	12/29/10	01/11/11	KWG1014244	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-1A
Lab Code: K1014072-001

Extraction Method: EPA 3541
Analysis Method: 8270C

Units: mg/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-Dinitrophenol	ND	U	13	0.69	1	12/29/10	01/11/11	KWG1014244	
Dibenzofuran	**0.77**	J	2.1	0.073	1	12/29/10	01/11/11	KWG1014244	
4-Nitrophenol	ND	U	13	0.90	1	12/29/10	01/11/11	KWG1014244	
2,4-Dinitrotoluene	ND	U	2.1	0.092	1	12/29/10	01/11/11	KWG1014244	
2,3,4,6-Tetrachlorophenol	ND	U	6.2	0.29	1	12/29/10	01/11/11	KWG1014244	
Fluorene	ND	Ui	2.1	1.3	1	12/29/10	01/11/11	KWG1014244	
4-Chlorophenyl Phenyl Ether	ND	U	2.1	0.099	1	12/29/10	01/11/11	KWG1014244	
Diethyl Phthalate	**2.2**		2.1	0.087	1	12/29/10	01/11/11	KWG1014244	
4-Nitroaniline	**4.3**	J	13	1.2	1	12/29/10	01/11/11	KWG1014244	
2-Methyl-4,6-dinitrophenol	ND	U	13	0.89	1	12/29/10	01/11/11	KWG1014244	
N-Nitrosodiphenylamine	**250**	D	41	2.3	20	12/29/10	01/10/11	KWG1014244	
4-Bromophenyl Phenyl Ether	ND	U	2.1	0.076	1	12/29/10	01/11/11	KWG1014244	
Hexachlorobenzene	ND	U	2.1	0.091	1	12/29/10	01/11/11	KWG1014244	*
Atrazine	ND	U	2.1	0.11	1	12/29/10	01/13/11	KWG1014244	*
Pentachlorophenol	ND	U	13	0.77	1	12/29/10	01/11/11	KWG1014244	
Phenanthrene	**3.4**		2.1	0.062	1	12/29/10	01/11/11	KWG1014244	
Anthracene	**15**		2.1	0.086	1	12/29/10	01/11/11	KWG1014244	
Carbazole	**1.3**	J	2.1	0.069	1	12/29/10	01/11/11	KWG1014244	
Di-n-butyl Phthalate	**3.2**		2.1	0.075	1	12/29/10	01/11/11	KWG1014244	
Fluoranthene	**3.9**		2.1	0.071	1	12/29/10	01/11/11	KWG1014244	
Pyrene	**8.2**		2.1	0.087	1	12/29/10	01/11/11	KWG1014244	
Butyl Benzyl Phthalate	ND	U	2.1	0.11	1	12/29/10	01/11/11	KWG1014244	
3,3'-Dichlorobenzidine	ND	U	13	0.17	1	12/29/10	01/11/11	KWG1014244	
Benz(a)anthracene	**1.4**	J	2.1	0.076	1	12/29/10	01/11/11	KWG1014244	
Chrysene	**1.6**	J	2.1	0.073	1	12/29/10	01/11/11	KWG1014244	
Bis(2-ethylhexyl) Phthalate	**2.4**		2.1	0.12	1	12/29/10	01/11/11	KWG1014244	
Di-n-octyl Phthalate	ND	U	2.1	0.15	1	12/29/10	01/11/11	KWG1014244	
Benzo(b)fluoranthene	**1.9**	J	2.1	0.11	1	12/29/10	01/11/11	KWG1014244	
Benzo(k)fluoranthene	**0.48**	J	2.1	0.12	1	12/29/10	01/11/11	KWG1014244	
Benzo(a)pyrene	**1.3**	J	2.1	0.13	1	12/29/10	01/11/11	KWG1014244	
Indeno(1,2,3-cd)pyrene	**0.76**	J	2.1	0.24	1	12/29/10	01/11/11	KWG1014244	*
Dibenz(a,h)anthracene	**0.17**	J	2.1	0.17	1	12/29/10	01/11/11	KWG1014244	
Benzo(g,h,i)perylene	**0.50**	J	2.1	0.13	1	12/29/10	01/11/11	KWG1014244	*

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-1A
Lab Code: K1014072-001

Units: mg/Kg
Basis: Dry

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	86	20-83	01/11/11	Outside Control Limits
Phenol-d6	86	23-90	01/11/11	Acceptable
Nitrobenzene-d5	130	29-100	01/11/11	Outside Control Limits
2-Fluorobiphenyl	112	32-104	01/11/11	Outside Control Limits
2,4,6-Tribromophenol	88	20-123	01/11/11	Acceptable
Terphenyl-d14	195	37-133	01/11/11	Outside Control Limits

† **Analyte Comments**

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-3A1
Lab Code: K1014072-003

Extraction Method: EPA 3541
Analysis Method: 8270C

Units: mg/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzaldehyde	**3.6**		2.0	0.13	1	12/29/10	01/13/11	KWG1014244	*
Bis(2-chloroethyl) Ether	ND	U	2.0	0.070	1	12/29/10	01/11/11	KWG1014244	
Phenol	**12**		2.0	0.12	1	12/29/10	01/11/11	KWG1014244	
2-Chlorophenol	**1.1**	J	2.0	0.060	1	12/29/10	01/11/11	KWG1014244	
Bis(2-chloroisopropyl) Ether	ND	U	2.0	0.085	1	12/29/10	01/11/11	KWG1014244	
2-Methylphenol	ND	U	2.0	0.10	1	12/29/10	01/11/11	KWG1014244	
Caprolactam	ND	U	4.0	0.88	1	12/29/10	01/13/11	KWG1014244	*
Hexachloroethane	ND	U	2.0	0.13	1	12/29/10	01/11/11	KWG1014244	*
N-Nitrosodi-n-propylamine	ND	U	2.0	0.12	1	12/29/10	01/11/11	KWG1014244	
4-Methylphenol†	**16**		2.0	0.11	1	12/29/10	01/11/11	KWG1014244	
Nitrobenzene	ND	U	2.0	0.16	1	12/29/10	01/11/11	KWG1014244	
Isophorone	ND	U	2.0	0.084	1	12/29/10	01/11/11	KWG1014244	
2-Nitrophenol	ND	U	2.0	0.083	1	12/29/10	01/11/11	KWG1014244	
2,4-Dimethylphenol	ND	U	2.0	0.091	1	12/29/10	01/11/11	KWG1014244	
Bis(2-chloroethoxy)methane	ND	U	2.0	0.066	1	12/29/10	01/11/11	KWG1014244	
2,4-Dichlorophenol	ND	U	2.0	0.098	1	12/29/10	01/11/11	KWG1014244	
Naphthalene	**21**		2.0	0.086	1	12/29/10	01/11/11	KWG1014244	
4-Chloroaniline	**1.6**	J	2.0	0.086	1	12/29/10	01/11/11	KWG1014244	
Hexachlorobutadiene	ND	U	2.0	0.085	1	12/29/10	01/11/11	KWG1014244	*
Biphenyl	**160**	D	40	1.1	20	12/29/10	01/14/11	KWG1014244	*
4-Chloro-3-methylphenol	ND	U	2.0	0.10	1	12/29/10	01/11/11	KWG1014244	
2-Methylnaphthalene	**5.3**	X	2.0	0.066	1	12/29/10	01/11/11	KWG1014244	
Hexachlorocyclopentadiene	ND	U	2.0	0.075	1	12/29/10	01/11/11	KWG1014244	*
2,4,6-Trichlorophenol	ND	U	2.0	0.086	1	12/29/10	01/11/11	KWG1014244	
2,4,5-Trichlorophenol	ND	U	2.0	0.11	1	12/29/10	01/11/11	KWG1014244	
Acetophenone	**8.0**		2.0	0.14	1	12/29/10	01/13/11	KWG1014244	*
2-Chloronaphthalene	**16**		2.0	0.060	1	12/29/10	01/11/11	KWG1014244	*
2-Nitroaniline	ND	U	12	0.11	1	12/29/10	01/11/11	KWG1014244	
Acenaphthylene	**0.17**	J	2.0	0.096	1	12/29/10	01/11/11	KWG1014244	
Dimethyl Phthalate	**0.67**	J	2.0	0.098	1	12/29/10	01/11/11	KWG1014244	
2,6-Dinitrotoluene	ND	U	2.0	0.094	1	12/29/10	01/11/11	KWG1014244	
Acenaphthene	**1.9**	J	2.0	0.080	1	12/29/10	01/11/11	KWG1014244	
3-Nitroaniline	ND	U	12	1.1	1	12/29/10	01/11/11	KWG1014244	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-3A1
Lab Code: K1014072-003

Units: mg/Kg
Basis: Dry

Extraction Method: EPA 3541
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-Dinitrophenol	ND	U	12	0.67	1	12/29/10	01/11/11	KWG1014244	
Dibenzofuran	**0.83**	J	2.0	0.071	1	12/29/10	01/11/11	KWG1014244	
4-Nitrophenol	ND	U	12	0.88	1	12/29/10	01/11/11	KWG1014244	
2,4-Dinitrotoluene	ND	U	2.0	0.089	1	12/29/10	01/11/11	KWG1014244	
2,3,4,6-Tetrachlorophenol	ND	U	6.0	0.28	1	12/29/10	01/11/11	KWG1014244	
Fluorene	ND	Ui	2.0	1.1	1	12/29/10	01/11/11	KWG1014244	
4-Chlorophenyl Phenyl Ether	ND	U	2.0	0.096	1	12/29/10	01/11/11	KWG1014244	
Diethyl Phthalate	ND	U	2.0	0.085	1	12/29/10	01/11/11	KWG1014244	
4-Nitroaniline	**10**	J	12	1.1	1	12/29/10	01/11/11	KWG1014244	
2-Methyl-4,6-dinitrophenol	ND	U	12	0.86	1	12/29/10	01/11/11	KWG1014244	
N-Nitrosodiphenylamine	**210**	D	40	2.2	20	12/29/10	01/11/11	KWG1014244	
4-Bromophenyl Phenyl Ether	ND	U	2.0	0.073	1	12/29/10	01/11/11	KWG1014244	
Hexachlorobenzene	ND	U	2.0	0.088	1	12/29/10	01/11/11	KWG1014244	*
Atrazine	ND	U	2.0	0.11	1	12/29/10	01/13/11	KWG1014244	*
Pentachlorophenol	ND	U	12	0.75	1	12/29/10	01/11/11	KWG1014244	
Phenanthrene	**3.4**		2.0	0.060	1	12/29/10	01/11/11	KWG1014244	
Anthracene	**9.2**		2.0	0.083	1	12/29/10	01/11/11	KWG1014244	
Carbazole	**1.0**	J	2.0	0.067	1	12/29/10	01/11/11	KWG1014244	
Di-n-butyl Phthalate	**0.46**	J	2.0	0.073	1	12/29/10	01/11/11	KWG1014244	
Fluoranthene	**3.9**		2.0	0.069	1	12/29/10	01/11/11	KWG1014244	
Pyrene	**9.6**		2.0	0.084	1	12/29/10	01/11/11	KWG1014244	
Butyl Benzyl Phthalate	ND	U	2.0	0.098	1	12/29/10	01/11/11	KWG1014244	
3,3'-Dichlorobenzidine	**19**	X	12	0.17	1	12/29/10	01/11/11	KWG1014244	
Benz(a)anthracene	**1.4**	J	2.0	0.074	1	12/29/10	01/11/11	KWG1014244	
Chrysene	**1.5**	J	2.0	0.071	1	12/29/10	01/11/11	KWG1014244	
Bis(2-ethylhexyl) Phthalate	**2.2**		2.0	0.12	1	12/29/10	01/11/11	KWG1014244	
Di-n-octyl Phthalate	ND	U	2.0	0.15	1	12/29/10	01/11/11	KWG1014244	
Benzo(b)fluoranthene	**1.6**	J	2.0	0.11	1	12/29/10	01/11/11	KWG1014244	
Benzo(k)fluoranthene	**0.46**	J	2.0	0.12	1	12/29/10	01/11/11	KWG1014244	
Benzo(a)pyrene	**1.2**	J	2.0	0.12	1	12/29/10	01/11/11	KWG1014244	
Indeno(1,2,3-cd)pyrene	**0.70**	J	2.0	0.24	1	12/29/10	01/11/11	KWG1014244	*
Dibenz(a,h)anthracene	ND	U	2.0	0.17	1	12/29/10	01/11/11	KWG1014244	
Benzo(g,h,i)perylene	ND	U	2.0	0.13	1	12/29/10	01/11/11	KWG1014244	*

Comments:

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name:	TC-3A1	**Units:**	mg/Kg
Lab Code:	K1014072-003	**Basis:**	Dry

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	23	20-83	01/11/11	Acceptable
Phenol-d6	86	23-90	01/11/11	Acceptable
Nitrobenzene-d5	139	29-100	01/11/11	Outside Control Limits
2-Fluorobiphenyl	126	32-104	01/11/11	Outside Control Limits
2,4,6-Tribromophenol	2	20-123	01/11/11	Outside Control Limits
Terphenyl-d14	162	37-133	01/11/11	Outside Control Limits

† **Analyte Comments**

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-4A1
Lab Code: K1014072-004

Units: mg/Kg
Basis: Dry

Extraction Method: EPA 3541
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzaldehyde	**4.3**		1.5	0.095	1	12/29/10	01/13/11	KWG1014244	*
Bis(2-chloroethyl) Ether	ND	U	1.5	0.053	1	12/29/10	01/11/11	KWG1014244	
Phenol	**2.2**		1.5	0.088	1	12/29/10	01/11/11	KWG1014244	
2-Chlorophenol	**1.2**	J	1.5	0.045	1	12/29/10	01/11/11	KWG1014244	
Bis(2-chloroisopropyl) Ether	ND	U	1.5	0.064	1	12/29/10	01/11/11	KWG1014244	
2-Methylphenol	ND	U	1.5	0.075	1	12/29/10	01/11/11	KWG1014244	
Caprolactam	ND	U	3.1	0.66	1	12/29/10	01/13/11	KWG1014244	*
Hexachloroethane	ND	U	1.5	0.097	1	12/29/10	01/11/11	KWG1014244	*
N-Nitrosodi-n-propylamine	ND	U	1.5	0.086	1	12/29/10	01/11/11	KWG1014244	
4-Methylphenol†	**3.4**		1.5	0.076	1	12/29/10	01/11/11	KWG1014244	
Nitrobenzene	ND	U	1.5	0.12	1	12/29/10	01/11/11	KWG1014244	
Isophorone	ND	U	1.5	0.063	1	12/29/10	01/11/11	KWG1014244	
2-Nitrophenol	ND	U	1.5	0.063	1	12/29/10	01/11/11	KWG1014244	
2,4-Dimethylphenol	ND	U	1.5	0.068	1	12/29/10	01/11/11	KWG1014244	
Bis(2-chloroethoxy)methane	ND	U	1.5	0.050	1	12/29/10	01/11/11	KWG1014244	
2,4-Dichlorophenol	**0.50**	J	1.5	0.074	1	12/29/10	01/11/11	KWG1014244	
Naphthalene	**13**		1.5	0.065	1	12/29/10	01/11/11	KWG1014244	
4-Chloroaniline	**0.74**	J	1.5	0.065	1	12/29/10	01/11/11	KWG1014244	
Hexachlorobutadiene	ND	U	1.5	0.064	1	12/29/10	01/11/11	KWG1014244	*
Biphenyl	**83**	D	30	0.81	20	12/29/10	01/14/11	KWG1014244	*
4-Chloro-3-methylphenol	ND	U	1.5	0.075	1	12/29/10	01/11/11	KWG1014244	
2-Methylnaphthalene	**3.2**	X	1.5	0.050	1	12/29/10	01/11/11	KWG1014244	
Hexachlorocyclopentadiene	ND	U	1.5	0.057	1	12/29/10	01/11/11	KWG1014244	*
2,4,6-Trichlorophenol	**0.066**	J	1.5	0.065	1	12/29/10	01/11/11	KWG1014244	
2,4,5-Trichlorophenol	**0.16**	J	1.5	0.077	1	12/29/10	01/11/11	KWG1014244	
Acetophenone	**1.7**		1.5	0.11	1	12/29/10	01/13/11	KWG1014244	*
2-Chloronaphthalene	**13**		1.5	0.045	1	12/29/10	01/11/11	KWG1014244	*
2-Nitroaniline	ND	U	9.0	0.076	1	12/29/10	01/11/11	KWG1014244	
Acenaphthylene	**0.13**	J	1.5	0.072	1	12/29/10	01/11/11	KWG1014244	
Dimethyl Phthalate	**0.34**	J	1.5	0.074	1	12/29/10	01/11/11	KWG1014244	
2,6-Dinitrotoluene	ND	U	1.5	0.070	1	12/29/10	01/11/11	KWG1014244	
Acenaphthene	**1.4**	J	1.5	0.061	1	12/29/10	01/11/11	KWG1014244	
3-Nitroaniline	ND	U	9.0	0.79	1	12/29/10	01/11/11	KWG1014244	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-4A1
Lab Code: K1014072-004

Extraction Method: EPA 3541
Analysis Method: 8270C

Units: mg/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-Dinitrophenol	ND	U	9.0	0.51	1	12/29/10	01/11/11	KWG1014244	
Dibenzofuran	**0.61**	J	1.5	0.053	1	12/29/10	01/11/11	KWG1014244	
4-Nitrophenol	ND	U	9.0	0.66	1	12/29/10	01/11/11	KWG1014244	
2,4-Dinitrotoluene	ND	U	1.5	0.067	1	12/29/10	01/11/11	KWG1014244	
2,3,4,6-Tetrachlorophenol	ND	U	4.5	0.21	1	12/29/10	01/11/11	KWG1014244	
Fluorene	ND	Ui	1.5	0.94	1	12/29/10	01/11/11	KWG1014244	
4-Chlorophenyl Phenyl Ether	ND	U	1.5	0.072	1	12/29/10	01/11/11	KWG1014244	
Diethyl Phthalate	**1.3**	J	1.5	0.064	1	12/29/10	01/11/11	KWG1014244	
4-Nitroaniline	**6.5**	J	9.0	0.81	1	12/29/10	01/11/11	KWG1014244	
2-Methyl-4,6-dinitrophenol	ND	U	9.0	0.65	1	12/29/10	01/11/11	KWG1014244	
N-Nitrosodiphenylamine	**180**	D	30	1.7	20	12/29/10	01/11/11	KWG1014244	
4-Bromophenyl Phenyl Ether	ND	U	1.5	0.055	1	12/29/10	01/11/11	KWG1014244	
Hexachlorobenzene	ND	Ui	1.5	0.22	1	12/29/10	01/11/11	KWG1014244	*
Atrazine	ND	U	1.5	0.077	1	12/29/10	01/13/11	KWG1014244	*
Pentachlorophenol	ND	U	9.0	0.57	1	12/29/10	01/11/11	KWG1014244	
Phenanthrene	**2.9**		1.5	0.045	1	12/29/10	01/11/11	KWG1014244	
Anthracene	**6.8**		1.5	0.063	1	12/29/10	01/11/11	KWG1014244	
Carbazole	**0.75**	J	1.5	0.051	1	12/29/10	01/11/11	KWG1014244	
Di-n-butyl Phthalate	**1.7**		1.5	0.055	1	12/29/10	01/11/11	KWG1014244	
Fluoranthene	**2.8**		1.5	0.052	1	12/29/10	01/11/11	KWG1014244	
Pyrene	**6.9**		1.5	0.063	1	12/29/10	01/11/11	KWG1014244	
Butyl Benzyl Phthalate	ND	U	1.5	0.074	1	12/29/10	01/11/11	KWG1014244	
3,3'-Dichlorobenzidine	**11**	X	9.0	0.13	1	12/29/10	01/11/11	KWG1014244	
Benz(a)anthracene	**1.1**	J	1.5	0.056	1	12/29/10	01/11/11	KWG1014244	
Chrysene	**1.3**	J	1.5	0.053	1	12/29/10	01/11/11	KWG1014244	
Bis(2-ethylhexyl) Phthalate	**2.1**		1.5	0.084	1	12/29/10	01/11/11	KWG1014244	
Di-n-octyl Phthalate	ND	U	1.5	0.11	1	12/29/10	01/11/11	KWG1014244	
Benzo(b)fluoranthene	**1.2**	J	1.5	0.078	1	12/29/10	01/11/11	KWG1014244	
Benzo(k)fluoranthene	**0.40**	J	1.5	0.088	1	12/29/10	01/11/11	KWG1014244	
Benzo(a)pyrene	**1.0**	J	1.5	0.089	1	12/29/10	01/11/11	KWG1014244	
Indeno(1,2,3-cd)pyrene	**0.52**	J	1.5	0.18	1	12/29/10	01/11/11	KWG1014244	*
Dibenz(a,h)anthracene	ND	U	1.5	0.13	1	12/29/10	01/11/11	KWG1014244	
Benzo(g,h,i)perylene	**0.28**	J	1.5	0.091	1	12/29/10	01/11/11	KWG1014244	*

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-4A1
Lab Code: K1014072-004

Units: mg/Kg
Basis: Dry

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	78	20-83	01/11/11	Acceptable
Phenol-d6	84	23-90	01/11/11	Acceptable
Nitrobenzene-d5	120	29-100	01/11/11	Outside Control Limits
2-Fluorobiphenyl	107	32-104	01/11/11	Outside Control Limits
2,4,6-Tribromophenol	87	20-123	01/11/11	Acceptable
Terphenyl-d14	147	37-133	01/11/11	Outside Control Limits

† **Analyte Comments**

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Sludge, solid

Service Request: K1014072
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1014244-5

Units: mg/Kg
Basis: Dry

Extraction Method: EPA 3541
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzaldehyde	ND	U	0.25	0.021	1	12/29/10	01/13/11	KWG1014244	*
Bis(2-chloroethyl) Ether	ND	U	0.25	0.012	1	12/29/10	01/10/11	KWG1014244	
Phenol	ND	U	0.25	0.020	1	12/29/10	01/10/11	KWG1014244	
2-Chlorophenol	ND	U	0.25	0.0099	1	12/29/10	01/10/11	KWG1014244	
Bis(2-chloroisopropyl) Ether	ND	U	0.25	0.015	1	12/29/10	01/10/11	KWG1014244	
2-Methylphenol	ND	U	0.25	0.017	1	12/29/10	01/10/11	KWG1014244	
Caprolactam	ND	U	0.50	0.15	1	12/29/10	01/13/11	KWG1014244	*
Hexachloroethane	ND	U	0.25	0.022	1	12/29/10	01/10/11	KWG1014244	*
N-Nitrosodi-n-propylamine	ND	U	0.25	0.020	1	12/29/10	01/10/11	KWG1014244	
4-Methylphenol†	ND	U	0.25	0.017	1	12/29/10	01/10/11	KWG1014244	
Nitrobenzene	ND	U	0.25	0.027	1	12/29/10	01/10/11	KWG1014244	
Isophorone	ND	U	0.25	0.014	1	12/29/10	01/10/11	KWG1014244	
2-Nitrophenol	ND	U	0.25	0.014	1	12/29/10	01/10/11	KWG1014244	
2,4-Dimethylphenol	ND	U	0.25	0.016	1	12/29/10	01/10/11	KWG1014244	
Bis(2-chloroethoxy)methane	ND	U	0.25	0.011	1	12/29/10	01/10/11	KWG1014244	
2,4-Dichlorophenol	ND	U	0.25	0.017	1	12/29/10	01/10/11	KWG1014244	
Naphthalene	ND	U	0.25	0.015	1	12/29/10	01/10/11	KWG1014244	
4-Chloroaniline	ND	U	0.25	0.015	1	12/29/10	01/10/11	KWG1014244	
Hexachlorobutadiene	ND	U	0.25	0.015	1	12/29/10	01/10/11	KWG1014244	*
Biphenyl	ND	U	0.25	0.0090	1	12/29/10	01/13/11	KWG1014244	*
4-Chloro-3-methylphenol	ND	U	0.25	0.017	1	12/29/10	01/10/11	KWG1014244	
2-Methylnaphthalene	ND	U	0.25	0.011	1	12/29/10	01/10/11	KWG1014244	
Hexachlorocyclopentadiene	ND	U	0.25	0.013	1	12/29/10	01/10/11	KWG1014244	*
2,4,6-Trichlorophenol	ND	U	0.25	0.015	1	12/29/10	01/10/11	KWG1014244	
2,4,5-Trichlorophenol	ND	U	0.25	0.018	1	12/29/10	01/10/11	KWG1014244	
Acetophenone	ND	U	0.25	0.023	1	12/29/10	01/13/11	KWG1014244	*
2-Chloronaphthalene	ND	U	0.25	0.010	1	12/29/10	01/10/11	KWG1014244	*
2-Nitroaniline	ND	U	1.5	0.017	1	12/29/10	01/10/11	KWG1014244	
Acenaphthylene	ND	U	0.25	0.016	1	12/29/10	01/10/11	KWG1014244	
Dimethyl Phthalate	ND	U	0.25	0.017	1	12/29/10	01/10/11	KWG1014244	
2,6-Dinitrotoluene	ND	U	0.25	0.016	1	12/29/10	01/10/11	KWG1014244	
Acenaphthene	ND	U	0.25	0.014	1	12/29/10	01/10/11	KWG1014244	
3-Nitroaniline	ND	U	1.5	0.18	1	12/29/10	01/10/11	KWG1014244	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Sludge, solid

Service Request: K1014072
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1014244-5

Units: mg/Kg
Basis: Dry

Extraction Method: EPA 3541
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-Dinitrophenol	ND	U	1.5	0.12	1	12/29/10	01/10/11	KWG1014244	
Dibenzofuran	ND	U	0.25	0.012	1	12/29/10	01/10/11	KWG1014244	
4-Nitrophenol	ND	U	1.5	0.15	1	12/29/10	01/10/11	KWG1014244	
2,4-Dinitrotoluene	ND	U	0.25	0.015	1	12/29/10	01/10/11	KWG1014244	
2,3,4,6-Tetrachlorophenol	ND	U	0.75	0.046	1	12/29/10	01/10/11	KWG1014244	
Fluorene	ND	U	0.25	0.013	1	12/29/10	01/10/11	KWG1014244	
4-Chlorophenyl Phenyl Ether	ND	U	0.25	0.016	1	12/29/10	01/10/11	KWG1014244	
Diethyl Phthalate	ND	U	0.25	0.015	1	12/29/10	01/10/11	KWG1014244	
4-Nitroaniline	ND	U	1.5	0.18	1	12/29/10	01/10/11	KWG1014244	
2-Methyl-4,6-dinitrophenol	ND	U	1.5	0.15	1	12/29/10	01/10/11	KWG1014244	
N-Nitrosodiphenylamine	ND	U	0.25	0.018	1	12/29/10	01/10/11	KWG1014244	
4-Bromophenyl Phenyl Ether	ND	U	0.25	0.013	1	12/29/10	01/10/11	KWG1014244	
Hexachlorobenzene	ND	U	0.25	0.015	1	12/29/10	01/10/11	KWG1014244	*
Atrazine	ND	U	0.25	0.017	1	12/29/10	01/13/11	KWG1014244	*
Pentachlorophenol	ND	U	1.5	0.13	1	12/29/10	01/10/11	KWG1014244	
Phenanthrene	ND	U	0.25	0.010	1	12/29/10	01/10/11	KWG1014244	
Anthracene	ND	U	0.25	0.014	1	12/29/10	01/10/11	KWG1014244	
Carbazole	**0.023**	J	0.25	0.012	1	12/29/10	01/10/11	KWG1014244	
Di-n-butyl Phthalate	ND	U	0.25	0.013	1	12/29/10	01/10/11	KWG1014244	
Fluoranthene	**0.013**	J	0.25	0.012	1	12/29/10	01/10/11	KWG1014244	
Pyrene	**0.016**	J	0.25	0.014	1	12/29/10	01/10/11	KWG1014244	
Butyl Benzyl Phthalate	ND	U	0.25	0.017	1	12/29/10	01/10/11	KWG1014244	
3,3'-Dichlorobenzidine	ND	U	1.5	0.027	1	12/29/10	01/10/11	KWG1014244	
Benz(a)anthracene	**0.018**	J	0.25	0.013	1	12/29/10	01/10/11	KWG1014244	
Chrysene	**0.019**	J	0.25	0.012	1	12/29/10	01/10/11	KWG1014244	
Bis(2-ethylhexyl) Phthalate	**0.036**	J	0.25	0.019	1	12/29/10	01/10/11	KWG1014244	
Di-n-octyl Phthalate	ND	U	0.25	0.024	1	12/29/10	01/10/11	KWG1014244	
Benzo(b)fluoranthene	**0.033**	J	0.25	0.018	1	12/29/10	01/10/11	KWG1014244	
Benzo(k)fluoranthene	**0.025**	J	0.25	0.020	1	12/29/10	01/10/11	KWG1014244	
Benzo(a)pyrene	**0.040**	J	0.25	0.020	1	12/29/10	01/10/11	KWG1014244	
Indeno(1,2,3-cd)pyrene	**0.051**	J	0.25	0.039	1	12/29/10	01/10/11	KWG1014244	*
Dibenz(a,h)anthracene	**0.038**	J	0.25	0.028	1	12/29/10	01/10/11	KWG1014244	
Benzo(g,h,i)perylene	**0.085**	J	0.25	0.021	1	12/29/10	01/10/11	KWG1014244	*

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Sludge, solid

Service Request: K1014072
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1014244-5

Units: mg/Kg
Basis: Dry

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	48	20-83	01/10/11	Acceptable
Phenol-d6	50	23-90	01/10/11	Acceptable
Nitrobenzene-d5	58	29-100	01/10/11	Acceptable
2-Fluorobiphenyl	60	32-104	01/10/11	Acceptable
2,4,6-Tribromophenol	54	20-123	01/10/11	Acceptable
Terphenyl-d14	67	37-133	01/10/11	Acceptable

† Analyte Comments

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.

Comments:

Client: AECOM **Service Request:** K1014072
Project: BASF/ Rensselaer/60135965.451

Cover Page - Organic Analysis Data Package
Chlorinated Pesticides by HRGC/MS/MS

Sample Name	Lab Code	Date Collected	Date Received
TC-1A	K1014072-001	12/16/2010	12/17/2010
TC-3A1	K1014072-003	12/16/2010	12/17/2010
TC-4A1	K1014072-004	12/16/2010	12/17/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Carl Dozier

Date: 1/31/11 Title: Group Supervisor

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Chlorinated Pesticides by HRGC/MS/MS

Sample Name: TC-1A
Lab Code: K1014072-001

Units: ng/L
Basis: NA

Extraction Method: EPA 3535A
Analysis Method: CAS SOC-PESTMS2

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	2.1	1.2	1	12/28/10	01/17/11	KWG1014194	
gamma-BHC (Lindane)	ND	U	2.1	0.63	1	12/28/10	01/17/11	KWG1014194	
beta-BHC	ND	Ui	890	890	1	12/28/10	01/17/11	KWG1014194	
delta-BHC	ND	U	2.1	0.80	1	12/28/10	01/17/11	KWG1014194	
Hexachlorobenzene	**22**		2.1	0.55	1	12/28/10	01/17/11	KWG1014194	
Heptachlor	ND	U	4.2	0.71	1	12/28/10	01/17/11	KWG1014194	
Chlorpyrifos	ND	U	2.1	0.71	1	12/28/10	01/17/11	KWG1014194	
Aldrin	ND	U	4.2	2.0	1	12/28/10	01/17/11	KWG1014194	
Octachlorostyrene	ND	U	4.2	1.2	1	12/28/10	01/17/11	KWG1014194	
Isodrin	ND	U	8.4	4.6	1	12/28/10	01/17/11	KWG1014194	
Oxychlordane	ND	U	21	7.6	1	12/28/10	01/17/11	KWG1014194	
Heptachlor Epoxide	ND	U	4.2	2.0	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDE	ND	U	2.1	0.80	1	12/28/10	01/17/11	KWG1014194	
gamma-Chlordane	ND	U	5.3	2.1	1	12/28/10	01/17/11	KWG1014194	
alpha-Chlordane	ND	U	5.3	1.6	1	12/28/10	01/17/11	KWG1014194	
trans-Nonachlor	ND	U	5.3	2.6	1	12/28/10	01/17/11	KWG1014194	
Endosulfan I	ND	Ui	8.4	8.4	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDE	**0.75**	J	2.1	0.55	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDD	ND	U	2.1	0.46	1	12/28/10	01/17/11	KWG1014194	
Dieldrin	ND	U	21	9.6	1	12/28/10	01/17/11	KWG1014194	
Endrin	ND	U	8.4	3.6	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDT	ND	U	2.1	0.55	1	12/28/10	01/17/11	KWG1014194	
cis-Nonachlor	ND	U	5.3	3.3	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDD	ND	U	2.1	0.84	1	12/28/10	01/17/11	KWG1014194	
Endosulfan II	ND	U	4.2	2.2	1	12/28/10	01/17/11	KWG1014194	
Endrin Aldehyde	ND	U	4.2	2.8	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDT	ND	U	2.1	0.96	1	12/28/10	01/17/11	KWG1014194	
Endosulfan Sulfate	ND	U	2.1	0.50	1	12/28/10	01/17/11	KWG1014194	
Methoxychlor	ND	U	2.1	0.67	1	12/28/10	01/17/11	KWG1014194	
Endrin Ketone	ND	U	4.2	3.0	1	12/28/10	01/17/11	KWG1014194	
Mirex	ND	U	4.2	0.50	1	12/28/10	01/17/11	KWG1014194	

Comments:

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010

Chlorinated Pesticides by HRGC/MS/MS

Sample Name:	TC-1A	**Units:**	ng/L
Lab Code:	K1014072-001	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
S_GBHCD6	92	5-124	01/17/11	Acceptable
S_HXCBZ13C6	71	5-120	01/17/11	Acceptable
S_Heptachlor-13C10	122	5-128	01/17/11	Acceptable
S_Chlorpyrifos-d10	57	5-200	01/17/11	Acceptable
S_Aldrin-13C12	62	5-126	01/17/11	Acceptable
S_Ocstyrene13C8	67	5-120	01/17/11	Acceptable
S_Isodrin-13C12	97	5-120	01/17/11	Acceptable
S_Oxychlordane-13C10	58	5-144	01/17/11	Acceptable
S_Heptachlrepox13C10	62	8-146	01/17/11	Acceptable
S_Endrin-13C12	63	20-157	01/17/11	Acceptable
S_4,4'DDD-d4	43	5-120	01/17/11	Acceptable
S_4,4'-DDT-d4	84	13-200	01/17/11	Acceptable
S_Mxchlord14	49	8-200	01/17/11	Acceptable
S_Endrinket13C12	36	5-120	01/17/11	Acceptable
S_Mirex-13C10	45	5-138	01/17/11	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Chlorinated Pesticides by HRGC/MS/MS

Sample Name: TC-3A1
Lab Code: K1014072-003

Extraction Method: EPA 3535A
Analysis Method: CAS SOC-PESTMS2

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	2.2	1.2	1	12/28/10	01/17/11	KWG1014194	
gamma-BHC (Lindane)	ND	U	2.2	0.65	1	12/28/10	01/17/11	KWG1014194	
beta-BHC	ND	Ui	860	860	1	12/28/10	01/17/11	KWG1014194	
delta-BHC	ND	U	2.2	0.82	1	12/28/10	01/17/11	KWG1014194	
Hexachlorobenzene	**30**		2.2	0.56	1	12/28/10	01/17/11	KWG1014194	
Heptachlor	**0.79**	J	4.3	0.73	1	12/28/10	01/17/11	KWG1014194	
Chlorpyrifos	ND	U	2.2	0.73	1	12/28/10	01/17/11	KWG1014194	
Aldrin	ND	U	4.3	2.1	1	12/28/10	01/17/11	KWG1014194	
Octachlorostyrene	ND	U	4.3	1.2	1	12/28/10	01/17/11	KWG1014194	
Isodrin	ND	U	8.6	4.8	1	12/28/10	01/17/11	KWG1014194	
Oxychlordane	ND	U	22	7.8	1	12/28/10	01/17/11	KWG1014194	
Heptachlor Epoxide	ND	U	4.3	2.1	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDE	ND	U	2.2	0.82	1	12/28/10	01/17/11	KWG1014194	
gamma-Chlordane	ND	U	5.4	2.2	1	12/28/10	01/17/11	KWG1014194	
alpha-Chlordane	ND	U	5.4	1.7	1	12/28/10	01/17/11	KWG1014194	
trans-Nonachlor	ND	U	5.4	2.6	1	12/28/10	01/17/11	KWG1014194	
Endosulfan I	ND	Ui	23	23	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDE	**0.77**	J	2.2	0.56	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDD	ND	U	2.2	0.48	1	12/28/10	01/17/11	KWG1014194	
Dieldrin	ND	U	22	9.9	1	12/28/10	01/17/11	KWG1014194	
Endrin	ND	U	8.6	3.6	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDT	ND	U	2.2	0.56	1	12/28/10	01/17/11	KWG1014194	
cis-Nonachlor	ND	U	5.4	3.4	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDD	ND	U	2.2	0.86	1	12/28/10	01/17/11	KWG1014194	
Endosulfan II	ND	U	4.3	2.2	1	12/28/10	01/17/11	KWG1014194	
Endrin Aldehyde	ND	U	4.3	2.9	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDT	ND	U	2.2	0.99	1	12/28/10	01/17/11	KWG1014194	
Endosulfan Sulfate	ND	U	2.2	0.52	1	12/28/10	01/17/11	KWG1014194	
Methoxychlor	ND	U	2.2	0.69	1	12/28/10	01/17/11	KWG1014194	
Endrin Ketone	ND	U	4.3	3.0	1	12/28/10	01/17/11	KWG1014194	
Mirex	ND	U	4.3	0.52	1	12/28/10	01/17/11	KWG1014194	

Comments:

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010

Chlorinated Pesticides by HRGC/MS/MS

Sample Name:	TC-3A1	**Units:**	ng/L
Lab Code:	K1014072-003	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
S_GBHCD6	91	5-124	01/17/11	Acceptable
S_HXCBZ13C6	78	5-120	01/17/11	Acceptable
S_Heptachlor-13C10	132	5-128	01/17/11	Outside Control Limits
S_Chlorpyrifos-d10	57	5-200	01/17/11	Acceptable
S_Aldrin-13C12	61	5-126	01/17/11	Acceptable
S_Ocstyrene13C8	59	5-120	01/17/11	Acceptable
S_Isodrin-13C12	202	5-120	01/17/11	Outside Control Limits
S_Oxychlordane-13C10	43	5-144	01/17/11	Acceptable
S_Heptachlrepox13C10	58	8-146	01/17/11	Acceptable
S_Endrin-13C12	60	20-157	01/17/11	Acceptable
S_4,4'DDD-d4	46	5-120	01/17/11	Acceptable
S_4,4'-DDT-d4	102	13-200	01/17/11	Acceptable
S_Mxchlord14	48	8-200	01/17/11	Acceptable
S_Endrinket13C12	34	5-120	01/17/11	Acceptable
S_Mirex-13C10	39	5-138	01/17/11	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Chlorinated Pesticides by HRGC/MS/MS

Sample Name: TC-4A1
Lab Code: K1014072-004

Extraction Method: EPA 3535A
Analysis Method: CAS SOC-PESTMS2

Units: ng/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	2.0	1.1	1	12/28/10	01/17/11	KWG1014194	
gamma-BHC (Lindane)	ND	U	2.0	0.60	1	12/28/10	01/17/11	KWG1014194	
beta-BHC	ND	Ui	550	550	1	12/28/10	01/17/11	KWG1014194	
delta-BHC	ND	U	2.0	0.76	1	12/28/10	01/17/11	KWG1014194	
Hexachlorobenzene	**32**		2.0	0.52	1	12/28/10	01/17/11	KWG1014194	
Heptachlor	ND	U	3.9	0.68	1	12/28/10	01/17/11	KWG1014194	
Chlorpyrifos	ND	U	2.0	0.68	1	12/28/10	01/17/11	KWG1014194	
Aldrin	ND	U	3.9	1.9	1	12/28/10	01/17/11	KWG1014194	
Octachlorostyrene	ND	U	3.9	1.2	1	12/28/10	01/17/11	KWG1014194	
Isodrin	ND	U	7.7	4.4	1	12/28/10	01/17/11	KWG1014194	
Oxychlordane	ND	U	20	7.2	1	12/28/10	01/17/11	KWG1014194	
Heptachlor Epoxide	ND	U	3.9	1.9	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDE	ND	U	2.0	0.76	1	12/28/10	01/17/11	KWG1014194	
gamma-Chlordane	ND	U	4.9	2.0	1	12/28/10	01/17/11	KWG1014194	
alpha-Chlordane	ND	U	4.9	1.5	1	12/28/10	01/17/11	KWG1014194	
trans-Nonachlor	ND	U	4.9	2.4	1	12/28/10	01/17/11	KWG1014194	
Endosulfan I	ND	Ui	15	15	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDE	**0.70**	J	2.0	0.52	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDD	ND	U	2.0	0.44	1	12/28/10	01/17/11	KWG1014194	
Dieldrin	ND	U	20	9.2	1	12/28/10	01/17/11	KWG1014194	
Endrin	ND	U	7.7	3.4	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDT	ND	U	2.0	0.52	1	12/28/10	01/17/11	KWG1014194	
cis-Nonachlor	ND	U	4.9	3.1	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDD	ND	U	2.0	0.80	1	12/28/10	01/17/11	KWG1014194	
Endosulfan II	ND	U	3.9	2.1	1	12/28/10	01/17/11	KWG1014194	
Endrin Aldehyde	ND	U	3.9	2.7	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDT	ND	U	2.0	0.92	1	12/28/10	01/17/11	KWG1014194	
Endosulfan Sulfate	ND	U	2.0	0.48	1	12/28/10	01/17/11	KWG1014194	
Methoxychlor	ND	U	2.0	0.64	1	12/28/10	01/17/11	KWG1014194	
Endrin Ketone	ND	U	3.9	2.8	1	12/28/10	01/17/11	KWG1014194	
Mirex	ND	U	3.9	0.48	1	12/28/10	01/17/11	KWG1014194	

Comments:

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010

Chlorinated Pesticides by HRGC/MS/MS

Sample Name:	TC-4A1	**Units:**	ng/L
Lab Code:	K1014072-004	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
S_GBHCD6	101	5-124	01/17/11	Acceptable
S_HXCBZ13C6	85	5-120	01/17/11	Acceptable
S_Heptachlor-13C10	146	5-128	01/17/11	Outside Control Limits
S_Chlorpyrifos-d10	64	5-200	01/17/11	Acceptable
S_Aldrin-13C12	73	5-126	01/17/11	Acceptable
S_Ocstyrene13C8	69	5-120	01/17/11	Acceptable
S_Isodrin-13C12	85	5-120	01/17/11	Acceptable
S_Oxychlordane-13C10	81	5-144	01/17/11	Acceptable
S_Heptachlrepox13C10	71	8-146	01/17/11	Acceptable
S_Endrin-13C12	67	20-157	01/17/11	Acceptable
S_4,4'DDD-d4	59	5-120	01/17/11	Acceptable
S_4,4'-DDT-d4	96	13-200	01/17/11	Acceptable
S_Mxchlord14	59	8-200	01/17/11	Acceptable
S_Endrinket13C12	43	5-120	01/17/11	Acceptable
S_Mirex-13C10	51	5-138	01/17/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Chlorinated Pesticides by HRGC/MS/MS

Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KWG1014194-3	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	CAS SOC-PESTMS2		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	**0.36**	J	0.49	0.27	1	12/28/10	01/17/11	KWG1014194	
gamma-BHC (Lindane)	**0.43**	J	0.49	0.15	1	12/28/10	01/17/11	KWG1014194	
beta-BHC	**0.43**	J	0.49	0.31	1	12/28/10	01/17/11	KWG1014194	
delta-BHC	**0.67**		0.49	0.19	1	12/28/10	01/17/11	KWG1014194	
Hexachlorobenzene	ND	U	0.49	0.13	1	12/28/10	01/17/11	KWG1014194	
Heptachlor	**0.39**	J	0.97	0.17	1	12/28/10	01/17/11	KWG1014194	
Chlorpyrifos	ND	U	0.49	0.17	1	12/28/10	01/17/11	KWG1014194	
Aldrin	**0.50**	J	0.97	0.47	1	12/28/10	01/17/11	KWG1014194	
Octachlorostyrene	ND	U	0.97	0.28	1	12/28/10	01/17/11	KWG1014194	
Isodrin	ND	U	2.0	1.1	1	12/28/10	01/17/11	KWG1014194	
Oxychlordane	ND	U	2.0	0.72	1	12/28/10	01/17/11	KWG1014194	
Heptachlor Epoxide	ND	U	0.97	0.47	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDE	ND	U	0.49	0.19	1	12/28/10	01/17/11	KWG1014194	
gamma-Chlordane	**0.34**	J	0.49	0.20	1	12/28/10	01/17/11	KWG1014194	
alpha-Chlordane	**0.35**	J	0.49	0.15	1	12/28/10	01/17/11	KWG1014194	
trans-Nonachlor	ND	U	0.49	0.24	1	12/28/10	01/17/11	KWG1014194	
Endosulfan I	ND	U	2.0	1.2	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDE	**0.39**	J	0.49	0.13	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDD	ND	U	0.49	0.11	1	12/28/10	01/17/11	KWG1014194	
Dieldrin	ND	U	4.9	2.3	1	12/28/10	01/17/11	KWG1014194	
Endrin	ND	U	2.0	0.84	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDT	ND	U	0.49	0.13	1	12/28/10	01/17/11	KWG1014194	
cis-Nonachlor	ND	U	0.49	0.31	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDD	**0.43**	J	0.49	0.20	1	12/28/10	01/17/11	KWG1014194	
Endosulfan II	ND	U	0.97	0.51	1	12/28/10	01/17/11	KWG1014194	
Endrin Aldehyde	ND	U	0.97	0.67	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDT	**0.36**	J	0.49	0.23	1	12/28/10	01/17/11	KWG1014194	
Endosulfan Sulfate	**0.38**	J	0.49	0.12	1	12/28/10	01/17/11	KWG1014194	
Methoxychlor	**0.32**	J	0.49	0.16	1	12/28/10	01/17/11	KWG1014194	
Endrin Ketone	ND	U	0.97	0.70	1	12/28/10	01/17/11	KWG1014194	
Mirex	ND	U	0.97	0.12	1	12/28/10	01/17/11	KWG1014194	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA

Chlorinated Pesticides by HRGC/MS/MS

Sample Name: Method Blank
Lab Code: KWG1014194-3

Units: ng/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
S_GBHCD6	82	5-124	01/17/11	Acceptable
S_HXCBZ13C6	74	5-120	01/17/11	Acceptable
S_Heptachlor-13C10	85	5-128	01/17/11	Acceptable
S_Chlorpyrifos-d10	91	5-200	01/17/11	Acceptable
S_Aldrin-13C12	88	5-126	01/17/11	Acceptable
S_Ocstyrene13C8	94	5-120	01/17/11	Acceptable
S_Isodrin-13C12	103	5-120	01/17/11	Acceptable
S_Oxychlordane-13C10	95	5-144	01/17/11	Acceptable
S_Heptachlrepox13C10	92	8-146	01/17/11	Acceptable
S_Endrin-13C12	91	20-157	01/17/11	Acceptable
S_4,4'DDD-d4	91	5-120	01/17/11	Acceptable
S_4,4'-DDT-d4	89	13-200	01/17/11	Acceptable
S_Mxchlord14	89	8-200	01/17/11	Acceptable
S_Endrinket13C12	89	5-120	01/17/11	Acceptable
S_Mirex-13C10	80	5-138	01/17/11	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451

Service Request: K1014072

Cover Page - Organic Analysis Data Package
Semi-Volatile Organic Compounds by GC/MS

Sample Name	Lab Code	Date Collected	Date Received
TC-1A	K1014072-001	12/16/2010	12/17/2010
TC-3A1	K1014072-003	12/16/2010	12/17/2010
TC-4A1	K1014072-004	12/16/2010	12/17/2010
TC-4A1MS	KWG1014130-3	12/16/2010	12/17/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Carl Dyer

Date: 1/21/11 Title: Group Supervisor

u:\Stealth\Crystal.rpt\FormSSum.rpt SuperSet Reference: RR124562

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010
Date Prepared: 12/20/2010

Toxicity Characteristic Leaching Procedure (TCLP)
Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-1A
Lab Code: K1014072-001

Units: mg/L
Basis: NA

Preparation Method: EPA 1311
Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Pyridine	ND	U	0.50	0.25	5	1	12/27/10	01/10/11	
2-Methylphenol	ND	U	0.10	0.0086	200	1	12/27/10	01/10/11	
Hexachloroethane	ND	U	0.10	0.0048	3	1	12/27/10	01/10/11	
4-Methylphenol†	**0.73**		0.10	0.0047	200	1	12/27/10	01/10/11	
Nitrobenzene	ND	U	0.10	0.0079	2	1	12/27/10	01/10/11	
Hexachlorobutadiene	ND	U	0.10	0.0064	0.5	1	12/27/10	01/10/11	
2,4,6-Trichlorophenol	ND	U	0.10	0.0069	2	1	12/27/10	01/10/11	
2,4,5-Trichlorophenol	ND	U	0.10	0.0087	400	1	12/27/10	01/10/11	
2,4-Dinitrotoluene	ND	U	0.10	0.013	0.13	1	12/27/10	01/10/11	
Hexachlorobenzene	ND	U	0.10	0.0094	0.13	1	12/27/10	01/10/11	
Pentachlorophenol	ND	U	0.25	0.011	100	1	12/27/10	01/10/11	

Surrogate Name	%Rec	Control Limits	Note
2-Fluorophenol	66	39-106	Acceptable
Phenol-d6	64	35-106	Acceptable
Nitrobenzene-d5	94	42-121	Acceptable
2-Fluorobiphenyl	80	38-113	Acceptable
2,4,6-Tribromophenol	82	13-122	Acceptable
Terphenyl-d14	80	35-138	Acceptable

† Analyte Comments

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Prepared:	12/20/2010

Toxicity Characteristic Leaching Procedure (TCLP)
Semi-Volatile Organic Compounds by GC/MS

Sample Name:	TC-3A1	**Units:**	mg/L
Lab Code:	K1014072-003	**Basis:**	NA
Preparation Method:	EPA 1311	**Level:**	Low
Extraction Method:	EPA 3510C		
Analysis Method:	8270C		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Pyridine	ND	U	0.50	0.25	5	1	12/27/10	01/10/11	
2-Methylphenol	ND	U	0.10	0.0086	200	1	12/27/10	01/10/11	
Hexachloroethane	ND	U	0.10	0.0048	3	1	12/27/10	01/10/11	
4-Methylphenol†	**0.14**		0.10	0.0047	200	1	12/27/10	01/10/11	
Nitrobenzene	ND	U	0.10	0.0079	2	1	12/27/10	01/10/11	
Hexachlorobutadiene	ND	U	0.10	0.0064	0.5	1	12/27/10	01/10/11	
2,4,6-Trichlorophenol	ND	U	0.10	0.0069	2	1	12/27/10	01/10/11	
2,4,5-Trichlorophenol	ND	U	0.10	0.0087	400	1	12/27/10	01/10/11	
2,4-Dinitrotoluene	ND	U	0.10	0.013	0.13	1	12/27/10	01/10/11	
Hexachlorobenzene	ND	U	0.10	0.0094	0.13	1	12/27/10	01/10/11	
Pentachlorophenol	ND	U	0.25	0.011	100	1	12/27/10	01/10/11	

Surrogate Name	%Rec	Control Limits	Note
2-Fluorophenol	63	39-106	Acceptable
Phenol-d6	66	35-106	Acceptable
Nitrobenzene-d5	88	42-121	Acceptable
2-Fluorobiphenyl	74	38-113	Acceptable
2,4,6-Tribromophenol	71	13-122	Acceptable
Terphenyl-d14	78	35-138	Acceptable

† Analyte Comments

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010
Date Prepared: 12/20/2010

Toxicity Characteristic Leaching Procedure (TCLP)
Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-4A1
Lab Code: K1014072-004

Units: mg/L
Basis: NA

Preparation Method: EPA 1311
Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Pyridine	ND	U	0.50	0.25	5	1	12/27/10	01/10/11	
2-Methylphenol	ND	U	0.10	0.0086	200	1	12/27/10	01/10/11	
Hexachloroethane	ND	U	0.10	0.0048	3	1	12/27/10	01/10/11	
4-Methylphenol†	**0.24**		0.10	0.0047	200	1	12/27/10	01/10/11	
Nitrobenzene	ND	U	0.10	0.0079	2	1	12/27/10	01/10/11	
Hexachlorobutadiene	ND	U	0.10	0.0064	0.5	1	12/27/10	01/10/11	
2,4,6-Trichlorophenol	ND	U	0.10	0.0069	2	1	12/27/10	01/10/11	
2,4,5-Trichlorophenol	ND	U	0.10	0.0087	400	1	12/27/10	01/10/11	
2,4-Dinitrotoluene	ND	U	0.10	0.013	0.13	1	12/27/10	01/10/11	
Hexachlorobenzene	ND	U	0.10	0.0094	0.13	1	12/27/10	01/10/11	
Pentachlorophenol	ND	U	0.25	0.011	100	1	12/27/10	01/10/11	

Surrogate Name	%Rec	Control Limits	Note
2-Fluorophenol	67	39-106	Acceptable
Phenol-d6	63	35-106	Acceptable
Nitrobenzene-d5	88	42-121	Acceptable
2-Fluorobiphenyl	78	38-113	Acceptable
2,4,6-Tribromophenol	77	13-122	Acceptable
Terphenyl-d14	78	35-138	Acceptable

† Analyte Comments

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Prepared:	12/20/2010

Toxicity Characteristic Leaching Procedure (TCLP)
Semi-Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	mg/L
Lab Code:	KWG1014130-2	**Basis:**	NA
Preparation Method:	EPA 1311	**Level:**	Low
Extraction Method:	EPA 3510C		
Analysis Method:	8270C		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Pyridine	ND	U	0.50	0.25	5	1	12/27/10	01/10/11	
2-Methylphenol	ND	U	0.10	0.0086	200	1	12/27/10	01/10/11	
Hexachloroethane	ND	U	0.10	0.0048	3	1	12/27/10	01/10/11	
4-Methylphenol†	ND	U	0.10	0.0047	200	1	12/27/10	01/10/11	
Nitrobenzene	ND	U	0.10	0.0079	2	1	12/27/10	01/10/11	
Hexachlorobutadiene	ND	U	0.10	0.0064	0.5	1	12/27/10	01/10/11	
2,4,6-Trichlorophenol	ND	U	0.10	0.0069	2	1	12/27/10	01/10/11	
2,4,5-Trichlorophenol	ND	U	0.10	0.0087	400	1	12/27/10	01/10/11	
2,4-Dinitrotoluene	ND	U	0.10	0.013	0.13	1	12/27/10	01/10/11	
Hexachlorobenzene	ND	U	0.10	0.0094	0.13	1	12/27/10	01/10/11	
Pentachlorophenol	ND	U	0.25	0.011	100	1	12/27/10	01/10/11	

Surrogate Name	%Rec	Control Limits	Note
2-Fluorophenol	75	39-106	Acceptable
Phenol-d6	70	35-106	Acceptable
Nitrobenzene-d5	96	42-121	Acceptable
2-Fluorobiphenyl	82	38-113	Acceptable
2,4,6-Tribromophenol	81	13-122	Acceptable
Terphenyl-d14	91	35-138	Acceptable

† Analyte Comments

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.

Comments:

Chlorinated Pesticides after TCLP Extraction

Organic Analysis:
Chlorinated Pesticides in TCLP by HRGC/MS/MS

Summary Package

Sample and QC Results

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Service Request: K1014072

Cover Page - Organic Analysis Data Package
Chlorinated Pesticides in TCLP by HRGC/MS/MS

Sample Name	Lab Code	Date Collected	Date Received
TC-1A	K1014072-001	12/16/2010	12/17/2010
TC-3A1	K1014072-003	12/16/2010	12/17/2010
TC-4A1	K1014072-004	12/16/2010	12/17/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Carl Dagus

Date: 2/2/11 Title: Group Supervisor

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Prepared:	12/20/2010

Toxicity Characteristic Leaching Procedure (TCLP)
Chlorinated Pesticides in TCLP by HRGC/MS/MS

Sample Name:	TC-1A	**Units:**	ug/L
Lab Code:	K1014072-001	**Basis:**	NA
Preparation Method:	EPA 1311	**Level:**	Low
Extraction Method:	EPA 3535A		
Analysis Method:	CAS SOC-PESTMS2		

Analyte Name	Result	Q	MRL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
gamma-BHC (Lindane)	ND	U	0.0021	400	1	12/28/10	01/17/11	
Heptachlor	ND	U	0.0042	8	1	12/28/10	01/17/11	
Heptachlor Epoxide	ND	U	0.0042	8	1	12/28/10	01/17/11	
Endrin	ND	U	0.0084	20	1	12/28/10	01/17/11	
Methoxychlor	ND	U	0.0021	10000	1	12/28/10	01/17/11	
Oxychlordane	ND	U	0.021	30	1	12/28/10	01/17/11	
alpha-Chlordane	ND	U	0.0053	30	1	12/28/10	01/17/11	
gamma-Chlordane	ND	U	0.0053	30	1	12/28/10	01/17/11	
cis-Nonachlor	ND	U	0.0053	30	1	12/28/10	01/17/11	
trans-Nonachlor	ND	U	0.0053	30	1	12/28/10	01/17/11	

Surrogate Name	%Rec	Control Limits	Note
S_GBHCD6	92	5-124	Acceptable
S_Heptachlor-13C10	122	5-128	Acceptable
S_Heptachlrepox13C10	62	8-146	Acceptable
S_Endrin-13C12	63	20-157	Acceptable
S_Mxchlord14	49	8-200	Acceptable
S_Oxychlordane-13C10	58	5-144	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Prepared:	12/20/2010

Toxicity Characteristic Leaching Procedure (TCLP)
Chlorinated Pesticides in TCLP by HRGC/MS/MS

Sample Name:	TC-3A1	**Units:**	ug/L
Lab Code:	K1014072-003	**Basis:**	NA
Preparation Method:	EPA 1311	**Level:**	Low
Extraction Method:	EPA 3535A		
Analysis Method:	CAS SOC-PESTMS2		

Analyte Name	Result	Q	MRL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
gamma-BHC (Lindane)	ND	U	0.0022	400	1	12/28/10	01/17/11	
Heptachlor	ND	U	0.0043	8	1	12/28/10	01/17/11	
Heptachlor Epoxide	ND	U	0.0043	8	1	12/28/10	01/17/11	
Endrin	ND	U	0.0086	20	1	12/28/10	01/17/11	
Methoxychlor	ND	U	0.0022	10000	1	12/28/10	01/17/11	
Oxychlordane	ND	U	0.022	30	1	12/28/10	01/17/11	
alpha-Chlordane	ND	U	0.0054	30	1	12/28/10	01/17/11	
gamma-Chlordane	ND	U	0.0054	30	1	12/28/10	01/17/11	
cis-Nonachlor	ND	U	0.0054	30	1	12/28/10	01/17/11	
trans-Nonachlor	ND	U	0.0054	30	1	12/28/10	01/17/11	

Surrogate Name	%Rec	Control Limits	Note
S_GBHCD6	91	5-124	Acceptable
S_Heptachlor-13C10	132	5-128	Outside Control Limits
S_Heptachlrepox13C10	58	8-146	Acceptable
S_Endrin-13C12	60	20-157	Acceptable
S_Mxchlord14	48	8-200	Acceptable
S_Oxychlordane-13C10	43	5-144	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Prepared:	12/20/2010

Toxicity Characteristic Leaching Procedure (TCLP)
Chlorinated Pesticides in TCLP by HRGC/MS/MS

Sample Name:	TC-4A1	**Units:**	ug/L
Lab Code:	K1014072-004	**Basis:**	NA
Preparation Method:	EPA 1311	**Level:**	Low
Extraction Method:	EPA 3535A		
Analysis Method:	CAS SOC-PESTMS2		

Analyte Name	Result	Q	MRL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
gamma-BHC (Lindane)	ND	U	0.0020	400	1	12/28/10	01/17/11	
Heptachlor	ND	U	0.0039	8	1	12/28/10	01/17/11	
Heptachlor Epoxide	ND	U	0.0039	8	1	12/28/10	01/17/11	
Endrin	ND	U	0.0077	20	1	12/28/10	01/17/11	
Methoxychlor	ND	U	0.0020	10000	1	12/28/10	01/17/11	
Oxychlordane	ND	U	0.020	30	1	12/28/10	01/17/11	
alpha-Chlordane	ND	U	0.0049	30	1	12/28/10	01/17/11	
gamma-Chlordane	ND	U	0.0049	30	1	12/28/10	01/17/11	
cis-Nonachlor	ND	U	0.0049	30	1	12/28/10	01/17/11	
trans-Nonachlor	ND	U	0.0049	30	1	12/28/10	01/17/11	

Surrogate Name	%Rec	Control Limits	Note
S_GBHCD6	101	5-124	Acceptable
S_Heptachlor-13C10	146	5-128	Outside Control Limits
S_Heptachlrepox13C10	71	8-146	Acceptable
S_Endrin-13C12	67	20-157	Acceptable
S_Mxchlord14	59	8-200	Acceptable
S_Oxychlordane-13C10	81	5-144	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Prepared:	12/20/2010

Toxicity Characteristic Leaching Procedure (TCLP)
Chlorinated Pesticides in TCLP by HRGC/MS/MS

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1014194-3	**Basis:**	NA
Preparation Method:	EPA 1311	**Level:**	Low
Extraction Method:	EPA 3535A		
Analysis Method:	CAS SOC-PESTMS2		

Analyte Name	Result	Q	MRL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
gamma-BHC (Lindane)	ND	U	0.00049	400	1	12/28/10	01/17/11	
Heptachlor	ND	U	0.00097	8	1	12/28/10	01/17/11	
Heptachlor Epoxide	ND	U	0.00097	8	1	12/28/10	01/17/11	
Endrin	ND	U	0.0020	20	1	12/28/10	01/17/11	
Methoxychlor	ND	U	0.00049	10000	1	12/28/10	01/17/11	
Oxychlordane	ND	U	0.0020	30	1	12/28/10	01/17/11	
alpha-Chlordane	ND	U	0.00049	30	1	12/28/10	01/17/11	
gamma-Chlordane	ND	U	0.00049	30	1	12/28/10	01/17/11	
cis-Nonachlor	ND	U	0.00049	30	1	12/28/10	01/17/11	
trans-Nonachlor	ND	U	0.00049	30	1	12/28/10	01/17/11	

Surrogate Name	%Rec	Control Limits	Note
S_GBHCD6	82	5-124	Acceptable
S_Heptachlor-13C10	85	5-128	Acceptable
S_Heptachlrepox13C10	92	8-146	Acceptable
S_Endrin-13C12	91	20-157	Acceptable
S_Mxchlord14	89	8-200	Acceptable
S_Oxychlordane-13C10	95	5-144	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072

Surrogate Recovery Summary
Toxicity Characteristic Leaching Procedure (TCLP)
Chlorinated Pesticides in TCLP by HRGC/MS/MS

Preparation Method: EPA 1311
Extraction Method: EPA 3535A
Analysis Method: CAS SOC-PESTMS2

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2		Sur3	Sur4	Sur5	Sur6
TC-1A	K1014072-001	92	122		62	63	49	58
TC-3A1	K1014072-003	91	132	*	58	60	48	43
TC-4A1	K1014072-004	101	146	*	71	67	59	81
Method Blank	KWG1014194-3	82	85		92	91	89	95
Lab Control Sample	KWG1014194-1	72	80		73	73	69	77
Duplicate Lab Control Sample	KWG1014194-2	89	86		90	96	94	93

Surrogate Recovery Control Limits (%)

Sur1 = S_GBHCD6	5-124	Sur5 = S_Mxchlord14	8-200
Sur2 = S_Heptachlor-13C10	5-128	Sur6 = S_Oxychlordane-13C10	5-144
Sur3 = S_Heptachlrepox13C10	8-146		
Sur4 = S_Endrin-13C12	20-157		

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: AECOM
Project: BASF/ Rensselaer/60135965.451

Service Request: K1014072
Date Analyzed: 01/17/2011
Time Analyzed: 12:20

Internal Standard Area and RT Summary
Chlorinated Pesticides in TCLP by HRGC/MS/MS

File ID: J:\MS21\DATA\011711\0117F015.D
Instrument ID: MS21
Analysis Method: CAS SOC-PESTMS

Lab Code: KWG1100645-1
Analysis Lot: KWG1100645

		5,5'-Tetrachlorobiphenyl-13		gamma-BHC-d6		Heptachlor-13C10	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	73,349	12.29	7,224	11.20	6,677	12.03
	Upper Limit ==>	146,698	12.79	14,447	11.70	13,355	12.53
	Lower Limit ==>	36,674	11.79	361	10.70	334	11.53
	ICAL Result ==>	66,522	12.29	6,945	11.21	5,726	12.03
Associated Analyses							
Method Blank	KWG1014194-3	73,906	12.29	6,247	11.20	5,891	12.03
Lab Control Sample	KWG1014194-1	71,664	12.29	5,349	11.20	5,395	12.03
Duplicate Lab Control Sample	KWG1014194-2	63,607	12.29	5,846	11.20	5,156	12.03
TC-1A	K1014072-001	93,526	12.29	860	11.21	910	12.03
TC-3A1	K1014072-003	94,202	12.29	895	11.21	1,079	12.03
TC-4A1	K1014072-004	93,164	12.29	1,014	11.22	1,251	12.03
TC-1ARE	K1014072-001	110,943	12.30	2,632	11.22	3,173	12.04
TC-3A1RE	K1014072-003	114,014	12.30	2,668	11.23	3,553	12.05
TC-4A1RE	K1014072-004	106,527	12.30	2,773	11.24	3,651	12.05

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: AECOM
Project: BASF/ Rensselaer/60135965.451

Service Request: K1014072
Date Analyzed: 01/17/2011
Time Analyzed: 12:20

Internal Standard Area and RT Summary
Chlorinated Pesticides in TCLP by HRGC/MS/MS

File ID: J:\MS21\DATA\011711\0117F015.D
Instrument ID: MS21
Analysis Method: CAS SOC-PESTMS

Lab Code: KWG1100645-1
Analysis Lot: KWG1100645

		Ieptachlor Epoxide-13C1		Endrin-13C12		Methoxychlor-d14	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	4,231	13.22	1,743	14.85	22,700	16.96
	Upper Limit ==>	8,463	13.72	3,485	15.35	45,401	17.46
	Lower Limit ==>	212	12.72	87	14.35	1,135	16.46
	ICAL Result ==>	4,135	13.22	1,790	14.85	25,553	16.96
Associated Analyses							
Method Blank	KWG1014194-3	4,104	13.22	1,757	14.85	23,369	16.96
Lab Control Sample	KWG1014194-1	3,147	13.22	1,356	14.84	17,453	16.96
Duplicate Lab Control Sample	KWG1014194-2	3,446	13.22	1,591	14.84	21,241	16.96
TC-1A	K1014072-001	270	13.23	136	14.85	1,564	16.96
TC-3A1	K1014072-003	342	13.23	155	14.85	1,650	16.96
TC-4A1	K1014072-004	377	13.23	159	14.85	1,746	16.96
TC-1ARE	K1014072-001	1,033	13.23	452	14.86	4,776	16.96
TC-3A1RE	K1014072-003	1,002	13.23	446	14.86	4,895	16.96
TC-4A1RE	K1014072-004	1,151	13.24	461	14.87	5,542	16.96

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: AECOM
Project: BASF/ Rensselaer/60135965.451

Service Request: K1014072
Date Analyzed: 01/17/2011
Time Analyzed: 12:20

Internal Standard Area and RT Summary
Chlorinated Pesticides in TCLP by HRGC/MS/MS

File ID: J:\MS21\DATA\011711\0117F015.D
Instrument ID: MS21
Analysis Method: CAS SOC-PESTMS

Lab Code: KWG1100645-1
Analysis Lot: KWG1100645

		Oxychlordane-13C10	
		Area	**RT**
	Results ==>	2,957	13.14
	Upper Limit ==>	5,913	13.64
	Lower Limit ==>	148	12.64
	ICAL Result ==>	2,902	13.15
Associated Analyses			
Method Blank	KWG1014194-3	2,856	13.15
Lab Control Sample	KWG1014194-1	2,232	13.14
Duplicate Lab Control Sample	KWG1014194-2	2,403	13.14
TC-1A	K1014072-001	219	13.15
TC-3A1	K1014072-003	165	13.14
TC-4A1	K1014072-004	307	13.15
TC-1ARE	K1014072-001	678	13.14
TC-3A1RE	K1014072-003	1,720	13.15
TC-4A1RE	K1014072-004	1,603	13.15

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Prepared: 12/20/2010
Date Extracted: 12/28/2010
Date Analyzed: 01/17/2011

Lab Control Spike/Duplicate Lab Control Spike Summary
Chlorinated Pesticides in TCLP by HRGC/MS/MS

Extraction Method: EPA 1311/EPA 3535A
Analysis Method: CAS SOC-PESTMS2

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1014194

	Lab Control Sample KWG1014194-1 Lab Control Spike			Duplicate Lab Control Sample KWG1014194-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
gamma-BHC (Lindane)	0.0176	0.0200	88	0.0212	0.0200	106	50-120	19	30
Heptachlor	0.0177	0.0200	89	0.0211	0.0200	106	50-120	17	30
Heptachlor Epoxide	0.0187	0.0200	93	0.0208	0.0200	104	50-120	11	30
Endrin	0.0177	0.0200	88	0.0191	0.0200	96	50-120	8	30
Methoxychlor	0.0177	0.0200	89	0.0217	0.0200	109	50-120	20	30
Oxychlordane	0.0190	0.0200	95	0.0232	0.0200	116	50-120	20	30
alpha-Chlordane	0.0179	0.0200	89	0.0211	0.0200	105	50-120	16	30
gamma-Chlordane	0.0182	0.0200	91	0.0212	0.0200	106	50-120	15	30
cis-Nonachlor	0.0182	0.0200	91	0.0229	0.0200	114	50-120	23	30
trans-Nonachlor	0.0172	0.0200	86	0.0209	0.0200	104	50-120	19	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Analytical Report

Work Order: RTE0668

Project Description

BASF Waste Characterization

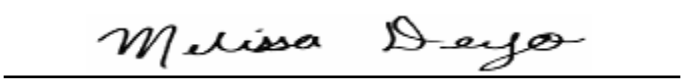
For:

Frank Zeske

AECOM - Latham, NY

40 British American Blvd

Latham, NY 12110



Melissa Deyo For Paul Morrow

Project Manager

melissa.deyo@testamericainc.com

Wednesday, May 19, 2010

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

TestAmerica Buffalo
Current Certifications

As of 04/16/2010

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
North Dakota	CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania*	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington*	NELAP CWA,RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA,RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

For batch 10E0854, the Lab Control Sample did not have spike added during extraction The Sample Matrix Spike and Spike Duplicate for this batch, did however have compliant spike recoveries.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
B1	Analyte was detected in the associated method / calibration blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
D02	Dilution required due to sample matrix effects
D03	Dilution required due to excessive foaming
D07	Dilution required due to the nature of the TCLP matrix
D08	Dilution required due to high concentration of target analyte(s)
HFT	The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M4	The sample required a dilution due to matrix interference. Because of this dilution, the matrix spike concentrations in the sample were reduced to a level where the recovery calculation does not provide useful information. See Blank Spike (LCS).
N1	See case narrative.
QSU	Sulfur (EPA 3660) clean-up performed on extract.
Z3	The sample required a dilution, the surrogate spike concentration in the sample are reduced to a level where the recovery calculation does not provide useful information.
Z5	Due to sample matrix effects, the surrogate recovery was outside acceptance limits. Secondary surrogate recovery was within the acceptance limits.
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE0668-01 (S1 - Solid)						**Sampled: 05/11/10 14:00**		**Recvd: 05/12/10 09:00**		
TCLP Volatile Organic Compounds by EPA Method 1311/8260B										
1,1-Dichloroethene	ND	D08	10	2.9	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
1,2-Dichloroethane	**9.6**	D08,J	10	2.1	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
2-Butanone (MEK)	ND	D08	50	13	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Benzene	**19**	D08	10	4.1	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Carbon Tetrachloride	ND	D08	10	2.7	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Chloroform	ND	D08	10	3.4	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Tetrachloroethene	ND	D08	10	3.6	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Trichloroethene	ND	D08	10	4.6	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Vinyl chloride	ND	D08	10	9.0	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
1,2-Dichloroethane-d4	*106 %*	*D08*	*Surr Limits: (66-137%)*				*05/14/10 20:57*	*LH*	*10E1040*	*8260B TCLP*
4-Bromofluorobenzene	*87 %*	*D08*	*Surr Limits: (73-120%)*				*05/14/10 20:57*	*LH*	*10E1040*	*8260B TCLP*
Toluene-d8	*95 %*	*D08*	*Surr Limits: (71-126%)*				*05/14/10 20:57*	*LH*	*10E1040*	*8260B TCLP*
TCLP Semivolatile Compounds by EPA Method 1311/8270C										
1,4-Dichlorobenzene	**530**		40	1.8	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
2,4,5-Trichlorophenol	ND		20	1.9	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
2,4,6-Trichlorophenol	ND		20	2.4	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
2,4-Dinitrotoluene	ND		20	1.8	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
2-Methylphenol	ND		20	1.6	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
3 & 4 Methylphenol	**18**	J	40	1.4	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Hexachlorobenzene	ND		20	2.0	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Hexachlorobutadiene	ND		20	2.7	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Hexachloroethane	ND		20	2.4	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Nitrobenzene	**13**	J	20	1.2	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Pentachlorophenol	ND		40	8.8	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Pyridine	**1.6**	J	100	1.6	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
2,4,6-Tribromophenol	*109 %*		*Surr Limits: (52-132%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
2-Fluorobiphenyl	*77 %*		*Surr Limits: (48-120%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
2-Fluorophenol	*41 %*		*Surr Limits: (20-120%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
Nitrobenzene-d5	*71 %*		*Surr Limits: (46-120%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
Phenol-d5	*33 %*		*Surr Limits: (16-120%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
p-Terphenyl-d14	*69 %*		*Surr Limits: (24-136%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	2700	520	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1221	ND	QSU	2700	520	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1232	ND	QSU	2700	520	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1242	**8400**	QSU	2700	580	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1248	ND	QSU	2700	520	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1254	ND	QSU	2700	560	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1260	ND	QSU	2700	1200	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1262	ND	QSU	2700	560	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1268	ND	QSU	2700	560	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Decachlorobiphenyl	*	*QSU,Z3*	*Surr Limits: (34-148%)*				*05/14/10 17:46*	*JxM*	*10E0904*	*8082*
Tetrachloro-m-xylene	*	*QSU,Z3*	*Surr Limits: (35-134%)*				*05/14/10 17:46*	*JxM*	*10E0904*	*8082*
TCLP Pesticides by EPA Method 1311/8081A										
Chlordane	ND	D08, QSU	40	2.3	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
Endrin	ND	D08, QSU	4.0	1.1	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
gamma-BHC (Lindane)	ND	D08, QSU	4.0	0.48	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

Analytical Report

Sample ID: RTE0668-01 (S1 - Solid) - cont. **Sampled: 05/11/10 14:00** **Recvd: 05/12/10 09:00**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
TCLP Pesticides by EPA Method 1311/8081A - cont.										
Heptachlor	**13**	D08, QSU	4.0	0.68	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
Heptachlor epoxide	**21**	D08, QSU	4.0	0.42	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
Methoxychlor	ND	D08, QSU	4.0	1.1	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
Toxaphene	ND	D08, QSU	40	9.6	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
Decachlorobiphenyl	*	*D08, QSU,Z3*	*Surr Limits: (15-139%)*				*05/14/10 17:07*	*LMW*	*10E1033*	*8081 TCLP*
Tetrachloro-m-xylene	*	*D08, QSU,Z3*	*Surr Limits: (30-139%)*				*05/14/10 17:07*	*LMW*	*10E1033*	*8081 TCLP*
TCLP Metals										
Arsenic	**0.0172**		0.0100	0.0056	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Barium	**0.849**	B, B1	0.0020	0.0003	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Cadmium	**0.0147**		0.0010	0.0003	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Chromium	**0.0209**		0.0040	0.0009	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Lead	**0.0678**		0.0050	0.0030	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Silver	ND		0.0030	0.0012	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Mercury	**0.0002**		0.0002	0.0001	mg/L	1.00	05/13/10 16:38	MXM	10E0984	7470A TCLP
General Chemistry Parameters										
Percent Solids	**71**		0.010	NR	%	1.00	05/13/10 13:44	JRR	10E0960	Dry Weight
pH	**8.35**		NA	0.00	SU	1.00	05/13/10 14:30	RMB	10E1025	9045
HCN Released From Waste	ND		10.0	0.0030	mg/kg	1.00	05/15/10 10:01	RJP	10E1202	Section 7.3
Flashpoint	**>176**		50.0	50.0	°F	1.00	05/14/10 13:47	JLN	10E1130	1010
H2S Released From Waste	**80.2**		10.0	0.6	mg/kg	1.00	05/14/10 09:30	RJP	10E1119	Section 7.3

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Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE0668-01RE1 (S1 - Solid)						**Sampled: 05/11/10 14:00**		**Recvd: 05/12/10 09:00**		
TCLP Volatile Organic Compounds by EPA Method 1311/8260B										
Chlorobenzene	**3200**	D08	50	38	ug/L	50.0	05/15/10 00:37	LH	10E1040	8260B TCLP
1,2-Dichloroethane-d4	*103 %*	*D08*	*Surr Limits: (66-137%)*				*05/15/10 00:37*	*LH*	*10E1040*	*8260B TCLP*
4-Bromofluorobenzene	*88 %*	*D08*	*Surr Limits: (73-120%)*				*05/15/10 00:37*	*LH*	*10E1040*	*8260B TCLP*
Toluene-d8	*98 %*	*D08*	*Surr Limits: (71-126%)*				*05/15/10 00:37*	*LH*	*10E1040*	*8260B TCLP*
TCLP Herbicides by EPA Method 1311/8151A										
2,4-D [2C]	ND		2.0	1.6	ug/L	1.00	05/18/10 12:08	MAN	10E1201	8151A TCLP
Silvex (2,4,5-TP) [2C]	ND		2.0	1.4	ug/L	1.00	05/18/10 12:08	MAN	10E1201	8151A TCLP
2,4-Dichlorophenylacetic acid [2C]	*20 %*		*Surr Limits: (19-128%)*				*05/18/10 12:08*	*MAN*	*10E1201*	*8151A TCLP*

ANALYTICAL REPORT

Lab Number:	L0910959
Client:	ENSR 2 Technology Park Drive Westford, MA 01886
ATTN:	Lori Herberich
Project Name:	BASF
Project Number:	111799
Report Date:	08/14/09

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0910959-01	COMPOSITE 1	RENSSELAER, NY	08/07/09 00:00
L0910959-02	COMPOSITE 2	RENSSELAER, NY	08/07/09 00:00
L0910959-03	COMPOSITE 3	RENSSELAER, NY	08/07/09 00:00

Project Name:	BASF	**Lab Number:**	L0910959
Project Number:	111799	**Report Date:**	08/14/09

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

PCB Aroclor

Sample Receipt

A sample identified as "3-8" was listed on the Chain of Custody, but not received. This was verified by the client.

The laboratory homogenized each of the jars received. An equal weight from each jar was utilized to make the three composite samples as follows:

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

Case Narrative (continued)

Composite 1 is a composite of sample IDs 1-1 through 1-10.

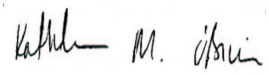
Composite 2 is a composite of sample IDs 2-1 through 2-10.

Composite 3 is a composite of sample IDs 3-1 through 3-7, 3-9 and 3-10.

L0910959-01 through L0910959-03 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

A copy of the Quantitation Report and the Chromatograph for each sample is provided at the end of this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Title: Technical Director/Representative Date: 08/14/09

ORGANICS

PCBS

Project Name: BASF **Lab Number:** L0910959

Project Number: 111799 **Report Date:** 08/14/09

SAMPLE RESULTS

Lab ID:	L0910959-01	Date Collected:	08/07/09 00:00
Client ID:	COMPOSITE 1	Date Received:	08/08/09
Sample Location:	RENSSELAER, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3570
Analytical Method:	1,8082	Extraction Date:	08/11/09 10:36
Analytical Date:	08/13/09 18:14	Cleanup Method1:	3665A
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/kg	539	10
Aroclor 1221	ND		ug/kg	539	10
Aroclor 1232	ND		ug/kg	539	10
Aroclor 1248	ND		ug/kg	539	10
Aroclor 1254	ND		ug/kg	539	10
Aroclor 1260	ND		ug/kg	539	10
Aroclor 1262	ND		ug/kg	539	10
Aroclor 1268	ND		ug/kg	539	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	68		30-150
Decachlorobiphenyl	98		30-150
Tetrachloro-meta-Xylene	105		30-150
Decachlorobiphenyl	91		30-150

Project Name: BASF
Project Number: 111799
Lab Number: L0910959
Report Date: 08/14/09

SAMPLE RESULTS

Lab ID:	L0910959-01	Date Collected:	08/07/09 00:00
Client ID:	COMPOSITE 1	Date Received:	08/08/09
Sample Location:	RENSSELAER, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3570
Analytical Method:	1,8082	Extraction Date:	08/11/09 10:36
Analytical Date:	08/13/09 18:14	Cleanup Method1:	3665A
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1242	23000		ug/kg	539	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	68		30-150
Decachlorobiphenyl	98		30-150
Tetrachloro-meta-Xylene	105		30-150
Decachlorobiphenyl	91		30-150

Project Name: BASF **Lab Number:** L0910959

Project Number: 111799 **Report Date:** 08/14/09

SAMPLE RESULTS

Lab ID:	L0910959-02	Date Collected:	08/07/09 00:00
Client ID:	COMPOSITE 2	Date Received:	08/08/09
Sample Location:	RENSSELAER, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3570
Analytical Method:	1,8082	Extraction Date:	08/11/09 10:36
Analytical Date:	08/13/09 18:45	Cleanup Method1:	3665A
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/kg	567	10
Aroclor 1221	ND		ug/kg	567	10
Aroclor 1232	ND		ug/kg	567	10
Aroclor 1248	ND		ug/kg	567	10
Aroclor 1254	ND		ug/kg	567	10
Aroclor 1260	ND		ug/kg	567	10
Aroclor 1262	ND		ug/kg	567	10
Aroclor 1268	ND		ug/kg	567	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	55		30-150
Decachlorobiphenyl	95		30-150
Tetrachloro-meta-Xylene	55		30-150
Decachlorobiphenyl	95		30-150

Project Name: BASF
Project Number: 111799
Lab Number: L0910959
Report Date: 08/14/09

SAMPLE RESULTS

Lab ID:	L0910959-02	Date Collected:	08/07/09 00:00
Client ID:	COMPOSITE 2	Date Received:	08/08/09
Sample Location:	RENSSELAER, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3570
Analytical Method:	1,8082	Extraction Date:	08/11/09 10:36
Analytical Date:	08/13/09 18:45	Cleanup Method1:	3665A
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1242	12000		ug/kg	567	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	55		30-150
Decachlorobiphenyl	95		30-150
Tetrachloro-meta-Xylene	55		30-150
Decachlorobiphenyl	95		30-150

Project Name: BASF
Project Number: 111799
Lab Number: L0910959
Report Date: 08/14/09

SAMPLE RESULTS

Lab ID:	L0910959-03	Date Collected:	08/07/09 00:00
Client ID:	COMPOSITE 3	Date Received:	08/08/09
Sample Location:	RENSSELAER, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3570
Analytical Method:	1,8082	Extraction Date:	08/11/09 10:36
Analytical Date:	08/13/09 19:16	Cleanup Method1:	3665A
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/kg	656	10
Aroclor 1221	ND		ug/kg	656	10
Aroclor 1232	ND		ug/kg	656	10
Aroclor 1248	ND		ug/kg	656	10
Aroclor 1254	ND		ug/kg	656	10
Aroclor 1260	ND		ug/kg	656	10
Aroclor 1262	ND		ug/kg	656	10
Aroclor 1268	ND		ug/kg	656	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	52		30-150
Decachlorobiphenyl	98		30-150
Tetrachloro-meta-Xylene	62		30-150
Decachlorobiphenyl	95		30-150

Project Name: BASF
Project Number: 111799
Lab Number: L0910959
Report Date: 08/14/09

SAMPLE RESULTS

Lab ID:	L0910959-03	Date Collected:	08/07/09 00:00
Client ID:	COMPOSITE 3	Date Received:	08/08/09
Sample Location:	RENSSELAER, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3570
Analytical Method:	1,8082	Extraction Date:	08/11/09 10:36
Analytical Date:	08/13/09 19:16	Cleanup Method1:	3665A
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1242	22800		ug/kg	656	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	52		30-150
Decachlorobiphenyl	98		30-150
Tetrachloro-meta-Xylene	62		30-150
Decachlorobiphenyl	95		30-150

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/13/09 10:32
Analyst: JR

Extraction Method: EPA 3570
Extraction Date: 08/11/09 10:36
Cleanup Method1: 3665A
Cleanup Date1:

Parameter	Result	Qualifier	Units	RDL
Polychlorinated Biphenyls by GC - Mansfield Lab for sample(s): 01-03 Batch: WG374840-1				
Aroclor 1016	ND		ug/kg	40.0
Aroclor 1221	ND		ug/kg	40.0
Aroclor 1232	ND		ug/kg	40.0
Aroclor 1242	ND		ug/kg	40.0
Aroclor 1248	ND		ug/kg	40.0
Aroclor 1254	ND		ug/kg	40.0
Aroclor 1260	ND		ug/kg	40.0
Aroclor 1262	ND		ug/kg	40.0
Aroclor 1268	ND		ug/kg	40.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	62		30-150
Decachlorobiphenyl	75		30-150
Tetrachloro-meta-Xylene	63		30-150
Decachlorobiphenyl	74		30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Polychlorinated Biphenyls by GC - Mansfield Lab Associated sample(s): 01-03 Batch: WG374840-2 WG374840-3					
Aroclor 1016	82	89	40-140	8	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	64		70		30-150
Decachlorobiphenyl	83		83		30-150
Tetrachloro-meta-Xylene	64		70		30-150
Decachlorobiphenyl	82		81		30-150

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Polychlorinated Biphenyls by GC - Mansfield Lab Associated sample(s): 01-03 Batch: WG374840-2 WG374840-3					
Aroclor 1260	88	92	40-140	4	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	64		70		30-150
Decachlorobiphenyl	83		83		30-150
Tetrachloro-meta-Xylene	64		70		30-150
Decachlorobiphenyl	82		81		30-150

INORGANICS
&
MISCELLANEOUS

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

SAMPLE RESULTS

Lab ID: L0910959-01
Client ID: COMPOSITE 1
Sample Location: RENSSELAER, NY
Matrix: Soil

Date Collected: 08/07/09 00:00
Date Received: 08/08/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total	66.5		%	0.100	1	-	08/11/09 09:00	30,2540G	KB

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

SAMPLE RESULTS

Lab ID: L0910959-02
Client ID: COMPOSITE 2
Sample Location: RENSSELAER, NY
Matrix: Soil

Date Collected: 08/07/09 00:00
Date Received: 08/08/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total	66.9		%	0.100	1	-	08/11/09 09:00	30,2540G	KB

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

SAMPLE RESULTS

Lab ID: L0910959-03
Client ID: COMPOSITE 3
Sample Location: RENSSELAER, NY
Matrix: Soil

Date Collected: 08/07/09 00:00
Date Received: 08/08/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total	58.0		%	0.100	1	-	08/11/09 09:00	30,2540G	KB

Lab Duplicate Analysis
Batch Quality Control

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG374807-2 QC Sample: L0910959-01 Client ID: COMPOSITE 1					
Solids, Total	66.5	66.1	%	1	20

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0910959-01A	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01B	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01C	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01D	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01E	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01F	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01G	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01H	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01I	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01J	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01K	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-PCB-8082(14),A2-TS(7)
L0910959-02A	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02B	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02C	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02D	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02E	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02F	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02G	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02H	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02I	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02J	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02K	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-PCB-8082(14),A2-TS(7)
L0910959-03A	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-03B	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-03C	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-03D	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-03E	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-03F	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-03G	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-03H	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)

*Hold days indicated by values in parentheses

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0910959-03I	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-03J	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-PCB-8082(14),A2-TS(7)

Container Comments

L0910959-01K	CREATED FROM L0910959-01A TO L0910959-01J	8/11/09
L0910959-02K	CREATED FROM L0910959-02A TO L0910959-02J	8/11/09
L0910959-03J	CREATED FROM L0910959-03A TO L0910959-03I	8/11/09

*Hold days indicated by values in parentheses

Project Name:	BASF	**Lab Number:**	L0910959
Project Number:	111799	**Report Date:**	08/14/09

GLOSSARY

Acronyms

EPA	· Environmental Protection Agency.
LCS	· Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	· Laboratory Control Sample Duplicate: Refer to LCS.
MS	· Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	· Matrix Spike Sample Duplicate: Refer to MS.
NA	· Not Applicable.
NC	· Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND	· Not detected at the reported detection limit for the sample.
NI	· Not Ignitable.
RDL	· Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	· Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

*****	- The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
N	- The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Project Name:	BASF	**Lab Number:**	L0910959
Project Number:	111799	**Report Date:**	08/14/09

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised June 17, 2009 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH3-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. ***NELAP Accredited.***

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7471. Organic Parameters: EPA 8015, 8270.)

U.S. Army Corps of Engineers

08140914:30

CHAIN OF CUSTODY

PAGE_____ OF_____

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L0910959

Client Information

Client: AECOM
Address: 40 British American Blvd Latham NY 12110
Phone: 518 951 2200
Fax: 518 951 2300
Email: frank.zeske@aecom.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: BASF
Project Location: Rensselaer NY
Project #: 111799
Project Manager: Frank Zeske
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☒ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 111799

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: PCB Aroclors

SAMPLE HANDLING
Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	TOTAL # BOTTLES
L0910959-1	1-1	8/7/09	1026	So.1	TRB		X
	1-2		1030		TRB		X
	1-3		1035		TRB		X
	1-4		1040		TRB		X
	1-5		1042		TRB		X
	1-6		1045		TRB		X
	1-7		1050		TRB		X
	1-8		1055		TRB		X
	1-9		1100		TRB		X
	1-10		1105		TRB		X

Container Type	
Preservative	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Tyler Brown/AECOM	8/7/09 1830	Eileen Sullivan	8/8/09 11:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

See other Chain

CHAIN OF CUSTODY

PAGE _____ OF _____

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L0910959

Client Information

Client:

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: BASF

Project Location: Lancaster, NY

Project #: 111797

Project Manager: Frank Zeske

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☒ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #: 111797

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: PCB-Aroclors

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCB-Aroclors	Sample Specific Comments	TOTAL # BOTTLES
L0910959-2	2-1	8/7/09	1110	Soil	TRB	X		
	2-2		1115			X		
	2-3		1117			X		
	2-4		1120			X		
	2-5		1125			X		
	2-6		1127			X		
	2-7		1130			X		
	2-8		1131			X		
	2-9		1133			X		
	2-10		1135			X		

Container Type														
Preservative														

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	8/7/09 1530	Eileen Sullivan	8/8/09 11:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

08140914:30

08140914:30

See Other Chain

CHAIN OF CUSTODY

PAGE ____ OF ____

ALPHA ANALYTICAL

WESTBORO, MA — TEL: 508-898-9220 — FAX: 508-898-9193
MANSFIELD, MA — TEL: 508-822-9300 — FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L0910959

Client Information

Client:
Address:
Phone:
Fax:
Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: BASF
Project Location: Rensselaer, NY
Project #: 11179T
Project Manager: Frank Zeske
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (*only confirmed if pre-approved!*)

Date Due: **Time:**

Report Information - Data Deliverables

☒ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #: 11799

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: PCB Aroclor	Sample Specific Comments	TOTAL # BOTTLES
L0910959-3	3-1	8/7/09	1320	Soil	TRB	X		
	3-2	↓	1322	↓	↓	X		
	3-3	↓	1325	↓	↓	X		
	3-4	↓	1325	↓	↓	X		
	3-5	↓	1330	↓	↓	X		
	3-6	↓	1332	↓	↓	X		
	3-7	↓	1340	↓	↓	X		
	3-8	↓	1342	↓	↓	X		
	3-9	↓	1345	↓	↓	X		
	3-10	↓	1350	↓	↓	X		

Container Type
Preservative

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/7/09 1830	[signature]	8/8/09 11:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

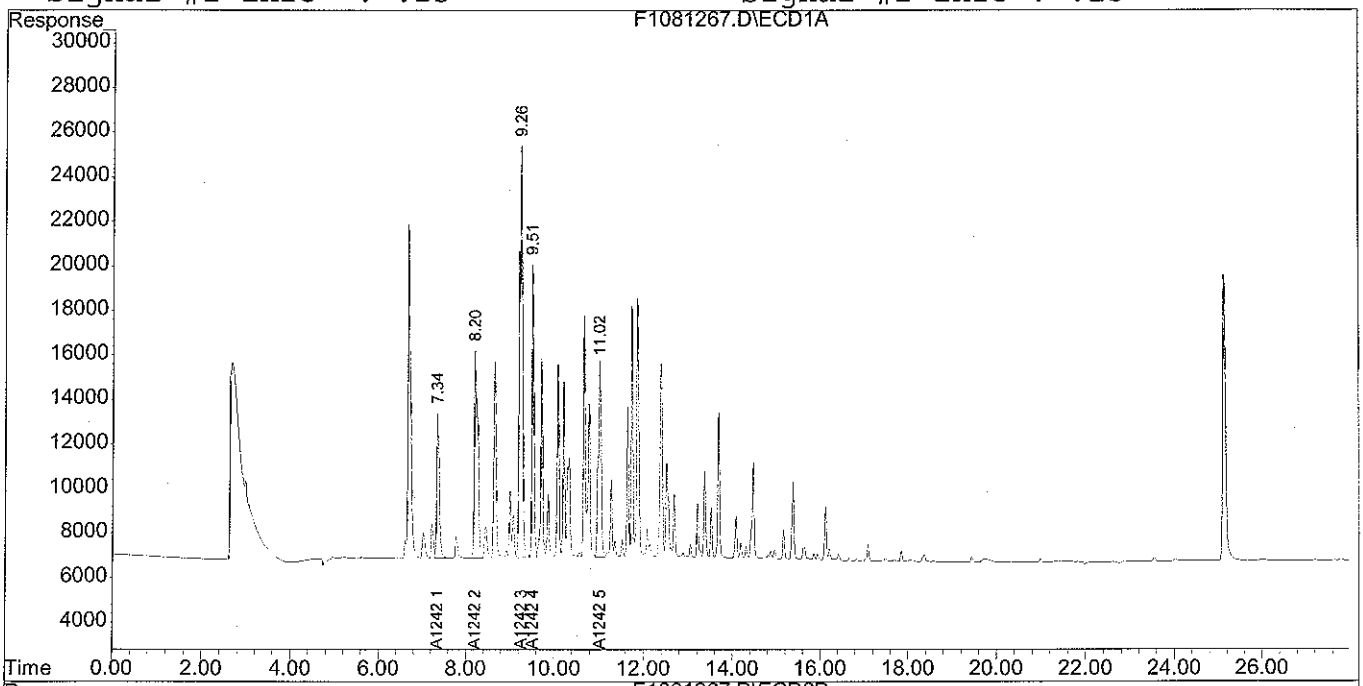
FORM NO: 01-01 (rev. 30-JUL-07)

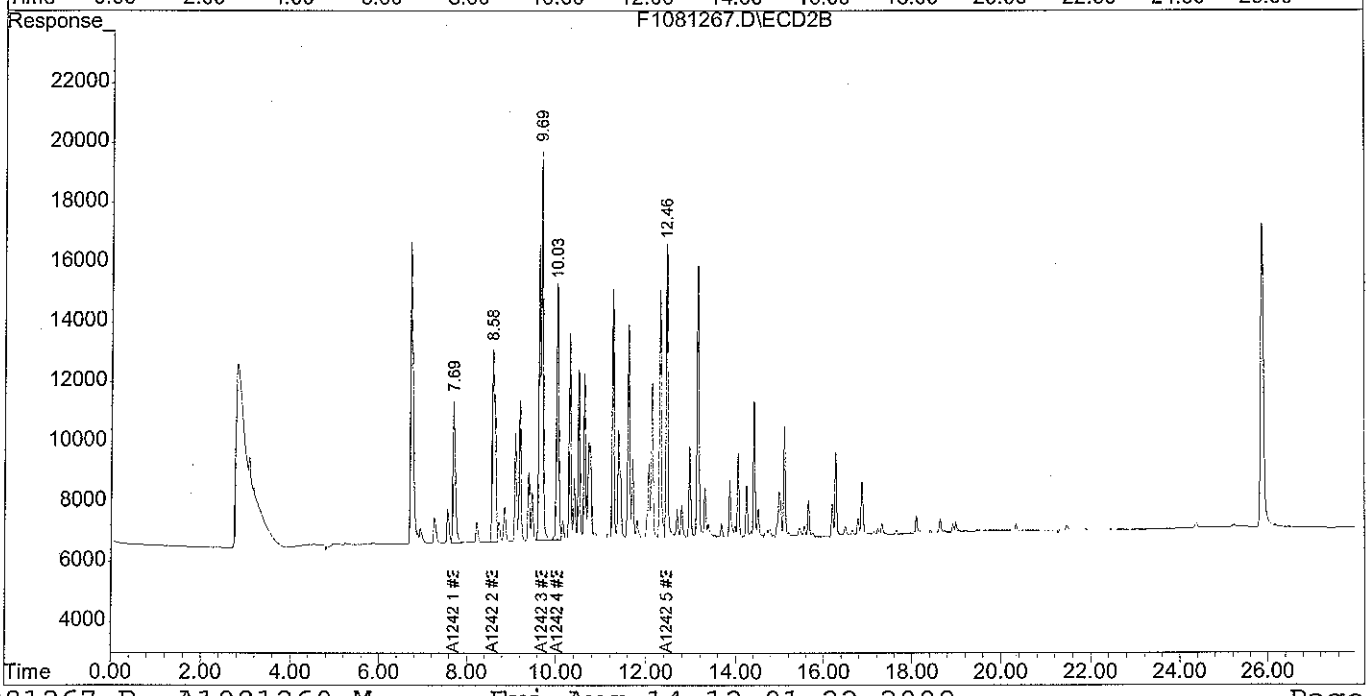
Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081267.D\ECD1A.CH Vial: 60
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081267.D\ECD2B.CH
Acq On : 14 Aug 2009 12:29 am Operator: ECD1:JR
Sample : C1081210STD1242 Inst : ECD1-5890
Misc : PW061009C Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 9:40 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Multiple Level Calibration
DataAcq Meth : A1080760.M

1242

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25





Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D\ECD1A.CH Vial: 48
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D\ECD2B.CH
Acq On : 13 Aug 2009 6:14 pm Operator: ECD1:JR
Sample : L0910959-01,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 9:55 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

8/14/09

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) s TMX - Surrogate	6.66	6.74	83477	93778	6.816M4	10.521M4#
Spiked Amount 100.000	Range 30 - 150		Recovery =		6.82%#	10.52%#
12) s DCB - Surrogate	25.13	25.86	138164	109405	9.792	9.091M4
Spiked Amount 100.000	Range 30 - 150		Recovery =		9.79%#	9.09%#
Target Compounds						
2) L1 A1016 1	0.00	0.00	0	0	N.D. d	N.D. d
3) L1 A1016 2	0.00	0.00	0	0	N.D. d	N.D. d
4) L1 A1016 3	0.00	0.00	0	0	N.D. d	N.D. d
5) L1 A1016 4	0.00	0.00	0	0	N.D. d	N.D. d
6) L1 A1016 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1016 1			0	0	N.D.	N.D.
Average A1016 1					0.000	0.000
7) L7 A1260 1	0.00	0.00	0	0	N.D. d	N.D. d
8) L7 A1260 2	0.00	0.00	0	0	N.D. d	N.D. d
9) L7 A1260 3	0.00	0.00	0	0	N.D. d	N.D. d
10) L7 A1260 4	0.00	0.00	0	0	N.D. d	N.D. d
11) L7 A1260 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1260 1			0	0	N.D.	N.D.
Average A1260 1					0.000	0.000
13) L2 A1221 1	0.00	0.00	0	0	N.D. d	N.D. d
14) L2 A1221 2	0.00	0.00	0	0	N.D. d	N.D. d
15) L2 A1221 3	0.00	0.00	0	0	N.D. d	N.D. d
16) L2 A1221 4	0.00	0.00	0	0	N.D. d	N.D. d
17) L2 A1221 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1221 1			0	0	N.D.	N.D.
Average A1221 1					0.000	0.000
18) L3 A1232 1	0.00	0.00	0	0	N.D. d	N.D. d
19) L3 A1232 2	0.00	0.00	0	0	N.D. d	N.D. d
20) L3 A1232 3	0.00	0.00	0	0	N.D. d	N.D. d
21) L3 A1232 4	0.00	0.00	0	0	N.D. d	N.D. d
22) L3 A1232 5	0.00	0.00	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D\ECD1A.CH Vial: 48
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D\ECD2B.CH
Acq On : 13 Aug 2009 6:14 pm Operator: ECD1:JR
Sample : L0910959-01,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 9:55 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Sum A1232 1			0	0	N.D.	N.D.
Average A1232 1					0.000	0.000
23) L4 A1242 1	7.33	0.00	179724	0	720.048M4	N.D. d#
24) L4 A1242 2	0.00	8.58	0	209361	N.D. d	721.370M4#
25) L4 A1242 3	9.25	9.68	709997	520134	876.061M4	896.590M4
26) L4 A1242 4	0.00	0.00	0	0	N.D. d	N.D. d
27) L4 A1242 5	11.02	12.45	336445	235875	893.649M4	941.420M4
Sum A1242 1			1226166	965371	2489.757	2559.379
Average A1242 1					829.919	853.126
28) L5 A1248 1	0.00	0.00	0	0	N.D. d	N.D. d
29) L5 A1248 2	0.00	0.00	0	0	N.D. d	N.D. d
30) L5 A1248 3	0.00	0.00	0	0	N.D. d	N.D. d
31) L5 A1248 4	0.00	0.00	0	0	N.D. d	N.D. d
32) L5 A1248 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1248 1			0	0	N.D.	N.D.
Average A1248 1					0.000	0.000
33) L6 A1254 1	0.00	0.00	0	0	N.D. d	N.D. d
34) L6 A1254 2	0.00	0.00	0	0	N.D. d	N.D. d
35) L6 A1254 3	0.00	0.00	0	0	N.D. d	N.D. d
36) L6 A1254 4	0.00	0.00	0	0	N.D. d	N.D. d
37) L6 A1254 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1254 1			0	0	N.D.	N.D.
Average A1254 1					0.000	0.000
38) L8 A1262 1	0.00	0.00	0	0	N.D. d	N.D. d
39) L8 A1262 2	0.00	0.00	0	0	N.D. d	N.D. d
40) L8 A1262 3	0.00	0.00	0	0	N.D. d	N.D. d
41) L8 A1262 4	0.00	0.00	0	0	N.D. d	N.D. d
42) L8 A1262 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1262 1			0	0	N.D.	N.D.
Average A1262 1					0.000	0.000
43) L9 A1268 1	0.00	0.00	0	0	N.D. d	N.D. d
44) L9 A1268 2	0.00	0.00	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D\ECD1A.CH Vial: 48
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D\ECD2B.CH
Acq On : 13 Aug 2009 6:14 pm Operator: ECD1:JR
Sample : L0910959-01,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 9:55 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

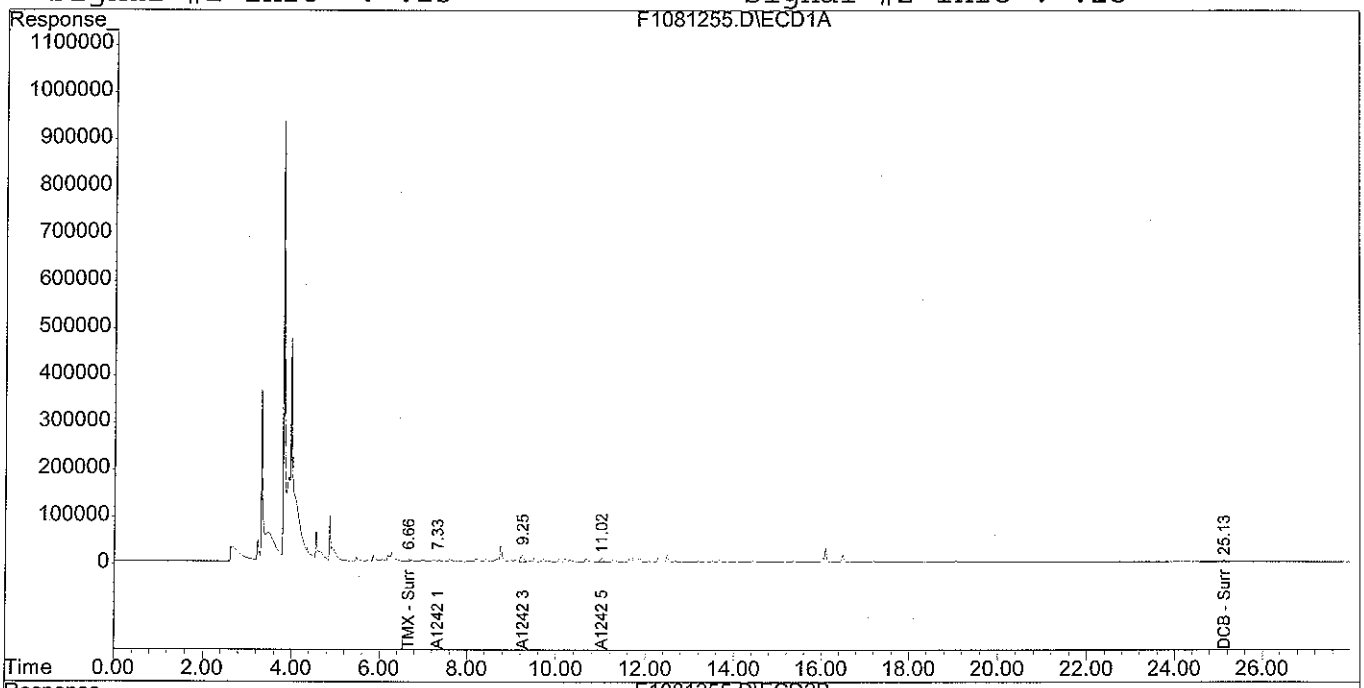
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
45)	L9 A1268 3	0.00	0.00	0	0	N.D. d	N.D. d
46)	L9 A1268 4	0.00	0.00	0	0	N.D. d	N.D. d
47)	L9 A1268 5	0.00	0.00	0	0	N.D. d	N.D. d
	Sum A1268 1			0	0	N.D.	N.D.
Average	A1268 1					0.000	0.000

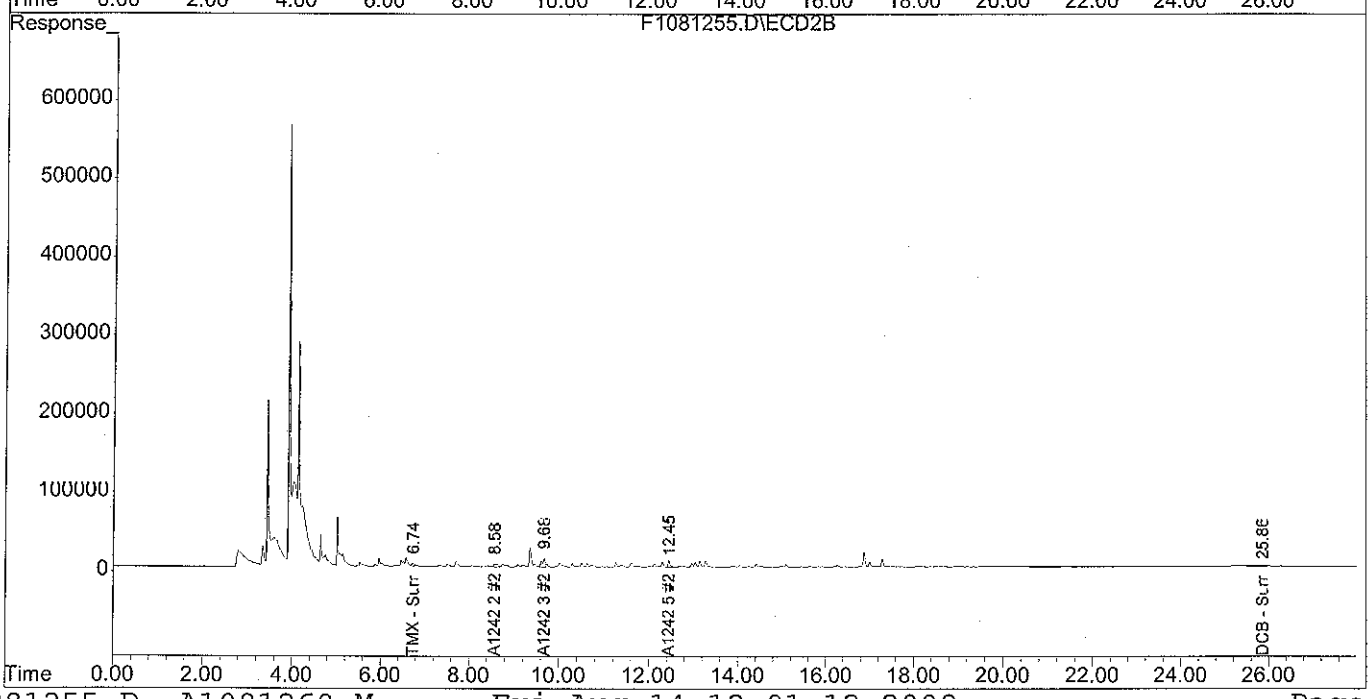
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D\ECD1A.CH Vial: 48
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D\ECD2B.CH
Acq On : 13 Aug 2009 6:14 pm Operator: ECD1:JR
Sample : L0910959-01,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 9:55 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Multiple Level Calibration
DataAcq Meth : A1080760.M

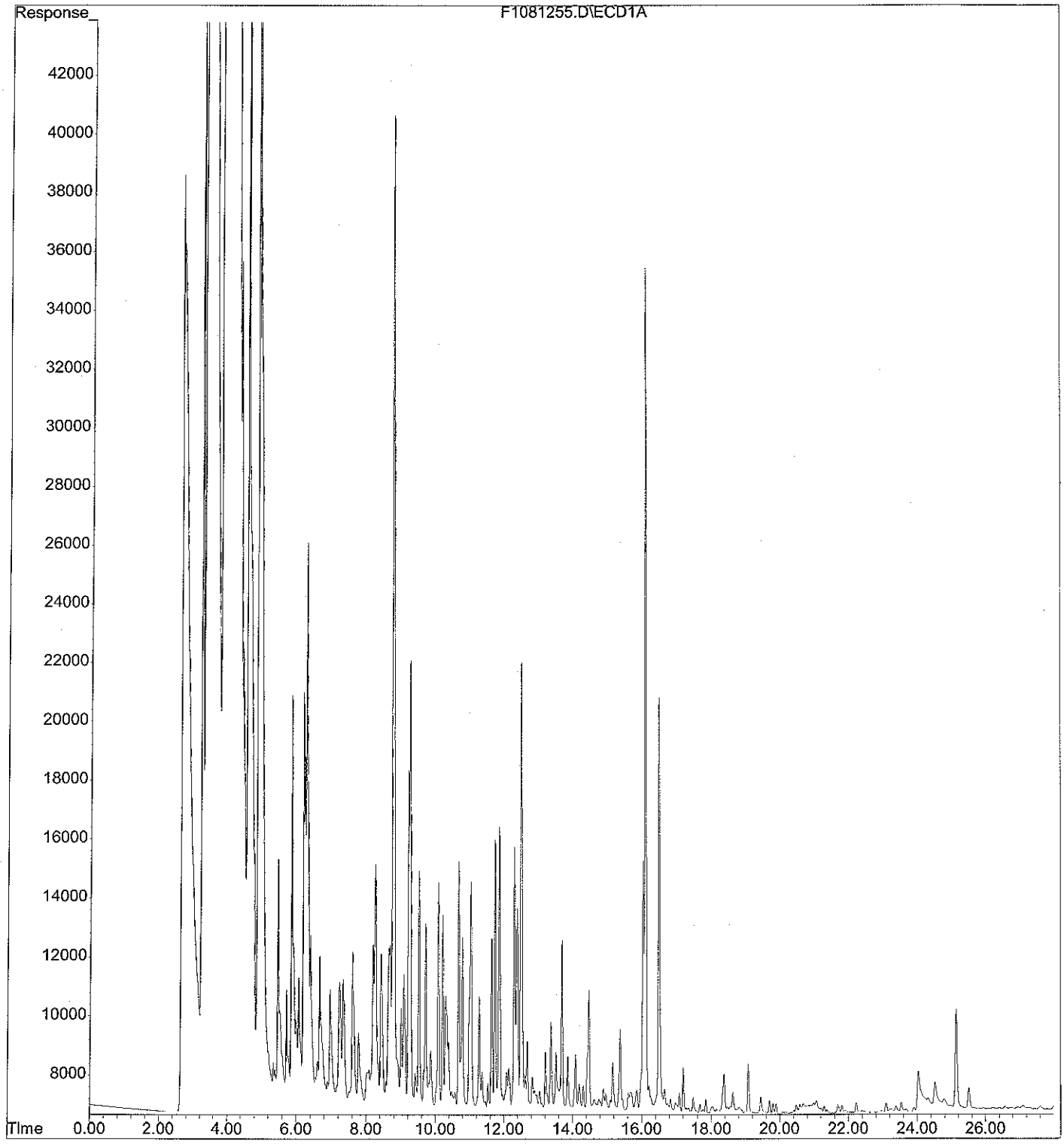
Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25





File : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D
Operator : ECD1:JR
Acquired : 13 Aug 2009 6:14 pm using AcqMethod A1080760.M
Instrument : ECD1-5890
Sample Name: L0910959-01,42,10
Misc Info : WG375455,WG374840
Vial Number: 48

Composite 1-1 thru 1-10



Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D\ECD1A.CH Vial: 49
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D\ECD2B.CH
Acq On : 13 Aug 2009 6:45 pm Operator: ECD1:JR
Sample : L0910959-02,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 10:02 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

8/14/09

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) s	TMX - Surrogate	6.66	6.71	64172	46233	5.502M4	5.544M4
	Spiked Amount 100.000	Range 30 - 150		Recovery =		5.50%#	5.54%#
12) s	DCB - Surrogate	25.14	25.86	134845	114388	9.546	9.519M4
	Spiked Amount 100.000	Range 30 - 150		Recovery =		9.55%#	9.52%#
	Target Compounds						
2) L1	A1016 1	0.00	0.00	0	0	N.D. d	N.D. d
3) L1	A1016 2	0.00	0.00	0	0	N.D. d	N.D. d
4) L1	A1016 3	0.00	0.00	0	0	N.D. d	N.D. d
5) L1	A1016 4	0.00	0.00	0	0	N.D. d	N.D. d
6) L1	A1016 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum	A1016 1			0	0	N.D.	N.D.
Average	A1016 1					0.000	0.000
7) L7	A1260 1	0.00	0.00	0	0	N.D. d	N.D. d
8) L7	A1260 2	0.00	0.00	0	0	N.D. d	N.D. d
9) L7	A1260 3	0.00	0.00	0	0	N.D. d	N.D. d
10) L7	A1260 4	0.00	0.00	0	0	N.D. d	N.D. d
11) L7	A1260 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum	A1260 1			0	0	N.D.	N.D.
Average	A1260 1					0.000	0.000
13) L2	A1221 1	0.00	0.00	0	0	N.D. d	N.D. d
14) L2	A1221 2	0.00	0.00	0	0	N.D. d	N.D. d
15) L2	A1221 3	0.00	0.00	0	0	N.D. d	N.D. d
16) L2	A1221 4	0.00	0.00	0	0	N.D. d	N.D. d
17) L2	A1221 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum	A1221 1			0	0	N.D.	N.D.
Average	A1221 1					0.000	0.000
18) L3	A1232 1	0.00	0.00	0	0	N.D. d	N.D. d
19) L3	A1232 2	0.00	0.00	0	0	N.D. d	N.D. d
20) L3	A1232 3	0.00	0.00	0	0	N.D. d	N.D. d
21) L3	A1232 4	0.00	0.00	0	0	N.D. d	N.D. d
22) L3	A1232 5	0.00	0.00	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D\ECD1A.CH Vial: 49
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D\ECD2B.CH
Acq On : 13 Aug 2009 6:45 pm Operator: ECD1:JR
Sample : L0910959-02,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 10:02 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Sum A1232 1			0	0	N.D.	N.D.
Average A1232 1					0.000	0.000
23) L4 A1242 1	7.33	0.00	103262	0	413.711M4	N.D. d#
24) L4 A1242 2	8.26	8.58	212295	110909	441.326M4	382.147M4
25) L4 A1242 3	9.26	9.68	334751	272123	413.047M4	469.076M4
26) L4 A1242 4	9.51	10.03	125732	107254	342.949M4	412.933M4
27) L4 A1242 5	11.02	0.00	161403	0	428.712M4	N.D. d#
Sum A1242 1			937443	490287	2039.744	1264.156
Average A1242 1					407.949	421.385
28) L5 A1248 1	0.00	0.00	0	0	N.D. d	N.D. d
29) L5 A1248 2	0.00	0.00	0	0	N.D. d	N.D. d
30) L5 A1248 3	0.00	0.00	0	0	N.D. d	N.D. d
31) L5 A1248 4	0.00	0.00	0	0	N.D. d	N.D. d
32) L5 A1248 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1248 1			0	0	N.D.	N.D.
Average A1248 1					0.000	0.000
33) L6 A1254 1	0.00	0.00	0	0	N.D. d	N.D. d
34) L6 A1254 2	0.00	0.00	0	0	N.D. d	N.D. d
35) L6 A1254 3	0.00	0.00	0	0	N.D. d	N.D. d
36) L6 A1254 4	0.00	0.00	0	0	N.D. d	N.D. d
37) L6 A1254 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1254 1			0	0	N.D.	N.D.
Average A1254 1					0.000	0.000
38) L8 A1262 1	0.00	0.00	0	0	N.D. d	N.D. d
39) L8 A1262 2	0.00	0.00	0	0	N.D. d	N.D. d
40) L8 A1262 3	0.00	0.00	0	0	N.D. d	N.D. d
41) L8 A1262 4	0.00	0.00	0	0	N.D. d	N.D. d
42) L8 A1262 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1262 1			0	0	N.D.	N.D.
Average A1262 1					0.000	0.000
43) L9 A1268 1	0.00	0.00	0	0	N.D. d	N.D. d
44) L9 A1268 2	0.00	0.00	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D\ECD1A.CH Vial: 49
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D\ECD2B.CH
Acq On : 13 Aug 2009 6:45 pm Operator: ECD1:JR
Sample : L0910959-02,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 10:02 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

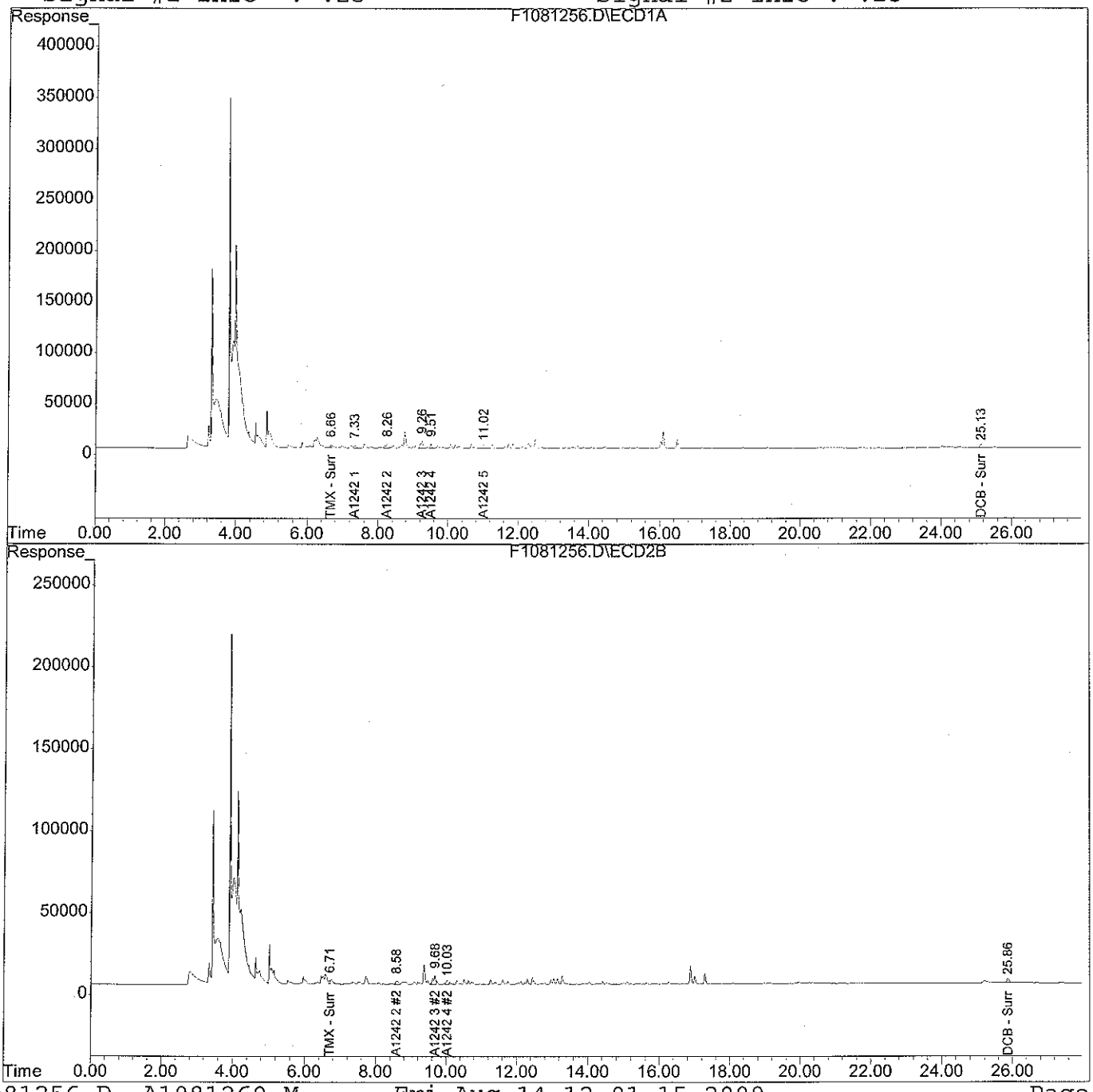
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
45)	L9 A1268 3	0.00	0.00	0	0	N.D. d	N.D. d
46)	L9 A1268 4	0.00	0.00	0	0	N.D. d	N.D. d
47)	L9 A1268 5	0.00	0.00	0	0	N.D. d	N.D. d
	Sum A1268 1			0	0	N.D.	N.D.
	Average A1268 1					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D\ECD1A.CH Vial: 49
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D\ECD2B.CH
Acq On : 13 Aug 2009 6:45 pm Operator: ECD1:JR
Sample : L0910959-02,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 10:02 2009 Quant Results File: A1081260.RES

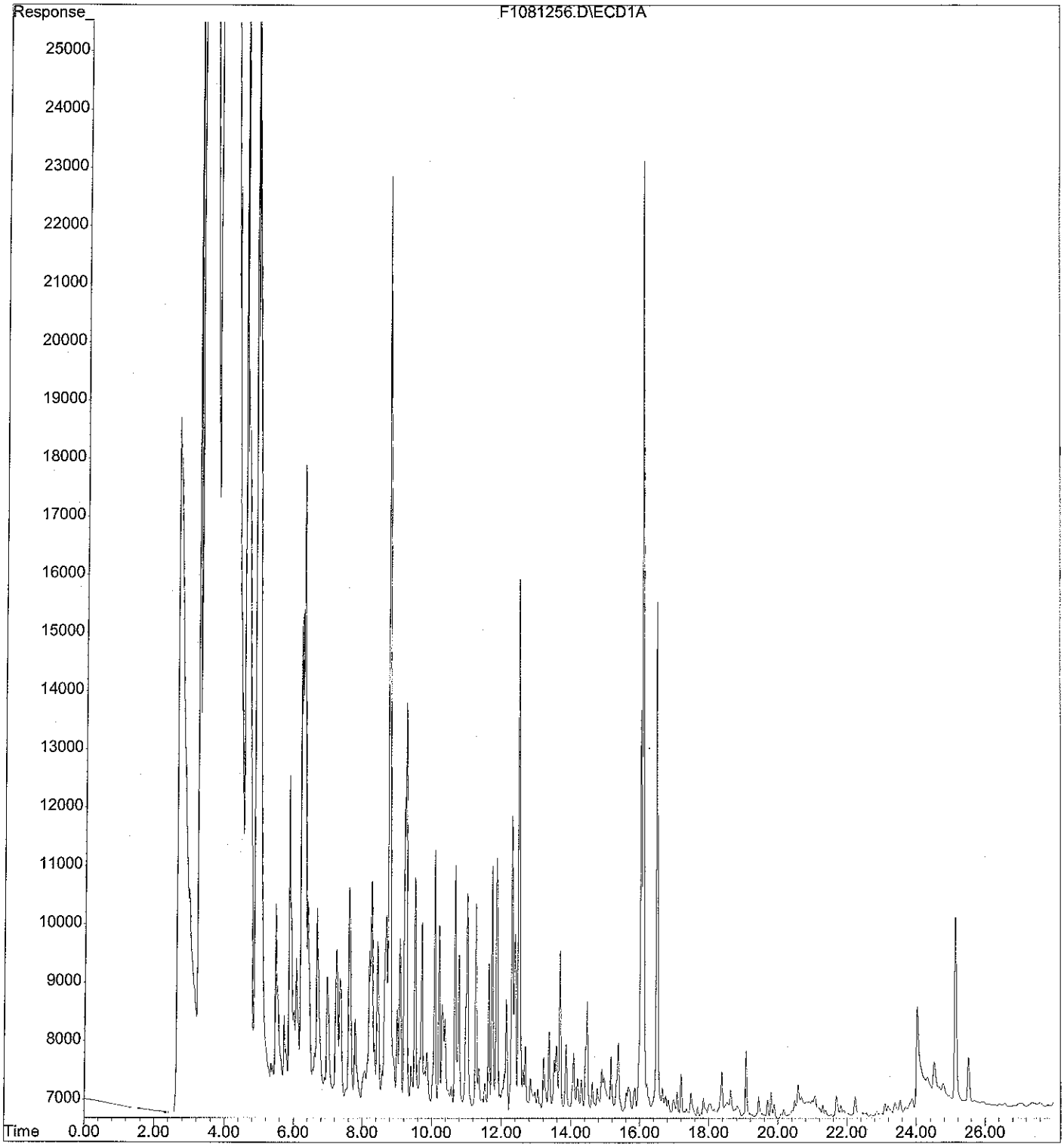
Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Multiple Level Calibration
DataAcq Meth : A1080760.M

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25



File : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D
Operator : ECD1:JR
Acquired : 13 Aug 2009 6:45 pm using AcqMethod A1080760.M
Instrument : ECD1-5890
Sample Name: L0910959-02,42,10
Misc Info : WG375455,WG374840
Vial Number: 49

Composite 2-1 thru 2-10



Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D\ECD1A.CH Vial: 50
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D\ECD2B.CH
Acq On : 13 Aug 2009 7:16 pm Operator: ECD1:JR
Sample : L0910959-03,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 10:07 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

8/14/09

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) s	TMX - Surrogate	6.66	6.71	59277	52682	5.169M4	6.217M4
	Spiked Amount 100.000	Range 30 - 150		Recovery =		5.17%#	6.22%#
12) s	DCB - Surrogate	25.14	25.87	137755	113879	9.762	9.475M4
	Spiked Amount 100.000	Range 30 - 150		Recovery =		9.76%#	9.47%#
	Target Compounds						
2) L1	A1016 1	0.00	0.00	0	0	N.D. d	N.D. d
3) L1	A1016 2	0.00	0.00	0	0	N.D. d	N.D. d
4) L1	A1016 3	0.00	0.00	0	0	N.D. d	N.D. d
5) L1	A1016 4	0.00	0.00	0	0	N.D. d	N.D. d
6) L1	A1016 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum	A1016 1			0	0	N.D.	N.D.
Average	A1016 1					0.000	0.000
7) L7	A1260 1	0.00	0.00	0	0	N.D. d	N.D. d
8) L7	A1260 2	0.00	0.00	0	0	N.D. d	N.D. d
9) L7	A1260 3	0.00	0.00	0	0	N.D. d	N.D. d
10) L7	A1260 4	0.00	0.00	0	0	N.D. d	N.D. d
11) L7	A1260 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum	A1260 1			0	0	N.D.	N.D.
Average	A1260 1					0.000	0.000
13) L2	A1221 1	0.00	0.00	0	0	N.D. d	N.D. d
14) L2	A1221 2	0.00	0.00	0	0	N.D. d	N.D. d
15) L2	A1221 3	0.00	0.00	0	0	N.D. d	N.D. d
16) L2	A1221 4	0.00	0.00	0	0	N.D. d	N.D. d
17) L2	A1221 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum	A1221 1			0	0	N.D.	N.D.
Average	A1221 1					0.000	0.000
18) L3	A1232 1	0.00	0.00	0	0	N.D. d	N.D. d
19) L3	A1232 2	0.00	0.00	0	0	N.D. d	N.D. d
20) L3	A1232 3	0.00	0.00	0	0	N.D. d	N.D. d
21) L3	A1232 4	0.00	0.00	0	0	N.D. d	N.D. d
22) L3	A1232 5	0.00	0.00	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D\ECD1A.CH Vial: 50
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D\ECD2B.CH
Acq On : 13 Aug 2009 7:16 pm Operator: ECD1:JR
Sample : L0910959-03,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 10:07 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Sum A1232 1			0	0	N.D.	N.D.
Average A1232 1					0.000	0.000
23) L4 A1242 1	7.36	0.00	144031	0	577.049M4	N.D. d#
24) L4 A1242 2	8.26	8.58	360930	167709	750.314M4	577.855M4
25) L4 A1242 3	9.26	9.68	569597	439368	702.822M4	757.368M4
26) L4 A1242 4	9.51	10.03	196922	169848	537.129M4	653.921M4
27) L4 A1242 5	11.02	12.45	263959	197943	701.116M4	790.026M4
Sum A1242 1			1535440	974869	3268.430	2779.170
Average A1242 1					653.686	694.792
28) L5 A1248 1	0.00	0.00	0	0	N.D. d	N.D. d
29) L5 A1248 2	0.00	0.00	0	0	N.D. d	N.D. d
30) L5 A1248 3	0.00	0.00	0	0	N.D. d	N.D. d
31) L5 A1248 4	0.00	0.00	0	0	N.D. d	N.D. d
32) L5 A1248 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1248 1			0	0	N.D.	N.D.
Average A1248 1					0.000	0.000
33) L6 A1254 1	0.00	0.00	0	0	N.D. d	N.D. d
34) L6 A1254 2	0.00	0.00	0	0	N.D. d	N.D. d
35) L6 A1254 3	0.00	0.00	0	0	N.D. d	N.D. d
36) L6 A1254 4	0.00	0.00	0	0	N.D. d	N.D. d
37) L6 A1254 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1254 1			0	0	N.D.	N.D.
Average A1254 1					0.000	0.000
38) L8 A1262 1	0.00	0.00	0	0	N.D. d	N.D. d
39) L8 A1262 2	0.00	0.00	0	0	N.D. d	N.D. d
40) L8 A1262 3	0.00	0.00	0	0	N.D. d	N.D. d
41) L8 A1262 4	0.00	0.00	0	0	N.D. d	N.D. d
42) L8 A1262 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1262 1			0	0	N.D.	N.D.
Average A1262 1					0.000	0.000
43) L9 A1268 1	0.00	0.00	0	0	N.D. d	N.D. d
44) L9 A1268 2	0.00	0.00	0	0	N.D. d	N.D. d

(t)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D\ECD1A.CH Vial: 50
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D\ECD2B.CH
Acq On : 13 Aug 2009 7:16 pm Operator: ECD1:JR
Sample : L0910959-03,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 10:07 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

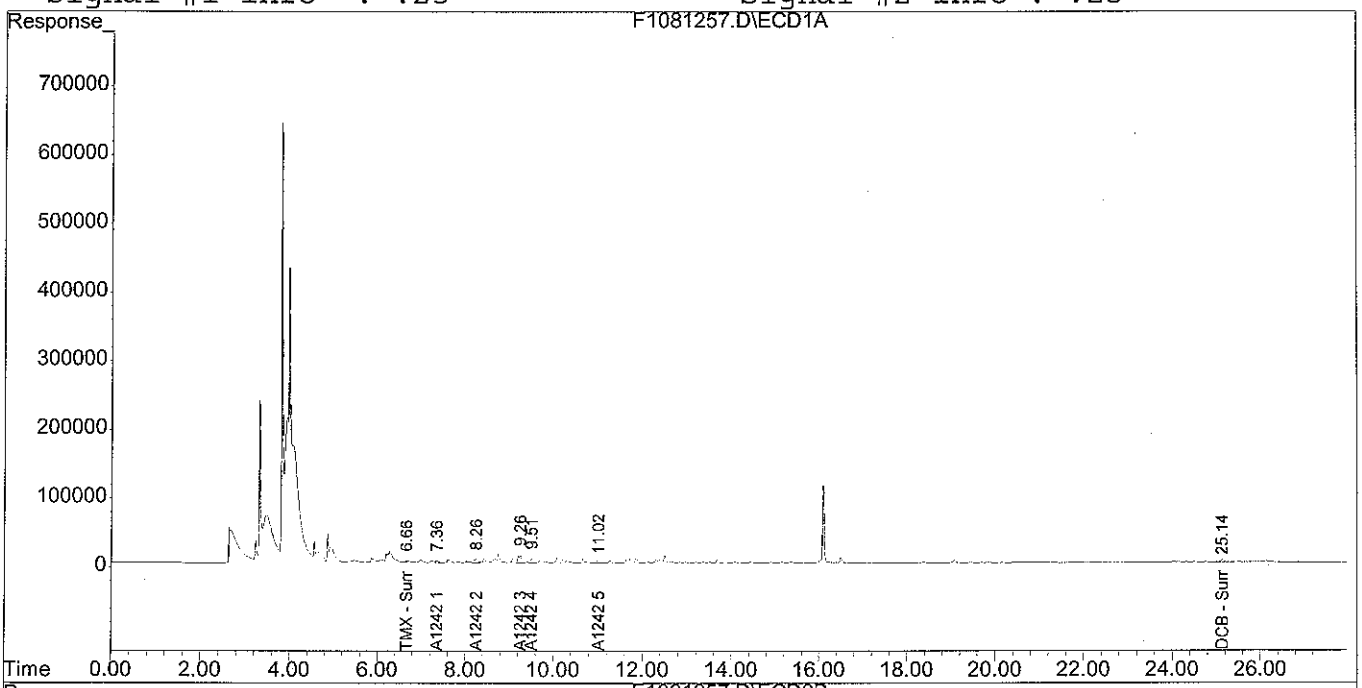
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
45)	L9 A1268 3	0.00	0.00	0	0	N.D. d	N.D. d
46)	L9 A1268 4	0.00	0.00	0	0	N.D. d	N.D. d
47)	L9 A1268 5	0.00	0.00	0	0	N.D. d	N.D. d
	Sum A1268 1			0	0	N.D.	N.D.
Average	A1268 1					0.000	0.000

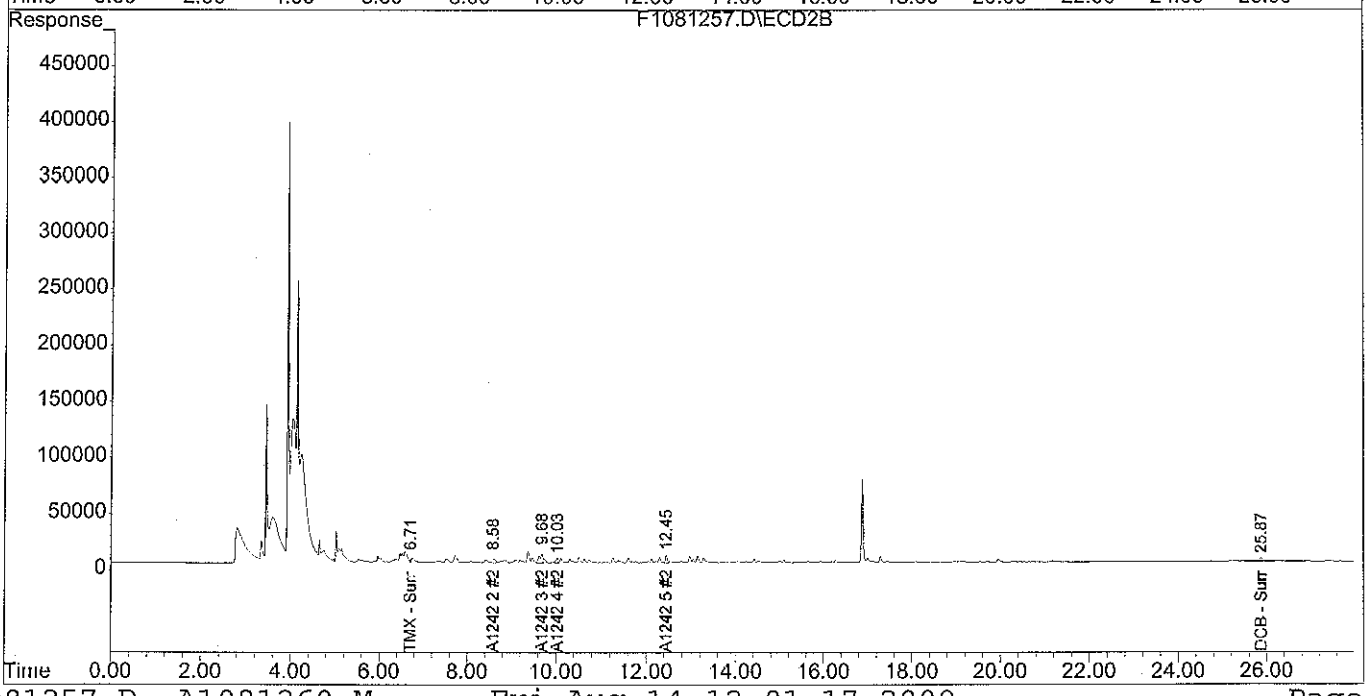
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D\ECD1A.CH Vial: 50
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D\ECD2B.CH
Acq On : 13 Aug 2009 7:16 pm Operator: ECD1:JR
Sample : L0910959-03,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 10:07 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Multiple Level Calibration
DataAcq Meth : A1080760.M

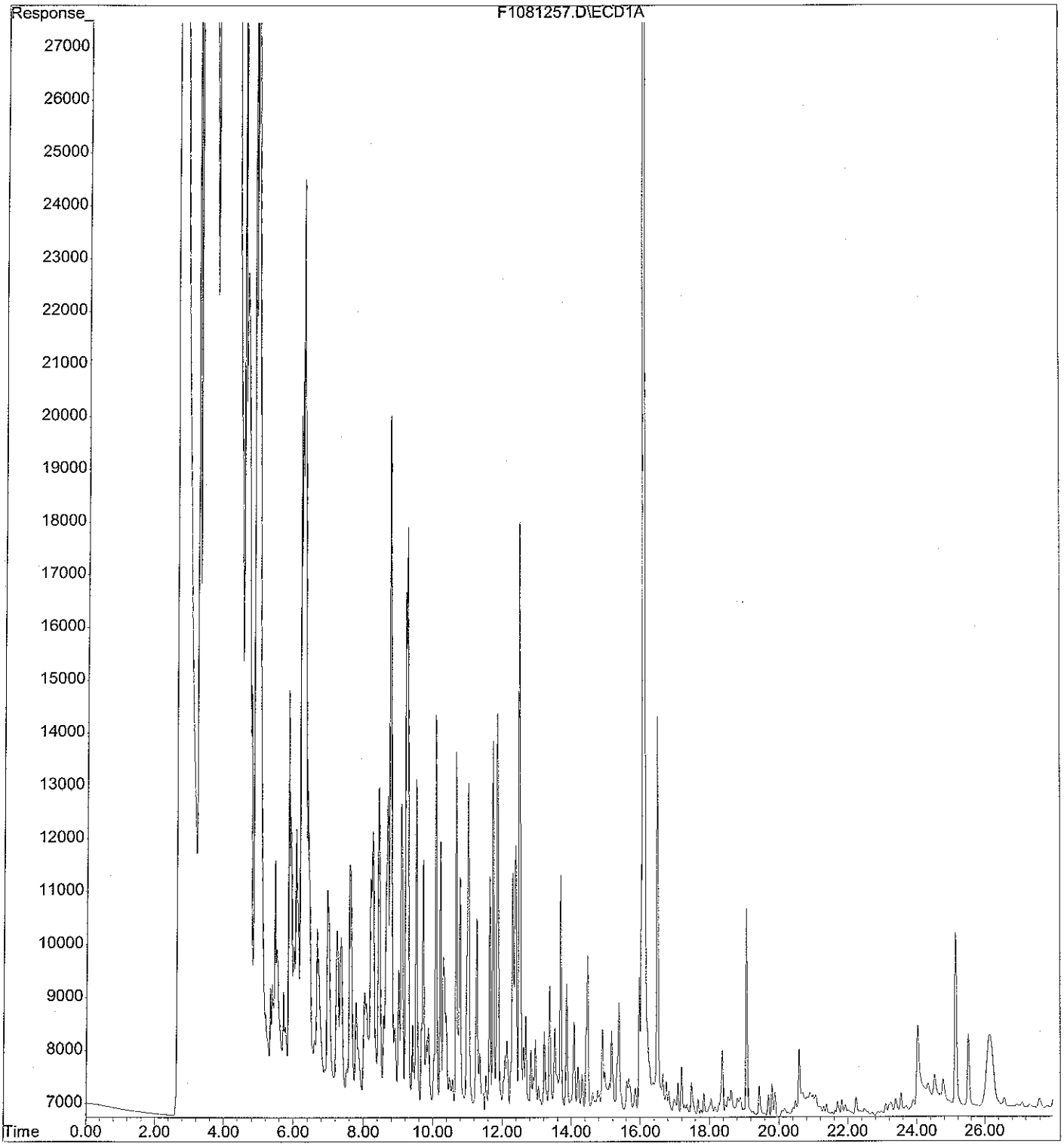
Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25





File : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D
Operator : ECD1:JR
Acquired : 13 Aug 2009 7:16 pm using AcqMethod A1080760.M
Instrument : ECD1-5890
Sample Name: L0910959-03,42,10
Misc Info : WG375455,WG374840
Vial Number: 50

Composite 3-1 thru 3-7, 3-9, 3-10



NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 419162
DATE: 07/19/2011
TIME: 14:02 - 14:50

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: EJ-21 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 2361
HAULER: NA / NON APPLICABLE ROUTE: NA / NON APPLICABLE
COMMENT: 2361

P.O.:
GROSS: 94160 LBS
TARE: 34040 LBS
NET: 60120 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
IN / INDUSTRIAL WASTE	30.0600	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster:

Driver:

IN: Lisa B: PCSCALE1-0 OUT: Lisa B: PCSCALE1-0

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYD002249658	2. Page 1 of 1	3. Emergency Response Phone See Sect. 13	4. Waste Tracking Number 005

5. Generator's Name and Mailing Address
BASF Corporation
36 Riverside Avenue
Rensselaer, NY 12144
Generator's Phone: 518-465-6534 Wayne St. Clair

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name Longhorn Trucking FIACCO TRUCKING NY AT-34921 U.S. EPA ID Number 4A-503
364 Part C Permit 48-485

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
Facility's Phone: (585) 526-4420

U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Contaminated Material	001	DT	ESF 35	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
BASF Corp. Site Approval Code #2361 L
In Case of Emergency or for information on this shipment,
Call: Keith Decker (LAND Remediation) 518-229-7214

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair Signature: Wayne St Clair Month: 07 Day: 19 Year: 11

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Adam Fonda Signature: Adam Fonda Month: 07 Day: 19 Year: 11

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name Signature Month Day Year

169-BLC-O 5 11977 (Rev. 8/06) DESIGNATED FACILITY'S COPY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 419161
DATE: 07/19/2011
TIME: 14:00 - 14:49

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: EJ-36 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 2361
HAULER: NA / NON APPLICABLE ROUTE: NA / NON APPLICABLE
COMMENT: 2361

P.O.:
GROSS: 100740 LBS
TARE: 37680 LBS
NET: 63060 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
IN / INDUSTRIAL WASTE	31.5300	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: Lisa B: PCSCALE1-0 OUT: Lisa B: PCSCALE1-0

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYD093249688	1	See Sect. 13	0004

GENERATOR

5. Generator's Name and Mailing Address
BASF Corporation
36 Riverside Avenue
Rensselaer, NY 12144
Generator's Phone: 518-465-6534 Wayne St. Claire

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name ~~Tompkins Trucking~~ FIACCO Trucking NY AR-7608Z — U.S. EPA ID Number 364 Part C Permit-No. 4A-503

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
Facility's Phone: (585) 526-4420

U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Contaminated Material	001	DT	Est. 35	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
BASF Corp. Site Approval Code #2361 L
In Case of Emergency or for information on this shipment,
Call: Keith Decker (LAND Remediation) 518-229-7214

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair — Signature: Wayne St. Clair — Month: 07 Day: 19 Year: 11

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Fred Kaczmarczyk — Signature: X — Month: 07 Day: 19 Year: 11

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Lisa Lee — Signature — Month: 7 Day: 19 Year: 11

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 419144
DATE: 07/19/2011
TIME: 13:43 - 14:19

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: CON14 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 2361
HAULER: NA / NON APPLICABLE ROUTE: NA / NON APPLICABLE
COMMENT: 2361

P.O.:
GROSS: 101560 LBS
TARE: 38920 LBS
NET: 62640 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
IN / INDUSTRIAL WASTE	31.3200	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.
Weighmaster: Driver:

IN: Lisa B: PCSCALE1-0 OUT: Lisa B : PCSCALE1-0

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD093240683

2. Page 1 of 1

3. Emergency Response Phone: See Sect. 13

4. Waste Tracking Number: 003

GENERATOR

5. Generator's Name and Mailing Address

BASF Corporation
36 Riverside Avenue
Rensselaer, NY 12144

Generator's Phone: 518-463-6334 Wayne St. Claire

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Longhorn Trucking Constantine NY-AR-74333

U.S. EPA ID Number: 364 Part C Permit #2-485 4A-597

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561

Facility's Phone: (585) 526-4420

U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Contaminated Material	001	DT	Est. 35	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

BASF Corp. Site Approval Code #2361
In Case of Emergency or for information on this shipment,
Call: Keith Docker (LAND Remediation) 518-229-7214

L

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St, Clair

Signature: Wayne St, Clair

Month 07 Day 19 Year 11

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Thomas Cathen

Signature: Thomas Justin

Month 07 Day 19 Year 11

Transporter 2 Printed/Typed Name

Signature

Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

169-BLC-O 5 11977 (Rev. 8/06)

DESIGNATED FACILITY'S COPY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 419143
DATE: 07/19/2011
TIME: 13:41 - 14:18

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: CON15 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 2361
HAULER: NA / NON APPLICABLE ROUTE: NA / NON APPLICABLE
COMMENT: 2361

P.O.:
GROSS: 99200 LBS
TARE: 38540 LBS
NET: 60660 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
IN / INDUSTRIAL WASTE	30.3300	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: _____ Driver: _____

IN: Lisa B: PCSCALE1-0 OUT: Lisa B : PCSCALE1-0

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYD093249688	1	See Sect. 13	004

GENERATOR

5. Generator's Name and Mailing Address
BASF Corporation
38 Riverside Avenue
Rensselaer, NY 12144
Generator's Phone: 518-465-6334 Wayne St. Claire

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name ~~Longhorn Trucking~~ Constantine NY AV-1724B U.S. EPA ID Number 364 Part C Permit 4A-485 4A-597

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
Facility's Phone: (585) 526-4420 U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Contaminated Material	00	DT	Est. 35	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
BASF Corp. Site Approval Code #2361 L
In Case of Emergency or for information on this shipment,
Call: Keith Decker (LAND Remediation) 518-229-7214

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair Signature: Wayne St. Clair Month: 07 Day: 19 Year: 11

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X MATT WEATMAN Signature: X Month: 07 Day: 19 Year: 11

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Signature: Month: Day: Year:

169-BLC-O 5 11977 (Rev. 8/06) **DESIGNATED FACILITY'S COPY**

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 419104
DATE: 07/19/2011
TIME: 12:24 - 13:07

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: EJ-WH/GN TRAILER:
GENERATOR: BASF / BASF PROFILE #: 2361
HAULER: NA / NON APPLICABLE ROUTE: NA / NON APPLICABLE
COMMENT: 2361

P.O.:
GROSS: 104040 LBS
TARE: 37660 LBS
NET: 66380 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
IN / INDUSTRIAL WASTE	33.1900	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.
Weighmaster: Driver:

IN: Lisa B: PCSCALE1-0 OUT: Lisa B : PCSCALE1-0

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYD002240685	1	See Sect. 13	001

GENERATOR

5. Generator's Name and Mailing Address

BASF Corporation
38 Riverside Avenue
Rensselaer, NY 12144

Generator's Phone: 518-465-5334 Wayne St. Clair

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: ~~Longhorn Trucking~~ FIACCO TRUCKING NY AW-13308

U.S. EPA ID Number: 4A-503 364 Part C Permit-485

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561

Facility's Phone: (585) 526-4420

U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Contaminated Material	00	DT	Est. 35	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

BASF Corp. Site Approval Code #2361 L

In Case of Emergency or for information on this shipment,

Call: Keith Decker (LAND Remediation) 518-229-7214

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair Signature: Wayne St. Clair Month: 07 Day: 19 Year: 11

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Thomas Todd Signature: Thomas Todd Month: 07 Day: 19 Year: 11

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name Signature Month Day Year

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DESIGNATED FACILITY'S COPY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 419101
DATE: 07/19/2011
TIME: 12:25 - 13:03

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #: P.O.:
ORIGIN: RR / RENSSELAER GROSS: 111200 LBS
TRUCK: EJ-26 TARE: 38620 LBS
GENERATOR: BASF / BASF TRAILER: NET: 72580 LBS
HAULER: NA / NON APPLICABLE PROFILE #: 2361
COMMENT: 2361 ROUTE: NA / NON APPLICABLE
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
IN / INDUSTRIAL WASTE	36.2900	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: Lisa B: PCSCALE1-0 OUT: Lisa B : PCSCALE1-0

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD093240683

2. Page 1 of

3. Emergency Response Phone: See Sect. 13

4. Waste Tracking Number: 002

GENERATOR

5. Generator's Name and Mailing Address

BASF Corporation
36 Riverside Avenue
Rensselaer, NY 12144

Generator's Phone: 518-465-6334 Wayne St. Clair

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Longhorn Trucking FIACCO TRUCKING NYAP 353216

U.S. EPA ID Number: 364 Part C Permit-All-485. 4A-503

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561

Facility's Phone: (585) 526-4420

U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Contaminated Material	001	DT	Est. 35	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

BASF Corp. Site Approval Code #2361 L

In Case of Emergency or for information on this shipment,

Call Keith Decker (LAND Remediation) 518-229-7214

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair | Signature: Wayne St Clair | Month: 07 | Day: 19 | Year: 11

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Anthony T. LeFevre | Signature: Anthony T. LeFevre | Month: 07 | Day: 19 | Year: 11

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 419371
DATE: 07/20/2011
TIME: 12:34 - 13:13

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: EJ21 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 2361
HAULER: FT / FIACCO TRUCKING ROUTE: NA / NON APPLICABLE
COMMENT: 2361

P.O.:
GROSS: 97720 LBS
TARE: 34000 LBS
NET: 63720 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
IN / INDUSTRIAL WASTE	31.8600	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.
Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B : PCSCALE1-0

EJ 21

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYD093249888	1	See Sect. 13	009

5. Generator's Name and Mailing Address
BASF Corporation
36 Riverside Avenue
Rensselaer, NY 12144
Generator's Phone: 518-463-6334 Wayne St. Claire

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
~~Longhorn Trucking~~ FIACCO TRUCKING NY At-34921
U.S. EPA ID Number 364 Part C Permit 4A-503

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
Facility's Phone: (585) 526-4420
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Contaminated Material	001	DT	Est 35	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
L.
BASF Corp. Site Approval Code #2361
In Case of Emergency or for information on this shipment,
Call: Keith Decker (LAND Remediation) 518-229-7214

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: Wayne St. Clair
Signature: Wayne St Clair
Month 07 Day 20 Year 11

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: X Adam Fonda
Signature: X
Month 07 Day 20 Year 11
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
U.S. EPA ID Number
17b. Alternate Facility (or Generator)
Facility's Phone:
Month Day Year
17c. Signature of Alternate Facility (or Generator)

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name:
Signature:
Month 7 Day 12 Year 11

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

DESIGNATED FACILITY'S COPY

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NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 419368
DATE: 07/20/2011
TIME: 12:32 - 13:10

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: CON15 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 2361
HAULER: FT / FIACCO TRUCKING ROUTE: NA / NON APPLICABLE
COMMENT: 2361

P.O.:
GROSS: 111940 LBS
TARE: 38120 LBS
NET: 73820 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
IN / INDUSTRIAL WASTE	36.9100	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B : PCSCALE1-0

Con15

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYD093249688	1	See Sect. 13	011

5. Generator's Name and Mailing Address
BASF Corporation
36 Riverside Avenue
Rensselaer, NY 12144
Generator's Phone: 518-465-6334 Wayne St. Clair

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: ~~Longhorn Trucking~~ Constantine NY A-V-17248 U.S. EPA ID Number: 364 Part C Permit ~~48-485~~ 4A-597

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
(385) 526-4620
Facility's Phone: U.S. EPA ID Number

GENERATOR

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Contaminated Material	001	DT	Est. 35	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
BASF Corp. Site Approval Code #2361
In Case of Emergency or for information on this shipment,
Call: Keith Decker (LAND Remediation) 518-229-7214

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: Wayne St. Clair Signature: Wayne St Clair Month: 07 Day: 20 Year: 11

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: X Matt Mentzer Signature: X Month: 07 Day: 20 Year: 11
Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Signature: Month: Day: Year:

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DESIGNATED FACILITY'S COPY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 419354
DATE: 07/20/2011
TIME: 12:07 - 12:35

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: GF23 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 2361
HAULER: FT / FIACCO TRUCKING ROUTE: NA / NON APPLICABLE
COMMENT: 2361

P.O.:
GROSS: 118020 LBS
TARE: 38580 LBS
NET: 79440 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
IN / INDUSTRIAL WASTE	39.7200	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: _____ Driver: _____

IN: NANCY B: PCSCALE1-0 OUT: NANCY B : PCSCALE1-0

GFB

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYD093249688	2. Page 1 of 1	3. Emergency Response Phone See Sect. 13	4. Waste Tracking Number 008

5. Generator's Name and Mailing Address
BASF Corporation
36 Riverside Avenue
Rensselaer, NY 12144
Generator's Phone: 518-465-8534 Wayne St. Clair

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name Longhorn Trucking - FIACCO TRUCKING NY-1274B1 U.S. EPA ID Number 364 Part C Permit 4A-485 4A-503

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
Facility's Phone: (585) 526-4420

U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Contaminated Material	001	DT	Est 35	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
BASF Corp. Site Approval Code #2361 L
In Case of Emergency or for information on this shipment,
Call: Keith Decker (LAND Remediation) 518-229-7214

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne Sth Clair | Signature: Wayne St. Clair | Month 07 Day 20 Year 11

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Robert Peterson Jr. | Signature: X | Month 07 Day 20 Year 11

Transporter 2 Printed/Typed Name: | Signature: | Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: | Signature: | Month 08 Day 11 Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

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DESIGNATED FACILITY'S COPY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 419337
DATE: 07/20/2011
TIME: 11:24 - 11:53

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: EJ26 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 2361
HAULER: FT / FIACCO TRUCKING ROUTE: NA / NON APPLICABLE
COMMENT: 2361

P.O.:
GROSS: 109980 LBS
TARE: 38540 LBS
NET: 71440 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
IN / INDUSTRIAL WASTE	35.7200	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B : PCSCALE1-0

6126

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD003249808
2. Page 1 of [illegible]
3. Emergency Response Phone: Sec Sect. 13
4. Waste Tracking Number: 007

5. Generator's Name and Mailing Address
BASF Corporation
36 Riverside Avenue
Rensselaer, NY 12144
Generator's Phone: 518-465-6534 Wayne St. Claire

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: ~~Bingham Trucking~~ FIACCO TRUCKing NY AP-35326
U.S. EPA ID Number: 4A-503
364 Part C Permit 4A-483

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
Facility's Phone: (585) 526-4420
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-Hazardous Contaminated Material	001	DT	Est 35	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

BASF Corp. Site Approval Code #2361
In Case of Emergency or for information on this shipment,
Call: Keith Decker (LAND Remediation) 518-229-7214

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair
Signature: Wayne St. Clair
Month 07 Day 20 Year 11

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Transporter Signature (for exports only):
Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: X Anthony T. LeFevre
Signature: X Anthony T. LeFevre
Month 07 Day 20 Year 11
Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: [illegible signature]
Signature: [illegible signature]
Month Day Year 7 20 11

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DESIGNATED FACILITY'S COPY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 419330
DATE: 07/20/2011
TIME: 11:15 - 11:43

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: EJ33 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 2361
HAULER: FT / FIACCO TRUCKING ROUTE: NA / NON APPLICABLE
COMMENT: 2361

P.O.:
GROSS: 113940 LBS
TARE: 37620 LBS
NET: 76320 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
IN / INDUSTRIAL WASTE	38.1600	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: _____ Driver: _____

IN: NANCY B: PCSCALE1-0 OUT: NANCY B : PCSCALE1-0

IT-ej33

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYD0[illegible]		See Sect. 13	006

5. Generator's Name and Mailing Address

BASF Corporation
36 Riverside Avenue
Rensselaer, NY 12144

Generator's Site Address (if different than mailing address)

Generator's Phone: 518-465-6534 Wayne St. Claire

6. Transporter 1 Company Name: ~~Longhorn Trucking~~ FIACCO TRUCKING NY AW-13308

U.S. EPA ID Number: ~~364 Part C Permit 4A-485~~ 4A-503

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561

U.S. EPA ID Number

Facility's Phone: (585) 526-4420

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-Hazardous Contaminated Material	001	DT	Est 35	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

BASF Corp. Site Approval Code #2361

In Case of Emergency or for information on this shipment,

Call: Keith Decker (LAND Remediation) 518-229-7214

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair Signature: Wayne St. Clair Month 07 Day 20 Year 11

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Thomas Todd Signature: X Thomas Todd Month 07 Day 20 Year 11

Transporter 2 Printed/Typed Name Signature Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Nancy Gilman Signature: S. D. Gilman Month 7 Day 20 Year 11

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 8/06)

DESIGNATED FACILITY'S COPY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 419616
DATE: 07/21/2011
TIME: 12:41 - 13:07

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: EJ33 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 2361
HAULER: FT / FIACCO TRUCKING ROUTE: NA / NON APPLICABLE
COMMENT: 2361

P.O.:
GROSS: 107200 LBS
TARE: 37280 LBS
NET: 69920 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
IN / INDUSTRIAL WASTE	34.9600	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B : PCSCALE1-0

1833

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD093249688
2. Page 1 of 1
3. Emergency Response Phone: See Sect. 13
4. Waste Tracking Number: 014

5. Generator's Name and Mailing Address
BASF Corporation
36 Riverside Avenue
Rensselaer, NY 12144
518-465-6534   Wayne St. Claire

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: ~~Lanphum Trucking~~ FIACCO TRUCKING   NY AW-13308
U.S. EPA ID Number: ~~364 Part C Permit 4A-485~~ 4A-503

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
(585) 526-4420

U.S. EPA ID Number

Facility's Phone:

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non-Hazardous Contaminated Material	001	DT	Est. 35	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
BASF Corp. Site   Approval Code #2361
In Case of Emergency or for information on this shipment,
Call: Keith Decker (LAND Remediation) 518-229-7214

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair   Signature: Wayne St. Clair   Month 07 Day 21 Year 11

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.   Port of entry/exit:
Transporter Signature (for exports only):   Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: X Thomas Todd   Signature: X [signature]   Month 07 Day 21 Year 11
Transporter 2 Printed/Typed Name   Signature   Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)   U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)   Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [signature]   Signature: [signature]   Month 7 Day 21 Year 11

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 419613
DATE: 07/21/2011
TIME: 12:20 - 12:51

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: GJ23 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 2361
HAULER: FT / FIACCO TRUCKING ROUTE: NA / NON APPLICABLE
COMMENT: 2361

P.O.:
GROSS: 112840 LBS
TARE: 38320 LBS
NET: 74520 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
IN / INDUSTRIAL WASTE	37.2600	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B : PCSCALE1-0

4 of 23

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYD093249688	1 of 1	See Sect. 13	013

5. Generator's Name and Mailing Address
BASF Corporation
36 Riverside Avenue
Rensselaer, NY 12144
Generator's Phone: 518-465-6534

Generator's Site Address (if different than mailing address)
Wayne St. Clair

6. Transporter 1 Company Name
~~Longhorn Trucking~~ FIACCO TRUCKING NY #274481

U.S. EPA ID Number
364 Part C Permit 4A-488 - 4A-503

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
Facility's Phone: (585) 526-4420

U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Contaminated Material	001	DT	Est. 35	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
BASF Corp. Site Approval Code #2361 L
In Case of Emergency or for information on this shipment,
Call Keith Decker (LAND Remediation) 518-229-7214

GENERATOR

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair
Signature: Wayne St. Clair
Month: 07 Day: 21 Year: 11

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: X Robert Colburt Peterson Jr.
Signature: X
Month: 07 Day: 21 Year: 11

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

169-BLC-O 5 11977 (Rev. 8/06)

DESIGNATED FACILITY'S COPY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 419604
DATE: 07/21/2011
TIME: 11:42 - 12:27

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: EJ26 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 2361
HAULER: FT / FIACCO TRUCKING ROUTE: NA / NON APPLICABLE
COMMENT: 2361

P.O.:
GROSS: 119720 LBS
TARE: 38300 LBS
NET: 81420 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
IN / INDUSTRIAL WASTE	40.7100	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: _____ Driver: _____

IN: NANCY B: PCSCALE1-O OUT: NANCY B : PCSCALE1-O

e324

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYD093249688	1	See Sect. 13	012

5. Generator's Name and Mailing Address

BASF Corporation
36 Riverside Avenue
Rensselaer, NY 12144

Generator's Site Address (if different than mailing address)

Generator's Phone: 518-465-5534 Wayne St. Claire

6. Transporter 1 Company Name ~~Longhorn Trucking~~ FIACCO Trucking NY AP-35326

U.S. EPA ID Number 4A-503 ~~364 Part C Permit~~

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561

Facility's Phone: (585) 526-4420

U.S. EPA ID Number

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non-Hazardous Contaminated Material	001	DT	Est. 35	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

BASF Corp. Site Approval Code #2361

In Case of Emergency or for information on this shipment,

Call: Keith Decker (LAND Remediation) 518-229-7214

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair Signature: Wayne St. Clair Month 07 Day 21 Year 11

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Anthony T. LeFevre Signature: X Anthony T. LeFevre Month 07 Day 21 Year 11

Transporter 2 Printed/Typed Name Signature Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Alan Gilman Signature: [signature] Month 7 Day 21 Year 11

GENERATOR · INT'L · TRANSPORTER · DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 8/06)

DESIGNATED FACILITY'S COPY

Appendix C

Blended Containment Cell Disposal Documents

FOR STATE USE ONLY		
SITE NO.	APPLICATION NO.	DATE RECEIVED
DEPARTMENT ACTION Approved Disapproved		DATE

{PRIVATE} ***SPECIAL WASTE CHARACTERIZATION PROFILE***

Disposal Facility Location (Choose One or More)	*Disposal Option*
Ontario County Landfill	**Waste** **BUD: _____ ADC,** **Other (describe)**

1) Company Generating Waste	**Address of Facility Generating Waste (Street, City, State, Zip)**		**County of Origin**
BASF Corporation	70 Riverside Avenue, Rensselaer, New York		Rensselaer
2) Representative of Generator (same as generator's signature) **Wayne St. Clair (Engineer)**	**Mailing Address of Representative** 70 Riverside Avenue, Rensselaer, NY	**Telephone No.** **518-465-6534**	**Fax No.** **518-465-7095**

3) Description of Facility/Process Generating Waste

Material was dredged from Hudson River, original source is various operations resulting from the sites former use as a production facility.

4) Description of waste (debris-containing, composition, uniform or mixture, etc.)

Grey, Brown soil with HDPE and fabric liner approximately 5%.

5) Is Waste Hazardous

Yes X No

6) Expected Annual Amount of Waste To Be Delivered	**Approximate Density of Waste**
1500 **tons/year** 950 **cubic yards/year**	3000 **pounds/cubic yard**

7) Expected Frequency of Delivery

X one-time

_____ daily _____ weekly _____ monthly _____ other (specify, if known)

8) Hauler Name	**Address**	**NYSDEC Permit No.** Exp. Date:	**Telephone No.**

9) Method of Delivery. If other, specify.

_____ roll-off _____ packer truck _____ tractor trailer _____ other			
10) Previous Disposal Location	**Address**	**Phone**	**Contact Person**

{PRIVATE} *Waste Characterization Data*

11) Is the waste classified as a "listed" or "characteristic" hazardous waste as defined by USEPA, or State of origin, or State where disposed? (If yes, explain.)

No

12) Describe all hazardous or nuisance properties associated with the waste.

NA

13) Does the waste require any special handling or disposal procedures? If so, explain.

No

14) Analytical Data Submitted (TCLP/Other). **YES-(TCLP and total VOCs 8260, Bulk Density ASTME 1109, Percent Moisture, TCLP and total RCRA 8 Metals, Total Sulfide, pH, PCBs, TCLP Chlorinated Pesticides, TCLP Chlorinated Herbicides, Diesel Range Organics). Please note that samples of concern are Composite 1 through 3, S-1, S1-2, TC-1A, SS-1 through SS-4, and SP-1AD, SP-1BC, SP-2AD and SP-2BC . Others represent different material and are only provided because they are on the lab reports.**	**Type of Samples (indicate No. of each type in space provided)** **2 grab 13 composite** **-Samples S-1 and S1-2 is a grab sample collected prior to treatment of the sediment by addition of peat moss and is provided only as an indication that Herbicides are not a COC.** **-Composite 1, 2, and 3 are for PCB data only** **-TC-1A provides full disposal data, but indicates TCLP failures prior to treatment.** **SS-1 through SS-4 represents TCLP data after 1 round of peat moss treatment.** **SP-1AD, SP-1BC, SP-2AD and SP-2BC provide final passing TCLP data following the second peat moss treatment event.**

New England Waste Services of N.Y., Inc. requires, at a minimum, the submittal of full TCLP (Metals-RCRA 8, VOC, SVOC, PCBs, Pesticides/Herbicides), pH, Reactivity, Ignitibility, and % solids testing results for any special waste submitted for landfill acceptance unless the applicant can provide an acceptable justification for submittal of less comprehensive data. The generator is responsible for proper waste characterization.

15) Justification for not submitting full TCLP data.

NA

GENERATOR CERTIFICATION

I hereby certify that (1) all information submitted on this form and on supplemental materials is complete and accurate to the best of my knowledge and ability to determine; (2) the information provided herein, including any supplemental information, such as laboratory analytical, MSDS, etc., accurately describes the waste stream to be delivered to the facility and that all known or suspected hazards have been disclosed. I understand that, once the waste stream is approved by Casella based on this information, any deviation in the source, composition, constituents or characteristics of the waste stream from the information described herein, may render the waste stream unacceptable for disposal, at the sole discretion of Casella. I further understand that any deviation from the information contained herein will require immediate notification to the disposal facility and cessation of disposal.

Generator's Authorized Representative - Signature:	**Print name:**	**Print Title:**	**Date:**

Wayne St. Clair	Wayne St. Clair	Supt. Engineering/ Inactive Site Mgr.	11/7/12

DISPOSITION (to be completed by Casella Waste Systems, Inc.)			
Received by:		**Date Received:**	**Date Logged In:**
Approved by:		**Project Name:**	
Title:			
Submitted to Casella PC&E	**Date:**	**Casella PC&E Approval**	**Date:**
Submitted to NYSDEC	**Date:**	**NYSDEC Approval**	**Date:**

New York State Department of Environmental Conservation
Office of Environmental Quality, Region 4
1130 North Westcott Road, Schenectady, New York 12306-2014
Phone: (518) 357-2045 • **Fax:** (518) 357-2398
Website: www.dec.ny.gov

Joe Martens
Commissioner

May 11, 2012

Mr. Douglas Reid-Green
BASF Corporation
Mail Stop: F-409A
100 Campus Drive
Florham Park, NJ 07932

Re: BASF Manufacturing Plant, Site # 442027, OU2, Rensselaer
Dredged Sediment Stored at the Site

Dear Mr. Reid-Green:

As per our telephone conversation on May 9, 2012, the New York State Department of Environmental Conservation (NYSDEC) has the following comment regarding the Hudson River sediment stored on the BASF Manufacturing Plant Site:

> Although the Pilot Study did not include additional treatment (mixing in peat) to the sediment presently stored at the Plant Site, the NYSDEC does acknowledge and accepts this past action. With this letter, we confirm that BASF may proceed with the necessary characterization sampling and disposal of the sediment/peat mixture that is the residual from the Pilot Study.

I may be reached at 518-357-2390, or by e-mail at jrstrang@gw.dec.state.ny.us with any questions.

Sincerely,

John R Strang

John R. Strang, P.E.
Environmental Engineer 2
Division of Environmental Remediation
Region 4

cc: J. Bleiler, AECOM
N. Epler, ROUX
H. Martin, ELM
W. St.Clair, BASF
M. Schuck, NYSDOH
R. Quail, DFWMR HWSEU
C. Gosier, DFWMR
K. Woodfield, DOW
A. Guglielmi, NYSDEC OGC
R. Cozzy, NYSDEC CO
K. Goertz, NYSDEC Reg. 4

JS:jh/letter.hw442027-2-12-05-11

Original Containment Cell (Composite 1 through 3)

PCB Results

ANALYTICAL REPORT

Lab Number:	L0910959
Client:	ENSR 2 Technology Park Drive Westford, MA 01886
ATTN:	Lori Herberich
Project Name:	BASF
Project Number:	111799
Report Date:	08/14/09

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0910959-01	COMPOSITE 1	RENSSELAER, NY	08/07/09 00:00
L0910959-02	COMPOSITE 2	RENSSELAER, NY	08/07/09 00:00
L0910959-03	COMPOSITE 3	RENSSELAER, NY	08/07/09 00:00

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

PCB Aroclor

Sample Receipt

A sample identified as "3-8" was listed on the Chain of Custody, but not received. This was verified by the client.

The laboratory homogenized each of the jars received. An equal weight from each jar was utilized to make the three composite samples as follows:

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

Case Narrative (continued)

Composite 1 is a composite of sample IDs 1-1 through 1-10.

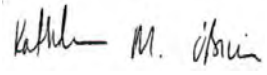
Composite 2 is a composite of sample IDs 2-1 through 2-10.

Composite 3 is a composite of sample IDs 3-1 through 3-7, 3-9 and 3-10.

L0910959-01 through L0910959-03 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

A copy of the Quantitation Report and the Chromatograph for each sample is provided at the end of this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Title: Technical Director/Representative Date: 08/14/09

ORGANICS

PCBS

Project Name: BASF **Lab Number:** L0910959

Project Number: 111799 **Report Date:** 08/14/09

SAMPLE RESULTS

Lab ID:	L0910959-01	Date Collected:	08/07/09 00:00
Client ID:	COMPOSITE 1	Date Received:	08/08/09
Sample Location:	RENSSELAER, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3570
Analytical Method:	1,8082	Extraction Date:	08/11/09 10:36
Analytical Date:	08/13/09 18:14	Cleanup Method1:	3665A
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/kg	539	10
Aroclor 1221	ND		ug/kg	539	10
Aroclor 1232	ND		ug/kg	539	10
Aroclor 1248	ND		ug/kg	539	10
Aroclor 1254	ND		ug/kg	539	10
Aroclor 1260	ND		ug/kg	539	10
Aroclor 1262	ND		ug/kg	539	10
Aroclor 1268	ND		ug/kg	539	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	68		30-150
Decachlorobiphenyl	98		30-150
Tetrachloro-meta-Xylene	105		30-150
Decachlorobiphenyl	91		30-150

Project Name: BASF
Project Number: 111799
Lab Number: L0910959
Report Date: 08/14/09

SAMPLE RESULTS

Lab ID:	L0910959-01	Date Collected:	08/07/09 00:00
Client ID:	COMPOSITE 1	Date Received:	08/08/09
Sample Location:	RENSSELAER, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3570
Analytical Method:	1,8082	Extraction Date:	08/11/09 10:36
Analytical Date:	08/13/09 18:14	Cleanup Method1:	3665A
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1242	23000		ug/kg	539	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	68		30-150
Decachlorobiphenyl	98		30-150
Tetrachloro-meta-Xylene	105		30-150
Decachlorobiphenyl	91		30-150

Project Name: BASF **Lab Number:** L0910959

Project Number: 111799 **Report Date:** 08/14/09

SAMPLE RESULTS

Lab ID:	L0910959-02	Date Collected:	08/07/09 00:00
Client ID:	COMPOSITE 2	Date Received:	08/08/09
Sample Location:	RENSSELAER, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3570
Analytical Method:	1,8082	Extraction Date:	08/11/09 10:36
Analytical Date:	08/13/09 18:45	Cleanup Method1:	3665A
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/kg	567	10
Aroclor 1221	ND		ug/kg	567	10
Aroclor 1232	ND		ug/kg	567	10
Aroclor 1248	ND		ug/kg	567	10
Aroclor 1254	ND		ug/kg	567	10
Aroclor 1260	ND		ug/kg	567	10
Aroclor 1262	ND		ug/kg	567	10
Aroclor 1268	ND		ug/kg	567	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	55		30-150
Decachlorobiphenyl	95		30-150
Tetrachloro-meta-Xylene	55		30-150
Decachlorobiphenyl	95		30-150

Project Name: BASF **Lab Number:** L0910959

Project Number: 111799 **Report Date:** 08/14/09

SAMPLE RESULTS

Lab ID:	L0910959-02	Date Collected:	08/07/09 00:00
Client ID:	COMPOSITE 2	Date Received:	08/08/09
Sample Location:	RENSSELAER, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3570
Analytical Method:	1,8082	Extraction Date:	08/11/09 10:36
Analytical Date:	08/13/09 18:45	Cleanup Method1:	3665A
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1242	12000		ug/kg	567	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	55		30-150
Decachlorobiphenyl	95		30-150
Tetrachloro-meta-Xylene	55		30-150
Decachlorobiphenyl	95		30-150

Project Name: BASF **Lab Number:** L0910959

Project Number: 111799 **Report Date:** 08/14/09

SAMPLE RESULTS

Lab ID:	L0910959-03	Date Collected:	08/07/09 00:00
Client ID:	COMPOSITE 3	Date Received:	08/08/09
Sample Location:	RENSSELAER, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3570
Analytical Method:	1,8082	Extraction Date:	08/11/09 10:36
Analytical Date:	08/13/09 19:16	Cleanup Method1:	3665A
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/kg	656	10
Aroclor 1221	ND		ug/kg	656	10
Aroclor 1232	ND		ug/kg	656	10
Aroclor 1248	ND		ug/kg	656	10
Aroclor 1254	ND		ug/kg	656	10
Aroclor 1260	ND		ug/kg	656	10
Aroclor 1262	ND		ug/kg	656	10
Aroclor 1268	ND		ug/kg	656	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	52		30-150
Decachlorobiphenyl	98		30-150
Tetrachloro-meta-Xylene	62		30-150
Decachlorobiphenyl	95		30-150

Project Name: BASF
Project Number: 111799
Lab Number: L0910959
Report Date: 08/14/09

SAMPLE RESULTS

Lab ID:	L0910959-03	Date Collected:	08/07/09 00:00
Client ID:	COMPOSITE 3	Date Received:	08/08/09
Sample Location:	RENSSELAER, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3570
Analytical Method:	1,8082	Extraction Date:	08/11/09 10:36
Analytical Date:	08/13/09 19:16	Cleanup Method1:	3665A
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1242	22800		ug/kg	656	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	52		30-150
Decachlorobiphenyl	98		30-150
Tetrachloro-meta-Xylene	62		30-150
Decachlorobiphenyl	95		30-150

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/13/09 10:32
Analyst: JR

Extraction Method: EPA 3570
Extraction Date: 08/11/09 10:36
Cleanup Method1: 3665A
Cleanup Date1:

Parameter	Result	Qualifier	Units	RDL
Polychlorinated Biphenyls by GC - Mansfield Lab for sample(s): 01-03 Batch: WG374840-1				
Aroclor 1016	ND		ug/kg	40.0
Aroclor 1221	ND		ug/kg	40.0
Aroclor 1232	ND		ug/kg	40.0
Aroclor 1242	ND		ug/kg	40.0
Aroclor 1248	ND		ug/kg	40.0
Aroclor 1254	ND		ug/kg	40.0
Aroclor 1260	ND		ug/kg	40.0
Aroclor 1262	ND		ug/kg	40.0
Aroclor 1268	ND		ug/kg	40.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	62		30-150
Decachlorobiphenyl	75		30-150
Tetrachloro-meta-Xylene	63		30-150
Decachlorobiphenyl	74		30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Polychlorinated Biphenyls by GC - Mansfield Lab Associated sample(s): 01-03 Batch: WG374840-2 WG374840-3					
Aroclor 1016	82	89	40-140	8	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	64		70		30-150
Decachlorobiphenyl	83		83		30-150
Tetrachloro-meta-Xylene	64		70		30-150
Decachlorobiphenyl	82		81		30-150

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Polychlorinated Biphenyls by GC - Mansfield Lab Associated sample(s): 01-03 Batch: WG374840-2 WG374840-3					
Aroclor 1260	88	92	40-140	4	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	64		70		30-150
Decachlorobiphenyl	83		83		30-150
Tetrachloro-meta-Xylene	64		70		30-150
Decachlorobiphenyl	82		81		30-150

INORGANICS
&
MISCELLANEOUS

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

SAMPLE RESULTS

Lab ID: L0910959-01
Client ID: COMPOSITE 1
Sample Location: RENSSELAER, NY
Matrix: Soil

Date Collected: 08/07/09 00:00
Date Received: 08/08/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total	66.5		%	0.100	1	-	08/11/09 09:00	30,2540G	KB

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

SAMPLE RESULTS

Lab ID: L0910959-02
Client ID: COMPOSITE 2
Sample Location: RENSSELAER, NY
Matrix: Soil

Date Collected: 08/07/09 00:00
Date Received: 08/08/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total	66.9		%	0.100	1	-	08/11/09 09:00	30,2540G	KB

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

SAMPLE RESULTS

Lab ID: L0910959-03
Client ID: COMPOSITE 3
Sample Location: RENSSELAER, NY
Matrix: Soil

Date Collected: 08/07/09 00:00
Date Received: 08/08/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total	58.0		%	0.100	1	-	08/11/09 09:00	30,2540G	KB

Lab Duplicate Analysis
Batch Quality Control

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG374807-2 QC Sample: L0910959-01 Client ID: COMPOSITE 1					
Solids, Total	66.5	66.1	%	1	20

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0910959-01A	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01B	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01C	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01D	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01E	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01F	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01G	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01H	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01I	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01J	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-01K	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-PCB-8082(14),A2-TS(7)
L0910959-02A	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02B	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02C	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02D	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02E	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02F	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02G	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02H	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02I	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02J	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-02K	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-PCB-8082(14),A2-TS(7)
L0910959-03A	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-03B	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-03C	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-03D	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-03E	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-03F	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-03G	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-03H	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)

*Hold days indicated by values in parentheses

Project Name: BASF
Project Number: 111799

Lab Number: L0910959
Report Date: 08/14/09

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0910959-03I	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-COMPOSITING(7)
L0910959-03J	Glass 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-PCB-8082(14),A2-TS(7)

Container Comments

L0910959-01K	CREATED FROM L0910959-01A TO L0910959-01J	8/11/09
L0910959-02K	CREATED FROM L0910959-02A TO L0910959-02J	8/11/09
L0910959-03J	CREATED FROM L0910959-03A TO L0910959-03I	8/11/09

*Hold days indicated by values in parentheses

Project Name:	BASF	**Lab Number:**	L0910959
Project Number:	111799	**Report Date:**	08/14/09

GLOSSARY

Acronyms

EPA	· Environmental Protection Agency.
LCS	· Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	· Laboratory Control Sample Duplicate: Refer to LCS.
MS	· Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	· Matrix Spike Sample Duplicate: Refer to MS.
NA	· Not Applicable.
NC	· Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND	· Not detected at the reported detection limit for the sample.
NI	· Not Ignitable.
RDL	· Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	· Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

*****	- The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
N	- The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Project Name:	BASF	**Lab Number:**	L0910959
Project Number:	111799	**Report Date:**	08/14/09

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised June 17, 2009 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH3-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. ***NELAP Accredited.***

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7471. Organic Parameters: EPA 8015, 8270.)

U.S. Army Corps of Engineers

08140914:30

CHAIN OF CUSTODY

PAGE_____ OF _____

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L0910959

Client Information

Client: AECOM
Address: 40 British American Blvd Latham NY 12110
Phone: 518 951 2200
Fax: 518 951 2300
Email: frank.zeske@aecom.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: BASF
Project Location: Rensselaer NY
Project #: 111799
Project Manager: Frank Zeske
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☒ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 111799

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING
Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS PCB Aroclor	Sample Specific Comments	TOTAL # BOTTLES
L0910959-1	1-1	8/7/09	1026	So.1	TRB	X		
	1-2		1030		TRB	X		
	1-3		1035		TRB	X		
	1-4		1040		TRB	X		
	1-5		1042		TRB	X		
	1-6		1045		TRB	X		
	1-7		1050		TRB	X		
	1-8		1055		TRB	X		
	1-9		1100		TRB	X		
	1-10		1105		TRB	X		

Container Type														
Preservative														

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Tyler Brown/ALPHA	8/7/09 1830	Eileen Sullivan	8/8/09 11:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

See other Chain

CHAIN OF CUSTODY

PAGE _____ OF _____

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L0910959

Client Information

Client:

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: BASF

Project Location: Lewiston, NY

Project #: 111797

Project Manager: Frank Zeske

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☒ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #: 111797

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: PCB's Aroclors

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	TOTAL # BOTTLES
L0910959-2	2-1	8/7/08	1110	Soil	TRB	X	
	2-2		1115			X	
	2-3		1117			X	
	2-4		1120			X	
	2-5		1125			X	
	2-6		1127			X	
	2-7		1130			X	
	2-8		1131			X	
	2-9		1133			X	
	2-10		1135			X	

Container Type

Preservative

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	8/7/08 1530	Eileen Sullivan	8/8/08 11:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

08140914:30

See Other Chain

CHAIN OF CUSTODY

PAGE _____ OF _____

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L0910959

Client Information

Client:

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: BAST

Project Location: Rensselaer, NY

Project #: 111791

Project Manager: Frank Testa

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☒ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #: 111795

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: PCB Aroclor

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCB Aroclor	Sample Specific Comments	TOTAL # BOTTLES
L0910959-3	3-1	8/7/09	1320	Soil	TMB	X		
	3-2		1322			X		
	3-3		1325			X		
	3-4		1329			X		
	3-5		1330			X		
	3-6		1332			X		
	3-7		1340			X		
	3-8		1342			X		
	3-9		1345			X		
	3-10		1350			X		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

	Container Type													
	Preservative													

Relinquished By:	Date/Time	Received By:	Date/Time
	8/7/09 1850		8/8/09 11:32

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

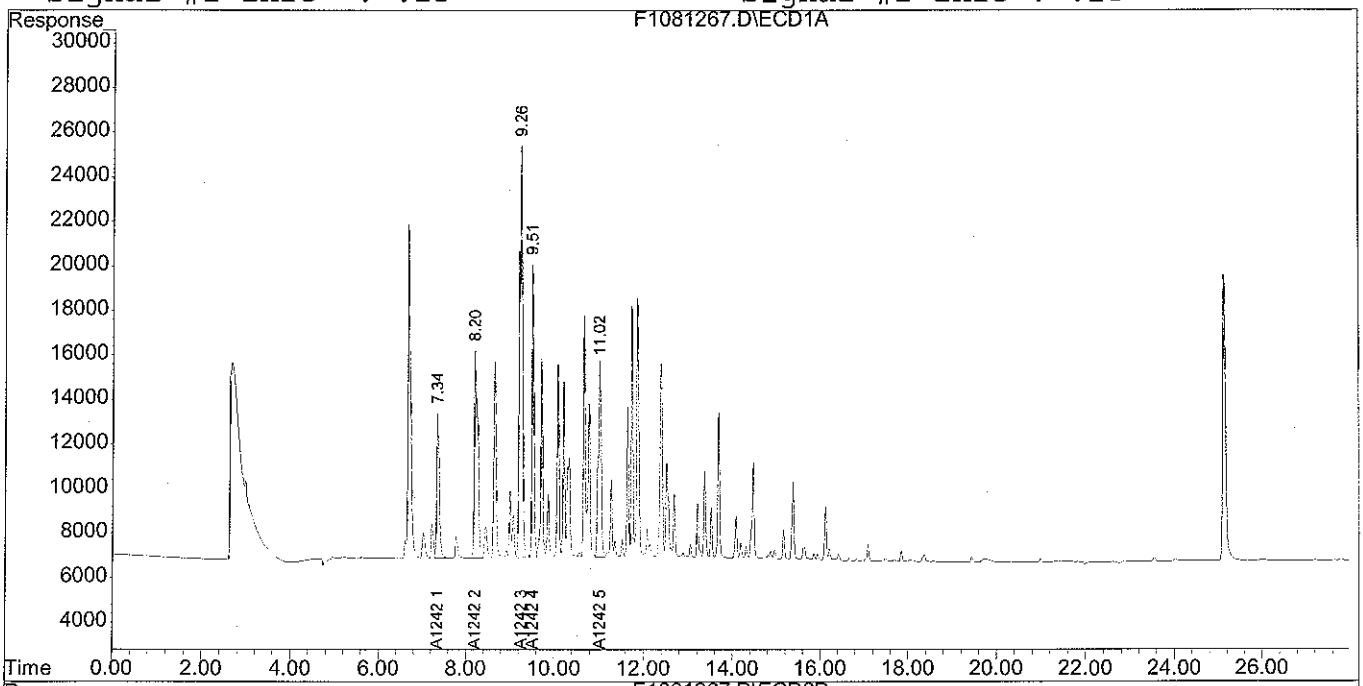
08140914:30

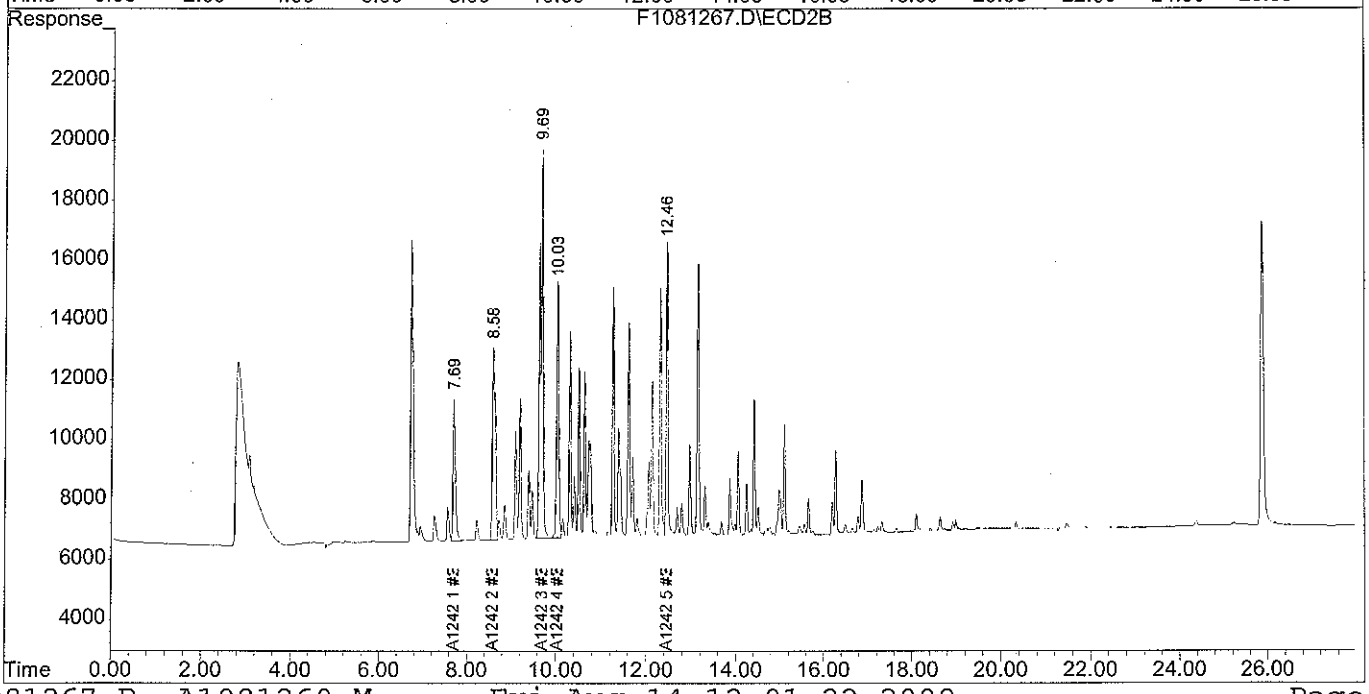
Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081267.D\ECD1A.CH Vial: 60
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081267.D\ECD2B.CH
Acq On : 14 Aug 2009 12:29 am Operator: ECD1:JR
Sample : C108121[STD1242] Inst : ECD1-5890
Misc : PW061009C Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 9:40 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Multiple Level Calibration
DataAcq Meth : A1080760.M

1242

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25





Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D\ECD1A.CH Vial: 48
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D\ECD2B.CH
Acq On : 13 Aug 2009 6:14 pm Operator: ECD1:JR
Sample : L0910959-01,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 9:55 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

8/14/09

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) s TMX - Surrogate	6.66	6.74	83477	93778	6.816M4	10.521M4#
Spiked Amount 100.000	Range 30 - 150		Recovery =		6.82%#	10.52%#
12) s DCB - Surrogate	25.13	25.86	138164	109405	9.792	9.091M4
Spiked Amount 100.000	Range 30 - 150		Recovery =		9.79%#	9.09%#
Target Compounds						
2) L1 A1016 1	0.00	0.00	0	0	N.D. d	N.D. d
3) L1 A1016 2	0.00	0.00	0	0	N.D. d	N.D. d
4) L1 A1016 3	0.00	0.00	0	0	N.D. d	N.D. d
5) L1 A1016 4	0.00	0.00	0	0	N.D. d	N.D. d
6) L1 A1016 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1016 1			0	0	N.D.	N.D.
Average A1016 1					0.000	0.000
7) L7 A1260 1	0.00	0.00	0	0	N.D. d	N.D. d
8) L7 A1260 2	0.00	0.00	0	0	N.D. d	N.D. d
9) L7 A1260 3	0.00	0.00	0	0	N.D. d	N.D. d
10) L7 A1260 4	0.00	0.00	0	0	N.D. d	N.D. d
11) L7 A1260 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1260 1			0	0	N.D.	N.D.
Average A1260 1					0.000	0.000
13) L2 A1221 1	0.00	0.00	0	0	N.D. d	N.D. d
14) L2 A1221 2	0.00	0.00	0	0	N.D. d	N.D. d
15) L2 A1221 3	0.00	0.00	0	0	N.D. d	N.D. d
16) L2 A1221 4	0.00	0.00	0	0	N.D. d	N.D. d
17) L2 A1221 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1221 1			0	0	N.D.	N.D.
Average A1221 1					0.000	0.000
18) L3 A1232 1	0.00	0.00	0	0	N.D. d	N.D. d
19) L3 A1232 2	0.00	0.00	0	0	N.D. d	N.D. d
20) L3 A1232 3	0.00	0.00	0	0	N.D. d	N.D. d
21) L3 A1232 4	0.00	0.00	0	0	N.D. d	N.D. d
22) L3 A1232 5	0.00	0.00	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D\ECD1A.CH Vial: 48
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D\ECD2B.CH
Acq On : 13 Aug 2009 6:14 pm Operator: ECD1:JR
Sample : L0910959-01,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 9:55 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Sum A1232 1			0	0	N.D.	N.D.
Average A1232 1					0.000	0.000
23) L4 A1242 1	7.33	0.00	179724	0	720.048M4	N.D. d#
24) L4 A1242 2	0.00	8.58	0	209361	N.D. d	721.370M4#
25) L4 A1242 3	9.25	9.68	709997	520134	876.061M4	896.590M4
26) L4 A1242 4	0.00	0.00	0	0	N.D. d	N.D. d
27) L4 A1242 5	11.02	12.45	336445	235875	893.649M4	941.420M4
Sum A1242 1			1226166	965371	2489.757	2559.379
Average A1242 1					829.919	853.126
28) L5 A1248 1	0.00	0.00	0	0	N.D. d	N.D. d
29) L5 A1248 2	0.00	0.00	0	0	N.D. d	N.D. d
30) L5 A1248 3	0.00	0.00	0	0	N.D. d	N.D. d
31) L5 A1248 4	0.00	0.00	0	0	N.D. d	N.D. d
32) L5 A1248 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1248 1			0	0	N.D.	N.D.
Average A1248 1					0.000	0.000
33) L6 A1254 1	0.00	0.00	0	0	N.D. d	N.D. d
34) L6 A1254 2	0.00	0.00	0	0	N.D. d	N.D. d
35) L6 A1254 3	0.00	0.00	0	0	N.D. d	N.D. d
36) L6 A1254 4	0.00	0.00	0	0	N.D. d	N.D. d
37) L6 A1254 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1254 1			0	0	N.D.	N.D.
Average A1254 1					0.000	0.000
38) L8 A1262 1	0.00	0.00	0	0	N.D. d	N.D. d
39) L8 A1262 2	0.00	0.00	0	0	N.D. d	N.D. d
40) L8 A1262 3	0.00	0.00	0	0	N.D. d	N.D. d
41) L8 A1262 4	0.00	0.00	0	0	N.D. d	N.D. d
42) L8 A1262 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1262 1			0	0	N.D.	N.D.
Average A1262 1					0.000	0.000
43) L9 A1268 1	0.00	0.00	0	0	N.D. d	N.D. d
44) L9 A1268 2	0.00	0.00	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D\ECD1A.CH Vial: 48
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D\ECD2B.CH
Acq On : 13 Aug 2009 6:14 pm Operator: ECD1:JR
Sample : L0910959-01,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 9:55 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

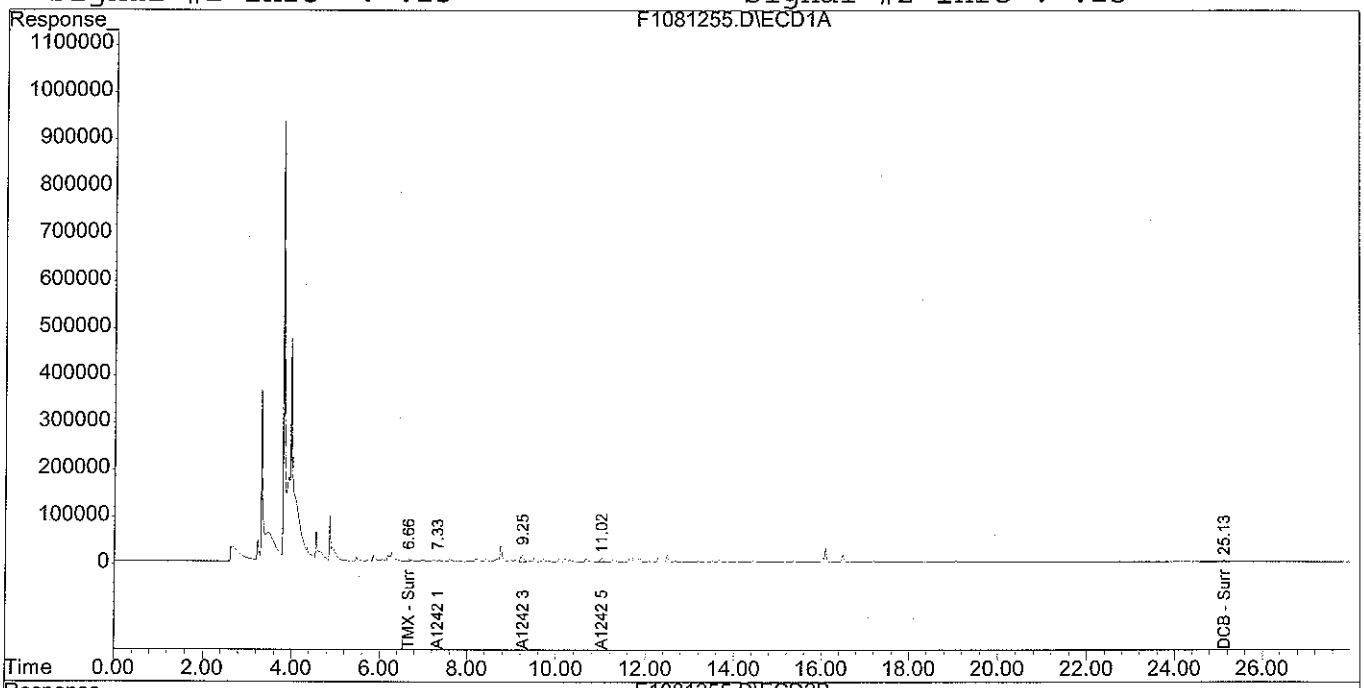
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
45)	L9 A1268 3	0.00	0.00	0	0	N.D. d	N.D. d
46)	L9 A1268 4	0.00	0.00	0	0	N.D. d	N.D. d
47)	L9 A1268 5	0.00	0.00	0	0	N.D. d	N.D. d
	Sum A1268 1			0	0	N.D.	N.D.
Average	A1268 1					0.000	0.000

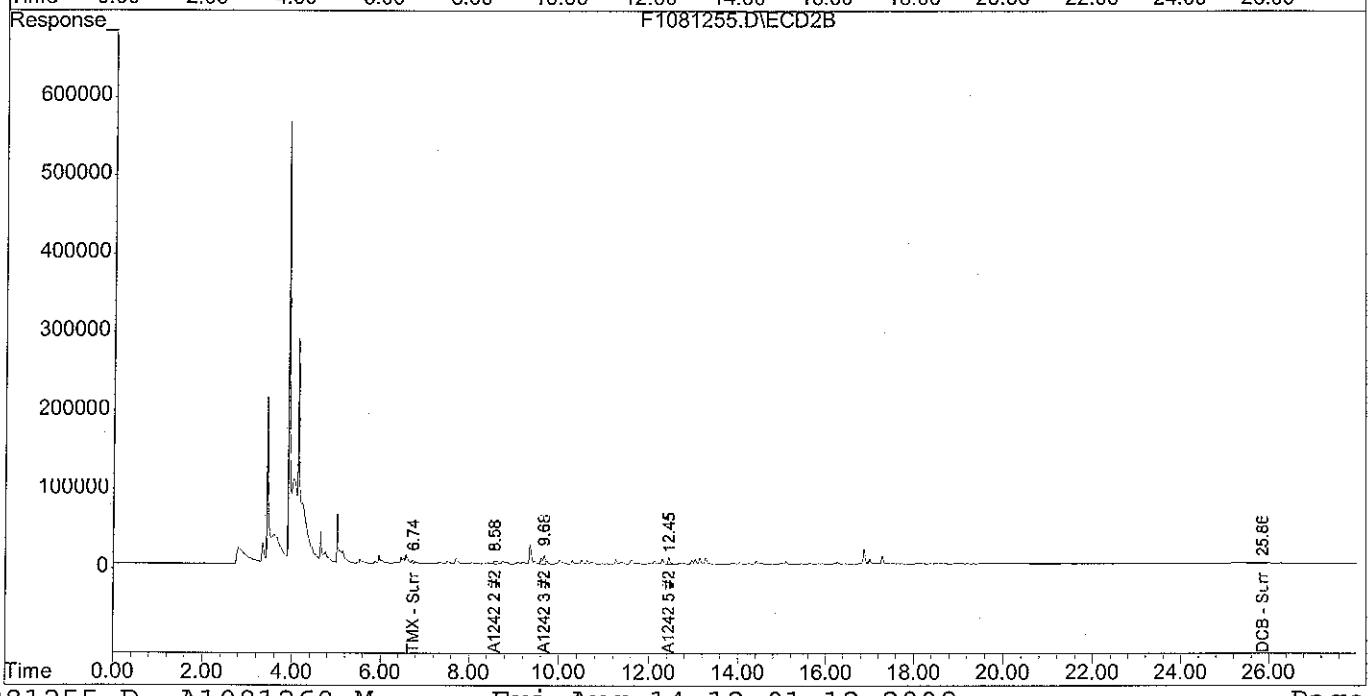
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D\ECD1A.CH Vial: 48
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D\ECD2B.CH
Acq On : 13 Aug 2009 6:14 pm Operator: ECD1:JR
Sample : L0910959-01,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 9:55 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Multiple Level Calibration
DataAcq Meth : A1080760.M

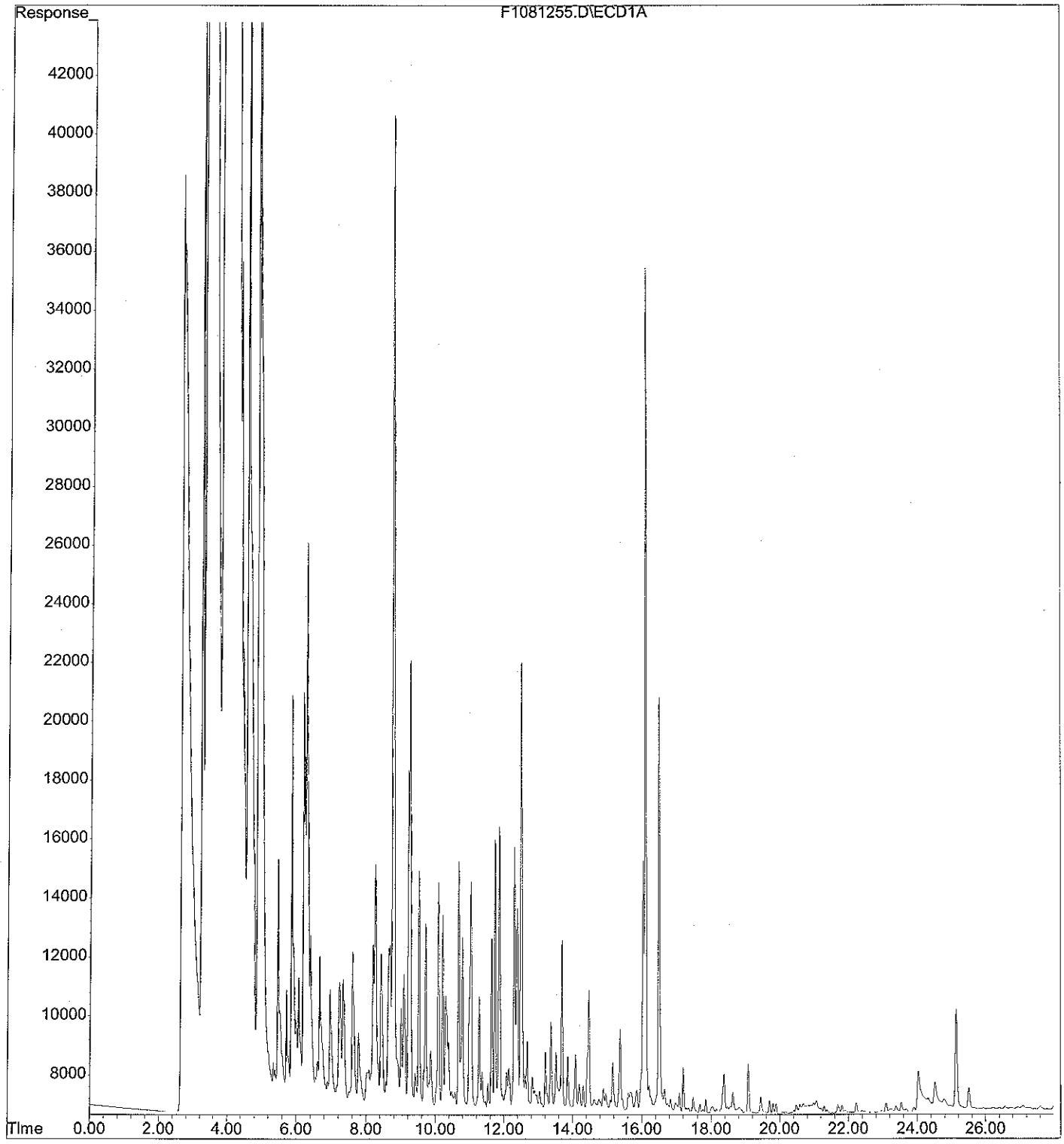
Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25





File : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081255.D
Operator : ECD1:JR
Acquired : 13 Aug 2009 6:14 pm using AcqMethod A1080760.M
Instrument : ECD1-5890
Sample Name: L0910959-01,42,10
Misc Info : WG375455,WG374840
Vial Number: 48

Composite 1-1 thru 1-10



Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D\ECD1A.CH Vial: 49
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D\ECD2B.CH
Acq On : 13 Aug 2009 6:45 pm Operator: ECD1:JR
Sample : L0910959-02,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 10:02 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

8/14/09

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) s	TMX - Surrogate	6.66	6.71	64172	46233	5.502M4	5.544M4
	Spiked Amount 100.000	Range 30 - 150		Recovery =		5.50%#	5.54%#
12) s	DCB - Surrogate	25.14	25.86	134845	114388	9.546	9.519M4
	Spiked Amount 100.000	Range 30 - 150		Recovery =		9.55%#	9.52%#
	Target Compounds						
2) L1	A1016 1	0.00	0.00	0	0	N.D. d	N.D. d
3) L1	A1016 2	0.00	0.00	0	0	N.D. d	N.D. d
4) L1	A1016 3	0.00	0.00	0	0	N.D. d	N.D. d
5) L1	A1016 4	0.00	0.00	0	0	N.D. d	N.D. d
6) L1	A1016 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum	A1016 1			0	0	N.D.	N.D.
Average	A1016 1					0.000	0.000
7) L7	A1260 1	0.00	0.00	0	0	N.D. d	N.D. d
8) L7	A1260 2	0.00	0.00	0	0	N.D. d	N.D. d
9) L7	A1260 3	0.00	0.00	0	0	N.D. d	N.D. d
10) L7	A1260 4	0.00	0.00	0	0	N.D. d	N.D. d
11) L7	A1260 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum	A1260 1			0	0	N.D.	N.D.
Average	A1260 1					0.000	0.000
13) L2	A1221 1	0.00	0.00	0	0	N.D. d	N.D. d
14) L2	A1221 2	0.00	0.00	0	0	N.D. d	N.D. d
15) L2	A1221 3	0.00	0.00	0	0	N.D. d	N.D. d
16) L2	A1221 4	0.00	0.00	0	0	N.D. d	N.D. d
17) L2	A1221 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum	A1221 1			0	0	N.D.	N.D.
Average	A1221 1					0.000	0.000
18) L3	A1232 1	0.00	0.00	0	0	N.D. d	N.D. d
19) L3	A1232 2	0.00	0.00	0	0	N.D. d	N.D. d
20) L3	A1232 3	0.00	0.00	0	0	N.D. d	N.D. d
21) L3	A1232 4	0.00	0.00	0	0	N.D. d	N.D. d
22) L3	A1232 5	0.00	0.00	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D\ECD1A.CH Vial: 49
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D\ECD2B.CH
Acq On : 13 Aug 2009 6:45 pm Operator: ECD1:JR
Sample : L0910959-02,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 10:02 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Sum A1232 1			0	0	N.D.	N.D.
Average A1232 1					0.000	0.000
23) L4 A1242 1	7.33	0.00	103262	0	413.711M4	N.D. d#
24) L4 A1242 2	8.26	8.58	212295	110909	441.326M4	382.147M4
25) L4 A1242 3	9.26	9.68	334751	272123	413.047M4	469.076M4
26) L4 A1242 4	9.51	10.03	125732	107254	342.949M4	412.933M4
27) L4 A1242 5	11.02	0.00	161403	0	428.712M4	N.D. d#
Sum A1242 1			937443	490287	2039.744	1264.156
Average A1242 1					407.949	421.385
28) L5 A1248 1	0.00	0.00	0	0	N.D. d	N.D. d
29) L5 A1248 2	0.00	0.00	0	0	N.D. d	N.D. d
30) L5 A1248 3	0.00	0.00	0	0	N.D. d	N.D. d
31) L5 A1248 4	0.00	0.00	0	0	N.D. d	N.D. d
32) L5 A1248 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1248 1			0	0	N.D.	N.D.
Average A1248 1					0.000	0.000
33) L6 A1254 1	0.00	0.00	0	0	N.D. d	N.D. d
34) L6 A1254 2	0.00	0.00	0	0	N.D. d	N.D. d
35) L6 A1254 3	0.00	0.00	0	0	N.D. d	N.D. d
36) L6 A1254 4	0.00	0.00	0	0	N.D. d	N.D. d
37) L6 A1254 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1254 1			0	0	N.D.	N.D.
Average A1254 1					0.000	0.000
38) L8 A1262 1	0.00	0.00	0	0	N.D. d	N.D. d
39) L8 A1262 2	0.00	0.00	0	0	N.D. d	N.D. d
40) L8 A1262 3	0.00	0.00	0	0	N.D. d	N.D. d
41) L8 A1262 4	0.00	0.00	0	0	N.D. d	N.D. d
42) L8 A1262 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1262 1			0	0	N.D.	N.D.
Average A1262 1					0.000	0.000
43) L9 A1268 1	0.00	0.00	0	0	N.D. d	N.D. d
44) L9 A1268 2	0.00	0.00	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D\ECD1A.CH Vial: 49
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D\ECD2B.CH
Acq On : 13 Aug 2009 6:45 pm Operator: ECD1:JR
Sample : L0910959-02,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 10:02 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

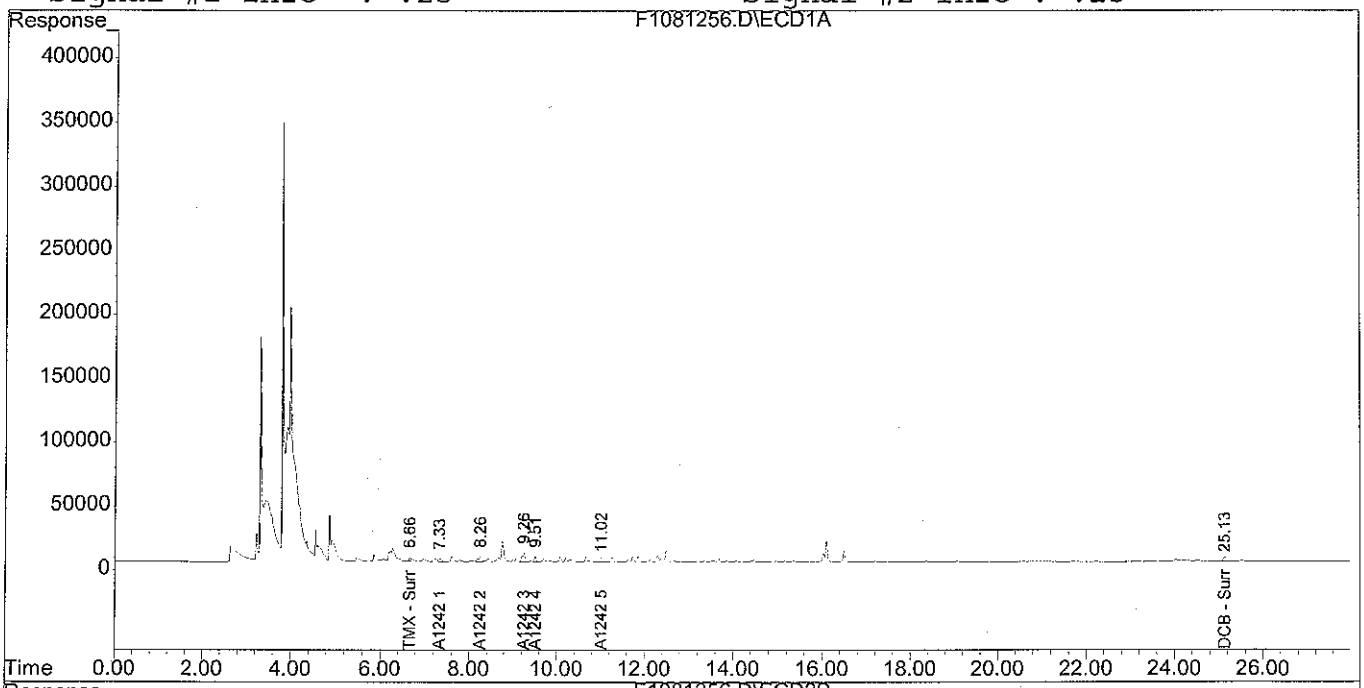
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
45)	L9 A1268 3	0.00	0.00	0	0	N.D. d	N.D. d
46)	L9 A1268 4	0.00	0.00	0	0	N.D. d	N.D. d
47)	L9 A1268 5	0.00	0.00	0	0	N.D. d	N.D. d
	Sum A1268 1			0	0	N.D.	N.D.
	Average A1268 1					0.000	0.000

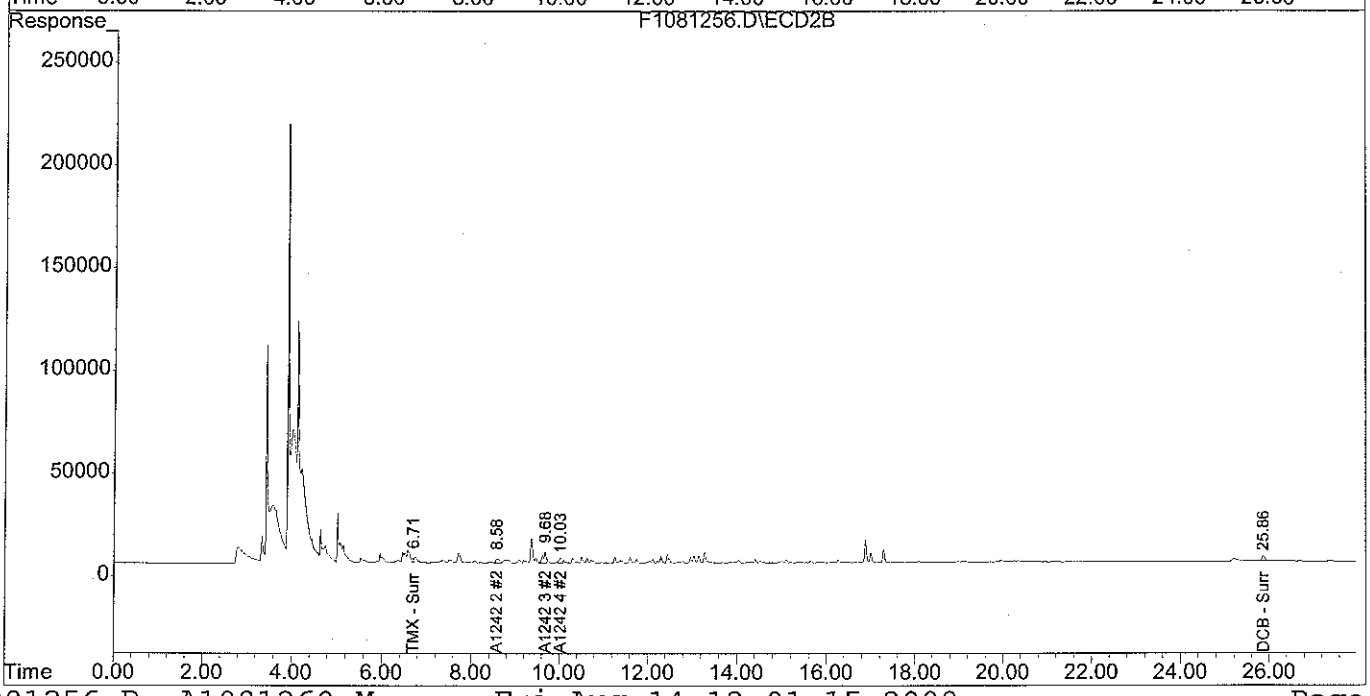
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D\ECD1A.CH Vial: 49
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D\ECD2B.CH
Acq On : 13 Aug 2009 6:45 pm Operator: ECD1:JR
Sample : L0910959-02,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 10:02 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Multiple Level Calibration
DataAcq Meth : A1080760.M

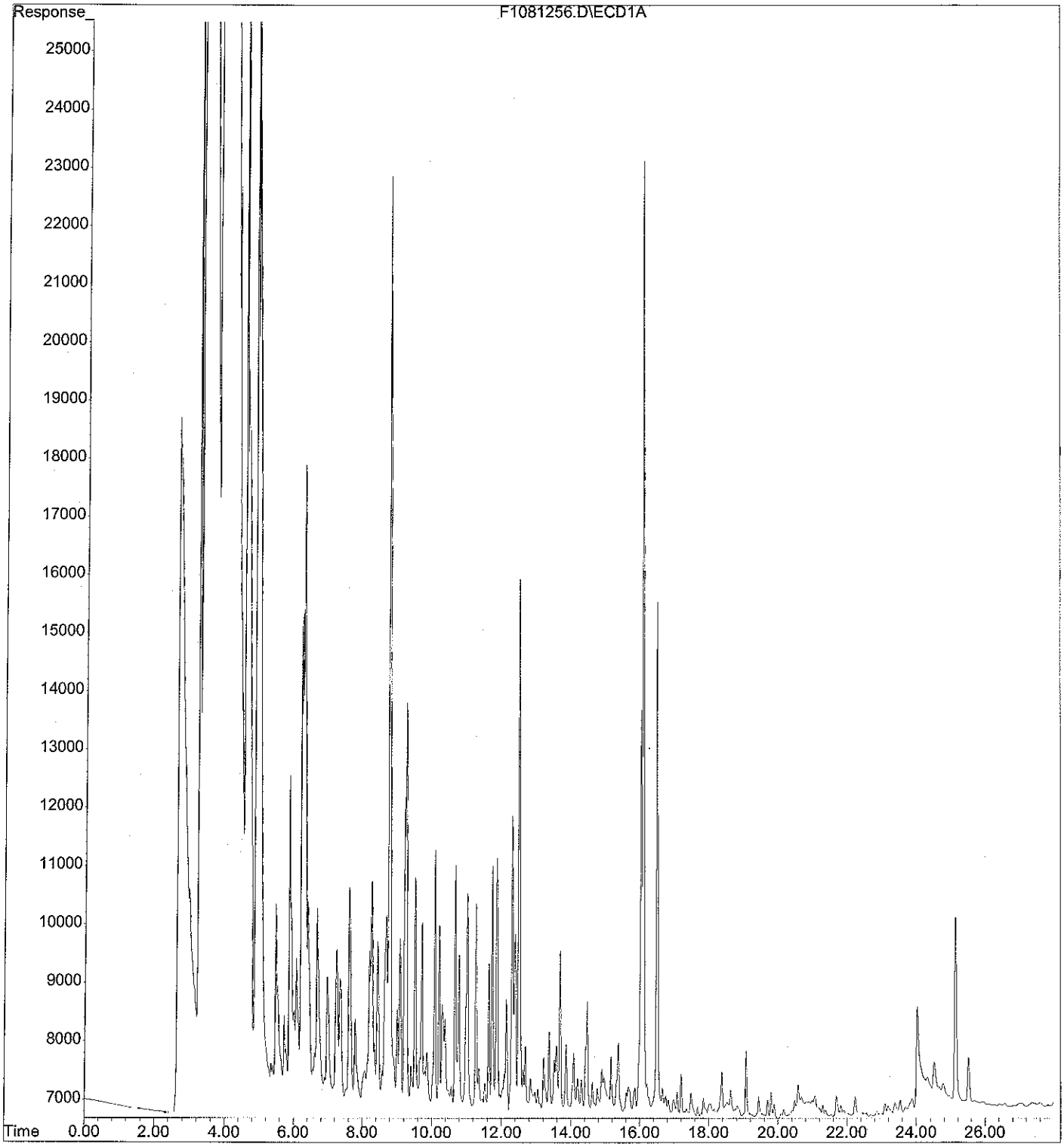
Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25





File : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081256.D
Operator : ECD1:JR
Acquired : 13 Aug 2009 6:45 pm using AcqMethod A1080760.M
Instrument : ECD1-5890
Sample Name: L0910959-02,42,10
Misc Info : WG375455,WG374840
Vial Number: 49

Composite 2-1 thru 2-10



Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D\ECD1A.CH Vial: 50
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D\ECD2B.CH
Acq On : 13 Aug 2009 7:16 pm Operator: ECD1:JR
Sample : L0910959-03,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 10:07 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

8/14/09

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) s	TMX - Surrogate	6.66	6.71	59277	52682	5.169M4	6.217M4
	Spiked Amount 100.000	Range 30 - 150		Recovery =		5.17%#	6.22%#
12) s	DCB - Surrogate	25.14	25.87	137755	113879	9.762	9.475M4
	Spiked Amount 100.000	Range 30 - 150		Recovery =		9.76%#	9.47%#
	Target Compounds						
2) L1	A1016 1	0.00	0.00	0	0	N.D. d	N.D. d
3) L1	A1016 2	0.00	0.00	0	0	N.D. d	N.D. d
4) L1	A1016 3	0.00	0.00	0	0	N.D. d	N.D. d
5) L1	A1016 4	0.00	0.00	0	0	N.D. d	N.D. d
6) L1	A1016 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum	A1016 1			0	0	N.D.	N.D.
Average	A1016 1					0.000	0.000
7) L7	A1260 1	0.00	0.00	0	0	N.D. d	N.D. d
8) L7	A1260 2	0.00	0.00	0	0	N.D. d	N.D. d
9) L7	A1260 3	0.00	0.00	0	0	N.D. d	N.D. d
10) L7	A1260 4	0.00	0.00	0	0	N.D. d	N.D. d
11) L7	A1260 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum	A1260 1			0	0	N.D.	N.D.
Average	A1260 1					0.000	0.000
13) L2	A1221 1	0.00	0.00	0	0	N.D. d	N.D. d
14) L2	A1221 2	0.00	0.00	0	0	N.D. d	N.D. d
15) L2	A1221 3	0.00	0.00	0	0	N.D. d	N.D. d
16) L2	A1221 4	0.00	0.00	0	0	N.D. d	N.D. d
17) L2	A1221 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum	A1221 1			0	0	N.D.	N.D.
Average	A1221 1					0.000	0.000
18) L3	A1232 1	0.00	0.00	0	0	N.D. d	N.D. d
19) L3	A1232 2	0.00	0.00	0	0	N.D. d	N.D. d
20) L3	A1232 3	0.00	0.00	0	0	N.D. d	N.D. d
21) L3	A1232 4	0.00	0.00	0	0	N.D. d	N.D. d
22) L3	A1232 5	0.00	0.00	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D\ECD1A.CH Vial: 50
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D\ECD2B.CH
Acq On : 13 Aug 2009 7:16 pm Operator: ECD1:JR
Sample : L0910959-03,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 10:07 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Sum A1232 1			0	0	N.D.	N.D.
Average A1232 1					0.000	0.000
23) L4 A1242 1	7.36	0.00	144031	0	577.049M4	N.D. d#
24) L4 A1242 2	8.26	8.58	360930	167709	750.314M4	577.855M4
25) L4 A1242 3	9.26	9.68	569597	439368	702.822M4	757.368M4
26) L4 A1242 4	9.51	10.03	196922	169848	537.129M4	653.921M4
27) L4 A1242 5	11.02	12.45	263959	197943	701.116M4	790.026M4
Sum A1242 1			1535440	974869	3268.430	2779.170
Average A1242 1					653.686	694.792
28) L5 A1248 1	0.00	0.00	0	0	N.D. d	N.D. d
29) L5 A1248 2	0.00	0.00	0	0	N.D. d	N.D. d
30) L5 A1248 3	0.00	0.00	0	0	N.D. d	N.D. d
31) L5 A1248 4	0.00	0.00	0	0	N.D. d	N.D. d
32) L5 A1248 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1248 1			0	0	N.D.	N.D.
Average A1248 1					0.000	0.000
33) L6 A1254 1	0.00	0.00	0	0	N.D. d	N.D. d
34) L6 A1254 2	0.00	0.00	0	0	N.D. d	N.D. d
35) L6 A1254 3	0.00	0.00	0	0	N.D. d	N.D. d
36) L6 A1254 4	0.00	0.00	0	0	N.D. d	N.D. d
37) L6 A1254 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1254 1			0	0	N.D.	N.D.
Average A1254 1					0.000	0.000
38) L8 A1262 1	0.00	0.00	0	0	N.D. d	N.D. d
39) L8 A1262 2	0.00	0.00	0	0	N.D. d	N.D. d
40) L8 A1262 3	0.00	0.00	0	0	N.D. d	N.D. d
41) L8 A1262 4	0.00	0.00	0	0	N.D. d	N.D. d
42) L8 A1262 5	0.00	0.00	0	0	N.D. d	N.D. d
Sum A1262 1			0	0	N.D.	N.D.
Average A1262 1					0.000	0.000
43) L9 A1268 1	0.00	0.00	0	0	N.D. d	N.D. d
44) L9 A1268 2	0.00	0.00	0	0	N.D. d	N.D. d

(t)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D\ECD1A.CH Vial: 50
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D\ECD2B.CH
Acq On : 13 Aug 2009 7:16 pm Operator: ECD1:JR
Sample : L0910959-03,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 10:07 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Initial Calibration
DataAcq Meth : A1080760.M

Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25

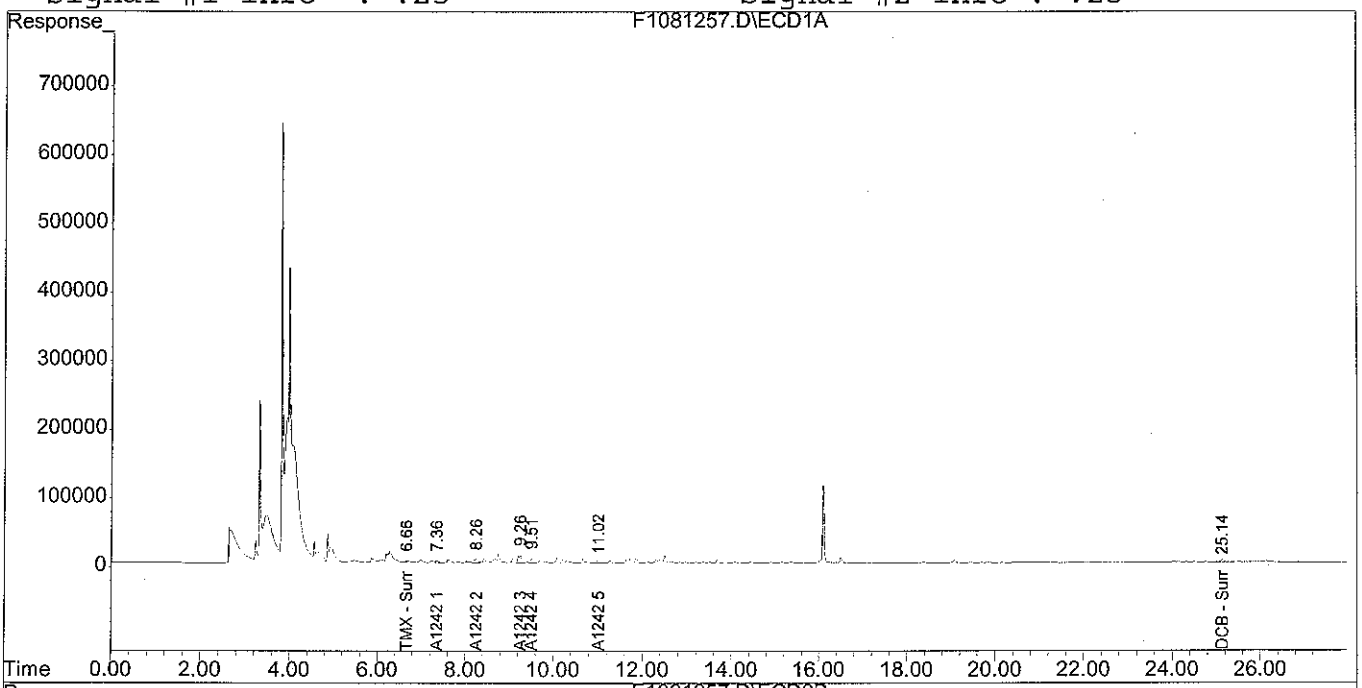
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
45)	L9 A1268 3	0.00	0.00	0	0	N.D. d	N.D. d
46)	L9 A1268 4	0.00	0.00	0	0	N.D. d	N.D. d
47)	L9 A1268 5	0.00	0.00	0	0	N.D. d	N.D. d
	Sum A1268 1			0	0	N.D.	N.D.
Average	A1268 1					0.000	0.000

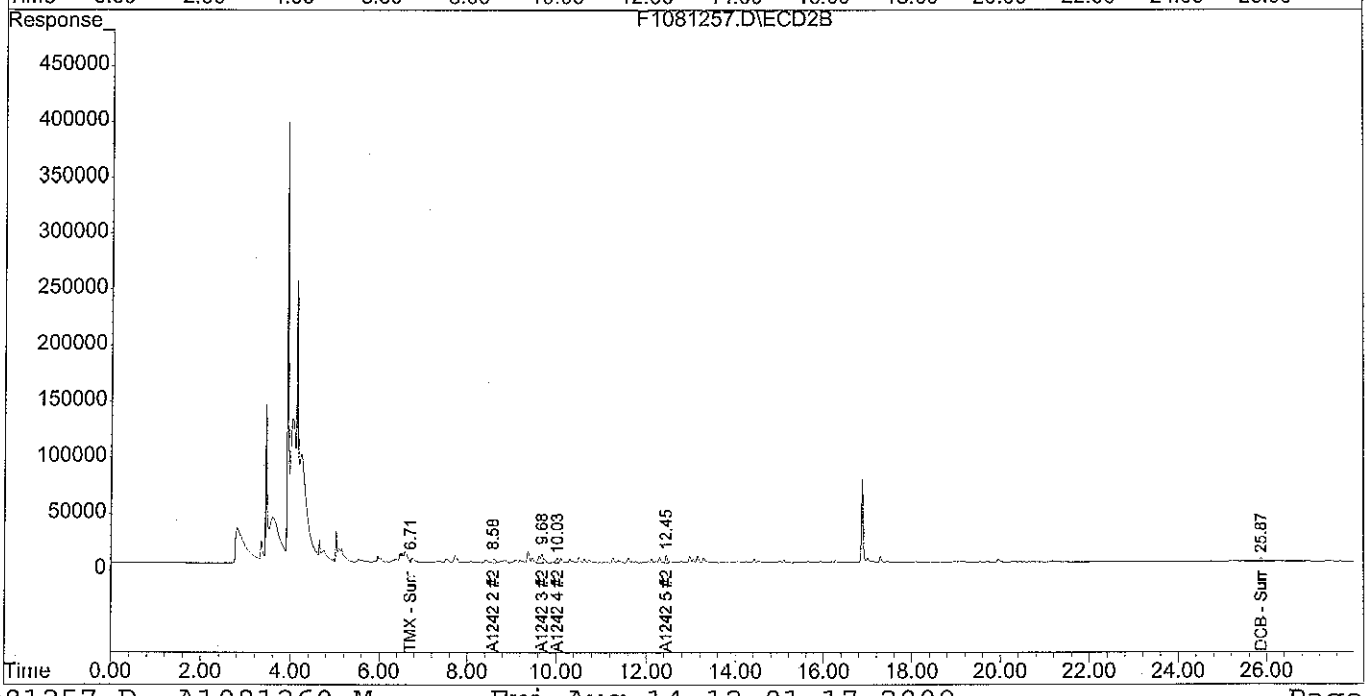
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D\ECD1A.CH Vial: 50
Signal #2 : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D\ECD2B.CH
Acq On : 13 Aug 2009 7:16 pm Operator: ECD1:JR
Sample : L0910959-03,42,10 Inst : ECD1-5890
Misc : WG375455,WG374840 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Aug 14 10:07 2009 Quant Results File: A1081260.RES

Quant Method : C:\HPCHEM\1\METHODS\A1081260.M (Chemstation Integrator)
Title : PCB AROCLORS BY 8082 (5890ECD)
Last Update : Fri Aug 14 09:34:35 2009
Response via : Multiple Level Calibration
DataAcq Meth : A1080760.M

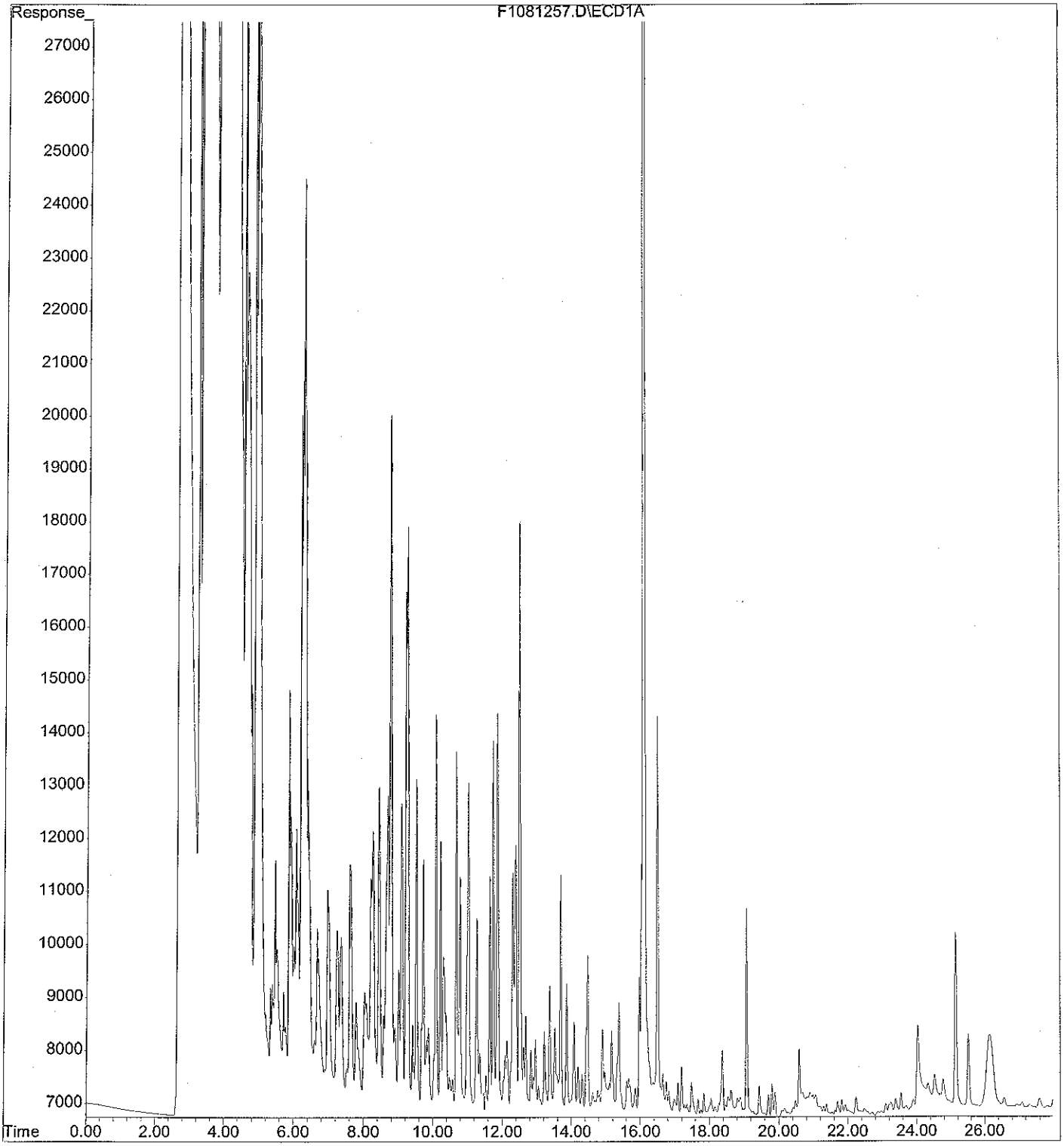
Volume Inj. : 1
Signal #1 Phase : RTX 5 Signal #2 Phase: RTX CLP II
Signal #1 Info : .25 Signal #2 Info : .25





File : C:\HPCHEM\1\DATA\AUG\AUG12A\F1081257.D
Operator : ECD1:JR
Acquired : 13 Aug 2009 7:16 pm using AcqMethod A1080760.M
Instrument : ECD1-5890
Sample Name: L0910959-03,42,10
Misc Info : WG375455,WG374840
Vial Number: 50

Composite 3-1 thru 3-7, 3-9, 3-10



Original Containment Cell (S-1)

All Results

Analytical Report

Work Order: RTE0668

Project Description

BASF Waste Characterization

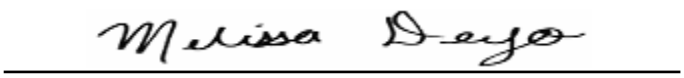
For:

Frank Zeske

AECOM - Latham, NY

40 British American Blvd

Latham, NY 12110



Melissa Deyo For Paul Morrow

Project Manager

melissa.deyo@testamericainc.com

Wednesday, May 19, 2010

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

TestAmerica Buffalo
Current Certifications

As of 04/16/2010

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
North Dakota	CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania*	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington*	NELAP CWA,RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA,RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

For batch 10E0854, the Lab Control Sample did not have spike added during extraction The Sample Matrix Spike and Spike Duplicate for this batch, did however have compliant spike recoveries.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
B1	Analyte was detected in the associated method / calibration blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
D02	Dilution required due to sample matrix effects
D03	Dilution required due to excessive foaming
D07	Dilution required due to the nature of the TCLP matrix
D08	Dilution required due to high concentration of target analyte(s)
HFT	The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M4	The sample required a dilution due to matrix interference. Because of this dilution, the matrix spike concentrations in the sample were reduced to a level where the recovery calculation does not provide useful information. See Blank Spike (LCS).
N1	See case narrative.
QSU	Sulfur (EPA 3660) clean-up performed on extract.
Z3	The sample required a dilution, the surrogate spike concentration in the sample are reduced to a level where the recovery calculation does not provide useful information.
Z5	Due to sample matrix effects, the surrogate recovery was outside acceptance limits. Secondary surrogate recovery was within the acceptance limits.
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE0668-01 (S1 - Solid)						**Sampled: 05/11/10 14:00**		**Recvd: 05/12/10 09:00**		
TCLP Volatile Organic Compounds by EPA Method 1311/8260B										
1,1-Dichloroethene	ND	D08	10	2.9	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
1,2-Dichloroethane	**9.6**	D08,J	10	2.1	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
2-Butanone (MEK)	ND	D08	50	13	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Benzene	**19**	D08	10	4.1	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Carbon Tetrachloride	ND	D08	10	2.7	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Chloroform	ND	D08	10	3.4	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Tetrachloroethene	ND	D08	10	3.6	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Trichloroethene	ND	D08	10	4.6	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
Vinyl chloride	ND	D08	10	9.0	ug/L	10.0	05/14/10 20:57	LH	10E1040	8260B TCLP
1,2-Dichloroethane-d4	*106 %*	*D08*	*Surr Limits: (66-137%)*				*05/14/10 20:57*	*LH*	*10E1040*	*8260B TCLP*
4-Bromofluorobenzene	*87 %*	*D08*	*Surr Limits: (73-120%)*				*05/14/10 20:57*	*LH*	*10E1040*	*8260B TCLP*
Toluene-d8	*95 %*	*D08*	*Surr Limits: (71-126%)*				*05/14/10 20:57*	*LH*	*10E1040*	*8260B TCLP*
TCLP Semivolatile Compounds by EPA Method 1311/8270C										
1,4-Dichlorobenzene	**530**		40	1.8	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
2,4,5-Trichlorophenol	ND		20	1.9	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
2,4,6-Trichlorophenol	ND		20	2.4	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
2,4-Dinitrotoluene	ND		20	1.8	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
2-Methylphenol	ND		20	1.6	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
3 & 4 Methylphenol	**18**	J	40	1.4	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Hexachlorobenzene	ND		20	2.0	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Hexachlorobutadiene	ND		20	2.7	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Hexachloroethane	ND		20	2.4	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Nitrobenzene	**13**	J	20	1.2	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Pentachlorophenol	ND		40	8.8	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
Pyridine	**1.6**	J	100	1.6	ug/L	1.00	05/16/10 20:47	RAR	10E0972	8270C TCLP
2,4,6-Tribromophenol	*109 %*		*Surr Limits: (52-132%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
2-Fluorobiphenyl	*77 %*		*Surr Limits: (48-120%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
2-Fluorophenol	*41 %*		*Surr Limits: (20-120%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
Nitrobenzene-d5	*71 %*		*Surr Limits: (46-120%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
Phenol-d5	*33 %*		*Surr Limits: (16-120%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
p-Terphenyl-d14	*69 %*		*Surr Limits: (24-136%)*				*05/16/10 20:47*	*RAR*	*10E0972*	*8270C TCLP*
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	2700	520	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1221	ND	QSU	2700	520	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1232	ND	QSU	2700	520	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1242	**8400**	QSU	2700	580	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1248	ND	QSU	2700	520	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1254	ND	QSU	2700	560	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1260	ND	QSU	2700	1200	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1262	ND	QSU	2700	560	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Aroclor 1268	ND	QSU	2700	560	ug/kg dry	10.0	05/14/10 17:46	JxM	10E0904	8082
Decachlorobiphenyl	*	*QSU,Z3*	*Surr Limits: (34-148%)*				*05/14/10 17:46*	*JxM*	*10E0904*	*8082*
Tetrachloro-m-xylene	*	*QSU,Z3*	*Surr Limits: (35-134%)*				*05/14/10 17:46*	*JxM*	*10E0904*	*8082*
TCLP Pesticides by EPA Method 1311/8081A										
Chlordane	ND	D08, QSU	40	2.3	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
Endrin	ND	D08, QSU	4.0	1.1	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
gamma-BHC (Lindane)	ND	D08, QSU	4.0	0.48	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

Analytical Report

Sample ID: RTE0668-01 (S1 - Solid) - cont. **Sampled: 05/11/10 14:00** **Recvd: 05/12/10 09:00**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
TCLP Pesticides by EPA Method 1311/8081A - cont.										
Heptachlor	**13**	D08, QSU	4.0	0.68	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
Heptachlor epoxide	**21**	D08, QSU	4.0	0.42	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
Methoxychlor	ND	D08, QSU	4.0	1.1	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
Toxaphene	ND	D08, QSU	40	9.6	ug/L	20.0	05/14/10 17:07	LMW	10E1033	8081 TCLP
Decachlorobiphenyl	*	*D08, QSU,Z3*	*Surr Limits: (15-139%)*				*05/14/10 17:07*	*LMW*	*10E1033*	*8081 TCLP*
Tetrachloro-m-xylene	*	*D08, QSU,Z3*	*Surr Limits: (30-139%)*				*05/14/10 17:07*	*LMW*	*10E1033*	*8081 TCLP*
TCLP Metals										
Arsenic	**0.0172**		0.0100	0.0056	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Barium	**0.849**	B, B1	0.0020	0.0003	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Cadmium	**0.0147**		0.0010	0.0003	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Chromium	**0.0209**		0.0040	0.0009	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Lead	**0.0678**		0.0050	0.0030	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Silver	ND		0.0030	0.0012	mg/L	1.00	05/14/10 14:42	DAN	10E0966	6010B TCLP
Mercury	**0.0002**		0.0002	0.0001	mg/L	1.00	05/13/10 16:38	MXM	10E0984	7470A TCLP
General Chemistry Parameters										
Percent Solids	**71**		0.010	NR	%	1.00	05/13/10 13:44	JRR	10E0960	Dry Weight
pH	**8.35**		NA	0.00	SU	1.00	05/13/10 14:30	RMB	10E1025	9045
HCN Released From Waste	ND		10.0	0.0030	mg/kg	1.00	05/15/10 10:01	RJP	10E1202	Section 7.3
Flashpoint	**>176**		50.0	50.0	°F	1.00	05/14/10 13:47	JLN	10E1130	1010
H2S Released From Waste	**80.2**		10.0	0.6	mg/kg	1.00	05/14/10 09:30	RJP	10E1119	Section 7.3

AECOM - Latham, NY
40 British American Blvd
Latham, NY 12110

Work Order: RTE0668

Project: BASF Waste Characterization
Project Number: [none]

Received: 05/12/10
Reported: 05/19/10 09:24

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE0668-01RE1 (S1 - Solid)						**Sampled: 05/11/10 14:00**		**Recvd: 05/12/10 09:00**		
TCLP Volatile Organic Compounds by EPA Method 1311/8260B										
Chlorobenzene	**3200**	D08	50	38	ug/L	50.0	05/15/10 00:37	LH	10E1040	8260B TCLP
1,2-Dichloroethane-d4	*103 %*	*D08*	*Surr Limits: (66-137%)*				*05/15/10 00:37*	*LH*	*10E1040*	*8260B TCLP*
4-Bromofluorobenzene	*88 %*	*D08*	*Surr Limits: (73-120%)*				*05/15/10 00:37*	*LH*	*10E1040*	*8260B TCLP*
Toluene-d8	*98 %*	*D08*	*Surr Limits: (71-126%)*				*05/15/10 00:37*	*LH*	*10E1040*	*8260B TCLP*
TCLP Herbicides by EPA Method 1311/8151A										
2,4-D [2C]	ND		2.0	1.6	ug/L	1.00	05/18/10 12:08	MAN	10E1201	8151A TCLP
Silvex (2,4,5-TP) [2C]	ND		2.0	1.4	ug/L	1.00	05/18/10 12:08	MAN	10E1201	8151A TCLP
2,4-Dichlorophenylacetic acid [2C]	*20 %*		*Surr Limits: (19-128%)*				*05/18/10 12:08*	*MAN*	*10E1201*	*8151A TCLP*

Original Containment Cell (S1-2)

Heptachlor Revised

AECOM
250 Apollo Drive
Chelmsford, MA 01824

978-905-52269 tel
robert.kennedy@aecom.com email

Memorandum

To	Casella Waste Services	Page	1 of 1
CC	Sean Crowell		
Subject	TCLP Results for BASF-Rensselaer Sample S-1		
From	Robert Kennedy		
Date	June 1, 2012		

Sample S-1 from the BASF-Rensselaer site was originally submitted to the TestAmerica laboratory facility in Latham, NY for waste characterization including TCLP per EPA Method 1311 and 8081 for pesticides in TCLP leachate. Detections of heptachlor at 13 ug/L and heptachlor epoxide at 21 ug/L were reported on May 16, 2010 (Work Order RTE0668). It was suspected by AECOM that these results were false positives caused by the presence on chlorinated biphenyl congeners that eluted at the expected retention times for these pesticides on the primary and confirmatory columns recommended by EPA Method 8081. The electron capture detector used to quantify pesticides per EPA 8081 is susceptible to interference by other chlorinated compounds and PCBs are known potential interferents for some pesticides.

In order to confirm the pesticides were *not* present in the leachate, AECOM collected an additional sample on July 16, 2010 at the S-1 location and submitted it to Columbia Analytical Services in Kelso, WA for the TCLP preparation procedure and analysis by GC/MS/MS. This tandem MS analytical technique is much more sensitive and selective, using three sets of quadrupole mass spectrometers to isolate signals from only the target analytes of interest and eliminate all interferences. Results of this new analysis were reported on September 3, 2010 (Laboratory Report K1007400) and no organochlorine pesticides were detected. The reporting limits for heptachlor and heptachlor epoxide were 0.001 ug/L, confirming the previous by EPA Method 8081 were false positives.

Sincerely yours,

Robert Kennedy

Robert Kennedy

Senior Project Chemist

Columbia Analytical Services, Inc.
1317 S. 13th Avenue, Kelso, WA 98626 360.577.7222 360.636.1068 (fax) www.caslab.com

September 14, 2010 Analytical Report for Service Request No: K1007400

Sean Crowell
AECOM Environment
2 Technology Park Drive
Westford, MA 01886

RE: BASF/60135965 450

Dear Sean:

Enclosed are the revised report pages for the samples submitted to our laboratory on July 17, 2010. For your reference, these analyses have been assigned our service request number K1007400.

The matrix was changed to soil to reflect the nature of the parent sample.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace
Project Chemist

EW/lb

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	AECOM	**Service Request:**	K1007400
Project:	BASF/60135965 450		

Cover Page - Organic Analysis Data Package
Chlorinated Pesticides by HRGC/MS/MS

Sample Name	Lab Code	Date Collected	Date Received
S1-2	K1007400-002	07/16/2010	07/17/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Carl Dagen

Date: 9/2/10 Title: Env Engineer

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1007400
Project:	BASF/60135965 450	**Date Collected:**	07/16/2010
Sample Matrix:	Soil	**Date Received:**	07/17/2010

Chlorinated Pesticides by HRGC/MS/MS

Sample Name:	S1-2	**Units:**	ng/L
Lab Code:	K1007400-002	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	CAS SOC-PESTMS2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
gamma-BHC (Lindane)	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
beta-BHC	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
delta-BHC	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Hexachlorobenzene	**5.8**		0.50	1	07/23/10	08/20/10	KWG1008193	
Heptachlor	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	*
Chlorpyrifos	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Aldrin	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Octachlorostyrene	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Isodrin	ND	U	2.0	1	07/23/10	08/20/10	KWG1008193	
Oxychlordane	ND	U	2.0	1	07/23/10	08/20/10	KWG1008193	
Heptachlor Epoxide	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
2,4'-DDE	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
gamma-Chlordane	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
alpha-Chlordane	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
trans-Nonachlor	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Endosulfan I	ND	U	2.0	1	07/23/10	08/20/10	KWG1008193	
4,4'-DDE	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
2,4'-DDD	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Dieldrin	ND	U	5.0	1	07/23/10	08/20/10	KWG1008193	
Endrin	ND	U	2.0	1	07/23/10	08/20/10	KWG1008193	
2,4'-DDT	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	*
cis-Nonachlor	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
4,4'-DDD	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Endosulfan II	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Endrin Aldehyde	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
4,4'-DDT	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	*
Endosulfan Sulfate	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Methoxychlor	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	*
Endrin Ketone	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Mirex	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	

* See Case Narrative

Comments:

Client: AECOM
Project: BASF/60135965 450
Sample Matrix: Soil

Service Request: K1007400
Date Collected: 07/16/2010
Date Received: 07/17/2010

Chlorinated Pesticides by HRGC/MS/MS

Sample Name: S1-2
Lab Code: K1007400-002

Units: ng/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
S_GBHCD6	135	5-124	08/20/10	Outside Control Limits
S_HXCBZ13C6	86	5-120	08/20/10	Acceptable
S_Heptachlor-13C10	217	5-128	08/20/10	Outside Control Limits
S_Chlorpyrifos-d10	97	5-200	08/20/10	Acceptable
S_Aldrin-13C12	84	5-126	08/20/10	Acceptable
S_Oestyrene13C8	80	5-120	08/20/10	Acceptable
S_Isodrin-13C12	114	5-120	08/20/10	Acceptable
S_Oxychlordane-13C10	108	5-144	08/20/10	Acceptable
S_Heptachlrepox13C10	81	8-146	08/20/10	Acceptable
S_Endrin-13C12	118	20-157	08/20/10	Acceptable
S_4,4'DDD-d4	86	5-120	08/20/10	Acceptable
S_4,4'-DDT-d4	188	13-200	08/20/10	Acceptable
S_Mxchlord14	142	8-200	08/20/10	Acceptable
S_Endrinket13C12	92	5-120	08/20/10	Acceptable
S_Mirex-13C10	72	5-138	08/20/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1007400
Project:	BASF/60135965 450	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Chlorinated Pesticides by HRGC/MS/MS

Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KWG1008193-3	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	CAS SOC-PESTMS2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
gamma-BHC (Lindane)	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
beta-BHC	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
delta-BHC	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Hexachlorobenzene	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Heptachlor	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Chlorpyrifos	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Aldrin	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Octachlorostyrene	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Isodrin	ND	U	2.0	1	07/23/10	08/20/10	KWG1008193	
Oxychlordane	ND	U	2.0	1	07/23/10	08/20/10	KWG1008193	
Heptachlor Epoxide	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
2,4'-DDE	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
gamma-Chlordane	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
alpha-Chlordane	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
trans-Nonachlor	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Endosulfan I	ND	U	2.0	1	07/23/10	08/20/10	KWG1008193	
4,4'-DDE	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
2,4'-DDD	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Dieldrin	ND	U	5.0	1	07/23/10	08/20/10	KWG1008193	
Endrin	ND	U	2.0	1	07/23/10	08/20/10	KWG1008193	
2,4'-DDT	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
cis-Nonachlor	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
4,4'-DDD	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Endosulfan II	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Endrin Aldehyde	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
4,4'-DDT	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Endosulfan Sulfate	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Methoxychlor	ND	U	0.50	1	07/23/10	08/20/10	KWG1008193	
Endrin Ketone	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	
Mirex	ND	U	1.0	1	07/23/10	08/20/10	KWG1008193	

Comments:

Client: AECOM
Project: BASF/60135965 450
Sample Matrix: Soil

Service Request: K1007400
Date Collected: NA
Date Received: NA

Chlorinated Pesticides by HRGC/MS/MS

Sample Name: Method Blank
Lab Code: KWG1008193-3

Units: ng/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
S_GBHCD6	91	5-124	08/20/10	Acceptable
S_HXCBZ13C6	64	5-120	08/20/10	Acceptable
S_Heptachlor-13C10	108	5-128	08/20/10	Acceptable
S_Chlorpyrifos-d10	96	5-200	08/20/10	Acceptable
S_Aldrin-13C12	72	5-126	08/20/10	Acceptable
S_Oestyrene13C8	64	5-120	08/20/10	Acceptable
S_Isodrin-13C12	73	5-120	08/20/10	Acceptable
S_Oxychlordane-13C10	99	5-144	08/20/10	Acceptable
S_Heptachlrepox13C10	100	8-146	08/20/10	Acceptable
S_Endrin-13C12	101	20-157	08/20/10	Acceptable
S_4,4'DDD-d4	85	5-120	08/20/10	Acceptable
S_4,4'-DDT-d4	90	13-200	08/20/10	Acceptable
S_Mxchlord14	102	8-200	08/20/10	Acceptable
S_Endrinket13C12	96	5-120	08/20/10	Acceptable
S_Mirex-13C10	61	5-138	08/20/10	Acceptable

Comments:

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC (1)

Client / Project: Aecom Earth Tech Service Request K10 07400

Received: 7/17/10 Opened: 7/17/10 By: Jon

1. Samples were received via? *Mail* (*Fed Ex*) *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 Front 1 side

If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID (NA)	Tracking Number (NA)	Filed
8.1	8.7	265			

7. Packing material used. *Inserts* *Baggies* (*Bubble Wrap*) *Gel Packs* (*Wet Ice* - melted) *Sleeves* *Other* _____

8. Were custody papers properly filled out (ink, signed, etc.)?	NA	(Y)	N
9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.*	NA	(Y)	N
10. Were all sample labels complete (i.e analysis, preservation, etc.)?	NA	(Y)	N
11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.*	NA	(Y)	N
12. Were appropriate bottles/containers and volumes received for the tests indicated?	NA	(Y)	N
13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below*	(NA)	Y	N
14. Were VOA vials received without headspace? *Indicate in the table below.*	(NA)	Y	N
15. Was C12/Res negative?	(NA)	Y	N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time
All samples		X							JJ	

Notes, Discrepancies, & Resolutions: _____

Page 1 of _____

CHAIN OF CUSTODY

Columbia Analytical Services

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: K1007400

PAGE 1 OF 1 COC #

PROJECT NAME: BASF
PROJECT NUMBER: 60135965 450
PROJECT MANAGER: Sean Crowell
COMPANY/ADDRESS: AECOM
2 Technology Park Dr.
CITY/STATE/ZIP: Westford MA 01886
E-MAIL ADDRESS: Sean.crowell@aecom.com
PHONE #: 978-589-3165 FAX #:
SAMPLER'S SIGNATURE: Steve Gray

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐	BTEX ☐ 8021 ☐	Fuel Fingerprint (FIQ) ☐ NW-HCID ☐	Oil & Grease/TRPH 1664 HEM ☐	1664 SGT ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics Tri ☐ Tetra ☐ - 8151M PCP ☐	PAHS 8310 ☐ SIM ☐	Metals, Total or Dissolved (See list below)	Cyanide ☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐	TCLP pesticides by GC/MS/MS				REMARKS
S1-2	7/16/10	8:10		Soil	2																		X				

8

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. #
Bill To:

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
___ Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Steve Gray	0840		
Signature	Signature	Signature	Signature
7/16/10 11:00	7/17/10		
Date/Time	Date/Time	Date/Time	Date/Time
Steve Gray	John Jones		
Printed Name	Printed Name	Printed Name	Printed Name
AECOM	CAS		
Firm	Firm	Firm	Firm

Treatment Cells (TC1A, TC-3A1, TC-4A1)

Total Data Package

Columbia Analytical Services™ 1317 S. 13th Avenue, Kelso, WA 98626 360.577.7222 360.636.1068 (fax) www.caslab.com

January 24, 2011 Analytical Report for Service Request No: K1014072

Sean Crowell
AECOM Environment
2 Technology Park Drive
Westford, MA 01886

RE: BASF/ Rensselaer/60135965.451

Dear Sean:

Enclosed are the results of the samples submitted to our laboratory on December 17, 2010. For your reference, these analyses have been assigned our service request number K1014072.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Ed Wallace
Project Chemist

EW/dlm

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value that was detected outside the quantitation range.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value that was detected outside the quantitation range.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value that was detected outside the quantitation range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	AECOM	**Service Request No.:**	K1014072
Project:	BASF/Rensselaer	**Date Received:**	12/17/10
Sample Matrix:	Soil		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Twenty-two soil samples were received for analysis at Columbia Analytical Services on 12/17/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Total Sulfide by EPA Method 9030M:
The Relative Percent Difference (RPD) for the replicate analysis of Total Sulfide in sample TC-1A was outside the normal CAS control limits. The variability in the results was attributed to the heterogeneous character of the sample. Standard mixing techniques were used, but were not sufficient for complete homogenization of this sample.

pH by EPA Method 9045D:
In accordance with the 2007 EPA Methods Update Rule published in the Federal Register, the holding time for pH is 15 minutes from sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

TCLP Metals

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Mercury for sample TC-3A1 were not applicable. The analyzed concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Total Metals

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Mercury for sample TC-1A were not applicable. The analyzed concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Diesel Range Organics by EPA Method 8015B

Surrogate Exceptions:

Approved by EKW Date 2/2/11

The control criteria for o-Terphenyl in samples TC-3A1, TC-4A1, and TC-1A was not applicable. The analysis of the samples required a dilution, which resulted in a surrogate concentration below the reporting limit. No further corrective action was appropriate.

TCLP Volatiles by EPA Method 1311/8260B

No anomalies with the analysis of these samples were observed.

Volatile Organic Compounds by EPA Method 8260B

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike and duplicate matrix spike recovery of 1,2-Dichlorobenzene for samples TC-2AMS KWG1014271-4 and TC-2ADMS KWG1014271-5 was not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

The matrix spike recovery of 1,2,4-Trichlorobenzene for sample TC-2AMS KWG1014271-4 was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicated the analytical batch was in control. The matrix spike outlier suggested a potential high bias in this matrix. No further corrective action was appropriate.

Lab Control Sample Exceptions:
The lower control criterion of 72% was exceeded for Carbon Tetrachloride at 71% in Laboratory Control Sample (LCS) KWG1014271-1 and Duplicate Laboratory Control Sample (DLCS) KWG1014271-2. Carbon Tetrachloride is a control compound. The samples were analyzed against the failed LCS in order to meet hold times. The analyte in question was not detected in the field samples analyzed against this LCS. The error associated with reduced recovery indicated a potential low bias.

Elevated Detection Limits:
Several samples required further dilution than the normal mid-level dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

Sample Notes and Discussion:
The samples were not analyzed for the client requested CLP analytes. Samples were being analyzed on hold and without prior notice of the requested CLP analytes, a calibration could not be performed in order to have the samples analyzed within hold times.

Organochlorine Pesticides after TCLP Extraction by EPA Method 8270C (GC/MS/MS)

Surrogate Exceptions:
The control criteria were exceeded for Heptachlor-13C10 in samples TC-3A1 and TC-4A1 due to matrix interference. The presence of non-target background components prevented adequate resolution of the surrogate. Accurate quantitation was not possible. No further corrective action was appropriate.

Sample Notes and Discussion:
A Matrix Spike/Matrix Spike Duplicate (MS/MSD) was not extracted with this sample batch. A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for these samples.

Semivolatile Organic Compounds by EPA Method 8270C

Surrogate Exceptions:
The control criteria were exceeded for various surrogates in all field samples and associated matrix spike samples due to matrix interference. The presence of non-target background components prevented adequate resolution of the surrogate. Accurate quantitation was not possible. No further corrective action was appropriate.

Approved by E.M.W **Date** 2/2/11

Internal Standard Exceptions:
The internal standard recovery of Naphthalene-d8 in sample TC-3A1DMS was outside control criteria because of suspected matrix interference. The extract was reanalyzed at a dilution. The internal standard in question was within control criteria in the diluted analysis. All affected analytes were reported from the diluted analysis.

Matrix Spike Recovery Exceptions:
The matrix spike recovery of various analytes for sample TC-3A1 was outside control criteria because of suspected matrix interference. A matrix spike duplicate was also analyzed, but produced similar results. The results of the original analysis were reported. No further corrective action was appropriate.

Lab Control Sample Exceptions:
The advisory criterion was exceeded for various analytes in the replicate Laboratory Control Samples (LCS/DLCS) KWG1014244-3 and KWG1014244-4. As per the CAS/Kelso Standard Operating Procedure (SOP) for this method, these compounds are not included in the subset of analytes used to control the analysis. The recovery information reported for these analytes is for advisory purposes only (i.e. to provide additional detail related to the performance of each individual compound). No further corrective action was required.

The recoveries of Benzaldehyde, Caprolactam, and Atrazine in the replicate Laboratory Control Samples (LCS/DLCS) KWG1014244-3 and KWG1014244-4 were outside the control limits listed in the results summary. The limits are default values temporarily in use until sufficient data points are generated to calculate statistical control limits. Based on the method and historic data, the recoveries observed were in the range expected for this procedure. No further corrective action was taken.

Elevated Detection Limits:
The detection limits for all samples were elevated due to the sample extracts not being able to be concentrated to the final volume necessary to achieve target detection limits. The detection limit were further elevated for Fluorene in all samples. The chromatograms indicated the presence of non-target background components. The matrix interference prevented adequate resolution of the target compound at the normal limit. The results were flagged to indicate the matrix interference.

Sample Notes and Discussion:
The results reported for 2-Methylnaphthalene and 3,3'-Dichlorobenzidine in samples all samples may contain a slight bias. The chromatogram indicated the presence of non-target background components. The matrix interference may have resulted in a slight high bias in the affected samples. The results were flagged with "X" to indicate the issue.

TCLP Semivolatiles by EPA Method 1311/8270C

No anomalies with the analysis of these samples were observed.

Approved by EMW **Date** 2/2/11

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010
Date Analyzed: 12/21/2010

Duplicate Sample Summary
Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
TC-1A	K1014072-001	72.6	72.7	72.7	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/10
Sample Matrix:	Soil	**Date Received:**	12/17/10
		Units:	deg C
Analysis Method:	1020A Modified	**Basis:**	As Received

Flash Point

Sample Name	Lab Code	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
TC-1A	K1014072-001	>110		-		1	NA	12/21/10 04:00	
TC-3A1	K1014072-003	>110		-		1	NA	12/21/10 04:00	
TC-4A1	K1014072-004	>110		-		1	NA	12/21/10 04:00	

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/10
Date Received: 12/17/10
Date Analyzed: 12/21/10

Replicate Sample Summary
General Chemistry Parameters

Sample Name: TC-4A1
Lab Code: K1014072-004

Units: deg C
Basis: As Received

Analyte Name	Method	MRL	MDL	Sample Result	TC-4A1DUP Duplicate Sample K1014072-004DUP2 Result	Average	RPD	RPD Limit
Flash Point	1020A Modified			>110	>110	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Analyzed: 12/21/10

Lab Control Sample Summary
General Chemistry Parameters

Units: deg C
Basis: As Received

Analyte Name	Method	Lab Control Sample K1014072-LCS Result	Spike Amount	% Rec	% Rec Limits
Flash Point	1020A Modified	28.0	27.0	104	85 - 115

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/10
Sample Matrix:	Soil	**Date Received:**	12/17/10
Prep Method:	EPA 9030B Modified	**Units:**	mg/Kg
Analysis Method:	9030M	**Basis:**	Dry

Sulfide, Total

Sample Name	Lab Code	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
TC-1A	K1014072-001	**59**		14	6	20	12/18/10	12/18/10 19:07	
TC-3A1	K1014072-003	**0.37**	J	0.67	0.27	1	12/18/10	12/18/10 19:07	
TC-4A1	K1014072-004	**1.50**		0.75	0.30	1	12/18/10	12/18/10 19:07	
Method Blank	K1014072-MB	ND	U	0.50	0.20	1	12/18/10	12/18/10 19:07	

Columbia Analytical Services

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Project Name: BASF/ Rensselaer
Project No.: 60135965.451

Service Request: K1014072

Sample Name:	Lab Code:
TC-1A	K1014072-001
TC-1AD	K1014072-001D
TC-1AS	K1014072-001S
TC-3A1	K1014072-003
TC-4A1	K1014072-004
Method Blank	K1014072-MB

Comments:

Approved By: SC **Date:** 1/14/11

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Project No.: 60135965.451
Project Name: BASF/ Rensselaer
Matrix: SOIL

Service Request: K1014072
Date Collected: 12/16/10
Date Received: 12/17/10
Units: mg/Kg
Basis: DRY

Sample Name: TC-1A
Lab Code: K1014072-001

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	2.3	1.0	2.0	12/20/10	12/22/10	32.4		
Barium	6010B	0.57	0.07	2.0	12/20/10	12/22/10	127		
Cadmium	6010B	0.11	0.05	2.0	12/20/10	12/22/10	3.99		
Chromium	6010B	0.6	0.2	2.0	12/20/10	12/22/10	159		
Lead	6010B	2.3	0.5	2.0	12/20/10	12/22/10	211		
Mercury	7471A	1.39	0.139	100.0	12/22/10	12/27/10	9.75		
Selenium	6010B	4.6	0.8	2.0	12/20/10	12/22/10	1.7	J	
Silver	6010B	0.6	0.2	2.0	12/20/10	12/22/10	1.0		

% Solids: 72.6

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Project No.: 60135965.451
Project Name: BASF/ Rensselaer
Matrix: SOIL

Service Request: K1014072
Date Collected: 12/16/10
Date Received: 12/17/10
Units: mg/Kg
Basis: DRY

Sample Name: TC-3A1 **Lab Code:** K1014072-003

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	2.2	1.0	2.0	12/20/10	12/22/10	48.4		
Barium	6010B	0.54	0.07	2.0	12/20/10	12/22/10	146		
Cadmium	6010B	0.11	0.04	2.0	12/20/10	12/22/10	3.85		
Chromium	6010B	0.5	0.2	2.0	12/20/10	12/22/10	146		
Lead	6010B	2.2	0.4	2.0	12/20/10	12/22/10	240		
Mercury	7471A	1.68	0.168	100.0	12/22/10	12/27/10	34.3		
Selenium	6010B	4.3	0.8	2.0	12/20/10	12/22/10	1.6	J	
Silver	6010B	0.5	0.2	2.0	12/20/10	12/22/10	0.8		

% Solids: 75.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Project No.: 60135965.451
Project Name: BASF/ Rensselaer
Matrix: SOIL

Service Request: K1014072
Date Collected: 12/16/10
Date Received: 12/17/10
Units: mg/Kg
Basis: DRY

Sample Name: TC-4A1 **Lab Code:** K1014072-004

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	2.5	1.1	2.0	12/20/10	12/22/10	39.1		
Barium	6010B	0.61	0.07	2.0	12/20/10	12/22/10	134		
Cadmium	6010B	0.12	0.05	2.0	12/20/10	12/22/10	1.89		
Chromium	6010B	0.6	0.2	2.0	12/20/10	12/22/10	116		
Lead	6010B	2.5	0.5	2.0	12/20/10	12/22/10	166		
Mercury	7471A	1.02	0.102	100.0	12/22/10	12/27/10	13.7		
Selenium	6010B	4.9	0.9	2.0	12/20/10	12/22/10	2.2	J	
Silver	6010B	0.6	0.2	2.0	12/20/10	12/22/10	0.4	J	

% Solids: 66.8

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Project No.: 60135965.451
Project Name: BASF/ Rensselaer
Matrix: SOIL

Service Request: K1014072
Date Collected:
Date Received:
Units: mg/Kg
Basis: DRY

Sample Name: Method Blank
Lab Code: K1014072-MB

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	2.0	0.9	2.0	12/20/10	12/22/10	0.9	U	
Barium	6010B	0.50	0.06	2.0	12/20/10	12/22/10	0.06	U	
Cadmium	6010B	0.10	0.04	2.0	12/20/10	12/22/10	0.04	U	
Chromium	6010B	0.5	0.2	2.0	12/20/10	12/22/10	0.2	U	
Lead	6010B	2.0	0.4	2.0	12/20/10	12/22/10	0.4	U	
Mercury	7471A	0.020	0.002	1.0	12/22/10	12/27/10	0.002	U	
Selenium	6010B	4.0	0.7	2.0	12/20/10	12/22/10	0.9	J	
Silver	6010B	0.5	0.2	2.0	12/20/10	12/22/10	0.2	U	

% Solids: 100.0

Comments:

Columbia Analytical Services

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Project Name: BASF/ Rensselaer
Project No.: 60135965.451

Service Request: K1014072

Sample Name:	Lab Code:
TC-1A	K1014072-001
TC-1AD	K1014072-001D
TC-1AS	K1014072-001S
TC-3A1	K1014072-003
TC-3A1D	K1014072-003D
TC-3A1S	K1014072-003S
TC-4A1	K1014072-004
Method Blank 1	K1014072-MB1
Method Blank 2	K1014072-MB2

Comments:

Approved By: 3C **Date:** 1/14/11

TCLP Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	AECOM	**Service Request:**	K1014072
Project No.:	60135965.451	**Date Collected:**	12/16/10
Project Name:	BASF/ Rensselaer	**Date Received:**	12/17/10
Matrix:	TCLP	**Units:**	mg/L
		Basis:	NA

Sample Name: TC-1A **Lab Code:** K1014072-001

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	0.10	0.01	1.0	12/21/10	12/27/10	0.04	J	
Barium	6010B	1.00	0.30	1.0	12/21/10	12/27/10	1.01		
Cadmium	6010B	0.010	0.002	1.0	12/21/10	12/27/10	0.009	J	
Chromium	6010B	0.010	0.003	1.0	12/21/10	12/27/10	0.014		
Lead	6010B	0.05	0.02	1.0	12/21/10	12/27/10	0.27		
Mercury	7470A	0.00100	0.00040	1.0	12/21/10	12/23/10	0.00040	U	
Selenium	6010B	0.10	0.02	1.0	12/21/10	12/27/10	0.02	U	
Silver	6010B	0.020	0.007	1.0	12/21/10	12/27/10	0.007	U	

% Solids: 0.0

Comments:

TCLP Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Project No.: 60135965.451
Project Name: BASF/ Rensselaer
Matrix: TCLP

Service Request: K1014072
Date Collected: 12/16/10
Date Received: 12/17/10
Units: mg/L
Basis: NA

Sample Name: TC-3A1 **Lab Code:** K1014072-003

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	0.10	0.01	1.0	12/21/10	12/27/10	0.01	U	
Barium	6010B	1.00	0.30	1.0	12/21/10	12/27/10	0.57	J	
Cadmium	6010B	0.010	0.002	1.0	12/21/10	12/27/10	0.036		
Chromium	6010B	0.010	0.003	1.0	12/21/10	12/27/10	0.034		
Lead	6010B	0.05	0.02	1.0	12/21/10	12/27/10	0.05	J	
Mercury	7470A	0.01000	0.00400	10.0	12/21/10	12/23/10	0.02200		
Selenium	6010B	0.10	0.02	1.0	12/21/10	12/27/10	0.04	J	
Silver	6010B	0.020	0.007	1.0	12/21/10	12/27/10	0.007	U	

% Solids: 0.0

Comments:

TCLP Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	AECOM	**Service Request:**	K1014072
Project No.:	60135965.451	**Date Collected:**	12/16/10
Project Name:	BASF/ Rensselaer	**Date Received:**	12/17/10
Matrix:	TCLP	**Units:**	mg/L
		Basis:	NA

Sample Name: TC-4A1 **Lab Code:** K1014072-004

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	0.10	0.01	1.0	12/21/10	12/27/10	0.03	J	
Barium	6010B	1.00	0.30	1.0	12/21/10	12/27/10	0.48	J	
Cadmium	6010B	0.010	0.002	1.0	12/21/10	12/27/10	0.008	J	
Chromium	6010B	0.010	0.003	1.0	12/21/10	12/27/10	0.012		
Lead	6010B	0.05	0.02	1.0	12/21/10	12/27/10	0.04	J	
Mercury	7470A	0.00100	0.00040	1.0	12/21/10	12/23/10	0.00040	U	
Selenium	6010B	0.10	0.02	1.0	12/21/10	12/27/10	0.04	J	
Silver	6010B	0.020	0.007	1.0	12/21/10	12/27/10	0.007	U	

% Solids: 0.0

Comments:

TCLP Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Project No.: 60135965.451
Project Name: BASF/ Rensselaer
Matrix: TCLP

Service Request: K1014072
Date Collected:
Date Received:
Units: mg/L
Basis: NA

Sample Name: Method Blank 1 **Lab Code:** K1014072-MB1

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	0.10	0.01	1.0	12/21/10	12/27/10	0.01	U	
Barium	6010B	1.00	0.30	1.0	12/21/10	12/27/10	0.30	U	
Cadmium	6010B	0.010	0.002	1.0	12/21/10	12/27/10	0.002	U	
Chromium	6010B	0.010	0.003	1.0	12/21/10	12/27/10	0.003	U	
Lead	6010B	0.05	0.02	1.0	12/21/10	12/27/10	0.02	U	
Mercury	7470A	0.00100	0.00040	1.0	12/21/10	12/23/10	0.00040	U	
Selenium	6010B	0.10	0.02	1.0	12/21/10	12/27/10	0.02	U	
Silver	6010B	0.020	0.007	1.0	12/21/10	12/27/10	0.007	U	

% Solids: 0.0

Comments:

TCLP Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: AECOM
Service Request: K1014072
Project No.: 60135965.451
Date Collected:
Project Name: BASF/ Rensselaer
Date Received:
Matrix: TCLP
Units: mg/L
Basis: NA

Sample Name: Method Blank 2
Lab Code: K1014072-MB2

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010B	0.10	0.01	1.0	12/21/10	12/27/10	0.01	U	
Barium	6010B	1.00	0.30	1.0	12/21/10	12/27/10	0.36	J	
Cadmium	6010B	0.010	0.002	1.0	12/21/10	12/27/10	0.002	U	
Chromium	6010B	0.010	0.003	1.0	12/21/10	12/27/10	0.003	J	
Lead	6010B	0.05	0.02	1.0	12/21/10	12/27/10	0.02	U	
Mercury	7470A	0.00100	0.00040	1.0	12/21/10	12/23/10	0.00040	U	
Selenium	6010B	0.10	0.02	1.0	12/21/10	12/27/10	0.02	J	
Silver	6010B	0.020	0.007	1.0	12/21/10	12/27/10	0.007	U	

% Solids: 0.0

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451

Service Request: K1014072

Cover Page - Organic Analysis Data Package
Diesel Range Organics

Sample Name	Lab Code	Date Collected	Date Received
TC-1A	K1014072-001	12/16/2010	12/17/2010
TC-3A1	K1014072-003	12/16/2010	12/17/2010
TC-4A1	K1014072-004	12/16/2010	12/17/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: LISA HARRIS

Date: January 7, 2011 Title: Scientist

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Extracted:	12/20/2010
		Date Analyzed:	01/03/2011

Diesel Range Organics

Sample Name:	TC-1A	**Units:**	mg/Kg
Lab Code:	K1014072-001	**Basis:**	Dry
File ID:	J:\GC21\DATA\010211F\0102F160.D	**Level:**	Low
Instrument ID:	GC21		
Extraction Method:	NotDoneHer	**Extraction Lot:**	KWG1100195
Analysis Method:	8015C	**Calibration ID:**	CAL10004
		Column1:	ZB-1 15m
Sample Amount:	30.30 g		
% Solids:	72.6		
Dilution Factor:	100		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
CASID30304	Diesel Range Organics	**8800**	DZ	1900	440	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	0	51-126	01/03/11	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Extracted:	12/20/2010
		Date Analyzed:	01/03/2011

Diesel Range Organics

Sample Name:	TC-3A1	**Units:**	mg/Kg
Lab Code:	K1014072-003	**Basis:**	Dry
File ID:	J:\GC21\DATA\010211F\0102F156.D	**Level:**	Low
Instrument ID:	GC21		
Extraction Method:	NotDoneHer	**Extraction Lot:**	KWG1100195
Analysis Method:	8015C	**Calibration ID:**	CAL10004
		Column1:	ZB-1 15m
Sample Amount:	30.48 g		
% Solids:	75.0		
Dilution Factor:	100		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
CASID30304	Diesel Range Organics	**6000**	DZ	1800	420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	0	51-126	01/03/11	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Extracted:	12/20/2010
		Date Analyzed:	01/03/2011

Diesel Range Organics

Sample Name:	TC-4A1	**Units:**	mg/Kg
Lab Code:	K1014072-004	**Basis:**	Dry
File ID:	J:\GC21\DATA\010211F\0102F158.D	**Level:**	Low
Instrument ID:	GC21		
Extraction Method:	NotDoneHer	**Extraction Lot:**	KWG1100195
Analysis Method:	8015C	**Calibration ID:**	CAL10004
		Column1:	ZB-1 15m
Sample Amount:	30.04 g		
% Solids:	66.8		
Dilution Factor:	100		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
CASID30304	Diesel Range Organics	**5500**	DZ	2100	480	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	0	51-126	01/03/11	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
		Date Extracted:	12/20/2010
		Date Analyzed:	01/03/2011

Diesel Range Organics

Sample Name:	Method Blank	**Units:**	mg/Kg
Lab Code:	KWG1100195-4	**Basis:**	Dry
File ID:	J:\GC21\DATA\010211F\0102F118.D	**Level:**	Low
Instrument ID:	GC21		
Extraction Method:	EPA 3550B	**Extraction Lot:**	KWG1100195
Analysis Method:	8015C	**Calibration ID:**	CAL10004
		Column1:	ZB-1 15m
Sample Amount:	30.48 g		
% Solids:	NA		
Dilution Factor:	1		

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
CASID30304	Diesel Range Organics	6.6	U	6.6	1.6	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	80	51-126	01/03/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Client: AECOM **Service Request:** K1014072
Project: BASF/ Rensselaer/60135965.451

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
TC-1A	K1014072-001	12/16/2010	12/17/2010
TC-3A1	K1014072-003	12/16/2010	12/17/2010
TC-4A1	K1014072-004	12/16/2010	12/17/2010
TC-3A1MS	KWG1100203-1	12/16/2010	12/17/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Holly Butcher Name: Holly Butcher

Date: 01-13-2011 Title: Scientist

u:\Stealth\Crystal.rpt\FormSSum.rpt SuperSet Reference: RR124254

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Prepared:	12/21/2010

Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction
Volatile Organic Compounds

Sample Name:	TC-1A	**Units:**	mg/L
Lab Code:	K1014072-001	**Basis:**	NA
Preparation Method:	EPA 1311ZHE	**Level:**	Low
Extraction Method:	EPA 5030B		
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Vinyl Chloride	ND	U	0.080	0.029	0.2	1	01/04/11	01/04/11	
1,1-Dichloroethene	ND	U	0.20	0.040	0.7	1	01/04/11	01/04/11	
2-Butanone (MEK)	ND	U	8.0	1.6	200	1	01/04/11	01/04/11	
Chloroform	ND	U	0.20	0.017	6	1	01/04/11	01/04/11	
Carbon Tetrachloride	ND	U	0.20	0.028	0.5	1	01/04/11	01/04/11	
Benzene	**2.4**		0.20	0.018	0.5	1	01/04/11	01/04/11	
1,2-Dichloroethane (EDC)	**0.60**		0.20	0.030	0.5	1	01/04/11	01/04/11	
Trichloroethene (TCE)	ND	U	0.20	0.025	0.5	1	01/04/11	01/04/11	
Tetrachloroethene (PCE)	ND	U	0.20	0.031	0.7	1	01/04/11	01/04/11	
Chlorobenzene	**51**		1.0	0.090	100	1	01/04/11	01/04/11	
1,4-Dichlorobenzene	**2.4**		0.20	0.022	7.5	1	01/04/11	01/04/11	

Surrogate Name	%Rec	Control Limits	Note
Dibromofluoromethane	102	73-122	Acceptable
Toluene-d8	106	78-129	Acceptable
4-Bromofluorobenzene	102	68-117	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010
Date Prepared: 12/21/2010

Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction
Volatile Organic Compounds

Sample Name: TC-3A1
Lab Code: K1014072-003

Units: mg/L
Basis: NA

Preparation Method: EPA 1311ZHE
Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Vinyl Chloride	ND	U	0.080	0.029	0.2	1	01/04/11	01/04/11	
1,1-Dichloroethene	ND	U	0.20	0.040	0.7	1	01/04/11	01/04/11	
2-Butanone (MEK)	ND	U	8.0	1.6	200	1	01/04/11	01/04/11	
Chloroform	ND	U	0.20	0.017	6	1	01/04/11	01/04/11	
Carbon Tetrachloride	ND	U	0.20	0.028	0.5	1	01/04/11	01/04/11	
Benzene	**0.048**	J	0.20	0.018	0.5	1	01/04/11	01/04/11	
1,2-Dichloroethane (EDC)	**0.036**	J	0.20	0.030	0.5	1	01/04/11	01/04/11	
Trichloroethene (TCE)	ND	U	0.20	0.025	0.5	1	01/04/11	01/04/11	
Tetrachloroethene (PCE)	ND	U	0.20	0.031	0.7	1	01/04/11	01/04/11	
Chlorobenzene	**3.7**		0.20	0.018	100	1	01/04/11	01/04/11	
1,4-Dichlorobenzene	**0.82**		0.20	0.022	7.5	1	01/04/11	01/04/11	

Surrogate Name	%Rec	Control Limits	Note
Dibromofluoromethane	103	73-122	Acceptable
Toluene-d8	107	78-129	Acceptable
4-Bromofluorobenzene	100	68-117	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Prepared:	12/21/2010

Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction
Volatile Organic Compounds

Sample Name:	TC-4A1	**Units:**	mg/L
Lab Code:	K1014072-004	**Basis:**	NA
Preparation Method:	EPA 1311ZHE	**Level:**	Low
Extraction Method:	EPA 5030B		
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Vinyl Chloride	ND	U	0.080	0.029	0.2	1	01/04/11	01/04/11	
1,1-Dichloroethene	ND	U	0.20	0.040	0.7	1	01/04/11	01/04/11	
2-Butanone (MEK)	ND	U	8.0	1.6	200	1	01/04/11	01/04/11	
Chloroform	ND	U	0.20	0.017	6	1	01/04/11	01/04/11	
Carbon Tetrachloride	ND	U	0.20	0.028	0.5	1	01/04/11	01/04/11	
Benzene	**0.092**	J	0.20	0.018	0.5	1	01/04/11	01/04/11	
1,2-Dichloroethane (EDC)	**0.18**	J	0.20	0.030	0.5	1	01/04/11	01/04/11	
Trichloroethene (TCE)	ND	U	0.20	0.025	0.5	1	01/04/11	01/04/11	
Tetrachloroethene (PCE)	ND	U	0.20	0.031	0.7	1	01/04/11	01/04/11	
Chlorobenzene	**14**		0.20	0.018	100	1	01/04/11	01/04/11	
1,4-Dichlorobenzene	**1.4**		0.20	0.022	7.5	1	01/04/11	01/04/11	

Surrogate Name	%Rec	Control Limits	Note
Dibromofluoromethane	101	73-122	Acceptable
Toluene-d8	107	78-129	Acceptable
4-Bromofluorobenzene	100	68-117	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA
Date Prepared: 12/21/2010

Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction
Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1100203-3

Units: mg/L
Basis: NA

Preparation Method: EPA 1311ZHE
Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Vinyl Chloride	ND	U	0.080	0.029	0.2	1	01/04/11	01/04/11	
1,1-Dichloroethene	ND	U	0.20	0.040	0.7	1	01/04/11	01/04/11	
2-Butanone (MEK)	ND	U	8.0	1.6	200	1	01/04/11	01/04/11	
Chloroform	ND	U	0.20	0.017	6	1	01/04/11	01/04/11	
Carbon Tetrachloride	ND	U	0.20	0.028	0.5	1	01/04/11	01/04/11	
Benzene	ND	U	0.20	0.018	0.5	1	01/04/11	01/04/11	
1,2-Dichloroethane (EDC)	ND	U	0.20	0.030	0.5	1	01/04/11	01/04/11	
Trichloroethene (TCE)	ND	U	0.20	0.025	0.5	1	01/04/11	01/04/11	
Tetrachloroethene (PCE)	ND	U	0.20	0.031	0.7	1	01/04/11	01/04/11	
Chlorobenzene	ND	U	0.20	0.018	100	1	01/04/11	01/04/11	
1,4-Dichlorobenzene	ND	U	0.20	0.022	7.5	1	01/04/11	01/04/11	

Surrogate Name	%Rec	Control Limits	Note
Dibromofluoromethane	102	73-122	Acceptable
Toluene-d8	106	78-129	Acceptable
4-Bromofluorobenzene	98	68-117	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Service Request: K1014072

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
TC-1A	K1014072-001	12/16/2010	12/17/2010
TC-2A	K1014072-002	12/16/2010	12/17/2010
TC-3A1	K1014072-003	12/16/2010	12/17/2010
TC-4A1	K1014072-004	12/16/2010	12/17/2010
TC-4A2	K1014072-005	12/16/2010	12/17/2010
TC-4D2	K1014072-006	12/16/2010	12/17/2010
TC-4D1	K1014072-007	12/16/2010	12/17/2010
TC-3B2	K1014072-010	12/16/2010	12/17/2010
TC-3D2	K1014072-012	12/16/2010	12/17/2010
TC-3D4	K1014072-013	12/16/2010	12/17/2010
TC-3C4	K1014072-015	12/16/2010	12/17/2010
TC-3C3	K1014072-016	12/16/2010	12/17/2010
TC-3D1	K1014072-017	12/16/2010	12/17/2010
TC-3C2	K1014072-018	12/16/2010	12/17/2010
TC-3A4	K1014072-021	12/16/2010	12/17/2010
TC-3B3	K1014072-022	12/16/2010	12/17/2010
TC-2AMS	KWG1014271-4	12/16/2010	12/17/2010
TC-2ADMS	KWG1014271-5	12/16/2010	12/17/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Holly Butcher
Name: Holly Butcher
Date: 01-13-2011
Title: Scientist

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Volatile Organic Compounds

Sample Name: TC-1A
Lab Code: K1014072-001

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	2.2	0.58	1	12/30/10	12/30/10	KWG1014271	
Chloromethane	ND	U	2.2	0.30	1	12/30/10	12/30/10	KWG1014271	
Vinyl Chloride	ND	U	2.2	0.33	1	12/30/10	12/30/10	KWG1014271	
Bromomethane	ND	U	2.2	0.40	1	12/30/10	12/30/10	KWG1014271	
Chloroethane	ND	U	2.2	0.71	1	12/30/10	12/30/10	KWG1014271	
Trichlorofluoromethane	ND	U	2.2	0.53	1	12/30/10	12/30/10	KWG1014271	
Trichlorotrifluoroethane	ND	U	2.2	0.58	1	12/30/10	12/30/10	KWG1014271	
1,1-Dichloroethene	ND	U	2.2	0.33	1	12/30/10	12/30/10	KWG1014271	
Acetone	ND	U	88	15	1	12/30/10	12/30/10	KWG1014271	
Carbon Disulfide	ND	U	2.2	0.44	1	12/30/10	12/30/10	KWG1014271	
Methylene Chloride	**0.97**	J	8.8	0.75	1	12/30/10	12/30/10	KWG1014271	
Methyl tert-Butyl Ether	ND	U	2.2	0.49	1	12/30/10	12/30/10	KWG1014271	
trans-1,2-Dichloroethene	ND	U	2.2	0.40	1	12/30/10	12/30/10	KWG1014271	
1,1-Dichloroethane	ND	U	2.2	0.34	1	12/30/10	12/30/10	KWG1014271	
cis-1,2-Dichloroethene	ND	U	2.2	0.30	1	12/30/10	12/30/10	KWG1014271	
2-Butanone (MEK)	ND	U	88	8.4	1	12/30/10	12/30/10	KWG1014271	
Bromochloromethane	ND	U	2.2	0.71	1	12/30/10	12/30/10	KWG1014271	
Chloroform	ND	U	2.2	0.32	1	12/30/10	12/30/10	KWG1014271	
1,1,1-Trichloroethane (TCA)	ND	U	2.2	0.33	1	12/30/10	12/30/10	KWG1014271	
Carbon Tetrachloride	ND	U	2.2	0.43	1	12/30/10	12/30/10	KWG1014271	*
Benzene	**47**		2.2	0.24	1	12/30/10	12/30/10	KWG1014271	
1,2-Dichloroethane (EDC)	**12**		2.2	0.36	1	12/30/10	12/30/10	KWG1014271	
Trichloroethene (TCE)	**0.57**	J	2.2	0.44	1	12/30/10	12/30/10	KWG1014271	
1,2-Dichloropropane	ND	U	2.2	0.42	1	12/30/10	12/30/10	KWG1014271	
Bromodichloromethane	ND	U	2.2	0.40	1	12/30/10	12/30/10	KWG1014271	
cis-1,3-Dichloropropene	ND	U	2.2	0.80	1	12/30/10	12/30/10	KWG1014271	
4-Methyl-2-pentanone (MIBK)	ND	U	88	12	1	12/30/10	12/30/10	KWG1014271	
Toluene	**18**		2.2	0.23	1	12/30/10	12/30/10	KWG1014271	
trans-1,3-Dichloropropene	ND	U	2.2	0.30	1	12/30/10	12/30/10	KWG1014271	
1,1,2-Trichloroethane	ND	U	2.2	0.62	1	12/30/10	12/30/10	KWG1014271	
Tetrachloroethene (PCE)	**0.66**	J	2.2	0.44	1	12/30/10	12/30/10	KWG1014271	
2-Hexanone	ND	U	88	12	1	12/30/10	12/30/10	KWG1014271	
Dibromochloromethane	ND	U	2.2	0.62	1	12/30/10	12/30/10	KWG1014271	
1,2-Dibromoethane (EDB)	ND	U	8.8	0.44	1	12/30/10	12/30/10	KWG1014271	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Volatile Organic Compounds

Sample Name: TC-1A
Lab Code: K1014072-001

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chlorobenzene	**2300**		22	4.9	1	12/29/10	12/29/10	KWG1014271	
Ethylbenzene	**7.6**		2.2	0.22	1	12/30/10	12/30/10	KWG1014271	
m,p-Xylenes	**22**		2.2	0.40	1	12/30/10	12/30/10	KWG1014271	
o-Xylene	**5.8**		2.2	0.33	1	12/30/10	12/30/10	KWG1014271	
Styrene	ND	U	2.2	0.53	1	12/30/10	12/30/10	KWG1014271	
Bromoform	ND	U	2.2	0.71	1	12/30/10	12/30/10	KWG1014271	
Isopropylbenzene	ND	U	8.8	0.40	1	12/30/10	12/30/10	KWG1014271	
1,1,2,2-Tetrachloroethane	ND	U	2.2	0.71	1	12/30/10	12/30/10	KWG1014271	
1,3-Dichlorobenzene	**98**		2.2	0.44	1	12/30/10	12/30/10	KWG1014271	
1,4-Dichlorobenzene	**340**		2.2	0.53	1	12/30/10	12/30/10	KWG1014271	
1,2-Dichlorobenzene	**2500**		22	5.3	1	12/29/10	12/29/10	KWG1014271	
1,2-Dibromo-3-chloropropane	ND	U	8.8	0.88	1	12/30/10	12/30/10	KWG1014271	
1,2,4-Trichlorobenzene	**710**		88	4.3	1	12/29/10	12/29/10	KWG1014271	
1,2,3-Trichlorobenzene	**150**		8.8	0.49	1	12/30/10	12/30/10	KWG1014271	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	68-119	12/30/10	Acceptable
Toluene-d8	105	81-124	12/30/10	Acceptable
4-Bromofluorobenzene	108	64-132	12/30/10	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Volatile Organic Compounds

Sample Name: TC-3A1
Lab Code: K1014072-003

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry

Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.42	0.11	1	12/30/10	12/30/10	KWG1014282	
Chloromethane	ND	U	0.42	0.058	1	12/30/10	12/30/10	KWG1014282	
Vinyl Chloride	ND	U	0.42	0.063	1	12/30/10	12/30/10	KWG1014282	
Bromomethane	ND	U	0.42	0.076	1	12/30/10	12/30/10	KWG1014282	
Chloroethane	ND	U	0.42	0.14	1	12/30/10	12/30/10	KWG1014282	
Trichlorofluoromethane	ND	U	0.42	0.11	1	12/30/10	12/30/10	KWG1014282	
Trichlorotrifluoroethane	ND	U	0.42	0.11	1	12/30/10	12/30/10	KWG1014282	
1,1-Dichloroethene	ND	U	0.42	0.063	1	12/30/10	12/30/10	KWG1014282	
Acetone	**9.1**	J	17	2.8	1	12/30/10	12/30/10	KWG1014282	
Carbon Disulfide	ND	U	0.42	0.084	1	12/30/10	12/30/10	KWG1014282	
Methylene Chloride	**0.18**	J	1.7	0.15	1	12/30/10	12/30/10	KWG1014282	
Methyl tert-Butyl Ether	ND	U	0.42	0.093	1	12/30/10	12/30/10	KWG1014282	
trans-1,2-Dichloroethene	ND	U	0.42	0.077	1	12/30/10	12/30/10	KWG1014282	
1,1-Dichloroethane	ND	U	0.42	0.065	1	12/30/10	12/30/10	KWG1014282	
cis-1,2-Dichloroethene	ND	U	0.42	0.057	1	12/30/10	12/30/10	KWG1014282	
2-Butanone (MEK)	**2.3**	J	17	1.6	1	12/30/10	12/30/10	KWG1014282	
Bromochloromethane	ND	U	0.42	0.14	1	12/30/10	12/30/10	KWG1014282	
Chloroform	ND	U	0.42	0.061	1	12/30/10	12/30/10	KWG1014282	
1,1,1-Trichloroethane (TCA)	ND	U	0.42	0.063	1	12/30/10	12/30/10	KWG1014282	
Carbon Tetrachloride	ND	U	0.42	0.081	1	12/30/10	12/30/10	KWG1014282	
Benzene	**0.99**		0.42	0.046	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichloroethane (EDC)	**0.75**		0.42	0.068	1	12/30/10	12/30/10	KWG1014282	
Trichloroethene (TCE)	ND	U	0.42	0.084	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichloropropane	ND	U	0.42	0.080	1	12/30/10	12/30/10	KWG1014282	
Bromodichloromethane	ND	U	0.42	0.077	1	12/30/10	12/30/10	KWG1014282	
cis-1,3-Dichloropropene	ND	U	0.42	0.16	1	12/30/10	12/30/10	KWG1014282	
4-Methyl-2-pentanone (MIBK)	ND	U	17	2.2	1	12/30/10	12/30/10	KWG1014282	
Toluene	**0.69**		0.42	0.044	1	12/30/10	12/30/10	KWG1014282	
trans-1,3-Dichloropropene	ND	U	0.42	0.058	1	12/30/10	12/30/10	KWG1014282	
1,1,2-Trichloroethane	ND	U	0.42	0.12	1	12/30/10	12/30/10	KWG1014282	
Tetrachloroethene (PCE)	ND	U	0.42	0.083	1	12/30/10	12/30/10	KWG1014282	
2-Hexanone	ND	U	17	2.3	1	12/30/10	12/30/10	KWG1014282	
Dibromochloromethane	ND	U	0.42	0.12	1	12/30/10	12/30/10	KWG1014282	
1,2-Dibromoethane (EDB)	ND	U	1.7	0.084	1	12/30/10	12/30/10	KWG1014282	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Volatile Organic Compounds

Sample Name: TC-3A1
Lab Code: K1014072-003

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry

Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chlorobenzene	**120**		8.4	1.9	1	12/30/10	12/30/10	KWG1014282	
Ethylbenzene	**0.48**		0.42	0.042	1	12/30/10	12/30/10	KWG1014282	
m,p-Xylenes	**1.8**		0.42	0.077	1	12/30/10	12/30/10	KWG1014282	
o-Xylene	**0.52**		0.42	0.063	1	12/30/10	12/30/10	KWG1014282	
Styrene	ND	U	0.42	0.11	1	12/30/10	12/30/10	KWG1014282	
Bromoform	ND	U	0.42	0.14	1	12/30/10	12/30/10	KWG1014282	
Isopropylbenzene	ND	U	1.7	0.077	1	12/30/10	12/30/10	KWG1014282	
1,1,2,2-Tetrachloroethane	ND	U	0.42	0.14	1	12/30/10	12/30/10	KWG1014282	
1,3-Dichlorobenzene	**20**		0.42	0.084	1	12/30/10	12/30/10	KWG1014282	
1,4-Dichlorobenzene	**63**		8.4	2.1	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichlorobenzene	**650**		8.4	2.1	1	12/30/10	12/30/10	KWG1014282	
1,2-Dibromo-3-chloropropane	ND	U	1.7	0.17	1	12/30/10	12/30/10	KWG1014282	
1,2,4-Trichlorobenzene	**530**		34	1.7	1	12/30/10	12/30/10	KWG1014282	
1,2,3-Trichlorobenzene	**83**		34	1.9	1	12/30/10	12/30/10	KWG1014282	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	88	68-119	12/30/10	Acceptable
Toluene-d8	96	81-124	12/30/10	Acceptable
4-Bromofluorobenzene	83	64-132	12/30/10	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Volatile Organic Compounds

Sample Name: TC-4A1
Lab Code: K1014072-004

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry

Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.51	0.14	1	12/30/10	12/30/10	KWG1014282	
Chloromethane	ND	U	0.51	0.069	1	12/30/10	12/30/10	KWG1014282	
Vinyl Chloride	ND	U	0.51	0.076	1	12/30/10	12/30/10	KWG1014282	
Bromomethane	ND	U	0.51	0.091	1	12/30/10	12/30/10	KWG1014282	
Chloroethane	ND	U	0.51	0.17	1	12/30/10	12/30/10	KWG1014282	
Trichlorofluoromethane	ND	U	0.51	0.13	1	12/30/10	12/30/10	KWG1014282	
Trichlorotrifluoroethane	ND	U	0.51	0.14	1	12/30/10	12/30/10	KWG1014282	
1,1-Dichloroethene	ND	U	0.51	0.075	1	12/30/10	12/30/10	KWG1014282	
Acetone	ND	U	21	3.4	1	12/30/10	12/30/10	KWG1014282	
Carbon Disulfide	ND	U	0.51	0.11	1	12/30/10	12/30/10	KWG1014282	
Methylene Chloride	**0.22**	J	2.1	0.18	1	12/30/10	12/30/10	KWG1014282	
Methyl tert-Butyl Ether	ND	U	0.51	0.12	1	12/30/10	12/30/10	KWG1014282	
trans-1,2-Dichloroethene	ND	U	0.51	0.092	1	12/30/10	12/30/10	KWG1014282	
1,1-Dichloroethane	ND	U	0.51	0.078	1	12/30/10	12/30/10	KWG1014282	
cis-1,2-Dichloroethene	ND	U	0.51	0.068	1	12/30/10	12/30/10	KWG1014282	
2-Butanone (MEK)	ND	U	21	2.0	1	12/30/10	12/30/10	KWG1014282	
Bromochloromethane	ND	U	0.51	0.17	1	12/30/10	12/30/10	KWG1014282	
Chloroform	**0.080**	J	0.51	0.073	1	12/30/10	12/30/10	KWG1014282	
1,1,1-Trichloroethane (TCA)	ND	U	0.51	0.076	1	12/30/10	12/30/10	KWG1014282	
Carbon Tetrachloride	ND	U	0.51	0.097	1	12/30/10	12/30/10	KWG1014282	
Benzene	**2.2**		0.51	0.055	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichloroethane (EDC)	**6.2**		0.51	0.081	1	12/30/10	12/30/10	KWG1014282	
Trichloroethene (TCE)	**0.14**	J	0.51	0.11	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichloropropane	ND	U	0.51	0.096	1	12/30/10	12/30/10	KWG1014282	
Bromodichloromethane	ND	U	0.51	0.092	1	12/30/10	12/30/10	KWG1014282	
cis-1,3-Dichloropropene	ND	U	0.51	0.19	1	12/30/10	12/30/10	KWG1014282	
4-Methyl-2-pentanone (MIBK)	ND	U	21	2.7	1	12/30/10	12/30/10	KWG1014282	
Toluene	**3.6**		0.51	0.053	1	12/30/10	12/30/10	KWG1014282	
trans-1,3-Dichloropropene	ND	U	0.51	0.069	1	12/30/10	12/30/10	KWG1014282	
1,1,2-Trichloroethane	ND	U	0.51	0.15	1	12/30/10	12/30/10	KWG1014282	
Tetrachloroethene (PCE)	**0.27**	J	0.51	0.10	1	12/30/10	12/30/10	KWG1014282	
2-Hexanone	ND	U	21	2.8	1	12/30/10	12/30/10	KWG1014282	
Dibromochloromethane	ND	U	0.51	0.15	1	12/30/10	12/30/10	KWG1014282	
1,2-Dibromoethane (EDB)	ND	U	2.1	0.11	1	12/30/10	12/30/10	KWG1014282	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Volatile Organic Compounds

Sample Name: TC-4A1
Lab Code: K1014072-004

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chlorobenzene	**450**		11	2.3	1	12/30/10	12/30/10	KWG1014282	
Ethylbenzene	**2.2**		0.51	0.051	1	12/30/10	12/30/10	KWG1014282	
m,p-Xylenes	**8.9**		0.51	0.092	1	12/30/10	12/30/10	KWG1014282	
o-Xylene	**2.6**		0.51	0.075	1	12/30/10	12/30/10	KWG1014282	
Styrene	ND	U	0.51	0.13	1	12/30/10	12/30/10	KWG1014282	
Bromoform	ND	U	0.51	0.17	1	12/30/10	12/30/10	KWG1014282	
Isopropylbenzene	**0.22**	J	2.1	0.092	1	12/30/10	12/30/10	KWG1014282	
1,1,2,2-Tetrachloroethane	ND	U	0.51	0.17	1	12/30/10	12/30/10	KWG1014282	
1,3-Dichlorobenzene	**42**		0.51	0.11	1	12/30/10	12/30/10	KWG1014282	
1,4-Dichlorobenzene	**110**		11	2.5	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichlorobenzene	**1000**		11	2.5	1	12/30/10	12/30/10	KWG1014282	
1,2-Dibromo-3-chloropropane	ND	U	2.1	0.21	1	12/30/10	12/30/10	KWG1014282	
1,2,4-Trichlorobenzene	**420**		41	2.0	1	12/30/10	12/30/10	KWG1014282	
1,2,3-Trichlorobenzene	**86**		41	2.3	1	12/30/10	12/30/10	KWG1014282	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	84	68-119	12/30/10	Acceptable
Toluene-d8	98	81-124	12/30/10	Acceptable
4-Bromofluorobenzene	83	64-132	12/30/10	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1014271-3

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.050	0.013	1	12/29/10	12/29/10	KWG1014271	
Chloromethane	ND	U	0.050	0.0068	1	12/29/10	12/29/10	KWG1014271	
Vinyl Chloride	ND	U	0.050	0.0075	1	12/29/10	12/29/10	KWG1014271	
Bromomethane	ND	U	0.050	0.0090	1	12/29/10	12/29/10	KWG1014271	
Chloroethane	ND	U	0.050	0.016	1	12/29/10	12/29/10	KWG1014271	
Trichlorofluoromethane	ND	U	0.050	0.012	1	12/29/10	12/29/10	KWG1014271	
Trichlorotrifluoroethane	ND	U	0.050	0.013	1	12/29/10	12/29/10	KWG1014271	
1,1-Dichloroethene	ND	U	0.050	0.0074	1	12/29/10	12/29/10	KWG1014271	
Acetone	ND	U	2.0	0.33	1	12/29/10	12/29/10	KWG1014271	
Carbon Disulfide	ND	U	0.050	0.010	1	12/29/10	12/29/10	KWG1014271	
Methylene Chloride	ND	U	0.20	0.017	1	12/29/10	12/29/10	KWG1014271	
Methyl tert-Butyl Ether	ND	U	0.050	0.011	1	12/29/10	12/29/10	KWG1014271	
trans-1,2-Dichloroethene	ND	U	0.050	0.0091	1	12/29/10	12/29/10	KWG1014271	
1,1-Dichloroethane	ND	U	0.050	0.0077	1	12/29/10	12/29/10	KWG1014271	
cis-1,2-Dichloroethene	ND	U	0.050	0.0067	1	12/29/10	12/29/10	KWG1014271	
2-Butanone (MEK)	ND	U	2.0	0.19	1	12/29/10	12/29/10	KWG1014271	
Bromochloromethane	ND	U	0.050	0.016	1	12/29/10	12/29/10	KWG1014271	
Chloroform	ND	U	0.050	0.0072	1	12/29/10	12/29/10	KWG1014271	
1,1,1-Trichloroethane (TCA)	ND	U	0.050	0.0075	1	12/29/10	12/29/10	KWG1014271	
Carbon Tetrachloride	ND	U	0.050	0.0096	1	12/29/10	12/29/10	KWG1014271	*
Benzene	ND	U	0.050	0.0054	1	12/29/10	12/29/10	KWG1014271	
1,2-Dichloroethane (EDC)	ND	U	0.050	0.0080	1	12/29/10	12/29/10	KWG1014271	
Trichloroethene (TCE)	ND	U	0.050	0.010	1	12/29/10	12/29/10	KWG1014271	
1,2-Dichloropropane	ND	U	0.050	0.0095	1	12/29/10	12/29/10	KWG1014271	
Bromodichloromethane	ND	U	0.050	0.0091	1	12/29/10	12/29/10	KWG1014271	
cis-1,3-Dichloropropene	ND	U	0.050	0.018	1	12/29/10	12/29/10	KWG1014271	
4-Methyl-2-pentanone (MIBK)	ND	U	2.0	0.26	1	12/29/10	12/29/10	KWG1014271	
Toluene	ND	U	0.050	0.0052	1	12/29/10	12/29/10	KWG1014271	
trans-1,3-Dichloropropene	ND	U	0.050	0.0068	1	12/29/10	12/29/10	KWG1014271	
1,1,2-Trichloroethane	ND	U	0.050	0.014	1	12/29/10	12/29/10	KWG1014271	
Tetrachloroethene (PCE)	ND	U	0.050	0.0099	1	12/29/10	12/29/10	KWG1014271	
2-Hexanone	ND	U	2.0	0.27	1	12/29/10	12/29/10	KWG1014271	
Dibromochloromethane	ND	U	0.050	0.014	1	12/29/10	12/29/10	KWG1014271	
1,2-Dibromoethane (EDB)	ND	U	0.20	0.010	1	12/29/10	12/29/10	KWG1014271	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1014271-3

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chlorobenzene	ND	U	0.050	0.011	1	12/29/10	12/29/10	KWG1014271	
Ethylbenzene	ND	U	0.050	0.0050	1	12/29/10	12/29/10	KWG1014271	
m,p-Xylenes	ND	U	0.050	0.0091	1	12/29/10	12/29/10	KWG1014271	
o-Xylene	ND	U	0.050	0.0074	1	12/29/10	12/29/10	KWG1014271	
Styrene	ND	U	0.050	0.012	1	12/29/10	12/29/10	KWG1014271	
Bromoform	ND	U	0.050	0.016	1	12/29/10	12/29/10	KWG1014271	
Isopropylbenzene	ND	U	0.20	0.0091	1	12/29/10	12/29/10	KWG1014271	
1,1,2,2-Tetrachloroethane	ND	U	0.050	0.016	1	12/29/10	12/29/10	KWG1014271	
1,3-Dichlorobenzene	ND	U	0.050	0.010	1	12/29/10	12/29/10	KWG1014271	
1,4-Dichlorobenzene	ND	U	0.050	0.012	1	12/29/10	12/29/10	KWG1014271	
1,2-Dichlorobenzene	ND	U	0.050	0.012	1	12/29/10	12/29/10	KWG1014271	
1,2-Dibromo-3-chloropropane	ND	U	0.20	0.020	1	12/29/10	12/29/10	KWG1014271	
1,2,4-Trichlorobenzene	**0.027**	J	0.20	0.0096	1	12/29/10	12/29/10	KWG1014271	
1,2,3-Trichlorobenzene	**0.029**	J	0.20	0.011	1	12/29/10	12/29/10	KWG1014271	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	68-119	12/29/10	Acceptable
Toluene-d8	106	81-124	12/29/10	Acceptable
4-Bromofluorobenzene	102	64-132	12/29/10	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1014282-5

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry

Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.050	0.013	1	12/30/10	12/30/10	KWG1014282	
Chloromethane	ND	U	0.050	0.0068	1	12/30/10	12/30/10	KWG1014282	
Vinyl Chloride	ND	U	0.050	0.0075	1	12/30/10	12/30/10	KWG1014282	
Bromomethane	ND	U	0.050	0.0090	1	12/30/10	12/30/10	KWG1014282	
Chloroethane	ND	U	0.050	0.016	1	12/30/10	12/30/10	KWG1014282	
Trichlorofluoromethane	ND	U	0.050	0.012	1	12/30/10	12/30/10	KWG1014282	
Trichlorotrifluoroethane	ND	U	0.050	0.013	1	12/30/10	12/30/10	KWG1014282	
1,1-Dichloroethene	ND	U	0.050	0.0074	1	12/30/10	12/30/10	KWG1014282	
Acetone	ND	U	2.0	0.33	1	12/30/10	12/30/10	KWG1014282	
Carbon Disulfide	ND	U	0.050	0.010	1	12/30/10	12/30/10	KWG1014282	
Methylene Chloride	ND	U	0.20	0.017	1	12/30/10	12/30/10	KWG1014282	
Methyl tert-Butyl Ether	ND	U	0.050	0.011	1	12/30/10	12/30/10	KWG1014282	
trans-1,2-Dichloroethene	ND	U	0.050	0.0091	1	12/30/10	12/30/10	KWG1014282	
1,1-Dichloroethane	ND	U	0.050	0.0077	1	12/30/10	12/30/10	KWG1014282	
cis-1,2-Dichloroethene	ND	U	0.050	0.0067	1	12/30/10	12/30/10	KWG1014282	
2-Butanone (MEK)	ND	U	2.0	0.19	1	12/30/10	12/30/10	KWG1014282	
Bromochloromethane	ND	U	0.050	0.016	1	12/30/10	12/30/10	KWG1014282	
Chloroform	ND	U	0.050	0.0072	1	12/30/10	12/30/10	KWG1014282	
1,1,1-Trichloroethane (TCA)	ND	U	0.050	0.0075	1	12/30/10	12/30/10	KWG1014282	
Carbon Tetrachloride	ND	U	0.050	0.0096	1	12/30/10	12/30/10	KWG1014282	
Benzene	ND	U	0.050	0.0054	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichloroethane (EDC)	ND	U	0.050	0.0080	1	12/30/10	12/30/10	KWG1014282	
Trichloroethene (TCE)	ND	U	0.050	0.010	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichloropropane	ND	U	0.050	0.0095	1	12/30/10	12/30/10	KWG1014282	
Bromodichloromethane	ND	U	0.050	0.0091	1	12/30/10	12/30/10	KWG1014282	
cis-1,3-Dichloropropene	ND	U	0.050	0.018	1	12/30/10	12/30/10	KWG1014282	
4-Methyl-2-pentanone (MIBK)	ND	U	2.0	0.26	1	12/30/10	12/30/10	KWG1014282	
Toluene	ND	U	0.050	0.0052	1	12/30/10	12/30/10	KWG1014282	
trans-1,3-Dichloropropene	ND	U	0.050	0.0068	1	12/30/10	12/30/10	KWG1014282	
1,1,2-Trichloroethane	ND	U	0.050	0.014	1	12/30/10	12/30/10	KWG1014282	
Tetrachloroethene (PCE)	ND	U	0.050	0.0099	1	12/30/10	12/30/10	KWG1014282	
2-Hexanone	ND	U	2.0	0.27	1	12/30/10	12/30/10	KWG1014282	
Dibromochloromethane	ND	U	0.050	0.014	1	12/30/10	12/30/10	KWG1014282	
1,2-Dibromoethane (EDB)	ND	U	0.20	0.010	1	12/30/10	12/30/10	KWG1014282	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1014282-5

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chlorobenzene	ND	U	0.050	0.011	1	12/30/10	12/30/10	KWG1014282	
Ethylbenzene	ND	U	0.050	0.0050	1	12/30/10	12/30/10	KWG1014282	
m,p-Xylenes	ND	U	0.050	0.0091	1	12/30/10	12/30/10	KWG1014282	
o-Xylene	ND	U	0.050	0.0074	1	12/30/10	12/30/10	KWG1014282	
Styrene	ND	U	0.050	0.012	1	12/30/10	12/30/10	KWG1014282	
Bromoform	ND	U	0.050	0.016	1	12/30/10	12/30/10	KWG1014282	
Isopropylbenzene	ND	U	0.20	0.0091	1	12/30/10	12/30/10	KWG1014282	
1,1,2,2-Tetrachloroethane	ND	U	0.050	0.016	1	12/30/10	12/30/10	KWG1014282	
1,3-Dichlorobenzene	ND	U	0.050	0.010	1	12/30/10	12/30/10	KWG1014282	
1,4-Dichlorobenzene	ND	U	0.050	0.012	1	12/30/10	12/30/10	KWG1014282	
1,2-Dichlorobenzene	ND	U	0.050	0.012	1	12/30/10	12/30/10	KWG1014282	
1,2-Dibromo-3-chloropropane	ND	U	0.20	0.020	1	12/30/10	12/30/10	KWG1014282	
1,2,4-Trichlorobenzene	**0.010**	J	0.20	0.0096	1	12/30/10	12/30/10	KWG1014282	
1,2,3-Trichlorobenzene	ND	U	0.20	0.011	1	12/30/10	12/30/10	KWG1014282	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	68-119	12/30/10	Acceptable
Toluene-d8	96	81-124	12/30/10	Acceptable
4-Bromofluorobenzene	77	64-132	12/30/10	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1014293-3

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry

Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.050	0.013	1	12/30/10	12/30/10	KWG1014293	
Chloromethane	ND	U	0.050	0.0068	1	12/30/10	12/30/10	KWG1014293	
Vinyl Chloride	ND	U	0.050	0.0075	1	12/30/10	12/30/10	KWG1014293	
Bromomethane	ND	U	0.050	0.0090	1	12/30/10	12/30/10	KWG1014293	
Chloroethane	ND	U	0.050	0.016	1	12/30/10	12/30/10	KWG1014293	
Trichlorofluoromethane	ND	U	0.050	0.012	1	12/30/10	12/30/10	KWG1014293	
Trichlorotrifluoroethane	ND	U	0.050	0.013	1	12/30/10	12/30/10	KWG1014293	
1,1-Dichloroethene	ND	U	0.050	0.0074	1	12/30/10	12/30/10	KWG1014293	
Acetone	ND	U	2.0	0.33	1	12/30/10	12/30/10	KWG1014293	
Carbon Disulfide	ND	U	0.050	0.010	1	12/30/10	12/30/10	KWG1014293	
Methylene Chloride	ND	U	0.20	0.017	1	12/30/10	12/30/10	KWG1014293	
Methyl tert-Butyl Ether	ND	U	0.050	0.011	1	12/30/10	12/30/10	KWG1014293	
trans-1,2-Dichloroethene	ND	U	0.050	0.0091	1	12/30/10	12/30/10	KWG1014293	
1,1-Dichloroethane	ND	U	0.050	0.0077	1	12/30/10	12/30/10	KWG1014293	
cis-1,2-Dichloroethene	ND	U	0.050	0.0067	1	12/30/10	12/30/10	KWG1014293	
2-Butanone (MEK)	ND	U	2.0	0.19	1	12/30/10	12/30/10	KWG1014293	
Bromochloromethane	ND	U	0.050	0.016	1	12/30/10	12/30/10	KWG1014293	
Chloroform	ND	U	0.050	0.0072	1	12/30/10	12/30/10	KWG1014293	
1,1,1-Trichloroethane (TCA)	ND	U	0.050	0.0075	1	12/30/10	12/30/10	KWG1014293	
Carbon Tetrachloride	ND	U	0.050	0.0096	1	12/30/10	12/30/10	KWG1014293	
Benzene	ND	U	0.050	0.0054	1	12/30/10	12/30/10	KWG1014293	
1,2-Dichloroethane (EDC)	ND	U	0.050	0.0080	1	12/30/10	12/30/10	KWG1014293	
Trichloroethene (TCE)	ND	U	0.050	0.010	1	12/30/10	12/30/10	KWG1014293	
1,2-Dichloropropane	ND	U	0.050	0.0095	1	12/30/10	12/30/10	KWG1014293	
Bromodichloromethane	ND	U	0.050	0.0091	1	12/30/10	12/30/10	KWG1014293	
cis-1,3-Dichloropropene	ND	U	0.050	0.018	1	12/30/10	12/30/10	KWG1014293	
4-Methyl-2-pentanone (MIBK)	ND	U	2.0	0.26	1	12/30/10	12/30/10	KWG1014293	
Toluene	ND	U	0.050	0.0052	1	12/30/10	12/30/10	KWG1014293	
trans-1,3-Dichloropropene	ND	U	0.050	0.0068	1	12/30/10	12/30/10	KWG1014293	
1,1,2-Trichloroethane	ND	U	0.050	0.014	1	12/30/10	12/30/10	KWG1014293	
Tetrachloroethene (PCE)	ND	U	0.050	0.0099	1	12/30/10	12/30/10	KWG1014293	
2-Hexanone	ND	U	2.0	0.27	1	12/30/10	12/30/10	KWG1014293	
Dibromochloromethane	ND	U	0.050	0.014	1	12/30/10	12/30/10	KWG1014293	
1,2-Dibromoethane (EDB)	ND	U	0.20	0.010	1	12/30/10	12/30/10	KWG1014293	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1014293-3

Extraction Method: EPA 5030A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chlorobenzene	ND	U	0.050	0.011	1	12/30/10	12/30/10	KWG1014293	
Ethylbenzene	ND	U	0.050	0.0050	1	12/30/10	12/30/10	KWG1014293	
m,p-Xylenes	ND	U	0.050	0.0091	1	12/30/10	12/30/10	KWG1014293	
o-Xylene	ND	U	0.050	0.0074	1	12/30/10	12/30/10	KWG1014293	
Styrene	ND	U	0.050	0.012	1	12/30/10	12/30/10	KWG1014293	
Bromoform	ND	U	0.050	0.016	1	12/30/10	12/30/10	KWG1014293	
Isopropylbenzene	ND	U	0.20	0.0091	1	12/30/10	12/30/10	KWG1014293	
1,1,2,2-Tetrachloroethane	ND	U	0.050	0.016	1	12/30/10	12/30/10	KWG1014293	
1,3-Dichlorobenzene	ND	U	0.050	0.010	1	12/30/10	12/30/10	KWG1014293	
1,4-Dichlorobenzene	ND	U	0.050	0.012	1	12/30/10	12/30/10	KWG1014293	
1,2-Dichlorobenzene	ND	U	0.050	0.012	1	12/30/10	12/30/10	KWG1014293	
1,2-Dibromo-3-chloropropane	ND	U	0.20	0.020	1	12/30/10	12/30/10	KWG1014293	
1,2,4-Trichlorobenzene	**0.012**	J	0.20	0.0096	1	12/30/10	12/30/10	KWG1014293	
1,2,3-Trichlorobenzene	**0.018**	J	0.20	0.011	1	12/30/10	12/30/10	KWG1014293	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	68-119	12/30/10	Acceptable
Toluene-d8	104	81-124	12/30/10	Acceptable
4-Bromofluorobenzene	100	64-132	12/30/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Client: AECOM
Project: BASF/ Rensselaer/60135965.451

Service Request: K1014072

Cover Page - Organic Analysis Data Package
Semi-Volatile Organic Compounds by GC/MS

Sample Name	Lab Code	Date Collected	Date Received
TC-1A	K1014072-001	12/16/2010	12/17/2010
TC-3A1	K1014072-003	12/16/2010	12/17/2010
TC-4A1	K1014072-004	12/16/2010	12/17/2010
TC-3A1MS	KWG1014244-1	12/16/2010	12/17/2010
TC-3A1DMS	KWG1014244-2	12/16/2010	12/17/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Carl Day

Date: 1/24/11 Title: SVM Supv

u \Stealth\Crystal.rpt\FormSSum.rpt SuperSet Reference: RR124787

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-1A
Lab Code: K1014072-001

Extraction Method: EPA 3541
Analysis Method: 8270C

Units: mg/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzaldehyde	**2.5**		2.1	0.13	1	12/29/10	01/13/11	KWG1014244	*
Bis(2-chloroethyl) Ether	ND	U	2.1	0.072	1	12/29/10	01/11/11	KWG1014244	
Phenol	**11**		2.1	0.12	1	12/29/10	01/11/11	KWG1014244	
2-Chlorophenol	**1.8**	J	2.1	0.061	1	12/29/10	01/11/11	KWG1014244	
Bis(2-chloroisopropyl) Ether	ND	U	2.1	0.087	1	12/29/10	01/11/11	KWG1014244	
2-Methylphenol	**0.29**	J	2.1	0.11	1	12/29/10	01/11/11	KWG1014244	
Caprolactam	ND	U	4.2	0.91	1	12/29/10	01/13/11	KWG1014244	*
Hexachloroethane	ND	U	2.1	0.14	1	12/29/10	01/11/11	KWG1014244	*
N-Nitrosodi-n-propylamine	ND	U	2.1	0.12	1	12/29/10	01/11/11	KWG1014244	
4-Methylphenol†	**21**		2.1	0.11	1	12/29/10	01/11/11	KWG1014244	
Nitrobenzene	ND	U	2.1	0.17	1	12/29/10	01/11/11	KWG1014244	
Isophorone	ND	U	2.1	0.087	1	12/29/10	01/11/11	KWG1014244	
2-Nitrophenol	ND	U	2.1	0.086	1	12/29/10	01/11/11	KWG1014244	
2,4-Dimethylphenol	**0.35**	J	2.1	0.093	1	12/29/10	01/11/11	KWG1014244	
Bis(2-chloroethoxy)methane	ND	U	2.1	0.068	1	12/29/10	01/11/11	KWG1014244	
2,4-Dichlorophenol	**0.61**	J	2.1	0.11	1	12/29/10	01/11/11	KWG1014244	
Naphthalene	**18**		2.1	0.089	1	12/29/10	01/11/11	KWG1014244	
4-Chloroaniline	**2.4**		2.1	0.089	1	12/29/10	01/11/11	KWG1014244	
Hexachlorobutadiene	ND	U	2.1	0.087	1	12/29/10	01/11/11	KWG1014244	*
Biphenyl	**190**	D	41	1.2	20	12/29/10	01/14/11	KWG1014244	*
4-Chloro-3-methylphenol	ND	U	2.1	0.11	1	12/29/10	01/11/11	KWG1014244	
2-Methylnaphthalene	**5.0**	X	2.1	0.068	1	12/29/10	01/11/11	KWG1014244	
Hexachlorocyclopentadiene	ND	U	2.1	0.077	1	12/29/10	01/11/11	KWG1014244	*
2,4,6-Trichlorophenol	**0.10**	J	2.1	0.088	1	12/29/10	01/11/11	KWG1014244	
2,4,5-Trichlorophenol	**0.17**	J	2.1	0.11	1	12/29/10	01/11/11	KWG1014244	
Acetophenone	**1.4**	J	2.1	0.15	1	12/29/10	01/13/11	KWG1014244	*
2-Chloronaphthalene	**9.5**		2.1	0.062	1	12/29/10	01/11/11	KWG1014244	*
2-Nitroaniline	ND	U	13	0.11	1	12/29/10	01/11/11	KWG1014244	
Acenaphthylene	**0.17**	J	2.1	0.099	1	12/29/10	01/11/11	KWG1014244	
Dimethyl Phthalate	**0.76**	J	2.1	0.11	1	12/29/10	01/11/11	KWG1014244	
2,6-Dinitrotoluene	ND	U	2.1	0.096	1	12/29/10	01/11/11	KWG1014244	
Acenaphthene	**1.5**	J	2.1	0.083	1	12/29/10	01/11/11	KWG1014244	
3-Nitroaniline	ND	U	13	1.1	1	12/29/10	01/11/11	KWG1014244	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-1A
Lab Code: K1014072-001

Extraction Method: EPA 3541
Analysis Method: 8270C

Units: mg/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-Dinitrophenol	ND	U	13	0.69	1	12/29/10	01/11/11	KWG1014244	
Dibenzofuran	**0.77**	J	2.1	0.073	1	12/29/10	01/11/11	KWG1014244	
4-Nitrophenol	ND	U	13	0.90	1	12/29/10	01/11/11	KWG1014244	
2,4-Dinitrotoluene	ND	U	2.1	0.092	1	12/29/10	01/11/11	KWG1014244	
2,3,4,6-Tetrachlorophenol	ND	U	6.2	0.29	1	12/29/10	01/11/11	KWG1014244	
Fluorene	ND	Ui	2.1	1.3	1	12/29/10	01/11/11	KWG1014244	
4-Chlorophenyl Phenyl Ether	ND	U	2.1	0.099	1	12/29/10	01/11/11	KWG1014244	
Diethyl Phthalate	**2.2**		2.1	0.087	1	12/29/10	01/11/11	KWG1014244	
4-Nitroaniline	**4.3**	J	13	1.2	1	12/29/10	01/11/11	KWG1014244	
2-Methyl-4,6-dinitrophenol	ND	U	13	0.89	1	12/29/10	01/11/11	KWG1014244	
N-Nitrosodiphenylamine	**250**	D	41	2.3	20	12/29/10	01/10/11	KWG1014244	
4-Bromophenyl Phenyl Ether	ND	U	2.1	0.076	1	12/29/10	01/11/11	KWG1014244	
Hexachlorobenzene	ND	U	2.1	0.091	1	12/29/10	01/11/11	KWG1014244	*
Atrazine	ND	U	2.1	0.11	1	12/29/10	01/13/11	KWG1014244	*
Pentachlorophenol	ND	U	13	0.77	1	12/29/10	01/11/11	KWG1014244	
Phenanthrene	**3.4**		2.1	0.062	1	12/29/10	01/11/11	KWG1014244	
Anthracene	**15**		2.1	0.086	1	12/29/10	01/11/11	KWG1014244	
Carbazole	**1.3**	J	2.1	0.069	1	12/29/10	01/11/11	KWG1014244	
Di-n-butyl Phthalate	**3.2**		2.1	0.075	1	12/29/10	01/11/11	KWG1014244	
Fluoranthene	**3.9**		2.1	0.071	1	12/29/10	01/11/11	KWG1014244	
Pyrene	**8.2**		2.1	0.087	1	12/29/10	01/11/11	KWG1014244	
Butyl Benzyl Phthalate	ND	U	2.1	0.11	1	12/29/10	01/11/11	KWG1014244	
3,3'-Dichlorobenzidine	ND	U	13	0.17	1	12/29/10	01/11/11	KWG1014244	
Benz(a)anthracene	**1.4**	J	2.1	0.076	1	12/29/10	01/11/11	KWG1014244	
Chrysene	**1.6**	J	2.1	0.073	1	12/29/10	01/11/11	KWG1014244	
Bis(2-ethylhexyl) Phthalate	**2.4**		2.1	0.12	1	12/29/10	01/11/11	KWG1014244	
Di-n-octyl Phthalate	ND	U	2.1	0.15	1	12/29/10	01/11/11	KWG1014244	
Benzo(b)fluoranthene	**1.9**	J	2.1	0.11	1	12/29/10	01/11/11	KWG1014244	
Benzo(k)fluoranthene	**0.48**	J	2.1	0.12	1	12/29/10	01/11/11	KWG1014244	
Benzo(a)pyrene	**1.3**	J	2.1	0.13	1	12/29/10	01/11/11	KWG1014244	
Indeno(1,2,3-cd)pyrene	**0.76**	J	2.1	0.24	1	12/29/10	01/11/11	KWG1014244	*
Dibenz(a,h)anthracene	**0.17**	J	2.1	0.17	1	12/29/10	01/11/11	KWG1014244	
Benzo(g,h,i)perylene	**0.50**	J	2.1	0.13	1	12/29/10	01/11/11	KWG1014244	*

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-1A
Lab Code: K1014072-001

Units: mg/Kg
Basis: Dry

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	86	20-83	01/11/11	Outside Control Limits
Phenol-d6	86	23-90	01/11/11	Acceptable
Nitrobenzene-d5	130	29-100	01/11/11	Outside Control Limits
2-Fluorobiphenyl	112	32-104	01/11/11	Outside Control Limits
2,4,6-Tribromophenol	88	20-123	01/11/11	Acceptable
Terphenyl-d14	195	37-133	01/11/11	Outside Control Limits

† **Analyte Comments**

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-3A1
Lab Code: K1014072-003

Extraction Method: EPA 3541
Analysis Method: 8270C

Units: mg/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzaldehyde	**3.6**		2.0	0.13	1	12/29/10	01/13/11	KWG1014244	*
Bis(2-chloroethyl) Ether	ND	U	2.0	0.070	1	12/29/10	01/11/11	KWG1014244	
Phenol	**12**		2.0	0.12	1	12/29/10	01/11/11	KWG1014244	
2-Chlorophenol	**1.1**	J	2.0	0.060	1	12/29/10	01/11/11	KWG1014244	
Bis(2-chloroisopropyl) Ether	ND	U	2.0	0.085	1	12/29/10	01/11/11	KWG1014244	
2-Methylphenol	ND	U	2.0	0.10	1	12/29/10	01/11/11	KWG1014244	
Caprolactam	ND	U	4.0	0.88	1	12/29/10	01/13/11	KWG1014244	*
Hexachloroethane	ND	U	2.0	0.13	1	12/29/10	01/11/11	KWG1014244	*
N-Nitrosodi-n-propylamine	ND	U	2.0	0.12	1	12/29/10	01/11/11	KWG1014244	
4-Methylphenol†	**16**		2.0	0.11	1	12/29/10	01/11/11	KWG1014244	
Nitrobenzene	ND	U	2.0	0.16	1	12/29/10	01/11/11	KWG1014244	
Isophorone	ND	U	2.0	0.084	1	12/29/10	01/11/11	KWG1014244	
2-Nitrophenol	ND	U	2.0	0.083	1	12/29/10	01/11/11	KWG1014244	
2,4-Dimethylphenol	ND	U	2.0	0.091	1	12/29/10	01/11/11	KWG1014244	
Bis(2-chloroethoxy)methane	ND	U	2.0	0.066	1	12/29/10	01/11/11	KWG1014244	
2,4-Dichlorophenol	ND	U	2.0	0.098	1	12/29/10	01/11/11	KWG1014244	
Naphthalene	**21**		2.0	0.086	1	12/29/10	01/11/11	KWG1014244	
4-Chloroaniline	**1.6**	J	2.0	0.086	1	12/29/10	01/11/11	KWG1014244	
Hexachlorobutadiene	ND	U	2.0	0.085	1	12/29/10	01/11/11	KWG1014244	*
Biphenyl	**160**	D	40	1.1	20	12/29/10	01/14/11	KWG1014244	*
4-Chloro-3-methylphenol	ND	U	2.0	0.10	1	12/29/10	01/11/11	KWG1014244	
2-Methylnaphthalene	**5.3**	X	2.0	0.066	1	12/29/10	01/11/11	KWG1014244	
Hexachlorocyclopentadiene	ND	U	2.0	0.075	1	12/29/10	01/11/11	KWG1014244	*
2,4,6-Trichlorophenol	ND	U	2.0	0.086	1	12/29/10	01/11/11	KWG1014244	
2,4,5-Trichlorophenol	ND	U	2.0	0.11	1	12/29/10	01/11/11	KWG1014244	
Acetophenone	**8.0**		2.0	0.14	1	12/29/10	01/13/11	KWG1014244	*
2-Chloronaphthalene	**16**		2.0	0.060	1	12/29/10	01/11/11	KWG1014244	*
2-Nitroaniline	ND	U	12	0.11	1	12/29/10	01/11/11	KWG1014244	
Acenaphthylene	**0.17**	J	2.0	0.096	1	12/29/10	01/11/11	KWG1014244	
Dimethyl Phthalate	**0.67**	J	2.0	0.098	1	12/29/10	01/11/11	KWG1014244	
2,6-Dinitrotoluene	ND	U	2.0	0.094	1	12/29/10	01/11/11	KWG1014244	
Acenaphthene	**1.9**	J	2.0	0.080	1	12/29/10	01/11/11	KWG1014244	
3-Nitroaniline	ND	U	12	1.1	1	12/29/10	01/11/11	KWG1014244	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-3A1
Lab Code: K1014072-003

Extraction Method: EPA 3541
Analysis Method: 8270C

Units: mg/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-Dinitrophenol	ND	U	12	0.67	1	12/29/10	01/11/11	KWG1014244	
Dibenzofuran	**0.83**	J	2.0	0.071	1	12/29/10	01/11/11	KWG1014244	
4-Nitrophenol	ND	U	12	0.88	1	12/29/10	01/11/11	KWG1014244	
2,4-Dinitrotoluene	ND	U	2.0	0.089	1	12/29/10	01/11/11	KWG1014244	
2,3,4,6-Tetrachlorophenol	ND	U	6.0	0.28	1	12/29/10	01/11/11	KWG1014244	
Fluorene	ND	Ui	2.0	1.1	1	12/29/10	01/11/11	KWG1014244	
4-Chlorophenyl Phenyl Ether	ND	U	2.0	0.096	1	12/29/10	01/11/11	KWG1014244	
Diethyl Phthalate	ND	U	2.0	0.085	1	12/29/10	01/11/11	KWG1014244	
4-Nitroaniline	**10**	J	12	1.1	1	12/29/10	01/11/11	KWG1014244	
2-Methyl-4,6-dinitrophenol	ND	U	12	0.86	1	12/29/10	01/11/11	KWG1014244	
N-Nitrosodiphenylamine	**210**	D	40	2.2	20	12/29/10	01/11/11	KWG1014244	
4-Bromophenyl Phenyl Ether	ND	U	2.0	0.073	1	12/29/10	01/11/11	KWG1014244	
Hexachlorobenzene	ND	U	2.0	0.088	1	12/29/10	01/11/11	KWG1014244	*
Atrazine	ND	U	2.0	0.11	1	12/29/10	01/13/11	KWG1014244	*
Pentachlorophenol	ND	U	12	0.75	1	12/29/10	01/11/11	KWG1014244	
Phenanthrene	**3.4**		2.0	0.060	1	12/29/10	01/11/11	KWG1014244	
Anthracene	**9.2**		2.0	0.083	1	12/29/10	01/11/11	KWG1014244	
Carbazole	**1.0**	J	2.0	0.067	1	12/29/10	01/11/11	KWG1014244	
Di-n-butyl Phthalate	**0.46**	J	2.0	0.073	1	12/29/10	01/11/11	KWG1014244	
Fluoranthene	**3.9**		2.0	0.069	1	12/29/10	01/11/11	KWG1014244	
Pyrene	**9.6**		2.0	0.084	1	12/29/10	01/11/11	KWG1014244	
Butyl Benzyl Phthalate	ND	U	2.0	0.098	1	12/29/10	01/11/11	KWG1014244	
3,3'-Dichlorobenzidine	**19**	X	12	0.17	1	12/29/10	01/11/11	KWG1014244	
Benz(a)anthracene	**1.4**	J	2.0	0.074	1	12/29/10	01/11/11	KWG1014244	
Chrysene	**1.5**	J	2.0	0.071	1	12/29/10	01/11/11	KWG1014244	
Bis(2-ethylhexyl) Phthalate	**2.2**		2.0	0.12	1	12/29/10	01/11/11	KWG1014244	
Di-n-octyl Phthalate	ND	U	2.0	0.15	1	12/29/10	01/11/11	KWG1014244	
Benzo(b)fluoranthene	**1.6**	J	2.0	0.11	1	12/29/10	01/11/11	KWG1014244	
Benzo(k)fluoranthene	**0.46**	J	2.0	0.12	1	12/29/10	01/11/11	KWG1014244	
Benzo(a)pyrene	**1.2**	J	2.0	0.12	1	12/29/10	01/11/11	KWG1014244	
Indeno(1,2,3-cd)pyrene	**0.70**	J	2.0	0.24	1	12/29/10	01/11/11	KWG1014244	*
Dibenz(a,h)anthracene	ND	U	2.0	0.17	1	12/29/10	01/11/11	KWG1014244	
Benzo(g,h,i)perylene	ND	U	2.0	0.13	1	12/29/10	01/11/11	KWG1014244	*

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-3A1
Lab Code: K1014072-003

Units: mg/Kg
Basis: Dry

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	23	20-83	01/11/11	Acceptable
Phenol-d6	86	23-90	01/11/11	Acceptable
Nitrobenzene-d5	139	29-100	01/11/11	Outside Control Limits
2-Fluorobiphenyl	126	32-104	01/11/11	Outside Control Limits
2,4,6-Tribromophenol	2	20-123	01/11/11	Outside Control Limits
Terphenyl-d14	162	37-133	01/11/11	Outside Control Limits

† **Analyte Comments**

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-4A1
Lab Code: K1014072-004

Extraction Method: EPA 3541
Analysis Method: 8270C

Units: mg/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzaldehyde	**4.3**		1.5	0.095	1	12/29/10	01/13/11	KWG1014244	*
Bis(2-chloroethyl) Ether	ND	U	1.5	0.053	1	12/29/10	01/11/11	KWG1014244	
Phenol	**2.2**		1.5	0.088	1	12/29/10	01/11/11	KWG1014244	
2-Chlorophenol	**1.2**	J	1.5	0.045	1	12/29/10	01/11/11	KWG1014244	
Bis(2-chloroisopropyl) Ether	ND	U	1.5	0.064	1	12/29/10	01/11/11	KWG1014244	
2-Methylphenol	ND	U	1.5	0.075	1	12/29/10	01/11/11	KWG1014244	
Caprolactam	ND	U	3.1	0.66	1	12/29/10	01/13/11	KWG1014244	*
Hexachloroethane	ND	U	1.5	0.097	1	12/29/10	01/11/11	KWG1014244	*
N-Nitrosodi-n-propylamine	ND	U	1.5	0.086	1	12/29/10	01/11/11	KWG1014244	
4-Methylphenol†	**3.4**		1.5	0.076	1	12/29/10	01/11/11	KWG1014244	
Nitrobenzene	ND	U	1.5	0.12	1	12/29/10	01/11/11	KWG1014244	
Isophorone	ND	U	1.5	0.063	1	12/29/10	01/11/11	KWG1014244	
2-Nitrophenol	ND	U	1.5	0.063	1	12/29/10	01/11/11	KWG1014244	
2,4-Dimethylphenol	ND	U	1.5	0.068	1	12/29/10	01/11/11	KWG1014244	
Bis(2-chloroethoxy)methane	ND	U	1.5	0.050	1	12/29/10	01/11/11	KWG1014244	
2,4-Dichlorophenol	**0.50**	J	1.5	0.074	1	12/29/10	01/11/11	KWG1014244	
Naphthalene	**13**		1.5	0.065	1	12/29/10	01/11/11	KWG1014244	
4-Chloroaniline	**0.74**	J	1.5	0.065	1	12/29/10	01/11/11	KWG1014244	
Hexachlorobutadiene	ND	U	1.5	0.064	1	12/29/10	01/11/11	KWG1014244	*
Biphenyl	**83**	D	30	0.81	20	12/29/10	01/14/11	KWG1014244	*
4-Chloro-3-methylphenol	ND	U	1.5	0.075	1	12/29/10	01/11/11	KWG1014244	
2-Methylnaphthalene	**3.2**	X	1.5	0.050	1	12/29/10	01/11/11	KWG1014244	
Hexachlorocyclopentadiene	ND	U	1.5	0.057	1	12/29/10	01/11/11	KWG1014244	*
2,4,6-Trichlorophenol	**0.066**	J	1.5	0.065	1	12/29/10	01/11/11	KWG1014244	
2,4,5-Trichlorophenol	**0.16**	J	1.5	0.077	1	12/29/10	01/11/11	KWG1014244	
Acetophenone	**1.7**		1.5	0.11	1	12/29/10	01/13/11	KWG1014244	*
2-Chloronaphthalene	**13**		1.5	0.045	1	12/29/10	01/11/11	KWG1014244	*
2-Nitroaniline	ND	U	9.0	0.076	1	12/29/10	01/11/11	KWG1014244	
Acenaphthylene	**0.13**	J	1.5	0.072	1	12/29/10	01/11/11	KWG1014244	
Dimethyl Phthalate	**0.34**	J	1.5	0.074	1	12/29/10	01/11/11	KWG1014244	
2,6-Dinitrotoluene	ND	U	1.5	0.070	1	12/29/10	01/11/11	KWG1014244	
Acenaphthene	**1.4**	J	1.5	0.061	1	12/29/10	01/11/11	KWG1014244	
3-Nitroaniline	ND	U	9.0	0.79	1	12/29/10	01/11/11	KWG1014244	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-4A1
Lab Code: K1014072-004

Extraction Method: EPA 3541
Analysis Method: 8270C

Units: mg/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-Dinitrophenol	ND	U	9.0	0.51	1	12/29/10	01/11/11	KWG1014244	
Dibenzofuran	**0.61**	J	1.5	0.053	1	12/29/10	01/11/11	KWG1014244	
4-Nitrophenol	ND	U	9.0	0.66	1	12/29/10	01/11/11	KWG1014244	
2,4-Dinitrotoluene	ND	U	1.5	0.067	1	12/29/10	01/11/11	KWG1014244	
2,3,4,6-Tetrachlorophenol	ND	U	4.5	0.21	1	12/29/10	01/11/11	KWG1014244	
Fluorene	ND	Ui	1.5	0.94	1	12/29/10	01/11/11	KWG1014244	
4-Chlorophenyl Phenyl Ether	ND	U	1.5	0.072	1	12/29/10	01/11/11	KWG1014244	
Diethyl Phthalate	**1.3**	J	1.5	0.064	1	12/29/10	01/11/11	KWG1014244	
4-Nitroaniline	**6.5**	J	9.0	0.81	1	12/29/10	01/11/11	KWG1014244	
2-Methyl-4,6-dinitrophenol	ND	U	9.0	0.65	1	12/29/10	01/11/11	KWG1014244	
N-Nitrosodiphenylamine	**180**	D	30	1.7	20	12/29/10	01/11/11	KWG1014244	
4-Bromophenyl Phenyl Ether	ND	U	1.5	0.055	1	12/29/10	01/11/11	KWG1014244	
Hexachlorobenzene	ND	Ui	1.5	0.22	1	12/29/10	01/11/11	KWG1014244	*
Atrazine	ND	U	1.5	0.077	1	12/29/10	01/13/11	KWG1014244	*
Pentachlorophenol	ND	U	9.0	0.57	1	12/29/10	01/11/11	KWG1014244	
Phenanthrene	**2.9**		1.5	0.045	1	12/29/10	01/11/11	KWG1014244	
Anthracene	**6.8**		1.5	0.063	1	12/29/10	01/11/11	KWG1014244	
Carbazole	**0.75**	J	1.5	0.051	1	12/29/10	01/11/11	KWG1014244	
Di-n-butyl Phthalate	**1.7**		1.5	0.055	1	12/29/10	01/11/11	KWG1014244	
Fluoranthene	**2.8**		1.5	0.052	1	12/29/10	01/11/11	KWG1014244	
Pyrene	**6.9**		1.5	0.063	1	12/29/10	01/11/11	KWG1014244	
Butyl Benzyl Phthalate	ND	U	1.5	0.074	1	12/29/10	01/11/11	KWG1014244	
3,3'-Dichlorobenzidine	**11**	X	9.0	0.13	1	12/29/10	01/11/11	KWG1014244	
Benz(a)anthracene	**1.1**	J	1.5	0.056	1	12/29/10	01/11/11	KWG1014244	
Chrysene	**1.3**	J	1.5	0.053	1	12/29/10	01/11/11	KWG1014244	
Bis(2-ethylhexyl) Phthalate	**2.1**		1.5	0.084	1	12/29/10	01/11/11	KWG1014244	
Di-n-octyl Phthalate	ND	U	1.5	0.11	1	12/29/10	01/11/11	KWG1014244	
Benzo(b)fluoranthene	**1.2**	J	1.5	0.078	1	12/29/10	01/11/11	KWG1014244	
Benzo(k)fluoranthene	**0.40**	J	1.5	0.088	1	12/29/10	01/11/11	KWG1014244	
Benzo(a)pyrene	**1.0**	J	1.5	0.089	1	12/29/10	01/11/11	KWG1014244	
Indeno(1,2,3-cd)pyrene	**0.52**	J	1.5	0.18	1	12/29/10	01/11/11	KWG1014244	*
Dibenz(a,h)anthracene	ND	U	1.5	0.13	1	12/29/10	01/11/11	KWG1014244	
Benzo(g,h,i)perylene	**0.28**	J	1.5	0.091	1	12/29/10	01/11/11	KWG1014244	*

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-4A1
Lab Code: K1014072-004

Units: mg/Kg
Basis: Dry

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	78	20-83	01/11/11	Acceptable
Phenol-d6	84	23-90	01/11/11	Acceptable
Nitrobenzene-d5	120	29-100	01/11/11	Outside Control Limits
2-Fluorobiphenyl	107	32-104	01/11/11	Outside Control Limits
2,4,6-Tribromophenol	87	20-123	01/11/11	Acceptable
Terphenyl-d14	147	37-133	01/11/11	Outside Control Limits

† Analyte Comments

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Sludge, solid

Service Request: K1014072
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1014244-5

Extraction Method: EPA 3541
Analysis Method: 8270C

Units: mg/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzaldehyde	ND	U	0.25	0.021	1	12/29/10	01/13/11	KWG1014244	*
Bis(2-chloroethyl) Ether	ND	U	0.25	0.012	1	12/29/10	01/10/11	KWG1014244	
Phenol	ND	U	0.25	0.020	1	12/29/10	01/10/11	KWG1014244	
2-Chlorophenol	ND	U	0.25	0.0099	1	12/29/10	01/10/11	KWG1014244	
Bis(2-chloroisopropyl) Ether	ND	U	0.25	0.015	1	12/29/10	01/10/11	KWG1014244	
2-Methylphenol	ND	U	0.25	0.017	1	12/29/10	01/10/11	KWG1014244	
Caprolactam	ND	U	0.50	0.15	1	12/29/10	01/13/11	KWG1014244	*
Hexachloroethane	ND	U	0.25	0.022	1	12/29/10	01/10/11	KWG1014244	*
N-Nitrosodi-n-propylamine	ND	U	0.25	0.020	1	12/29/10	01/10/11	KWG1014244	
4-Methylphenol†	ND	U	0.25	0.017	1	12/29/10	01/10/11	KWG1014244	
Nitrobenzene	ND	U	0.25	0.027	1	12/29/10	01/10/11	KWG1014244	
Isophorone	ND	U	0.25	0.014	1	12/29/10	01/10/11	KWG1014244	
2-Nitrophenol	ND	U	0.25	0.014	1	12/29/10	01/10/11	KWG1014244	
2,4-Dimethylphenol	ND	U	0.25	0.016	1	12/29/10	01/10/11	KWG1014244	
Bis(2-chloroethoxy)methane	ND	U	0.25	0.011	1	12/29/10	01/10/11	KWG1014244	
2,4-Dichlorophenol	ND	U	0.25	0.017	1	12/29/10	01/10/11	KWG1014244	
Naphthalene	ND	U	0.25	0.015	1	12/29/10	01/10/11	KWG1014244	
4-Chloroaniline	ND	U	0.25	0.015	1	12/29/10	01/10/11	KWG1014244	
Hexachlorobutadiene	ND	U	0.25	0.015	1	12/29/10	01/10/11	KWG1014244	*
Biphenyl	ND	U	0.25	0.0090	1	12/29/10	01/13/11	KWG1014244	*
4-Chloro-3-methylphenol	ND	U	0.25	0.017	1	12/29/10	01/10/11	KWG1014244	
2-Methylnaphthalene	ND	U	0.25	0.011	1	12/29/10	01/10/11	KWG1014244	
Hexachlorocyclopentadiene	ND	U	0.25	0.013	1	12/29/10	01/10/11	KWG1014244	*
2,4,6-Trichlorophenol	ND	U	0.25	0.015	1	12/29/10	01/10/11	KWG1014244	
2,4,5-Trichlorophenol	ND	U	0.25	0.018	1	12/29/10	01/10/11	KWG1014244	
Acetophenone	ND	U	0.25	0.023	1	12/29/10	01/13/11	KWG1014244	*
2-Chloronaphthalene	ND	U	0.25	0.010	1	12/29/10	01/10/11	KWG1014244	*
2-Nitroaniline	ND	U	1.5	0.017	1	12/29/10	01/10/11	KWG1014244	
Acenaphthylene	ND	U	0.25	0.016	1	12/29/10	01/10/11	KWG1014244	
Dimethyl Phthalate	ND	U	0.25	0.017	1	12/29/10	01/10/11	KWG1014244	
2,6-Dinitrotoluene	ND	U	0.25	0.016	1	12/29/10	01/10/11	KWG1014244	
Acenaphthene	ND	U	0.25	0.014	1	12/29/10	01/10/11	KWG1014244	
3-Nitroaniline	ND	U	1.5	0.18	1	12/29/10	01/10/11	KWG1014244	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Sludge, solid

Service Request: K1014072
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1014244-5

Extraction Method: EPA 3541
Analysis Method: 8270C

Units: mg/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-Dinitrophenol	ND	U	1.5	0.12	1	12/29/10	01/10/11	KWG1014244	
Dibenzofuran	ND	U	0.25	0.012	1	12/29/10	01/10/11	KWG1014244	
4-Nitrophenol	ND	U	1.5	0.15	1	12/29/10	01/10/11	KWG1014244	
2,4-Dinitrotoluene	ND	U	0.25	0.015	1	12/29/10	01/10/11	KWG1014244	
2,3,4,6-Tetrachlorophenol	ND	U	0.75	0.046	1	12/29/10	01/10/11	KWG1014244	
Fluorene	ND	U	0.25	0.013	1	12/29/10	01/10/11	KWG1014244	
4-Chlorophenyl Phenyl Ether	ND	U	0.25	0.016	1	12/29/10	01/10/11	KWG1014244	
Diethyl Phthalate	ND	U	0.25	0.015	1	12/29/10	01/10/11	KWG1014244	
4-Nitroaniline	ND	U	1.5	0.18	1	12/29/10	01/10/11	KWG1014244	
2-Methyl-4,6-dinitrophenol	ND	U	1.5	0.15	1	12/29/10	01/10/11	KWG1014244	
N-Nitrosodiphenylamine	ND	U	0.25	0.018	1	12/29/10	01/10/11	KWG1014244	
4-Bromophenyl Phenyl Ether	ND	U	0.25	0.013	1	12/29/10	01/10/11	KWG1014244	
Hexachlorobenzene	ND	U	0.25	0.015	1	12/29/10	01/10/11	KWG1014244	*
Atrazine	ND	U	0.25	0.017	1	12/29/10	01/13/11	KWG1014244	*
Pentachlorophenol	ND	U	1.5	0.13	1	12/29/10	01/10/11	KWG1014244	
Phenanthrene	ND	U	0.25	0.010	1	12/29/10	01/10/11	KWG1014244	
Anthracene	ND	U	0.25	0.014	1	12/29/10	01/10/11	KWG1014244	
Carbazole	**0.023**	J	0.25	0.012	1	12/29/10	01/10/11	KWG1014244	
Di-n-butyl Phthalate	ND	U	0.25	0.013	1	12/29/10	01/10/11	KWG1014244	
Fluoranthene	**0.013**	J	0.25	0.012	1	12/29/10	01/10/11	KWG1014244	
Pyrene	**0.016**	J	0.25	0.014	1	12/29/10	01/10/11	KWG1014244	
Butyl Benzyl Phthalate	ND	U	0.25	0.017	1	12/29/10	01/10/11	KWG1014244	
3,3'-Dichlorobenzidine	ND	U	1.5	0.027	1	12/29/10	01/10/11	KWG1014244	
Benz(a)anthracene	**0.018**	J	0.25	0.013	1	12/29/10	01/10/11	KWG1014244	
Chrysene	**0.019**	J	0.25	0.012	1	12/29/10	01/10/11	KWG1014244	
Bis(2-ethylhexyl) Phthalate	**0.036**	J	0.25	0.019	1	12/29/10	01/10/11	KWG1014244	
Di-n-octyl Phthalate	ND	U	0.25	0.024	1	12/29/10	01/10/11	KWG1014244	
Benzo(b)fluoranthene	**0.033**	J	0.25	0.018	1	12/29/10	01/10/11	KWG1014244	
Benzo(k)fluoranthene	**0.025**	J	0.25	0.020	1	12/29/10	01/10/11	KWG1014244	
Benzo(a)pyrene	**0.040**	J	0.25	0.020	1	12/29/10	01/10/11	KWG1014244	
Indeno(1,2,3-cd)pyrene	**0.051**	J	0.25	0.039	1	12/29/10	01/10/11	KWG1014244	*
Dibenz(a,h)anthracene	**0.038**	J	0.25	0.028	1	12/29/10	01/10/11	KWG1014244	
Benzo(g,h,i)perylene	**0.085**	J	0.25	0.021	1	12/29/10	01/10/11	KWG1014244	*

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Sludge, solid

Service Request: K1014072
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1014244-5

Units: mg/Kg
Basis: Dry

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	48	20-83	01/10/11	Acceptable
Phenol-d6	50	23-90	01/10/11	Acceptable
Nitrobenzene-d5	58	29-100	01/10/11	Acceptable
2-Fluorobiphenyl	60	32-104	01/10/11	Acceptable
2,4,6-Tribromophenol	54	20-123	01/10/11	Acceptable
Terphenyl-d14	67	37-133	01/10/11	Acceptable

† **Analyte Comments**

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451

Service Request: K1014072

Cover Page - Organic Analysis Data Package
Chlorinated Pesticides by HRGC/MS/MS

Sample Name	Lab Code	Date Collected	Date Received
TC-1A	K1014072-001	12/16/2010	12/17/2010
TC-3A1	K1014072-003	12/16/2010	12/17/2010
TC-4A1	K1014072-004	12/16/2010	12/17/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Carl Dozier

Date: 1/21/11 Title: Group Supervisor

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Chlorinated Pesticides by HRGC/MS/MS

Sample Name: TC-1A
Lab Code: K1014072-001

Extraction Method: EPA 3535A
Analysis Method: CAS SOC-PESTMS2

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	2.1	1.2	1	12/28/10	01/17/11	KWG1014194	
gamma-BHC (Lindane)	ND	U	2.1	0.63	1	12/28/10	01/17/11	KWG1014194	
beta-BHC	ND	Ui	890	890	1	12/28/10	01/17/11	KWG1014194	
delta-BHC	ND	U	2.1	0.80	1	12/28/10	01/17/11	KWG1014194	
Hexachlorobenzene	**22**		2.1	0.55	1	12/28/10	01/17/11	KWG1014194	
Heptachlor	ND	U	4.2	0.71	1	12/28/10	01/17/11	KWG1014194	
Chlorpyrifos	ND	U	2.1	0.71	1	12/28/10	01/17/11	KWG1014194	
Aldrin	ND	U	4.2	2.0	1	12/28/10	01/17/11	KWG1014194	
Octachlorostyrene	ND	U	4.2	1.2	1	12/28/10	01/17/11	KWG1014194	
Isodrin	ND	U	8.4	4.6	1	12/28/10	01/17/11	KWG1014194	
Oxychlordane	ND	U	21	7.6	1	12/28/10	01/17/11	KWG1014194	
Heptachlor Epoxide	ND	U	4.2	2.0	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDE	ND	U	2.1	0.80	1	12/28/10	01/17/11	KWG1014194	
gamma-Chlordane	ND	U	5.3	2.1	1	12/28/10	01/17/11	KWG1014194	
alpha-Chlordane	ND	U	5.3	1.6	1	12/28/10	01/17/11	KWG1014194	
trans-Nonachlor	ND	U	5.3	2.6	1	12/28/10	01/17/11	KWG1014194	
Endosulfan I	ND	Ui	8.4	8.4	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDE	**0.75**	J	2.1	0.55	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDD	ND	U	2.1	0.46	1	12/28/10	01/17/11	KWG1014194	
Dieldrin	ND	U	21	9.6	1	12/28/10	01/17/11	KWG1014194	
Endrin	ND	U	8.4	3.6	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDT	ND	U	2.1	0.55	1	12/28/10	01/17/11	KWG1014194	
cis-Nonachlor	ND	U	5.3	3.3	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDD	ND	U	2.1	0.84	1	12/28/10	01/17/11	KWG1014194	
Endosulfan II	ND	U	4.2	2.2	1	12/28/10	01/17/11	KWG1014194	
Endrin Aldehyde	ND	U	4.2	2.8	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDT	ND	U	2.1	0.96	1	12/28/10	01/17/11	KWG1014194	
Endosulfan Sulfate	ND	U	2.1	0.50	1	12/28/10	01/17/11	KWG1014194	
Methoxychlor	ND	U	2.1	0.67	1	12/28/10	01/17/11	KWG1014194	
Endrin Ketone	ND	U	4.2	3.0	1	12/28/10	01/17/11	KWG1014194	
Mirex	ND	U	4.2	0.50	1	12/28/10	01/17/11	KWG1014194	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Chlorinated Pesticides by HRGC/MS/MS

Sample Name: TC-1A
Lab Code: K1014072-001

Units: ng/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
S_GBHCD6	92	5-124	01/17/11	Acceptable
S_HXCBZ13C6	71	5-120	01/17/11	Acceptable
S_Heptachlor-13C10	122	5-128	01/17/11	Acceptable
S_Chlorpyrifos-d10	57	5-200	01/17/11	Acceptable
S_Aldrin-13C12	62	5-126	01/17/11	Acceptable
S_Ocstyrene13C8	67	5-120	01/17/11	Acceptable
S_Isodrin-13C12	97	5-120	01/17/11	Acceptable
S_Oxychlordane-13C10	58	5-144	01/17/11	Acceptable
S_Heptachlrepox13C10	62	8-146	01/17/11	Acceptable
S_Endrin-13C12	63	20-157	01/17/11	Acceptable
S_4,4'DDD-d4	43	5-120	01/17/11	Acceptable
S_4,4'-DDT-d4	84	13-200	01/17/11	Acceptable
S_Mxchlord14	49	8-200	01/17/11	Acceptable
S_Endrinket13C12	36	5-120	01/17/11	Acceptable
S_Mirex-13C10	45	5-138	01/17/11	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Chlorinated Pesticides by HRGC/MS/MS

Sample Name: TC-3A1
Lab Code: K1014072-003

Extraction Method: EPA 3535A
Analysis Method: CAS SOC-PESTMS2

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	2.2	1.2	1	12/28/10	01/17/11	KWG1014194	
gamma-BHC (Lindane)	ND	U	2.2	0.65	1	12/28/10	01/17/11	KWG1014194	
beta-BHC	ND	Ui	860	860	1	12/28/10	01/17/11	KWG1014194	
delta-BHC	ND	U	2.2	0.82	1	12/28/10	01/17/11	KWG1014194	
Hexachlorobenzene	**30**		2.2	0.56	1	12/28/10	01/17/11	KWG1014194	
Heptachlor	**0.79**	J	4.3	0.73	1	12/28/10	01/17/11	KWG1014194	
Chlorpyrifos	ND	U	2.2	0.73	1	12/28/10	01/17/11	KWG1014194	
Aldrin	ND	U	4.3	2.1	1	12/28/10	01/17/11	KWG1014194	
Octachlorostyrene	ND	U	4.3	1.2	1	12/28/10	01/17/11	KWG1014194	
Isodrin	ND	U	8.6	4.8	1	12/28/10	01/17/11	KWG1014194	
Oxychlordane	ND	U	22	7.8	1	12/28/10	01/17/11	KWG1014194	
Heptachlor Epoxide	ND	U	4.3	2.1	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDE	ND	U	2.2	0.82	1	12/28/10	01/17/11	KWG1014194	
gamma-Chlordane	ND	U	5.4	2.2	1	12/28/10	01/17/11	KWG1014194	
alpha-Chlordane	ND	U	5.4	1.7	1	12/28/10	01/17/11	KWG1014194	
trans-Nonachlor	ND	U	5.4	2.6	1	12/28/10	01/17/11	KWG1014194	
Endosulfan I	ND	Ui	23	23	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDE	**0.77**	J	2.2	0.56	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDD	ND	U	2.2	0.48	1	12/28/10	01/17/11	KWG1014194	
Dieldrin	ND	U	22	9.9	1	12/28/10	01/17/11	KWG1014194	
Endrin	ND	U	8.6	3.6	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDT	ND	U	2.2	0.56	1	12/28/10	01/17/11	KWG1014194	
cis-Nonachlor	ND	U	5.4	3.4	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDD	ND	U	2.2	0.86	1	12/28/10	01/17/11	KWG1014194	
Endosulfan II	ND	U	4.3	2.2	1	12/28/10	01/17/11	KWG1014194	
Endrin Aldehyde	ND	U	4.3	2.9	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDT	ND	U	2.2	0.99	1	12/28/10	01/17/11	KWG1014194	
Endosulfan Sulfate	ND	U	2.2	0.52	1	12/28/10	01/17/11	KWG1014194	
Methoxychlor	ND	U	2.2	0.69	1	12/28/10	01/17/11	KWG1014194	
Endrin Ketone	ND	U	4.3	3.0	1	12/28/10	01/17/11	KWG1014194	
Mirex	ND	U	4.3	0.52	1	12/28/10	01/17/11	KWG1014194	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Chlorinated Pesticides by HRGC/MS/MS

Sample Name: TC-3A1
Lab Code: K1014072-003

Units: ng/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
S_GBHCD6	91	5-124	01/17/11	Acceptable
S_HXCBZ13C6	78	5-120	01/17/11	Acceptable
S_Heptachlor-13C10	132	5-128	01/17/11	Outside Control Limits
S_Chlorpyrifos-d10	57	5-200	01/17/11	Acceptable
S_Aldrin-13C12	61	5-126	01/17/11	Acceptable
S_Ocstyrene13C8	59	5-120	01/17/11	Acceptable
S_Isodrin-13C12	202	5-120	01/17/11	Outside Control Limits
S_Oxychlordane-13C10	43	5-144	01/17/11	Acceptable
S_Heptachlrepox13C10	58	8-146	01/17/11	Acceptable
S_Endrin-13C12	60	20-157	01/17/11	Acceptable
S_4,4'DDD-d4	46	5-120	01/17/11	Acceptable
S_4,4'-DDT-d4	102	13-200	01/17/11	Acceptable
S_Mxchlord14	48	8-200	01/17/11	Acceptable
S_Endrinket13C12	34	5-120	01/17/11	Acceptable
S_Mirex-13C10	39	5-138	01/17/11	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Chlorinated Pesticides by HRGC/MS/MS

Sample Name: TC-4A1
Lab Code: K1014072-004

Extraction Method: EPA 3535A
Analysis Method: CAS SOC-PESTMS2

Units: ng/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	2.0	1.1	1	12/28/10	01/17/11	KWG1014194	
gamma-BHC (Lindane)	ND	U	2.0	0.60	1	12/28/10	01/17/11	KWG1014194	
beta-BHC	ND	Ui	550	550	1	12/28/10	01/17/11	KWG1014194	
delta-BHC	ND	U	2.0	0.76	1	12/28/10	01/17/11	KWG1014194	
Hexachlorobenzene	**32**		2.0	0.52	1	12/28/10	01/17/11	KWG1014194	
Heptachlor	ND	U	3.9	0.68	1	12/28/10	01/17/11	KWG1014194	
Chlorpyrifos	ND	U	2.0	0.68	1	12/28/10	01/17/11	KWG1014194	
Aldrin	ND	U	3.9	1.9	1	12/28/10	01/17/11	KWG1014194	
Octachlorostyrene	ND	U	3.9	1.2	1	12/28/10	01/17/11	KWG1014194	
Isodrin	ND	U	7.7	4.4	1	12/28/10	01/17/11	KWG1014194	
Oxychlordane	ND	U	20	7.2	1	12/28/10	01/17/11	KWG1014194	
Heptachlor Epoxide	ND	U	3.9	1.9	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDE	ND	U	2.0	0.76	1	12/28/10	01/17/11	KWG1014194	
gamma-Chlordane	ND	U	4.9	2.0	1	12/28/10	01/17/11	KWG1014194	
alpha-Chlordane	ND	U	4.9	1.5	1	12/28/10	01/17/11	KWG1014194	
trans-Nonachlor	ND	U	4.9	2.4	1	12/28/10	01/17/11	KWG1014194	
Endosulfan I	ND	Ui	15	15	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDE	**0.70**	J	2.0	0.52	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDD	ND	U	2.0	0.44	1	12/28/10	01/17/11	KWG1014194	
Dieldrin	ND	U	20	9.2	1	12/28/10	01/17/11	KWG1014194	
Endrin	ND	U	7.7	3.4	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDT	ND	U	2.0	0.52	1	12/28/10	01/17/11	KWG1014194	
cis-Nonachlor	ND	U	4.9	3.1	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDD	ND	U	2.0	0.80	1	12/28/10	01/17/11	KWG1014194	
Endosulfan II	ND	U	3.9	2.1	1	12/28/10	01/17/11	KWG1014194	
Endrin Aldehyde	ND	U	3.9	2.7	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDT	ND	U	2.0	0.92	1	12/28/10	01/17/11	KWG1014194	
Endosulfan Sulfate	ND	U	2.0	0.48	1	12/28/10	01/17/11	KWG1014194	
Methoxychlor	ND	U	2.0	0.64	1	12/28/10	01/17/11	KWG1014194	
Endrin Ketone	ND	U	3.9	2.8	1	12/28/10	01/17/11	KWG1014194	
Mirex	ND	U	3.9	0.48	1	12/28/10	01/17/11	KWG1014194	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010

Chlorinated Pesticides by HRGC/MS/MS

Sample Name: TC-4A1
Lab Code: K1014072-004

Units: ng/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
S_GBHCD6	101	5-124	01/17/11	Acceptable
S_HXCBZ13C6	85	5-120	01/17/11	Acceptable
S_Heptachlor-13C10	146	5-128	01/17/11	Outside Control Limits
S_Chlorpyrifos-d10	64	5-200	01/17/11	Acceptable
S_Aldrin-13C12	73	5-126	01/17/11	Acceptable
S_Ocstyrene13C8	69	5-120	01/17/11	Acceptable
S_Isodrin-13C12	85	5-120	01/17/11	Acceptable
S_Oxychlordane-13C10	81	5-144	01/17/11	Acceptable
S_Heptachlrepox13C10	71	8-146	01/17/11	Acceptable
S_Endrin-13C12	67	20-157	01/17/11	Acceptable
S_4,4'DDD-d4	59	5-120	01/17/11	Acceptable
S_4,4'-DDT-d4	96	13-200	01/17/11	Acceptable
S_Mxchlord14	59	8-200	01/17/11	Acceptable
S_Endrinket13C12	43	5-120	01/17/11	Acceptable
S_Mirex-13C10	51	5-138	01/17/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA

Chlorinated Pesticides by HRGC/MS/MS

Sample Name: Method Blank
Lab Code: KWG1014194-3

Extraction Method: EPA 3535A
Analysis Method: CAS SOC-PESTMS2

Units: ng/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	**0.36**	J	0.49	0.27	1	12/28/10	01/17/11	KWG1014194	
gamma-BHC (Lindane)	**0.43**	J	0.49	0.15	1	12/28/10	01/17/11	KWG1014194	
beta-BHC	**0.43**	J	0.49	0.31	1	12/28/10	01/17/11	KWG1014194	
delta-BHC	**0.67**		0.49	0.19	1	12/28/10	01/17/11	KWG1014194	
Hexachlorobenzene	ND	U	0.49	0.13	1	12/28/10	01/17/11	KWG1014194	
Heptachlor	**0.39**	J	0.97	0.17	1	12/28/10	01/17/11	KWG1014194	
Chlorpyrifos	ND	U	0.49	0.17	1	12/28/10	01/17/11	KWG1014194	
Aldrin	**0.50**	J	0.97	0.47	1	12/28/10	01/17/11	KWG1014194	
Octachlorostyrene	ND	U	0.97	0.28	1	12/28/10	01/17/11	KWG1014194	
Isodrin	ND	U	2.0	1.1	1	12/28/10	01/17/11	KWG1014194	
Oxychlordane	ND	U	2.0	0.72	1	12/28/10	01/17/11	KWG1014194	
Heptachlor Epoxide	ND	U	0.97	0.47	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDE	ND	U	0.49	0.19	1	12/28/10	01/17/11	KWG1014194	
gamma-Chlordane	**0.34**	J	0.49	0.20	1	12/28/10	01/17/11	KWG1014194	
alpha-Chlordane	**0.35**	J	0.49	0.15	1	12/28/10	01/17/11	KWG1014194	
trans-Nonachlor	ND	U	0.49	0.24	1	12/28/10	01/17/11	KWG1014194	
Endosulfan I	ND	U	2.0	1.2	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDE	**0.39**	J	0.49	0.13	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDD	ND	U	0.49	0.11	1	12/28/10	01/17/11	KWG1014194	
Dieldrin	ND	U	4.9	2.3	1	12/28/10	01/17/11	KWG1014194	
Endrin	ND	U	2.0	0.84	1	12/28/10	01/17/11	KWG1014194	
2,4'-DDT	ND	U	0.49	0.13	1	12/28/10	01/17/11	KWG1014194	
cis-Nonachlor	ND	U	0.49	0.31	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDD	**0.43**	J	0.49	0.20	1	12/28/10	01/17/11	KWG1014194	
Endosulfan II	ND	U	0.97	0.51	1	12/28/10	01/17/11	KWG1014194	
Endrin Aldehyde	ND	U	0.97	0.67	1	12/28/10	01/17/11	KWG1014194	
4,4'-DDT	**0.36**	J	0.49	0.23	1	12/28/10	01/17/11	KWG1014194	
Endosulfan Sulfate	**0.38**	J	0.49	0.12	1	12/28/10	01/17/11	KWG1014194	
Methoxychlor	**0.32**	J	0.49	0.16	1	12/28/10	01/17/11	KWG1014194	
Endrin Ketone	ND	U	0.97	0.70	1	12/28/10	01/17/11	KWG1014194	
Mirex	ND	U	0.97	0.12	1	12/28/10	01/17/11	KWG1014194	

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA

Chlorinated Pesticides by HRGC/MS/MS

Sample Name: Method Blank
Lab Code: KWG1014194-3

Units: ng/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
S_GBHCD6	82	5-124	01/17/11	Acceptable
S_HXCBZ13C6	74	5-120	01/17/11	Acceptable
S_Heptachlor-13C10	85	5-128	01/17/11	Acceptable
S_Chlorpyrifos-d10	91	5-200	01/17/11	Acceptable
S_Aldrin-13C12	88	5-126	01/17/11	Acceptable
S_Ocstyrene13C8	94	5-120	01/17/11	Acceptable
S_Isodrin-13C12	103	5-120	01/17/11	Acceptable
S_Oxychlordane-13C10	95	5-144	01/17/11	Acceptable
S_Heptachlrepox13C10	92	8-146	01/17/11	Acceptable
S_Endrin-13C12	91	20-157	01/17/11	Acceptable
S_4,4'DDD-d4	91	5-120	01/17/11	Acceptable
S_4,4'-DDT-d4	89	13-200	01/17/11	Acceptable
S_Mxchlord14	89	8-200	01/17/11	Acceptable
S_Endrinket13C12	89	5-120	01/17/11	Acceptable
S_Mirex-13C10	80	5-138	01/17/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Client: AECOM
Project: BASF/ Rensselaer/60135965.451

Service Request: K1014072

Cover Page - Organic Analysis Data Package
Semi-Volatile Organic Compounds by GC/MS

Sample Name	Lab Code	Date Collected	Date Received
TC-1A	K1014072-001	12/16/2010	12/17/2010
TC-3A1	K1014072-003	12/16/2010	12/17/2010
TC-4A1	K1014072-004	12/16/2010	12/17/2010
TC-4A1MS	KWG1014130-3	12/16/2010	12/17/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Carl Rogers

Date: 1/20/11 Title: Client Supervisor

u:\Stealth\Crystal rpt\FormSSum.rpt SuperSet Reference: RR124562

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010
Date Prepared: 12/20/2010

Toxicity Characteristic Leaching Procedure (TCLP)
Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-1A
Lab Code: K1014072-001

Units: mg/L
Basis: NA

Preparation Method: EPA 1311
Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Pyridine	ND	U	0.50	0.25	5	1	12/27/10	01/10/11	
2-Methylphenol	ND	U	0.10	0.0086	200	1	12/27/10	01/10/11	
Hexachloroethane	ND	U	0.10	0.0048	3	1	12/27/10	01/10/11	
4-Methylphenol†	**0.73**		0.10	0.0047	200	1	12/27/10	01/10/11	
Nitrobenzene	ND	U	0.10	0.0079	2	1	12/27/10	01/10/11	
Hexachlorobutadiene	ND	U	0.10	0.0064	0.5	1	12/27/10	01/10/11	
2,4,6-Trichlorophenol	ND	U	0.10	0.0069	2	1	12/27/10	01/10/11	
2,4,5-Trichlorophenol	ND	U	0.10	0.0087	400	1	12/27/10	01/10/11	
2,4-Dinitrotoluene	ND	U	0.10	0.013	0.13	1	12/27/10	01/10/11	
Hexachlorobenzene	ND	U	0.10	0.0094	0.13	1	12/27/10	01/10/11	
Pentachlorophenol	ND	U	0.25	0.011	100	1	12/27/10	01/10/11	

Surrogate Name	%Rec	Control Limits	Note
2-Fluorophenol	66	39-106	Acceptable
Phenol-d6	64	35-106	Acceptable
Nitrobenzene-d5	94	42-121	Acceptable
2-Fluorobiphenyl	80	38-113	Acceptable
2,4,6-Tribromophenol	82	13-122	Acceptable
Terphenyl-d14	80	35-138	Acceptable

† Analyte Comments

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010
Date Prepared: 12/20/2010

Toxicity Characteristic Leaching Procedure (TCLP)
Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-3A1
Lab Code: K1014072-003

Units: mg/L
Basis: NA

Preparation Method: EPA 1311
Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Pyridine	ND	U	0.50	0.25	5	1	12/27/10	01/10/11	
2-Methylphenol	ND	U	0.10	0.0086	200	1	12/27/10	01/10/11	
Hexachloroethane	ND	U	0.10	0.0048	3	1	12/27/10	01/10/11	
4-Methylphenol†	**0.14**		0.10	0.0047	200	1	12/27/10	01/10/11	
Nitrobenzene	ND	U	0.10	0.0079	2	1	12/27/10	01/10/11	
Hexachlorobutadiene	ND	U	0.10	0.0064	0.5	1	12/27/10	01/10/11	
2,4,6-Trichlorophenol	ND	U	0.10	0.0069	2	1	12/27/10	01/10/11	
2,4,5-Trichlorophenol	ND	U	0.10	0.0087	400	1	12/27/10	01/10/11	
2,4-Dinitrotoluene	ND	U	0.10	0.013	0.13	1	12/27/10	01/10/11	
Hexachlorobenzene	ND	U	0.10	0.0094	0.13	1	12/27/10	01/10/11	
Pentachlorophenol	ND	U	0.25	0.011	100	1	12/27/10	01/10/11	

Surrogate Name	%Rec	Control Limits	Note
2-Fluorophenol	63	39-106	Acceptable
Phenol-d6	66	35-106	Acceptable
Nitrobenzene-d5	88	42-121	Acceptable
2-Fluorobiphenyl	74	38-113	Acceptable
2,4,6-Tribromophenol	71	13-122	Acceptable
Terphenyl-d14	78	35-138	Acceptable

† Analyte Comments

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010
Date Prepared: 12/20/2010

Toxicity Characteristic Leaching Procedure (TCLP)
Semi-Volatile Organic Compounds by GC/MS

Sample Name: TC-4A1
Lab Code: K1014072-004

Units: mg/L
Basis: NA

Preparation Method: EPA 1311
Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Pyridine	ND	U	0.50	0.25	5	1	12/27/10	01/10/11	
2-Methylphenol	ND	U	0.10	0.0086	200	1	12/27/10	01/10/11	
Hexachloroethane	ND	U	0.10	0.0048	3	1	12/27/10	01/10/11	
4-Methylphenol†	**0.24**		0.10	0.0047	200	1	12/27/10	01/10/11	
Nitrobenzene	ND	U	0.10	0.0079	2	1	12/27/10	01/10/11	
Hexachlorobutadiene	ND	U	0.10	0.0064	0.5	1	12/27/10	01/10/11	
2,4,6-Trichlorophenol	ND	U	0.10	0.0069	2	1	12/27/10	01/10/11	
2,4,5-Trichlorophenol	ND	U	0.10	0.0087	400	1	12/27/10	01/10/11	
2,4-Dinitrotoluene	ND	U	0.10	0.013	0.13	1	12/27/10	01/10/11	
Hexachlorobenzene	ND	U	0.10	0.0094	0.13	1	12/27/10	01/10/11	
Pentachlorophenol	ND	U	0.25	0.011	100	1	12/27/10	01/10/11	

Surrogate Name	%Rec	Control Limits	Note
2-Fluorophenol	67	39-106	Acceptable
Phenol-d6	63	35-106	Acceptable
Nitrobenzene-d5	88	42-121	Acceptable
2-Fluorobiphenyl	78	38-113	Acceptable
2,4,6-Tribromophenol	77	13-122	Acceptable
Terphenyl-d14	78	35-138	Acceptable

† Analyte Comments

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: NA
Date Received: NA
Date Prepared: 12/20/2010

Toxicity Characteristic Leaching Procedure (TCLP)
Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1014130-2

Units: mg/L
Basis: NA

Preparation Method: EPA 1311
Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
Pyridine	ND	U	0.50	0.25	5	1	12/27/10	01/10/11	
2-Methylphenol	ND	U	0.10	0.0086	200	1	12/27/10	01/10/11	
Hexachloroethane	ND	U	0.10	0.0048	3	1	12/27/10	01/10/11	
4-Methylphenol†	ND	U	0.10	0.0047	200	1	12/27/10	01/10/11	
Nitrobenzene	ND	U	0.10	0.0079	2	1	12/27/10	01/10/11	
Hexachlorobutadiene	ND	U	0.10	0.0064	0.5	1	12/27/10	01/10/11	
2,4,6-Trichlorophenol	ND	U	0.10	0.0069	2	1	12/27/10	01/10/11	
2,4,5-Trichlorophenol	ND	U	0.10	0.0087	400	1	12/27/10	01/10/11	
2,4-Dinitrotoluene	ND	U	0.10	0.013	0.13	1	12/27/10	01/10/11	
Hexachlorobenzene	ND	U	0.10	0.0094	0.13	1	12/27/10	01/10/11	
Pentachlorophenol	ND	U	0.25	0.011	100	1	12/27/10	01/10/11	

Surrogate Name	%Rec	Control Limits	Note
2-Fluorophenol	75	39-106	Acceptable
Phenol-d6	70	35-106	Acceptable
Nitrobenzene-d5	96	42-121	Acceptable
2-Fluorobiphenyl	82	38-113	Acceptable
2,4,6-Tribromophenol	81	13-122	Acceptable
Terphenyl-d14	91	35-138	Acceptable

† Analyte Comments

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.

Comments:

Chlorinated Pesticides after TCLP Extraction

Organic Analysis:
Chlorinated Pesticides in TCLP by HRGC/MS/MS

Summary Package

Sample and QC Results

Client: AECOM
Project: BASF/ Rensselaer/60135965.451

Service Request: K1014072

Cover Page - Organic Analysis Data Package
Chlorinated Pesticides in TCLP by HRGC/MS/MS

Sample Name	Lab Code	Date Collected	Date Received
TC-1A	K1014072-001	12/16/2010	12/17/2010
TC-3A1	K1014072-003	12/16/2010	12/17/2010
TC-4A1	K1014072-004	12/16/2010	12/17/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Carl Dagus

Date: 2/2/11 Title: Group Supervisor

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Prepared:	12/20/2010

Toxicity Characteristic Leaching Procedure (TCLP)
Chlorinated Pesticides in TCLP by HRGC/MS/MS

Sample Name:	TC-1A	**Units:**	ug/L
Lab Code:	K1014072-001	**Basis:**	NA
Preparation Method:	EPA 1311	**Level:**	Low
Extraction Method:	EPA 3535A		
Analysis Method:	CAS SOC-PESTMS2		

Analyte Name	Result	Q	MRL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
gamma-BHC (Lindane)	ND	U	0.0021	400	1	12/28/10	01/17/11	
Heptachlor	ND	U	0.0042	8	1	12/28/10	01/17/11	
Heptachlor Epoxide	ND	U	0.0042	8	1	12/28/10	01/17/11	
Endrin	ND	U	0.0084	20	1	12/28/10	01/17/11	
Methoxychlor	ND	U	0.0021	10000	1	12/28/10	01/17/11	
Oxychlordane	ND	U	0.021	30	1	12/28/10	01/17/11	
alpha-Chlordane	ND	U	0.0053	30	1	12/28/10	01/17/11	
gamma-Chlordane	ND	U	0.0053	30	1	12/28/10	01/17/11	
cis-Nonachlor	ND	U	0.0053	30	1	12/28/10	01/17/11	
trans-Nonachlor	ND	U	0.0053	30	1	12/28/10	01/17/11	

Surrogate Name	%Rec	Control Limits	Note
S_GBHCD6	92	5-124	Acceptable
S_Heptachlor-13C10	122	5-128	Acceptable
S_Heptachlrepox13C10	62	8-146	Acceptable
S_Endrin-13C12	63	20-157	Acceptable
S_Mxchlord14	49	8-200	Acceptable
S_Oxychlordane-13C10	58	5-144	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Collected: 12/16/2010
Date Received: 12/17/2010
Date Prepared: 12/20/2010

Toxicity Characteristic Leaching Procedure (TCLP)
Chlorinated Pesticides in TCLP by HRGC/MS/MS

Sample Name: TC-3A1
Lab Code: K1014072-003

Units: ug/L
Basis: NA

Preparation Method: EPA 1311
Extraction Method: EPA 3535A
Analysis Method: CAS SOC-PESTMS2

Level: Low

Analyte Name	Result	Q	MRL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
gamma-BHC (Lindane)	ND	U	0.0022	400	1	12/28/10	01/17/11	
Heptachlor	ND	U	0.0043	8	1	12/28/10	01/17/11	
Heptachlor Epoxide	ND	U	0.0043	8	1	12/28/10	01/17/11	
Endrin	ND	U	0.0086	20	1	12/28/10	01/17/11	
Methoxychlor	ND	U	0.0022	10000	1	12/28/10	01/17/11	
Oxychlordane	ND	U	0.022	30	1	12/28/10	01/17/11	
alpha-Chlordane	ND	U	0.0054	30	1	12/28/10	01/17/11	
gamma-Chlordane	ND	U	0.0054	30	1	12/28/10	01/17/11	
cis-Nonachlor	ND	U	0.0054	30	1	12/28/10	01/17/11	
trans-Nonachlor	ND	U	0.0054	30	1	12/28/10	01/17/11	

Surrogate Name	%Rec	Control Limits	Note
S_GBHCD6	91	5-124	Acceptable
S_Heptachlor-13C10	132	5-128	Outside Control Limits
S_Heptachlrepox13C10	58	8-146	Acceptable
S_Endrin-13C12	60	20-157	Acceptable
S_Mxchlord14	48	8-200	Acceptable
S_Oxychlordane-13C10	43	5-144	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	12/16/2010
Sample Matrix:	Soil	**Date Received:**	12/17/2010
		Date Prepared:	12/20/2010

Toxicity Characteristic Leaching Procedure (TCLP)
Chlorinated Pesticides in TCLP by HRGC/MS/MS

Sample Name:	TC-4A1	**Units:**	ug/L
Lab Code:	K1014072-004	**Basis:**	NA
Preparation Method:	EPA 1311	**Level:**	Low
Extraction Method:	EPA 3535A		
Analysis Method:	CAS SOC-PESTMS2		

Analyte Name	Result	Q	MRL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
gamma-BHC (Lindane)	ND	U	0.0020	400	1	12/28/10	01/17/11	
Heptachlor	ND	U	0.0039	8	1	12/28/10	01/17/11	
Heptachlor Epoxide	ND	U	0.0039	8	1	12/28/10	01/17/11	
Endrin	ND	U	0.0077	20	1	12/28/10	01/17/11	
Methoxychlor	ND	U	0.0020	10000	1	12/28/10	01/17/11	
Oxychlordane	ND	U	0.020	30	1	12/28/10	01/17/11	
alpha-Chlordane	ND	U	0.0049	30	1	12/28/10	01/17/11	
gamma-Chlordane	ND	U	0.0049	30	1	12/28/10	01/17/11	
cis-Nonachlor	ND	U	0.0049	30	1	12/28/10	01/17/11	
trans-Nonachlor	ND	U	0.0049	30	1	12/28/10	01/17/11	

Surrogate Name	%Rec	Control Limits	Note
S_GBHCD6	101	5-124	Acceptable
S_Heptachlor-13C10	146	5-128	Outside Control Limits
S_Heptachlrepox13C10	71	8-146	Acceptable
S_Endrin-13C12	67	20-157	Acceptable
S_Mxchlord14	59	8-200	Acceptable
S_Oxychlordane-13C10	81	5-144	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	AECOM	**Service Request:**	K1014072
Project:	BASF/ Rensselaer/60135965.451	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Prepared:	12/20/2010

Toxicity Characteristic Leaching Procedure (TCLP)
Chlorinated Pesticides in TCLP by HRGC/MS/MS

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1014194-3	**Basis:**	NA
Preparation Method:	EPA 1311	**Level:**	Low
Extraction Method:	EPA 3535A		
Analysis Method:	CAS SOC-PESTMS2		

Analyte Name	Result	Q	MRL	Regulatory Limit	Dilution Factor	Date Extracted	Date Analyzed	Note
gamma-BHC (Lindane)	ND	U	0.00049	400	1	12/28/10	01/17/11	
Heptachlor	ND	U	0.00097	8	1	12/28/10	01/17/11	
Heptachlor Epoxide	ND	U	0.00097	8	1	12/28/10	01/17/11	
Endrin	ND	U	0.0020	20	1	12/28/10	01/17/11	
Methoxychlor	ND	U	0.00049	10000	1	12/28/10	01/17/11	
Oxychlordane	ND	U	0.0020	30	1	12/28/10	01/17/11	
alpha-Chlordane	ND	U	0.00049	30	1	12/28/10	01/17/11	
gamma-Chlordane	ND	U	0.00049	30	1	12/28/10	01/17/11	
cis-Nonachlor	ND	U	0.00049	30	1	12/28/10	01/17/11	
trans-Nonachlor	ND	U	0.00049	30	1	12/28/10	01/17/11	

Surrogate Name	%Rec	Control Limits	Note
S_GBHCD6	82	5-124	Acceptable
S_Heptachlor-13C10	85	5-128	Acceptable
S_Heptachlrepox13C10	92	8-146	Acceptable
S_Endrin-13C12	91	20-157	Acceptable
S_Mxchlord14	89	8-200	Acceptable
S_Oxychlordane-13C10	95	5-144	Acceptable

Comments:

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072

Surrogate Recovery Summary
Toxicity Characteristic Leaching Procedure (TCLP)
Chlorinated Pesticides in TCLP by HRGC/MS/MS

Preparation Method: EPA 1311
Extraction Method: EPA 3535A
Analysis Method: CAS SOC-PESTMS2

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2		Sur3	Sur4	Sur5	Sur6
TC-1A	K1014072-001	92	122		62	63	49	58
TC-3A1	K1014072-003	91	132	*	58	60	48	43
TC-4A1	K1014072-004	101	146	*	71	67	59	81
Method Blank	KWG1014194-3	82	85		92	91	89	95
Lab Control Sample	KWG1014194-1	72	80		73	73	69	77
Duplicate Lab Control Sample	KWG1014194-2	89	86		90	96	94	93

Surrogate Recovery Control Limits (%)

Sur1 = S_GBHCD6	5-124	Sur5 = S_Mxchlord14	8-200
Sur2 = S_Heptachlor-13C10	5-128	Sur6 = S_Oxychlordane-13C10	5-144
Sur3 = S_Heptachlrepox13C10	8-146		
Sur4 = S_Endrin-13C12	20-157		

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: AECOM
Project: BASF/ Rensselaer/60135965.451

Service Request: K1014072
Date Analyzed: 01/17/2011
Time Analyzed: 12:20

Internal Standard Area and RT Summary
Chlorinated Pesticides in TCLP by HRGC/MS/MS

File ID: J:\MS21\DATA\011711\0117F015.D
Instrument ID: MS21
Analysis Method: CAS SOC-PESTMS

Lab Code: KWG1100645-1
Analysis Lot: KWG1100645

		5,5'-Tetrachlorobiphenyl-13		gamma-BHC-d6		Heptachlor-13C10	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	73,349	12.29	7,224	11.20	6,677	12.03
	Upper Limit ==>	146,698	12.79	14,447	11.70	13,355	12.53
	Lower Limit ==>	36,674	11.79	361	10.70	334	11.53
	ICAL Result ==>	66,522	12.29	6,945	11.21	5,726	12.03
Associated Analyses							
Method Blank	KWG1014194-3	73,906	12.29	6,247	11.20	5,891	12.03
Lab Control Sample	KWG1014194-1	71,664	12.29	5,349	11.20	5,395	12.03
Duplicate Lab Control Sample	KWG1014194-2	63,607	12.29	5,846	11.20	5,156	12.03
TC-1A	K1014072-001	93,526	12.29	860	11.21	910	12.03
TC-3A1	K1014072-003	94,202	12.29	895	11.21	1,079	12.03
TC-4A1	K1014072-004	93,164	12.29	1,014	11.22	1,251	12.03
TC-1ARE	K1014072-001	110,943	12.30	2,632	11.22	3,173	12.04
TC-3A1RE	K1014072-003	114,014	12.30	2,668	11.23	3,553	12.05
TC-4A1RE	K1014072-004	106,527	12.30	2,773	11.24	3,651	12.05

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: AECOM
Project: BASF/ Rensselaer/60135965.451

Service Request: K1014072
Date Analyzed: 01/17/2011
Time Analyzed: 12:20

Internal Standard Area and RT Summary
Chlorinated Pesticides in TCLP by HRGC/MS/MS

File ID: J:\MS21\DATA\011711\0117F015.D
Instrument ID: MS21
Analysis Method: CAS SOC-PESTMS

Lab Code: KWG1100645-1
Analysis Lot: KWG1100645

		Ieptachlor Epoxide-13C1		Endrin-13C12		Methoxychlor-d14	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	4,231	13.22	1,743	14.85	22,700	16.96
	Upper Limit ==>	8,463	13.72	3,485	15.35	45,401	17.46
	Lower Limit ==>	212	12.72	87	14.35	1,135	16.46
	ICAL Result ==>	4,135	13.22	1,790	14.85	25,553	16.96
Associated Analyses							
Method Blank	KWG1014194-3	4,104	13.22	1,757	14.85	23,369	16.96
Lab Control Sample	KWG1014194-1	3,147	13.22	1,356	14.84	17,453	16.96
Duplicate Lab Control Sample	KWG1014194-2	3,446	13.22	1,591	14.84	21,241	16.96
TC-1A	K1014072-001	270	13.23	136	14.85	1,564	16.96
TC-3A1	K1014072-003	342	13.23	155	14.85	1,650	16.96
TC-4A1	K1014072-004	377	13.23	159	14.85	1,746	16.96
TC-1ARE	K1014072-001	1,033	13.23	452	14.86	4,776	16.96
TC-3A1RE	K1014072-003	1,002	13.23	446	14.86	4,895	16.96
TC-4A1RE	K1014072-004	1,151	13.24	461	14.87	5,542	16.96

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: AECOM
Project: BASF/ Rensselaer/60135965.451

Service Request: K1014072
Date Analyzed: 01/17/2011
Time Analyzed: 12:20

Internal Standard Area and RT Summary
Chlorinated Pesticides in TCLP by HRGC/MS/MS

File ID: J:\MS21\DATA\011711\0117F015.D
Instrument ID: MS21
Analysis Method: CAS SOC-PESTMS

Lab Code: KWG1100645-1
Analysis Lot: KWG1100645

		Oxychlordane-13C10	
		Area	RT
	Results ==>	2,957	13.14
	Upper Limit ==>	5,913	13.64
	Lower Limit ==>	148	12.64
	ICAL Result ==>	2,902	13.15
Associated Analyses			
Method Blank	KWG1014194-3	2,856	13.15
Lab Control Sample	KWG1014194-1	2,232	13.14
Duplicate Lab Control Sample	KWG1014194-2	2,403	13.14
TC-1A	K1014072-001	219	13.15
TC-3A1	K1014072-003	165	13.14
TC-4A1	K1014072-004	307	13.15
TC-1ARE	K1014072-001	678	13.14
TC-3A1RE	K1014072-003	1,720	13.15
TC-4A1RE	K1014072-004	1,603	13.15

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: AECOM
Project: BASF/ Rensselaer/60135965.451
Sample Matrix: Soil

Service Request: K1014072
Date Prepared: 12/20/2010
Date Extracted: 12/28/2010
Date Analyzed: 01/17/2011

Lab Control Spike/Duplicate Lab Control Spike Summary
Chlorinated Pesticides in TCLP by HRGC/MS/MS

Extraction Method: EPA 1311/EPA 3535A
Analysis Method: CAS SOC-PESTMS2

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1014194

	Lab Control Sample KWG1014194-1 Lab Control Spike			Duplicate Lab Control Sample KWG1014194-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
gamma-BHC (Lindane)	0.0176	0.0200	88	0.0212	0.0200	106	50-120	19	30
Heptachlor	0.0177	0.0200	89	0.0211	0.0200	106	50-120	17	30
Heptachlor Epoxide	0.0187	0.0200	93	0.0208	0.0200	104	50-120	11	30
Endrin	0.0177	0.0200	88	0.0191	0.0200	96	50-120	8	30
Methoxychlor	0.0177	0.0200	89	0.0217	0.0200	109	50-120	20	30
Oxychlordane	0.0190	0.0200	95	0.0232	0.0200	116	50-120	20	30
alpha-Chlordane	0.0179	0.0200	89	0.0211	0.0200	105	50-120	16	30
gamma-Chlordane	0.0182	0.0200	91	0.0212	0.0200	106	50-120	15	30
cis-Nonachlor	0.0182	0.0200	91	0.0229	0.0200	114	50-120	23	30
trans-Nonachlor	0.0172	0.0200	86	0.0209	0.0200	104	50-120	19	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Blended Containment Cell (SS-1 through SS-4)
TCLP VOC's

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-20603-1
Client Project/Site: BASF Rensselaer, NY

For:
AECOM, Inc.
250 Apollo Drive
Chelmsford, Massachusetts 01824

Attn: Mr. Sean Crowell

Authorized for release by:
6/13/2012 11:30:55 AM

John Schove
Project Manager I
john.schove@testamericainc.com

Table of Contents

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-20603-1

Job ID: 480-20603-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-20603-1

Comments
No additional comments.

Receipt
The samples were received on 5/30/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA
Method(s) 8260B: The following samples were diluted due to the abundance of target analytes: SS-1 (480-20603-1), SS-2 (480-20603-2), SS-3 (480-20603-3), SS-4 (480-20603-4), SS-5 (480-20603-5). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-20603-1

Client Sample ID: SS-1 — Lab Sample ID: 480-20603-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.84		0.0041		mg/L	10		8260B	TCLP
1,2-Dichloroethane	0.18		0.0021		mg/L	10		8260B	TCLP
Tetrachloroethene	0.0060		0.0036		mg/L	10		8260B	TCLP
Trichloroethene	0.0069		0.0046		mg/L	10		8260B	TCLP
Chlorobenzene - DL	29		0.38		mg/L	500		8260B	TCLP

Client Sample ID: SS-2 — Lab Sample ID: 480-20603-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.84		0.0041		mg/L	10		8260B	TCLP
1,2-Dichloroethane	0.10		0.0021		mg/L	10		8260B	TCLP
Tetrachloroethene	0.0063		0.0036		mg/L	10		8260B	TCLP
Trichloroethene	0.0078		0.0046		mg/L	10		8260B	TCLP
Chlorobenzene - DL	26		0.38		mg/L	500		8260B	TCLP

Client Sample ID: SS-3 — Lab Sample ID: 480-20603-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.16		0.0021		mg/L	10		8260B	TCLP
Tetrachloroethene	0.0075		0.0036		mg/L	10		8260B	TCLP
Trichloroethene	0.011		0.0046		mg/L	10		8260B	TCLP
Benzene - DL	0.94		0.21		mg/L	500		8260B	TCLP
Chlorobenzene - DL	27		0.38		mg/L	500		8260B	TCLP

Client Sample ID: SS-4 — Lab Sample ID: 480-20603-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.68		0.0041		mg/L	10		8260B	TCLP
1,2-Dichloroethane	0.13		0.0021		mg/L	10		8260B	TCLP
Tetrachloroethene	0.0060		0.0036		mg/L	10		8260B	TCLP
Trichloroethene	0.0068		0.0046		mg/L	10		8260B	TCLP
Chlorobenzene - DL	19		0.38		mg/L	500		8260B	TCLP

Client Sample ID: SS-5 — Lab Sample ID: 480-20603-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.22		0.0021		mg/L	10		8260B	TCLP
Tetrachloroethene	0.0083		0.0036		mg/L	10		8260B	TCLP
Trichloroethene	0.012		0.0046		mg/L	10		8260B	TCLP
Benzene - DL	1.3		0.33		mg/L	800		8260B	TCLP
Chlorobenzene - DL	36		0.60		mg/L	800		8260B	TCLP

Client Sample ID: SS-1

Lab Sample ID: 480-20603-1

Date Collected: 05/29/12 09:30

Matrix: Solid

Date Received: 05/30/12 09:00

Method: 8260B - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.84**		0.0041		mg/L			06/04/12 16:29	10
Carbon tetrachloride	ND		0.0027		mg/L			06/04/12 16:29	10
Chloroform	ND		0.0034		mg/L			06/04/12 16:29	10
1,2-Dichloroethane	**0.18**		0.0021		mg/L			06/04/12 16:29	10
1,1-Dichloroethene	ND		0.0029		mg/L			06/04/12 16:29	10
2-Butanone (MEK)	ND		0.013		mg/L			06/04/12 16:29	10
Tetrachloroethene	**0.0060**		0.0036		mg/L			06/04/12 16:29	10
Trichloroethene	**0.0069**		0.0046		mg/L			06/04/12 16:29	10
Vinyl chloride	ND		0.0090		mg/L			06/04/12 16:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*66 - 137*		*06/04/12 16:29*	*10*
Toluene-d8 (Surr)	*98*		*71 - 126*		*06/04/12 16:29*	*10*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/04/12 16:29*	*10*

Method: 8260B - TCLP Volatiles - TCLP - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**29**		0.38		mg/L			06/06/12 03:13	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*66 - 137*		*06/06/12 03:13*	*500*
Toluene-d8 (Surr)	*91*		*71 - 126*		*06/06/12 03:13*	*500*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*06/06/12 03:13*	*500*

Client Sample ID: SS-2

Lab Sample ID: 480-20603-2

Date Collected: 05/29/12 10:15

Matrix: Solid

Date Received: 05/30/12 09:00

Method: 8260B - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.84**		0.0041		mg/L			06/04/12 16:54	10
Carbon tetrachloride	ND		0.0027		mg/L			06/04/12 16:54	10
Chloroform	ND		0.0034		mg/L			06/04/12 16:54	10
1,2-Dichloroethane	**0.10**		0.0021		mg/L			06/04/12 16:54	10
1,1-Dichloroethene	ND		0.0029		mg/L			06/04/12 16:54	10
2-Butanone (MEK)	ND		0.013		mg/L			06/04/12 16:54	10
Tetrachloroethene	**0.0063**		0.0036		mg/L			06/04/12 16:54	10
Trichloroethene	**0.0078**		0.0046		mg/L			06/04/12 16:54	10
Vinyl chloride	ND		0.0090		mg/L			06/04/12 16:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*66 - 137*		*06/04/12 16:54*	*10*
Toluene-d8 (Surr)	*97*		*71 - 126*		*06/04/12 16:54*	*10*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*06/04/12 16:54*	*10*

Method: 8260B - TCLP Volatiles - TCLP - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**26**		0.38		mg/L			06/06/12 03:39	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*66 - 137*		*06/06/12 03:39*	*500*
Toluene-d8 (Surr)	*89*		*71 - 126*		*06/06/12 03:39*	*500*

Client Sample ID: SS-2

Date Collected: 05/29/12 10:15
Date Received: 05/30/12 09:00

Lab Sample ID: 480-20603-2
Matrix: Solid

Method: 8260B - TCLP Volatiles - TCLP - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*06/06/12 03:39*	*500*

Client Sample ID: SS-3

Date Collected: 05/29/12 11:30
Date Received: 05/30/12 09:00

Lab Sample ID: 480-20603-3
Matrix: Solid

Method: 8260B - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0027		mg/L			06/04/12 17:19	10
Chloroform	ND		0.0034		mg/L			06/04/12 17:19	10
1,2-Dichloroethane	**0.16**		0.0021		mg/L			06/04/12 17:19	10
1,1-Dichloroethene	ND		0.0029		mg/L			06/04/12 17:19	10
2-Butanone (MEK)	ND		0.013		mg/L			06/04/12 17:19	10
Tetrachloroethene	**0.0075**		0.0036		mg/L			06/04/12 17:19	10
Trichloroethene	**0.011**		0.0046		mg/L			06/04/12 17:19	10
Vinyl chloride	ND		0.0090		mg/L			06/04/12 17:19	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*82*		*66 - 137*		*06/04/12 17:19*	*10*
Toluene-d8 (Surr)	*102*		*71 - 126*		*06/04/12 17:19*	*10*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*06/04/12 17:19*	*10*

Method: 8260B - TCLP Volatiles - TCLP - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.94**		0.21		mg/L			06/06/12 04:04	500
Chlorobenzene	**27**		0.38		mg/L			06/06/12 04:04	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*80*		*66 - 137*		*06/06/12 04:04*	*500*
Toluene-d8 (Surr)	*88*		*71 - 126*		*06/06/12 04:04*	*500*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*06/06/12 04:04*	*500*

Client Sample ID: SS-4

Date Collected: 05/29/12 12:30
Date Received: 05/30/12 09:00

Lab Sample ID: 480-20603-4
Matrix: Solid

Method: 8260B - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.68**		0.0041		mg/L			06/04/12 17:44	10
Carbon tetrachloride	ND		0.0027		mg/L			06/04/12 17:44	10
Chloroform	ND		0.0034		mg/L			06/04/12 17:44	10
1,2-Dichloroethane	**0.13**		0.0021		mg/L			06/04/12 17:44	10
1,1-Dichloroethene	ND		0.0029		mg/L			06/04/12 17:44	10
2-Butanone (MEK)	ND		0.013		mg/L			06/04/12 17:44	10
Tetrachloroethene	**0.0060**		0.0036		mg/L			06/04/12 17:44	10
Trichloroethene	**0.0068**		0.0046		mg/L			06/04/12 17:44	10
Vinyl chloride	ND		0.0090		mg/L			06/04/12 17:44	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*82*		*66 - 137*		*06/04/12 17:44*	*10*
Toluene-d8 (Surr)	*98*		*71 - 126*		*06/04/12 17:44*	*10*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/04/12 17:44*	*10*

Client Sample ID: SS-4

Date Collected: 05/29/12 12:30
Date Received: 05/30/12 09:00

Lab Sample ID: 480-20603-4
Matrix: Solid

Method: 8260B - TCLP Volatiles - TCLP - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**19**		0.38		mg/L			06/06/12 04:30	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*66 - 137*		*06/06/12 04:30*	*500*
Toluene-d8 (Surr)	*88*		*71 - 126*		*06/06/12 04:30*	*500*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*06/06/12 04:30*	*500*

Client Sample ID: SS-5

Date Collected: 05/29/12 14:00
Date Received: 05/30/12 09:00

Lab Sample ID: 480-20603-5
Matrix: Solid

Method: 8260B - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0027		mg/L			06/04/12 18:09	10
Chloroform	ND		0.0034		mg/L			06/04/12 18:09	10
1,2-Dichloroethane	**0.22**		0.0021		mg/L			06/04/12 18:09	10
1,1-Dichloroethene	ND		0.0029		mg/L			06/04/12 18:09	10
2-Butanone (MEK)	ND		0.013		mg/L			06/04/12 18:09	10
Tetrachloroethene	**0.0083**		0.0036		mg/L			06/04/12 18:09	10
Trichloroethene	**0.012**		0.0046		mg/L			06/04/12 18:09	10
Vinyl chloride	ND		0.0090		mg/L			06/04/12 18:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*66 - 137*		*06/04/12 18:09*	*10*
Toluene-d8 (Surr)	*102*		*71 - 126*		*06/04/12 18:09*	*10*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*06/04/12 18:09*	*10*

Method: 8260B - TCLP Volatiles - TCLP - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.3**		0.33		mg/L			06/06/12 04:56	800
Chlorobenzene	**36**		0.60		mg/L			06/06/12 04:56	800

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*66 - 137*		*06/06/12 04:56*	*800*
Toluene-d8 (Surr)	*88*		*71 - 126*		*06/06/12 04:56*	*800*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*06/06/12 04:56*	*800*

Surrogate Summary

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-20603-1

Method: 8260B - TCLP Volatiles

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
LCS 480-66963/4	Lab Control Sample	82	90	94
LCS 480-67212/4	Lab Control Sample	78	88	93
MB 480-66963/5	Method Blank	84	93	98
MB 480-67212/5	Method Blank	80	90	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B - TCLP Volatiles

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
480-20603-1	SS-1	79	98	100
480-20603-1 - DL	SS-1	82	91	96
480-20603-2	SS-2	80	97	99
480-20603-2 - DL	SS-2	79	89	92
480-20603-3	SS-3	82	102	101
480-20603-3 - DL	SS-3	80	88	92
480-20603-4	SS-4	82	98	98
480-20603-4 - DL	SS-4	81	88	92
480-20603-5	SS-5	82	102	102
480-20603-5 - DL	SS-5	80	88	92
LB 480-66791/1-A LB	Method Blank	81	90	95

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B - TCLP Volatiles

Lab Sample ID: MB 480-66963/5
Matrix: Solid
Analysis Batch: 66963

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/L			06/04/12 12:54	1
Carbon tetrachloride	ND		0.0010		mg/L			06/04/12 12:54	1
Chlorobenzene	ND		0.0010		mg/L			06/04/12 12:54	1
Chloroform	ND		0.0010		mg/L			06/04/12 12:54	1
1,2-Dichloroethane	ND		0.0010		mg/L			06/04/12 12:54	1
1,1-Dichloroethene	ND		0.0010		mg/L			06/04/12 12:54	1
2-Butanone (MEK)	ND		0.0050		mg/L			06/04/12 12:54	1
Tetrachloroethene	ND		0.0010		mg/L			06/04/12 12:54	1
Trichloroethene	ND		0.0010		mg/L			06/04/12 12:54	1
Vinyl chloride	ND		0.0010		mg/L			06/04/12 12:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*66 - 137*		*06/04/12 12:54*	*1*
Toluene-d8 (Surr)	*93*		*71 - 126*		*06/04/12 12:54*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/04/12 12:54*	*1*

Lab Sample ID: LCS 480-66963/4
Matrix: Solid
Analysis Batch: 66963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0250	0.0252		mg/L		101	71 - 124
Chlorobenzene	0.0250	0.0261		mg/L		104	72 - 120
1,2-Dichloroethane	0.0250	0.0231		mg/L		92	75 - 127
1,1-Dichloroethene	0.0250	0.0215		mg/L		86	65 - 138
Tetrachloroethene	0.0250	0.0270		mg/L		108	74 - 122
Trichloroethene	0.0250	0.0251		mg/L		100	74 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*66 - 137*
Toluene-d8 (Surr)	*90*		*71 - 126*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*

Lab Sample ID: MB 480-67212/5
Matrix: Solid
Analysis Batch: 67212

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/L			06/05/12 23:12	1
Carbon tetrachloride	ND		0.0010		mg/L			06/05/12 23:12	1
Chlorobenzene	ND		0.0010		mg/L			06/05/12 23:12	1
Chloroform	ND		0.0010		mg/L			06/05/12 23:12	1
1,2-Dichloroethane	ND		0.0010		mg/L			06/05/12 23:12	1
1,1-Dichloroethene	ND		0.0010		mg/L			06/05/12 23:12	1
2-Butanone (MEK)	ND		0.0050		mg/L			06/05/12 23:12	1
Tetrachloroethene	ND		0.0010		mg/L			06/05/12 23:12	1
Trichloroethene	ND		0.0010		mg/L			06/05/12 23:12	1
Vinyl chloride	ND		0.0010		mg/L			06/05/12 23:12	1

Method: 8260B - TCLP Volatiles (Continued)

Lab Sample ID: MB 480-67212/5
Matrix: Solid
Analysis Batch: 67212

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*80*		*66 - 137*		*06/05/12 23:12*	*1*
Toluene-d8 (Surr)	*90*		*71 - 126*		*06/05/12 23:12*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*06/05/12 23:12*	*1*

Lab Sample ID: LCS 480-67212/4
Matrix: Solid
Analysis Batch: 67212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0250	0.0226		mg/L		90	71 - 124
Chlorobenzene	0.0250	0.0238		mg/L		95	72 - 120
1,2-Dichloroethane	0.0250	0.0215		mg/L		86	75 - 127
1,1-Dichloroethene	0.0250	0.0191		mg/L		76	65 - 138
Tetrachloroethene	0.0250	0.0242		mg/L		97	74 - 122
Trichloroethene	0.0250	0.0229		mg/L		92	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*78*		*66 - 137*
Toluene-d8 (Surr)	*88*		*71 - 126*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*

Lab Sample ID: LB 480-66791/1-A LB
Matrix: Solid
Analysis Batch: 66963

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0041		mg/L			06/04/12 16:04	10
Carbon tetrachloride	ND		0.0027		mg/L			06/04/12 16:04	10
Chlorobenzene	ND		0.0075		mg/L			06/04/12 16:04	10
Chloroform	ND		0.0034		mg/L			06/04/12 16:04	10
1,2-Dichloroethane	ND		0.0021		mg/L			06/04/12 16:04	10
1,1-Dichloroethene	ND		0.0029		mg/L			06/04/12 16:04	10
2-Butanone (MEK)	ND		0.013		mg/L			06/04/12 16:04	10
Tetrachloroethene	ND		0.0036		mg/L			06/04/12 16:04	10
Trichloroethene	ND		0.0046		mg/L			06/04/12 16:04	10
Vinyl chloride	ND		0.0090		mg/L			06/04/12 16:04	10

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*81*		*66 - 137*		*06/04/12 16:04*	*10*
Toluene-d8 (Surr)	*90*		*71 - 126*		*06/04/12 16:04*	*10*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*06/04/12 16:04*	*10*

QC Association Summary

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-20603-1

GC/MS VOA

Leach Batch: 66791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-20603-1	SS-1	TCLP	Solid	1311	
480-20603-1 - DL	SS-1	TCLP	Solid	1311	
480-20603-2	SS-2	TCLP	Solid	1311	
480-20603-2 - DL	SS-2	TCLP	Solid	1311	
480-20603-3	SS-3	TCLP	Solid	1311	
480-20603-3 - DL	SS-3	TCLP	Solid	1311	
480-20603-4	SS-4	TCLP	Solid	1311	
480-20603-4 - DL	SS-4	TCLP	Solid	1311	
480-20603-5	SS-5	TCLP	Solid	1311	
480-20603-5 - DL	SS-5	TCLP	Solid	1311	
LB 480-66791/1-A LB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 66963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-20603-1	SS-1	TCLP	Solid	8260B	
480-20603-2	SS-2	TCLP	Solid	8260B	
480-20603-3	SS-3	TCLP	Solid	8260B	
480-20603-4	SS-4	TCLP	Solid	8260B	
480-20603-5	SS-5	TCLP	Solid	8260B	
LB 480-66791/1-A LB	Method Blank	TCLP	Solid	8260B	
LCS 480-66963/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 480-66963/5	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 67212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-20603-1 - DL	SS-1	TCLP	Solid	8260B	
480-20603-2 - DL	SS-2	TCLP	Solid	8260B	
480-20603-3 - DL	SS-3	TCLP	Solid	8260B	
480-20603-4 - DL	SS-4	TCLP	Solid	8260B	
480-20603-5 - DL	SS-5	TCLP	Solid	8260B	
LCS 480-67212/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 480-67212/5	Method Blank	Total/NA	Solid	8260B	

Lab Chronicle

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-20603-1

Client Sample ID: SS-1

Lab Sample ID: 480-20603-1

Date Collected: 05/29/12 09:30

Matrix: Solid

Date Received: 05/30/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66791	06/01/12 13:59	MRB	TAL BUF
TCLP	Analysis	8260B		10	66963	06/04/12 16:29	DC	TAL BUF
TCLP	Leach	1311	DL		66791	06/01/12 13:59	MRB	TAL BUF
TCLP	Analysis	8260B	DL	500	67212	06/06/12 03:13	LH	TAL BUF

Client Sample ID: SS-2

Lab Sample ID: 480-20603-2

Date Collected: 05/29/12 10:15

Matrix: Solid

Date Received: 05/30/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66791	06/01/12 13:59	MRB	TAL BUF
TCLP	Analysis	8260B		10	66963	06/04/12 16:54	DC	TAL BUF
TCLP	Leach	1311	DL		66791	06/01/12 13:59	MRB	TAL BUF
TCLP	Analysis	8260B	DL	500	67212	06/06/12 03:39	LH	TAL BUF

Client Sample ID: SS-3

Lab Sample ID: 480-20603-3

Date Collected: 05/29/12 11:30

Matrix: Solid

Date Received: 05/30/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66791	06/01/12 13:59	MRB	TAL BUF
TCLP	Analysis	8260B		10	66963	06/04/12 17:19	DC	TAL BUF
TCLP	Leach	1311	DL		66791	06/01/12 13:59	MRB	TAL BUF
TCLP	Analysis	8260B	DL	500	67212	06/06/12 04:04	LH	TAL BUF

Client Sample ID: SS-4

Lab Sample ID: 480-20603-4

Date Collected: 05/29/12 12:30

Matrix: Solid

Date Received: 05/30/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66791	06/01/12 13:59	MRB	TAL BUF
TCLP	Analysis	8260B		10	66963	06/04/12 17:44	DC	TAL BUF
TCLP	Leach	1311	DL		66791	06/01/12 13:59	MRB	TAL BUF
TCLP	Analysis	8260B	DL	500	67212	06/06/12 04:30	LH	TAL BUF

Client Sample ID: SS-5

Lab Sample ID: 480-20603-5

Date Collected: 05/29/12 14:00

Matrix: Solid

Date Received: 05/30/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			66791	06/01/12 13:59	MRB	TAL BUF
TCLP	Analysis	8260B		10	66963	06/04/12 18:09	DC	TAL BUF
TCLP	Leach	1311	DL		66791	06/01/12 13:59	MRB	TAL BUF
TCLP	Analysis	8260B	DL	800	67212	06/06/12 04:56	LH	TAL BUF

Lab Chronicle

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-20603-1

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-20603-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	Federal		P330-08-00242
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-20603-1

Method	Method Description	Protocol	Laboratory
8260B	TCLP Volatiles	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-20603-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-20603-1	SS-1	Solid	05/29/12 09:30	05/30/12 09:00
480-20603-2	SS-2	Solid	05/29/12 10:15	05/30/12 09:00
480-20603-3	SS-3	Solid	05/29/12 11:30	05/30/12 09:00
480-20603-4	SS-4	Solid	05/29/12 12:30	05/30/12 09:00
480-20603-5	SS-5	Solid	05/29/12 14:00	05/30/12 09:00

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: AECOM	Project Manager: Sean Crowell	Date: 5/29/12	Chain of Custody Number: 166504
Address: 3 Birch Street	Telephone Number (Area Code)/Fax Number: 978 846 2299	Lab Number:	Page 1 of 1
City: Sturbridge / State: MA / Zip Code: 01566	Site Contact: Mark Howard	Lab Contact:	
Project Name and Location (State): BASF / Rensselaer NY	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: Project No. 60135965.703			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Comp/Grab	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): TCLP VOCs	Special Instructions/ Conditions of Receipt
SS-1	5/29/12	930				X	X	X						X	
SS-2	5/29/12	1015				X	X	X						X	
SS-3	5/29/12	1130				X	X	X						X	
SS-4	5/29/12	1230				X	X	X						X	
SS-5	5/29/12	1400				X	X	X						X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Mark Howard	5/29/12	1500	1. Received By	5/29/12	1500
2. Relinquished By	5/29/12	1700	2. Received By	5/30/12	0900
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

3:1 #3

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 480-20603-1

Login Number: 20603

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Blended Containment Cell (SP-1AD, SP-1BC, SP-2AD, and SP-2BC) TCLP VOC's

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-26993-1
Client Project/Site: BASF Rensselaer, NY

For:
AECOM, Inc.
250 Apollo Drive
Chelmsford, Massachusetts 01824

Attn: Mr. Sean Crowell

Authorized for release by:
10/31/2012 11:15:53 AM

John Schove
Project Manager I
john.schove@testamericainc.com

Table of Contents

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-26993-1

Job ID: 480-26993-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-26993-1

Comments
No additional comments.

Receipt
The samples were received on 10/22/2012 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5º C.

GC/MS VOA
Method(s) 8260B: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: SP-1AD (480-26993-1), SP-1BC (480-26993-2), SP-2AD (480-26993-3, SP-2BC (480-26993-4). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-26993-1

Client Sample ID: SP-1AD — Lab Sample ID: 480-26993-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.18		0.0041		mg/L	10		8260B	TCLP
1,2-Dichloroethane	0.028		0.0021		mg/L	10		8260B	TCLP
Chlorobenzene - DL	11		0.15		mg/L	200		8260B	TCLP

Client Sample ID: SP-1BC — Lab Sample ID: 480-26993-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.26		0.0041		mg/L	10		8260B	TCLP
1,2-Dichloroethane	0.055		0.0021		mg/L	10		8260B	TCLP
Chlorobenzene - DL	13		0.15		mg/L	200		8260B	TCLP

Client Sample ID: SP-2AD — Lab Sample ID: 480-26993-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.28		0.0041		mg/L	10		8260B	TCLP
1,2-Dichloroethane	0.050		0.0021		mg/L	10		8260B	TCLP
Chlorobenzene - DL	13		0.15		mg/L	200		8260B	TCLP

Client Sample ID: SP-2BC — Lab Sample ID: 480-26993-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.31		0.0041		mg/L	10		8260B	TCLP
1,2-Dichloroethane	0.063		0.0021		mg/L	10		8260B	TCLP
Chlorobenzene - DL	14		0.19		mg/L	250		8260B	TCLP

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-26993-1

Client Sample ID: SP-1AD
Date Collected: 10/19/12 12:20
Date Received: 10/22/12 08:15

Lab Sample ID: 480-26993-1
Matrix: Solid

Method: 8260B - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.18**		0.0041		mg/L			10/29/12 23:07	10
Carbon tetrachloride	ND		0.0027		mg/L			10/29/12 23:07	10
Chloroform	ND		0.0034		mg/L			10/29/12 23:07	10
1,2-Dichloroethane	**0.028**		0.0021		mg/L			10/29/12 23:07	10
1,1-Dichloroethene	ND		0.0029		mg/L			10/29/12 23:07	10
2-Butanone (MEK)	ND		0.013		mg/L			10/29/12 23:07	10
Tetrachloroethene	ND		0.0036		mg/L			10/29/12 23:07	10
Trichloroethene	ND		0.0046		mg/L			10/29/12 23:07	10
Vinyl chloride	ND		0.0090		mg/L			10/29/12 23:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*66 - 137*		*10/29/12 23:07*	*10*
Toluene-d8 (Surr)	*97*		*71 - 126*		*10/29/12 23:07*	*10*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*10/29/12 23:07*	*10*

Method: 8260B - TCLP Volatiles - TCLP - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**11**		0.15		mg/L			10/30/12 22:47	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*66 - 137*		*10/30/12 22:47*	*200*
Toluene-d8 (Surr)	*96*		*71 - 126*		*10/30/12 22:47*	*200*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*10/30/12 22:47*	*200*

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-26993-1

Client Sample ID: SP-1BC
Date Collected: 10/19/12 12:25
Date Received: 10/22/12 08:15

Lab Sample ID: 480-26993-2
Matrix: Solid

Method: 8260B - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.26**		0.0041		mg/L			10/29/12 23:28	10
Carbon tetrachloride	ND		0.0027		mg/L			10/29/12 23:28	10
Chloroform	ND		0.0034		mg/L			10/29/12 23:28	10
1,2-Dichloroethane	**0.055**		0.0021		mg/L			10/29/12 23:28	10
1,1-Dichloroethene	ND		0.0029		mg/L			10/29/12 23:28	10
2-Butanone (MEK)	ND		0.013		mg/L			10/29/12 23:28	10
Tetrachloroethene	ND		0.0036		mg/L			10/29/12 23:28	10
Trichloroethene	ND		0.0046		mg/L			10/29/12 23:28	10
Vinyl chloride	ND		0.0090		mg/L			10/29/12 23:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*66 - 137*		*10/29/12 23:28*	*10*
Toluene-d8 (Surr)	*99*		*71 - 126*		*10/29/12 23:28*	*10*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*10/29/12 23:28*	*10*

Method: 8260B - TCLP Volatiles - TCLP - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**13**		0.15		mg/L			10/30/12 23:09	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*66 - 137*		*10/30/12 23:09*	*200*
Toluene-d8 (Surr)	*96*		*71 - 126*		*10/30/12 23:09*	*200*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*10/30/12 23:09*	*200*

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-26993-1

Client Sample ID: SP-2AD
Date Collected: 10/19/12 13:20
Date Received: 10/22/12 08:15

Lab Sample ID: 480-26993-3
Matrix: Solid

Method: 8260B - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.28**		0.0041		mg/L			10/29/12 23:50	10
Carbon tetrachloride	ND		0.0027		mg/L			10/29/12 23:50	10
Chloroform	ND		0.0034		mg/L			10/29/12 23:50	10
1,2-Dichloroethane	**0.050**		0.0021		mg/L			10/29/12 23:50	10
1,1-Dichloroethene	ND		0.0029		mg/L			10/29/12 23:50	10
2-Butanone (MEK)	ND		0.013		mg/L			10/29/12 23:50	10
Tetrachloroethene	ND		0.0036		mg/L			10/29/12 23:50	10
Trichloroethene	ND		0.0046		mg/L			10/29/12 23:50	10
Vinyl chloride	ND		0.0090		mg/L			10/29/12 23:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*66 - 137*		*10/29/12 23:50*	*10*
Toluene-d8 (Surr)	*101*		*71 - 126*		*10/29/12 23:50*	*10*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*10/29/12 23:50*	*10*

Method: 8260B - TCLP Volatiles - TCLP - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**13**		0.15		mg/L			10/30/12 12:49	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*66 - 137*		*10/30/12 12:49*	*200*
Toluene-d8 (Surr)	*94*		*71 - 126*		*10/30/12 12:49*	*200*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*10/30/12 12:49*	*200*

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-26993-1

Client Sample ID: SP-2BC
Date Collected: 10/19/12 13:25
Date Received: 10/22/12 08:15

Lab Sample ID: 480-26993-4
Matrix: Solid

Method: 8260B - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.31**		0.0041		mg/L			10/30/12 00:12	10
Carbon tetrachloride	ND		0.0027		mg/L			10/30/12 00:12	10
Chloroform	ND		0.0034		mg/L			10/30/12 00:12	10
1,2-Dichloroethane	**0.063**		0.0021		mg/L			10/30/12 00:12	10
1,1-Dichloroethene	ND		0.0029		mg/L			10/30/12 00:12	10
2-Butanone (MEK)	ND		0.013		mg/L			10/30/12 00:12	10
Tetrachloroethene	ND		0.0036		mg/L			10/30/12 00:12	10
Trichloroethene	ND		0.0046		mg/L			10/30/12 00:12	10
Vinyl chloride	ND		0.0090		mg/L			10/30/12 00:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*66 - 137*		*10/30/12 00:12*	*10*
Toluene-d8 (Surr)	*100*		*71 - 126*		*10/30/12 00:12*	*10*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*10/30/12 00:12*	*10*

Method: 8260B - TCLP Volatiles - TCLP - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**14**		0.19		mg/L			10/31/12 00:35	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*66 - 137*		*10/31/12 00:35*	*250*
Toluene-d8 (Surr)	*96*		*71 - 126*		*10/31/12 00:35*	*250*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*10/31/12 00:35*	*250*

Surrogate Summary

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-26993-1

Method: 8260B - TCLP Volatiles

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
LCS 480-88028/4	Lab Control Sample	101	92	85
LCS 480-88101/4	Lab Control Sample	95	95	90
LCS 480-88254/4	Lab Control Sample	90	97	93
MB 480-88028/5	Method Blank	102	92	82
MB 480-88101/5	Method Blank	91	95	88
MB 480-88254/5	Method Blank	91	96	91

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B - TCLP Volatiles

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
480-26993-1	SP-1AD	102	97	91
480-26993-1 - DL	SP-1AD	90	96	92
480-26993-2	SP-1BC	100	99	92
480-26993-2 - DL	SP-1BC	89	96	93
480-26993-3	SP-2AD	100	101	95
480-26993-3 - DL	SP-2AD	94	94	87
480-26993-4	SP-2BC	102	100	94
480-26993-4 - DL	SP-2BC	91	96	90
LB 480-87089/1-A LB	Method Blank	102	91	80

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B - TCLP Volatiles

Lab Sample ID: MB 480-88028/5
Matrix: Solid
Analysis Batch: 88028

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/L			10/29/12 21:36	1
Carbon tetrachloride	ND		0.0010		mg/L			10/29/12 21:36	1
Chlorobenzene	ND		0.0010		mg/L			10/29/12 21:36	1
Chloroform	ND		0.0010		mg/L			10/29/12 21:36	1
1,2-Dichloroethane	ND		0.0010		mg/L			10/29/12 21:36	1
1,1-Dichloroethene	ND		0.0010		mg/L			10/29/12 21:36	1
2-Butanone (MEK)	ND		0.0050		mg/L			10/29/12 21:36	1
Tetrachloroethene	ND		0.0010		mg/L			10/29/12 21:36	1
Trichloroethene	ND		0.0010		mg/L			10/29/12 21:36	1
Vinyl chloride	ND		0.0010		mg/L			10/29/12 21:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*66 - 137*		*10/29/12 21:36*	*1*
Toluene-d8 (Surr)	*92*		*71 - 126*		*10/29/12 21:36*	*1*
4-Bromofluorobenzene (Surr)	*82*		*73 - 120*		*10/29/12 21:36*	*1*

Lab Sample ID: LCS 480-88028/4
Matrix: Solid
Analysis Batch: 88028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0250	0.0258		mg/L		103	71 - 124		
Chlorobenzene			0.0250	0.0238		mg/L		95	72 - 120		
1,2-Dichloroethane			0.0250	0.0273		mg/L		109	75 - 127		
1,1-Dichloroethene			0.0250	0.0214		mg/L		85	58 - 121		
Tetrachloroethene			0.0250	0.0236		mg/L		94	74 - 122		
Trichloroethene			0.0250	0.0256		mg/L		102	74 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*66 - 137*
Toluene-d8 (Surr)	*92*		*71 - 126*
4-Bromofluorobenzene (Surr)	*85*		*73 - 120*

Lab Sample ID: MB 480-88101/5
Matrix: Solid
Analysis Batch: 88101

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/L			10/30/12 11:19	1
Carbon tetrachloride	ND		0.0010		mg/L			10/30/12 11:19	1
Chlorobenzene	ND		0.0010		mg/L			10/30/12 11:19	1
Chloroform	ND		0.0010		mg/L			10/30/12 11:19	1
1,2-Dichloroethane	ND		0.0010		mg/L			10/30/12 11:19	1
1,1-Dichloroethene	ND		0.0010		mg/L			10/30/12 11:19	1
2-Butanone (MEK)	ND		0.0050		mg/L			10/30/12 11:19	1
Tetrachloroethene	ND		0.0010		mg/L			10/30/12 11:19	1
Trichloroethene	ND		0.0010		mg/L			10/30/12 11:19	1
Vinyl chloride	ND		0.0010		mg/L			10/30/12 11:19	1

Method: 8260B - TCLP Volatiles (Continued)

Lab Sample ID: MB 480-88101/5
Matrix: Solid
Analysis Batch: 88101

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		66 - 137		10/30/12 11:19	1
Toluene-d8 (Surr)	95		71 - 126		10/30/12 11:19	1
4-Bromofluorobenzene (Surr)	88		73 - 120		10/30/12 11:19	1

Lab Sample ID: LCS 480-88101/4
Matrix: Solid
Analysis Batch: 88101

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0250	0.0250		mg/L		100	71 - 124
Chlorobenzene	0.0250	0.0245		mg/L		98	72 - 120
1,2-Dichloroethane	0.0250	0.0253		mg/L		101	75 - 127
1,1-Dichloroethene	0.0250	0.0211		mg/L		84	58 - 121
Tetrachloroethene	0.0250	0.0250		mg/L		100	74 - 122
Trichloroethene	0.0250	0.0250		mg/L		100	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		66 - 137
Toluene-d8 (Surr)	95		71 - 126
4-Bromofluorobenzene (Surr)	90		73 - 120

Lab Sample ID: MB 480-88254/5
Matrix: Solid
Analysis Batch: 88254

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/L			10/30/12 21:40	1
Carbon tetrachloride	ND		0.0010		mg/L			10/30/12 21:40	1
Chlorobenzene	ND		0.0010		mg/L			10/30/12 21:40	1
Chloroform	ND		0.0010		mg/L			10/30/12 21:40	1
1,2-Dichloroethane	ND		0.0010		mg/L			10/30/12 21:40	1
1,1-Dichloroethene	ND		0.0010		mg/L			10/30/12 21:40	1
2-Butanone (MEK)	ND		0.0050		mg/L			10/30/12 21:40	1
Tetrachloroethene	ND		0.0010		mg/L			10/30/12 21:40	1
Trichloroethene	ND		0.0010		mg/L			10/30/12 21:40	1
Vinyl chloride	ND		0.0010		mg/L			10/30/12 21:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		66 - 137		10/30/12 21:40	1
Toluene-d8 (Surr)	96		71 - 126		10/30/12 21:40	1
4-Bromofluorobenzene (Surr)	91		73 - 120		10/30/12 21:40	1

Lab Sample ID: LCS 480-88254/4
Matrix: Solid
Analysis Batch: 88254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0250	0.0248		mg/L		99	71 - 124
Chlorobenzene	0.0250	0.0257		mg/L		103	72 - 120

Method: 8260B - TCLP Volatiles (Continued)

Lab Sample ID: LCS 480-88254/4
Matrix: Solid
Analysis Batch: 88254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	0.0250	0.0246		mg/L		98	75 - 127
1,1-Dichloroethene	0.0250	0.0211		mg/L		84	58 - 121
Tetrachloroethene	0.0250	0.0268		mg/L		107	74 - 122
Trichloroethene	0.0250	0.0249		mg/L		100	74 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*66 - 137*
Toluene-d8 (Surr)	*97*		*71 - 126*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*

Lab Sample ID: LB 480-87089/1-A LB
Matrix: Solid
Analysis Batch: 88028

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0041		mg/L			10/29/12 22:45	10
Carbon tetrachloride	ND		0.0027		mg/L			10/29/12 22:45	10
Chlorobenzene	ND		0.0075		mg/L			10/29/12 22:45	10
Chloroform	ND		0.0034		mg/L			10/29/12 22:45	10
1,2-Dichloroethane	ND		0.0021		mg/L			10/29/12 22:45	10
1,1-Dichloroethene	ND		0.0029		mg/L			10/29/12 22:45	10
2-Butanone (MEK)	ND		0.013		mg/L			10/29/12 22:45	10
Tetrachloroethene	ND		0.0036		mg/L			10/29/12 22:45	10
Trichloroethene	ND		0.0046		mg/L			10/29/12 22:45	10
Vinyl chloride	ND		0.0090		mg/L			10/29/12 22:45	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*66 - 137*		*10/29/12 22:45*	*10*
Toluene-d8 (Surr)	*91*		*71 - 126*		*10/29/12 22:45*	*10*
4-Bromofluorobenzene (Surr)	*80*		*73 - 120*		*10/29/12 22:45*	*10*

QC Association Summary

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-26993-1

GC/MS VOA

Leach Batch: 87089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-26993-1	SP-1AD	TCLP	Solid	1311	
480-26993-1 - DL	SP-1AD	TCLP	Solid	1311	
480-26993-2	SP-1BC	TCLP	Solid	1311	
480-26993-2 - DL	SP-1BC	TCLP	Solid	1311	
480-26993-3	SP-2AD	TCLP	Solid	1311	
480-26993-3 - DL	SP-2AD	TCLP	Solid	1311	
480-26993-4	SP-2BC	TCLP	Solid	1311	
480-26993-4 - DL	SP-2BC	TCLP	Solid	1311	
LB 480-87089/1-A LB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 88028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-26993-1	SP-1AD	TCLP	Solid	8260B	87089
480-26993-2	SP-1BC	TCLP	Solid	8260B	87089
480-26993-3	SP-2AD	TCLP	Solid	8260B	87089
480-26993-4	SP-2BC	TCLP	Solid	8260B	87089
LB 480-87089/1-A LB	Method Blank	TCLP	Solid	8260B	87089
LCS 480-88028/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 480-88028/5	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 88101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-26993-3 - DL	SP-2AD	TCLP	Solid	8260B	87089
LCS 480-88101/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 480-88101/5	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 88254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-26993-1 - DL	SP-1AD	TCLP	Solid	8260B	87089
480-26993-2 - DL	SP-1BC	TCLP	Solid	8260B	87089
480-26993-4 - DL	SP-2BC	TCLP	Solid	8260B	87089
LCS 480-88254/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 480-88254/5	Method Blank	Total/NA	Solid	8260B	

Lab Chronicle

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-26993-1

Client Sample ID: SP-1AD

Lab Sample ID: 480-26993-1

Date Collected: 10/19/12 12:20

Matrix: Solid

Date Received: 10/22/12 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			87089	10/23/12 15:00	MRB	TAL BUF
TCLP	Analysis	8260B		10	88028	10/29/12 23:07	TRF	TAL BUF
TCLP	Leach	1311	DL		87089	10/23/12 15:00	MRB	TAL BUF
TCLP	Analysis	8260B	DL	200	88254	10/30/12 22:47	TRF	TAL BUF

Client Sample ID: SP-1BC

Lab Sample ID: 480-26993-2

Date Collected: 10/19/12 12:25

Matrix: Solid

Date Received: 10/22/12 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			87089	10/23/12 15:00	MRB	TAL BUF
TCLP	Analysis	8260B		10	88028	10/29/12 23:28	TRF	TAL BUF
TCLP	Leach	1311	DL		87089	10/23/12 15:00	MRB	TAL BUF
TCLP	Analysis	8260B	DL	200	88254	10/30/12 23:09	TRF	TAL BUF

Client Sample ID: SP-2AD

Lab Sample ID: 480-26993-3

Date Collected: 10/19/12 13:20

Matrix: Solid

Date Received: 10/22/12 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			87089	10/23/12 15:00	MRB	TAL BUF
TCLP	Analysis	8260B		10	88028	10/29/12 23:50	TRF	TAL BUF
TCLP	Leach	1311	DL		87089	10/23/12 15:00	MRB	TAL BUF
TCLP	Analysis	8260B	DL	200	88101	10/30/12 12:49	RL	TAL BUF

Client Sample ID: SP-2BC

Lab Sample ID: 480-26993-4

Date Collected: 10/19/12 13:25

Matrix: Solid

Date Received: 10/22/12 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			87089	10/23/12 15:00	MRB	TAL BUF
TCLP	Analysis	8260B		10	88028	10/30/12 00:12	TRF	TAL BUF
TCLP	Leach	1311	DL		87089	10/23/12 15:00	MRB	TAL BUF
TCLP	Analysis	8260B	DL	250	88254	10/31/12 00:35	TRF	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-26993-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAC	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAC	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-13
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	06-30-13
Illinois	NELAC	5	200003	09-30-13
Iowa	State Program	7	374	03-01-13
Kansas	NELAC	7	E-10187	01-31-13
Kentucky	State Program	4	90029	12-31-12
Kentucky (UST)	State Program	4	30	04-01-13
Louisiana	NELAC	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-12
Maryland	State Program	3	294	03-31-13
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13
Minnesota	NELAC	5	036-999-337	12-31-12
New Hampshire	NELAC	1	2973	09-11-13
New Hampshire	NELAC	1	2337	11-17-12
New Jersey	NELAC	2	NY455	06-30-13
New York	NELAC	2	10026	03-31-13
North Dakota	State Program	8	R-176	03-31-13
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAC	10	NY200003	06-09-13
Pennsylvania	NELAC	3	68-00281	07-31-13
Tennessee	State Program	4	TN02970	04-01-13
Texas	NELAC	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAC	3	460185	09-14-13
Washington	State Program	10	C784	02-10-13
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Method Summary

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-26993-1

Method	Method Description	Protocol	Laboratory
8260B	TCLP Volatiles	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: AECOM, Inc.
Project/Site: BASF Rensselaer, NY

TestAmerica Job ID: 480-26993-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-26993-1	SP-1AD	Solid	10/19/12 12:20	10/22/12 08:15
480-26993-2	SP-1BC	Solid	10/19/12 12:25	10/22/12 08:15
480-26993-3	SP-2AD	Solid	10/19/12 13:20	10/22/12 08:15
480-26993-4	SP-2BC	Solid	10/19/12 13:25	10/22/12 08:15

TestAmerica Buffalo
10 Hazelwood Drive, Suite 106
Amherst, New York 14228
Phone (716) 691-2600

Albany Service Center
25 Kraft Avenue
Albany, NY 12205
Phone (518) 428-8140

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: MJH, GLW	Lab PM: Sally Hoffman	Carrier Tracking No(s): UPS 1ZT8F30W2210001946	COC No:
Client Contact: **Mark Howard**	Phone: 518 951 2301	E-Mail: john.schove@testamericainc.com		Page: 1 of 2
Company: **AECOM**				Job #:
Address: **40 British American Blvd**	Due Date Requested:			
City: **Latham**	TAT Requested (days): 10 Day Standard			
State, Zip: **NY 12110**	Quote #			
Phone: **518-951-2301**	PO #:			
Email: mark.howard@aecom.com	WO #:			
Project Name/number: **60135965.703**				
Site: **BASF Rensselaer**				

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; H - Ascorbic Acid; I - Ice; J - DI Water; M - Hexane; N - None; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; Z - other (specify)

Regulatory programs: MCP ☐ GW1/S1 ☐ RCP ☐ CT RSR ☐ DEP Form ☐ EDD Required ☐

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	TCLP VOC's	Total Number of containers	Special Instructions/Note:
Preservation Code:								N		
SP-1A	10/19/12	1200	C	Soil				X	1	Hold
SP-1B		1205		Soil				X	1	
SP-1C		1210		Soil				X	1	
SP-1D		1215		Soil				X	1	
SP-1AD		1220		Soil				X	1	
SP-1BC		1225		Soil				X	1	
SP-2A		1300		Soil				X	1	Hold
SP-2B		1305		Soil				X	1	
SP-2C		1310		Soil				X	1	
SP-2D		1315		Soil				X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	10/19/12 1600	AECOM	UPS		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/20/12 0815	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) C and Other Remarks: #1 4.5

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TestAmerica Buffalo
10 Hazelwood Drive, Suite 106
Amherst, New York 14228
Phone (716) 691-2600

Albany Service Center
25 Kraft Avenue
Albany, NY 12205
Phone (518) 428-8140

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: MJH, GLW	Lab PM: Sally Hoffman	Carrier Tracking No(s):	COC No:
Client Contact: Mark Howard	Phone: 518-951-2301	E-Mail: john.schove@testamericainc.com		Page: 2 of 2
Company: AECOM				Job #:

Address: 40 British American Blvd	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Latham	TAT Requested (days): Standard		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, Z - other (specify)
State, Zip: NY 12110	Quote #		
Phone: 518-951-2301	PO #:		Regulatory programs: MCP ☐ GW1/S1 ☐ RCP ☐ CT RSR ☐ DEP Form ☐ EDD Required ☐
Email: mark.howard@aecom.com	WO #:		
Project Name/number: 60135965.7			
Site: BASF Rensselaer			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	TCLP VOC's												Total Number of containers	Special Instructions/Note:
			Preservation Code:					N													
SP-2AD	10/9/12	1320	C	Soil				X												1	
SP-2BC	10/9/12	1325	C	Soil				X												1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☑ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/9/12 1600	AECOM	UPS		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				10/10/12 0815	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

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10/31/2012

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 480-26993-1

Login Number: 26993

List Source: TestAmerica Buffalo

List Number: 1

Creator: Stau, Brandon

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498798
DATE: 12/10/2012
TIME: 08:27 - 09:46

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #: P.O.:
ORIGIN: RR / RENSSELAER GROSS: 119480 LBS
TRUCK: 879 TRAILER: TARE: 40440 LBS
GENERATOR: BASF / BASF PROFILE #: 3618 NET: 79040 LBS
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	39.5200	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

8M9

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number N/A	Page 1 of	3. Emergency Response Phone 1-800-424-9300	4. Waste Tracking Number 0028

5. Generator's Name and Mailing Address: BASF Corp
1026 Riverside Ave., Rensselaer, NY 12144

Generator's Site Address (if different than mailing address)

GD ID # NYD093249688

Generator's Phone: 518-465-6534 Wayne St. Claire

6. Transporter 1 Company Name: Longhorn Trucking — U.S. EPA ID Number: 364 Permit #4A-465

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561 — U.S. EPA ID Number: NY State Facility ID #

Facility's Phone: 1-585-526-4420 — 9324000000000010

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7214 or Will Lindhelmer (LAND Remediation) 518-937-0473
Truck # -
Trailer # -
Approval # 3618

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair — Signature: Wayne St. Clair — Month 12 Day 7 Year 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: John Marshall — Signature: — Month 12 Day 7 Year 12

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the ... est except as noted in Item 17a

Printed/Typed Name — Signature — Month 12 Day 10 Year 12

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498781
DATE: 12/10/2012
TIME: 07:54 - 08:59

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 391 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 101940 LBS
TARE: 40100 LBS
NET: 61840 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	30.9200	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.
Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

3555 Post Farm Road
Stanley, NY 14561

NY State Facility ID #

Facility's Phone: 1-585-526-4470

9324000004000030

GENERATOR

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7214 or Will Lindheimer (LAND Remediation) 518-937-0475
Truck # -
Approval # 3618
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St Clair | Signature: Wayne St Clair | Month: 12 | Day: 7 | Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jason Marshall | Signature | Month: 12 | Day: 7 | Year: 12

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Will Lindheimer | Signature | Month: 12 | Day: 10 | Year: 12

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498772
DATE: 12/10/2012
TIME: 06:14 - 08:27

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 392 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 122120 LBS
TARE: 40900 LBS
NET: 81220 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	40.6100	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.
Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

3535 Post Farm Road
Stanley, NY 14561

Facility's Phone: 1-585-526-4420

NY State Facility ID #
832440000000010

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7234 or Will Lindheimer (LAND Remediation) 518-937-0473
Truck # -
Approval # 3618
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair
Signature: Wayne St. Clair
Month 12 Day 7 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Transporter Signature (for exports only):
Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Daniel Brand
Signature: Dan Brand
Month 12 Day 7 Year 12
Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Nancy Gillum
Signature
Month 12 Day 10 Year 12

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498770
DATE: 12/10/2012
TIME: 06:13 - 08:15

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 448
GENERATOR: BASF / BASF
HAULER: LH / LONGHORN
COMMENT: 3618

P.O.:
GROSS: 104340 LBS
TARE: 40000 LBS
NET: 64340 LBS

TRAILER:
PROFILE #: 3618
ROUTE: NA / NON APPLICABLE
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	32.1700	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster:

Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

3555 Post Farm Road
Stanley, NY 14561

Facility's Phone: 1-585-526-4420

NY State Facility ID #: 832400000000010

GENERATOR

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

In case of emergency or for information on this shipment contact:
Keith Decker (LANO Remediation) 585-229-7214 or Will Lindheimer (LANO Remediation) 585-937-0473
Truck # -
Approval # 3618
Trailer # -

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St Clair | Signature: Wayne St Clair | Month: 12 | Day: 7 | Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Charlie Hudwin | Signature: [signature] | Month: 12 | Day: 7 | Year: 12

Transporter 2 Printed/Typed Name: | Signature: | Month: | Day: | Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [illegible] | Signature: [signature] | Month: 12 | Day: 10 | Year: 12

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498767
DATE: 12/10/2012
TIME: 06:11 - 07:47

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 835 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618 CELL/TANK: P7

P.O.:
GROSS: 117060 LBS
TARE: 40560 LBS
NET: 76500 LBS

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	38.2500	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

835

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N/A	1	1-800-424-9300	0027

5. Generator's Name and Mailing Address: BASF Corp
76-36 Riverside Ave., Rensselaer, NY 12144

Generator's Site Address (if different than mailing address)

960 ID # NYD093249688

Generator's Phone: 518-465-6934 Wayne St. Clair

6. Transporter 1 Company Name: Longhorn Trucking — U.S. EPA ID Number: 364 Permit #MA-485

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561

U.S. EPA ID Number: NY State Facility ID #

Facility's Phone: 1-585-526-4478 — 8374000040000010

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7214 or Will Lindheimer (LAND Remediation) 518-937-0473
Truck # -
Trailer # -
Approval # 3618

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St Clair — Signature: Wayne St Clair — Month: 12 Day: 7 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: William Dingman — Signature — Month: 12 Day: 7 Year: 12

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month: 12 Day: 10 Year: 12

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

NE / ONTARIO COUNTY LANDFILL
vision of Casella Waste Systems
NYS Route 5&20
ley, NY 14561

TICKET: 497865
DATE: 12/04/2012
TIME: 13:23 - 14:05

OMER: LE-00438 / LAND REMEDIATION
CUST: WO: 0 APPROVAL #:
IN: RR / RENSSELAER
K: 448
RATOR: BASF / BASF
ER: LH / LONGHORN
ENT: 3618
TRAILER:
PROFILE #: 3618
ROUTE: NA / NON APPLICABLE

P.O.:
GROSS: 113540 LBS
TARE: 39600 LBS
NET: 73940 LBS
CELL/TANK: P7

RIAL	QUANTITY	UNIT
ALTERNATIVE DAILY COVER	36.9700	ST

rtify under penalty of perjury that I am familiar with wastes
orized at this facility and that to the best of my knowledge all
contained in this load is authorized for disposal at this facility.
master: Driver:

NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N/A	1	1-800-424-9300	0001

5. Generator's Name and Mailing Address: BASF Corp
7018 Riverside Ave., Rensselaer, NY 12144 GEN ID # NYD049349688

Generator's Site Address (if different than mailing address)

Generator's Phone: 518 465-6534 Wayne St Clair

6. Transporter 1 Company Name: Longhorn Trucking

U.S. EPA ID Number: 364 Permit #A 465

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address: Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561

U.S. EPA ID Number: NY State Facility ID #

Facility's Phone: 1-585-526-4420 832440000400010

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7214 or Will Lindheimer (LAND Remediation) 518-937-0473
Truck # -
Approval # 3618
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Wayne St Clair	Wayne St Clair	12	4	12

GENERATOR

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

INT'L

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Charles Hudyma		12	4	12
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

TRANSPORTER

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

DESIGNATED FACILITY

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year
		12	19	12

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 497864
DATE: 12/04/2012
TIME: 13:21 - 14:03

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 392 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 123180 LBS
TARE: 40320 LBS
NET: 82860 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	41.4300	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

392

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N/A	1	1-800-424-9300	0003

5. Generator's Name and Mailing Address: BASF Corp
70 35 Riverside Ave., Rensselaer, NY 12144
GEO ID # NYD093247688
Generator's Site Address (if different than mailing address)
Generator's Phone: 518 325-465-6534 Wayne St. Clair

6. Transporter 1 Company Name: Longhorn Trucking 392
U.S. EPA ID Number: 364 Permit #AA-465

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
U.S. EPA ID Number: NY State Facility ID #
Facility's Phone: 1-585-526-4420 532400DMP000010

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	YT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7234 or Will Lindheimer (LAND Remediation) 518-937-0473
Truck # -
Approval # 3618
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair
Signature: Wayne St. Clair
Month 12 Day 4 Year 17

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Daniel Brownell
Signature:
Month 12 Day 4 Year 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month 12 Day 6 Year 17

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 497815
DATE: 12/04/2012
TIME: 12:07 - 12:36

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 754 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 114400 LBS
TARE: 39540 LBS
NET: 74860 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	37.4300	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

754

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N/A	1	1-800-424-9300	0002

5. Generator's Name and Mailing Address: BASF Corp
7036 Riverside Ave., Rensselaer, NY 12144 — Gen ID # pyd093249688
Generator's Site Address (if different than mailing address)
Generator's Phone: 518 [illegible] Wayne St Claire

6. Transporter 1 Company Name: Longhorn Trucking #754 — U.S. EPA ID Number: 364 Permit #49-455

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561 — U.S. EPA ID Number: NY State Facility ID #
Facility's Phone: 1-585-526-4020 — 932401000000030

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7214 or Will Lindhelmer (LAND Remediation) 518-937-0473
Truck # - 754
Trailer # -
Approval # 3618

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St Clair — Signature: Wayne St Clair — Month: 12 Day: 4 Year: 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jeff Searles — Signature: [signature] — Month: 12 Day: 4 Year: 12

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [illegible] — Signature — Month: 12 Day: 4 Year: 12

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498094
DATE: 12/05/2012
TIME: 12:50 - 13:18

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 835 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 116400 LBS
TARE: 40280 LBS
NET: 76120 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	38.0600	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.
Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

835

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A
2. Page 1 of 1
3. Emergency Response Phone: 1-800-424-9300
4. Waste Tracking Number: 0009

5. Generator's Name and Mailing Address: BASF Corp, 70.30 Riverside Ave., Rensselaer, NY 12144
Generator's Site Address (if different than mailing address):
GEN ID # NYD093249688
Generator's Phone: 518 315-465-6534 Wayne St. Claire

6. Transporter 1 Company Name: Longhorn Trucking — U.S. EPA ID Number: 364 Permit #4A-485

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Ontario County Landfill, 3555 Post Farm Road, Stanley, NY 14561 — U.S. EPA ID Number: NY State Facility ID # 832/400DR040010
Facility's Phone: 1-585-526-4420

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-729-7214 or Will Lindheimer (LAND Remediation) 518-937-0473
Truck # -
Approval # 3638
Trailer # -

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Wayne St. Clair — Signature: Wayne St. Clair — Month 12 Day 5 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: William Dingman — Signature: [signature] — Month 12 Day 5 Year 12
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: [signature] — Signature: — Month 12 Day 5 Year 12

169-BLC-O 5 11977 (Rev. 9/09) DESIGNATED FACILITY'S COPY

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498059
DATE: 12/05/2012
TIME: 11:53 - 12:25

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 755 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 115680 LBS
TARE: 39780 LBS
NET: 75900 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	37.9500	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

755

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N/A	1	1-800-424-9300	0008

5. Generator's Name and Mailing Address
BASF Corp
7036 Riverside Ave., Rensselaer, NY 12144
Generator's Site Address (if different than mailing address)
EPA ID # NYD093249688
Generator's Phone: 518 465-4534 Wayne St. Clair

6. Transporter 1 Company Name
Longhorn Trucking
U.S. EPA ID Number
364 Permit MA-465

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
U.S. EPA ID Number
NY State Facility ID #
Facility's Phone: 1-585-526-4470
8324000840000010

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LANC Remediation) 518-229-7214 or Will Lindhelmer (LANC Remediation) 518-937-0473
Truck # -
Approval # 3518
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair
Signature: Wayne St. Clair
Month: 12 Day: 5 Year: 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chad Ware
Signature:
Month: 12 Day: 5 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 497985
DATE: 12/05/2012
TIME: 08:12 - 09:45

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 389 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 116600 LBS
TARE: 40440 LBS
NET: 76160 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	38.0800	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

389

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N/A BASF Corp			0005

5. Generator's Name and Mailing Address 7035 Riverside Ave., Rensselaer, NY 12144 | Generator's Site Address (if different than mailing address) GEN ID # NYD093249688

518 335-465-6534 Wayne St. Clair

Generator's Phone:

6. Transporter 1 Company Name Longhorn Trucking | U.S. EPA ID Number

Longhorn Trucking 389

7. Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address Ontario County Landfill 3555 Post Farm Road Stanley, NY 14561 | U.S. EPA ID Number

1-585-526-4420 | NYD980530810

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	~~Non RCRA, Non-DOT Regulated Solids~~ Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

~~In case of emergency or for information on this shipment contact:~~ Keith Decker (LAND Remediation) 518-225-7234 or Will Linthelmer (LAND Remediation) 518-937-0475

Truck # -

Trailer # -

Approval # 3638

GENERATOR

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair | Signature: Wayne St. Clair | Month: 12 | Day: 4 | Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tim Williams | Signature | Month: 12 | Day: 4 | Year: 12

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Will Linthelmer | Signature | Month: 12 | Day: 15 | Year: 12

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 497981
DATE: 12/05/2012
TIME: 08:03 - 09:35

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 436 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 118900 LBS
TARE: 40220 LBS
NET: 78680 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	39.3400	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

1136

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: N/A	2. Page 1 of 1	3. Emergency Response Phone: 1-800-424-9300	4. Waste Tracking Number: 2006

5. Generator's Name and Mailing Address: BASF Corp, 7036 Riverside Ave., Rensselaer, NY 12144

Generator's Site Address (if different than mailing address): EPA ID # NYD693249688

Generator's Phone: 518-465-5571 Wayne St. Clair

6. Transporter 1 Company Name: Longhorn Trucking

U.S. EPA ID Number: 364 Permit MA-455

7. Transporter 2 Company Name:

U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Ontario County Landfill, 3555 Post Farm Road, Stanley, NY 14561

U.S. EPA ID Number: NY State Facility ID #: 8324000004ND0010

Facility's Phone: 1-585-526-4470

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7214 or Will Lindhelmer (LAND Remediation) 518-937-4473
Truck # -
Approval # 3535
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair | Signature: Wayne St. Clair | Month: 12 | Day: 4 | Year: 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Andy Wenskoski | Signature | Month: 12 | Day: 4 | Year: 12

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Will Lindhelmer | Signature | Month: 12 | Day: 4 | Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 497948
DATE: 12/05/2012
TIME: 06:11 - 08:13

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 881
GENERATOR: BASF / BASF
HAULER: LH / LONGHORN
COMMENT: 3618

P.O.:
GROSS: 119760 LBS
TARE: 39220 LBS
NET: 80540 LBS
TRAILER:
PROFILE #: 3618
ROUTE: NA / NON APPLICABLE
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	40.2700	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

881

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N/A	1	1-800-424-9300	0001

5. Generator's Name and Mailing Address: BASF Corp
7035 Rivervalde Ave., Rensselaer, NY 12144
Generator's Site Address (if different than mailing address): GEO ID # NYD093249688
Generator's Phone: 518 465-6534 Wayne St. Clair

6. Transporter 1 Company Name: Longhorn Trucking
U.S. EPA ID Number: 364 Permit #NA-485

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
U.S. EPA ID Number: NY State Facility ID #
Facility's Phone: 1-585-526-4420 6324000040000D

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LANO Remediation) 518-229-7234 or Will Lindhelmer (LANO Remediation) 518-937-0473
Truck # -
Trailer # -
Approval # 3615

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair
Signature: Wayne St. Clair
Month: 12 Day: 4 Year: 12

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Dion Battisti
Signature: Dion Battisti
Month: 12 Day: 4 Year: 12
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Nancy Eckman
Signature
Month: 12 Day: 4 Year: 12

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498380
DATE: 12/06/2012
TIME: 13:27 - 13:58

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0
ORIGIN: RR / RENSSELAER
TRUCK: 755
GENERATOR: BASF / BASF
HAULER: LH / LONGHORN
COMMENT: 3618

APPROVAL #:
TRAILER:
PROFILE #: 3618
ROUTE: NA / NON APPLICABLE

P.O.:
GROSS: 115980 LBS
TARE: 39840 LBS
NET: 76140 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	38.0700	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Waste Tracking Number 0018

5. Generator's Name and Mailing Address
BASF Corp
70-36 Riverside Ave., Rensselaer, NY 12144
Generator's Site Address (if different than mailing address)
GEN ID # NYD093249688
Generator's Phone: 518 465-6324 Wayne St. Claire

6. Transporter 1 Company Name
Longhorn Trucking
U.S. EPA ID Number
364 Permit #4A-485

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
Facility's Phone: 1-585-526-4420
U.S. EPA ID Number
NY State Facility ID #
[illegible]

	9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7234 or Will Lindheimer (LAND Remediation) 518-937-4373
Truck # -
Approval # 3618
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair
Signature: Wayne St. Clair
Month 12 Day 6 Year 12

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Chad Nave
Signature: Chad Nave
Month 12 Day 6 Year 12
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month 12 Day 6 Year 12

GENERATOR

169-BLC-O 5 11977 (Rev. 9/09)

TRANSPORTER #1

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498370
DATE: 12/06/2012
TIME: 13:06 - 13:38

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 955 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 108020 LBS
TARE: 39260 LBS
NET: 68760 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	34.3800	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.
Weighmaster: Driver:

IN: NANCY B: PCSCALE1-O OUT: NANCY B: PCSCALE1-O

95

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone	4. Waste Tracking Number
	N/A		1-800-424-9300	0017

5. Generator's Name and Mailing Address: BASF Corp
7038 Riverside Ave., Rensselaer, NY 12144
Generator's Site Address (if different than mailing address)
GRD ID #: NYD093249683
Generator's Phone: 518-465-6534 Wayne St. Claire

6. Transporter 1 Company Name: Longhorn Trucking
U.S. EPA ID Number: 304 Permit #NA-485

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
U.S. EPA ID Number: NY State Facility ID #
Facility's Phone: 1-585-526-4470
632400000000010

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7214 or Will Lindheimer (LAND Remediation) 518-937-0473
Truck # -
Approval # 3618
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair
Signature: Wayne St. Clair
Month: 12 Day: 6 Year: 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Mitch Longhorn
Signature:
Month: 12 Day: 6 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month: 12 Day: 6 Year: 12

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498358
DATE: 12/06/2012
TIME: 12:34 - 13:07

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 877 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 107820 LBS
TARE: 40200 LBS
NET: 67620 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	33.8100	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver: Bryan Jump

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

8.77

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N/A	1	1-800-424-9300	0015

5. Generator's Name and Mailing Address
BASF Corp
7036 Riverside Ave., Rensselaer, NY 12144

Generator's Site Address (if different than mailing address)

GEN ID # NYD093249688

Generator's Phone: 518 465-6534 Wayne St. Clair

6. Transporter 1 Company Name
Longhorn Trucking

U.S. EPA ID Number
364 Permit #A4-485

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561

U.S. EPA ID Number
NY State Facility ID #
832400000400010

Facility's Phone: 1-585-526-4670

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7214 or Will Lindhelmer (LAND Remediation) 518-937-0473
Truck # -
Approval # 3618
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair
Signature: Wayne St Clair
Month: 12 Day: 6 Year: 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Bryan Jump
Signature: Bryan Jump
Month: 12 Day: 6 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498357
DATE: 12/06/2012
TIME: 12:33 - 13:06

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #: P.O.:
ORIGIN: RR / RENSSELAER GROSS: 114540 LBS
TRUCK: 835 TARE: 40280 LBS
GENERATOR: BASF / BASF TRAILER: NET: 74260 LBS
HAULER: LH / LONGHORN PROFILE #: 3618
COMMENT: 3618 ROUTE: NA / NON APPLICABLE
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	37.1300	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

835

NON-HAZARDOUS WASTE MANIFEST

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: N/A	2. Page 1 of 1	3. Emergency Response Phone: 1-800-424-9300	4. Waste Tracking Number: 0016

5. Generator's Name and Mailing Address: BASF Corp, 70-36 Riverside Ave., Rensselaer, NY 12144
Generator's Site Address (if different than mailing address): GEN ID # NYD093219688
Generator's Phone: 518 465-6534 Wayne St. Claire

6. Transporter 1 Company Name: Longhorn Trucking — U.S. EPA ID Number: 364 Permit #4A-485

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Ontario County Landfill, 3555 Post Farm Road, Stanley, NY 14561 — U.S. EPA ID Number: NY State Facility ID # 83244000800010
Facility's Phone: 1-585-526-4420

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7234 or Will Lindheimer (LAND Remediation) 518-937-0475
Truck # - 835
Approval # 3618
Trailer # - 810

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Wayne St. Clair — Signature: Wayne St. Clair — Month 12 Day 6 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: William Dinsman — Signature: [signature] — Month 12 Day 6 Year 12
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: [signature] — Signature: [signature] — Month 12 Day 6 Year 12

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498234
DATE: 12/06/2012
TIME: 07:40 - 08:28

CUSTOMER: LE-00438 / LAND REMEDIATION P.O.:
HAULCUST: WO: 0 APPROVAL #: GROSS: 108180 LBS
ORIGIN: RR / RENSSELAER TARE: 39380 LBS
TRUCK: 484 TRAILER: NET: 68800 LBS
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618 CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	34.4000	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

484

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N/A	1	1-800-424-9300	0014

5. Generator's Name and Mailing Address: BASF Corp
7018 Riverside Ave., Rensselaer, NY 12144

Generator's Site Address (if different than mailing address)

Generator's Phone: 518 465-6534 Wayne St. Claire

GEN ID # NYD093249688

6. Transporter 1 Company Name: Longhorn Trucking

U.S. EPA ID Number: 364 Permit #AA-485

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address: Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561

U.S. EPA ID Number: NY State Facility ID #

Facility's Phone: 1-585-526-4420

D324000040000010

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7214 or Will Lindheimer (LAND Remediation) 518-937-0473
Truck # -
Trailer # -
Approval # 3618

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne StClair
Signature: Wayne StClair
Month 12 Day 5 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chris Dillenbeck
Signature:
Month 12 Day 5 Year 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

76.54

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498220
DATE: 12/06/2012
TIME: 07:27 - 07:59

CUSTOMER: LE-00438 / LAND REMEDIATION P.O.:
HAULCUST: WO: 0 APPROVAL #: GROSS: 116600 LBS
ORIGIN: RR / RENSSELAER TARE: 39980 LBS
TRUCK: 391 TRAILER: NET: 76620 LBS
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618 CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	38.3100	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

391

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A	2. Page 1 of 1	3. Emergency Response Phone: 1-800-424-9300
4. Waste Tracking Number: 0013		

GENERATOR

5. Generator's Name and Mailing Address: BASF Corp, 70-80 Riverside Ave., Rensselaer, NY 12144

Generator's Site Address (if different than mailing address): GEN ID # NYD093249688

Generator's Phone: ~~315~~ 518-465-6534 Wayne St. Claire

6. Transporter 1 Company Name: Longhorn Trucking — U.S. EPA ID Number: 364 Permit #MA-485

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Ontario County Landfill, 3555 Post Farm Road, Stanley, NY 14561 — U.S. EPA ID Number: NY State Facility ID # 83244000040000010

Facility's Phone: 1-585-526-4420

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7214 or Will Lindheimer (LAND Remediation) 518-937-0473
Truck # - Approval # 3615
Trailer # -

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair — Signature: Wayne St. Clair — Month 12 Day 5 Year 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jason Marshall — Signature: [signature] — Month 12 Day 5 Year 12
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: [signature] — Signature: [signature] — Month 12 Day 6 Year 12

169-BLC-O 5 11977 (Rev. 9/09) **DESIGNATED FACILITY'S COPY**

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498203
DATE: 12/06/2012
TIME: 06:21 - 07:04

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 379 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 116900 LBS
TARE: 40220 LBS
NET: 76680 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	38.3400	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

S261

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N/A	1	1-800-424-9300	0012

5. Generator's Name and Mailing Address: BASF Corp
7038 Riverside Ave., Rensselaer, NY 12144
Generator's Site Address (if different than mailing address)
Generator's Phone: 518-465-6534 Wayne St. Claire
GEN ID # NYD093249688

6. Transporter 1 Company Name: Longhorn Trucking
U.S. EPA ID Number: 364 Permit #NA-485

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
U.S. EPA ID Number: NY State Facility ID #
Facility's Phone: 1-585-526-4420
E324000040000010

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LANO Remediation) 518-229-7234 or Will Lindheimer (LANO Remediation) 518-937-0475
Truck # -
Approval # 3618
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St Clair
Signature: Wayne St Clair
Month: 12 Day: 5 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John Marshall
Signature:
Month: 12 Day: 5 Year: 12
Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month: 12 Day: 12 Year:

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498200
DATE: 12/06/2012
TIME: 06:11 - 06:52

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 448 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 116640 LBS
TARE: 39840 LBS
NET: 76800 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	38.4000	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

448

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A

2. Page 1 of 1

3. Emergency Response Phone: 1-800-424-9300

4. Waste Tracking Number: 0010

5. Generator's Name and Mailing Address:
BASF Corp
7035 Riverside Ave., Rensselaer, NY 12144

Generator's Site Address (if different than mailing address): GEN ID # NYD093249688

Generator's Phone: 518 ~~518-465-6534~~ Wayne St. Claire

6. Transporter 1 Company Name: Longhorn Trucking — U.S. EPA ID Number: 364 Permit #AA-485

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561

U.S. EPA ID Number: NY State Facility ID #
S32440000400000030

Facility's Phone: 1-585-526-4420

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7234 or Will Lindheimer (LAND Remediation) 518-937-0473
Truck # -
Approval # 3818
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair — Signature: Wayne St. Clair — Month 12 Day 5 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Charlie Hubnla — Signature: [signature] — Month 12 Day 5 Year 12

Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: William Billman — Signature: [signature] — Month 12 Day 6 Year 12

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498199
DATE: 12/06/2012
TIME: 06:10 - 06:49

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 277 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 114500 LBS
TARE: 40220 LBS
NET: 74280 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	37.1400	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	1-800-424-9300	0007

5. Generator's Name and Mailing Address: BASF Corp
7039 Riverside Ave., Rensselaer, NY 12144
Generator's Site Address (if different than mailing address): GWID # NYD093249688
Generator's Phone: 518-465-6534 Wayne St. Clair

6. Transporter 1 Company Name: Longhorn Trucking
U.S. EPA ID Number: 364 Permit #NA-485

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
U.S. EPA ID Number: NY State Facility ID #
Facility's Phone: 1-585-526-4420
832400004000030

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7224 or Will Lindheimer (LAND Remediation) 518-857-0473
Truck # -
Approval # 3518
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair
Signature: Wayne St. Clair
Month: 12 Day: 5 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ray Berk
Signature:
Month: 12 Day: 9 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498197
DATE: 12/06/2012
TIME: 06:08 - 06:46

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 392 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 128340 LBS
TARE: 40680 LBS
NET: 87660 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	43.8300	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

2-97

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Waste Tracking Number 0211

5. Generator's Name and Mailing Address: BASF Corp
7036 Riverside Ave., Rensselaer, NY 12144
Generator's Site Address (if different than mailing address): GEN ID# NYD093249688
Generator's Phone: 518-465-6534 Wayne St. Claire

6. Transporter 1 Company Name: Longhorn Trucking — U.S. EPA ID Number: 364 Permit #MA-485

7. Transporter 2 Company Name: 392 — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Ontario County Landfill, 3555 Post Farm Road, Stanley, NY 14561 — U.S. EPA ID Number: NY State Facility ID #
Facility's Phone: 1-585-526-4470 — 6324900040000010

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7224 or Will Lindheimer (LAND Remediation) 518-937-0473
Truck # -
Approval # 3618
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair — Signature: Wayne St. Clair — Month 12 Day 5 Year 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Daniel Brawn — Signature: [signature] — Month 12 Day 5 Year 12

Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [illegible] — Signature: [signature] — Month 12 Day 11 Year 12

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498614
DATE: 12/07/2012
TIME: 12:04 - 12:49

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 755 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 117640 LBS
TARE: 39960 LBS
NET: 77680 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	38.8400	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

75

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N/A	1	1-800-424-9300	0026

5. Generator's Name and Mailing Address: BASF Corp, 7036 Riverside Ave., Rensselaer, NY 12144
Generator's Site Address (if different than mailing address): GEN ID # NYD093249688
Generator's Phone: 518-465-6534 Wayne St. Claire

6. Transporter 1 Company Name: Longhorn Trucking
U.S. EPA ID Number: 360 Permit #4A-485

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: Ontario County Landfill, 3555 Post Farm Road, Stanley, NY 14561
U.S. EPA ID Number: NY State Facility ID #
Facility's Phone: 1-585-526-4420 — 8324000000000010

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7214 or Will Lindheimer (LAND Remediation) 518-937-4473
Truck # -
Approval # 3618
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St Clair — Signature: Wayne St Clair — Month 12 Day 7 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chad Nard — Signature: Chad Nard — Month 12 Day 7 Year 12

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month 12 Day 17 Year 12

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498594
DATE: 12/07/2012
TIME: 11:30 - 11:57

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 754 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 113660 LBS
TARE: 39700 LBS
NET: 73960 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	36.9800	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

754

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	1-800-424-9300	0023

5. Generator's Name and Mailing Address: BASF Corp
70-36 Riverside Ave., Rensselaer, NY 12144

Generator's Site Address (if different than mailing address)

NYD093249688

Generator's Phone: 518-465-6534 Wayne St. Claire

6. Transporter 1 Company Name: Longhorn Trucking #754

U.S. EPA ID Number: 364 Permit MA-485

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address: Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561

U.S. EPA ID Number: NY State Facility ID #

Facility's Phone: 1-585-526-4420

832400000000010

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7214 or Will Lindhelmer (LAND Remediation) 518-937-0473
Truck # -
Approval # 3618
Trailer # -

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St Clair
Signature: Wayne St Clair
Month: 12 Day: 7 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jeff Sanders
Signature:
Month: 12 Day: 7 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month: 12 Day: 12 Year: 12

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498591
DATE: 12/07/2012
TIME: 11:12 - 11:53

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 484 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 114160 LBS
TARE: 39300 LBS
NET: 74860 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	37.4300	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

4824

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone	4. Waste Tracking Number
	N/A		1-800-424-9300	0022

GENERATOR

5. Generator's Name and Mailing Address
BASF Corp
70-20 Riverside Ave., Rensselaer, NY 12144
Generator's Site Address (if different than mailing address)
GENID# NYD093249688
Generator's Phone: 518 465-6534 Wayne St. Clair

6. Transporter 1 Company Name
Longhorn Trucking
U.S. EPA ID Number
364 Permit #4A-485

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
U.S. EPA ID Number
NY State Facility ID #
Facility's Phone: 1-585-526-4021
8324010010000010

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7214 or Will Lindhelmer (LAND Remediation) 518-937-0473
Truck # -
Approval # 3618
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St Clair
Signature: Wayne St. Clair
Month: 12 Day: 7 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Kyle D. Klenke
Signature:
Month: 12 Day: 7 Year: 12

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: 12 Day: 17 Year:

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498493
DATE: 12/07/2012
TIME: 07:50 - 08:39

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 436 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 114000 LBS
TARE: 40120 LBS
NET: 73880 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	36.9400	ST

I Certify under penalty of ~~perjury that~~ I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

434

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Waste Tracking Number 0021

5. Generator's Name and Mailing Address: BASF Corp
7026 Riverside Ave., Rensselaer, NY 12144

Generator's Site Address (if different than mailing address)

Generator's Phone: 518 395-465-6534 Wayne St. Clair

GRD ID # NYD093249688

6. Transporter 1 Company Name: Longhorn Trucking
U.S. EPA ID Number: 364 Permit #0A-485

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561
U.S. EPA ID Number: NY State Facility ID #

Facility's Phone: 1-585-526-4420 | 8324000000000010

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7214 or Will Lindheimer (LAND Remediation) 518-937-0473
Truck # -
Approval # 3618
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair
Signature: Wayne St Clair
Month: 12 Day: 6 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Andy Wenskoski
Signature:
Month: 12 Day: 6 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month: 12 Day: 6 Year: 12

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498492
DATE: 12/07/2012
TIME: 07:30 - 08:37

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 389 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 108280 LBS
TARE: 40400 LBS
NET: 67880 LBS
CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	33.9400	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N/A	1	1-800-424-9300	0020

5. Generator's Name and Mailing Address
BASF Corp
70 36-Riverside Ave., Rensselaer, NY 12144

Generator's Site Address (if different than mailing address)
GEN ID # NYD093249608

Generator's Phone: 518 [illegible] Wayne St. Clair

6. Transporter 1 Company Name
Longhorn Trucking

U.S. EPA ID Number
364 Permit #MA-485

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561

U.S. EPA ID Number
NY State Facility ID #
832400004000010

Facility's Phone: 1-585-526-4470

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 585-229-7214 or Will Lindhelmer (LAND Remediation) 585-937-0473
Truck # -
Approval # 3638
Trailer # -

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair
Signature: Wayne St. Clair
Month: 12 Day: 6 Year: 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jim Wilmarth
Signature:
Month: 12 Day: 6 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

NEWS NE / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 498461
DATE: 12/07/2012
TIME: 06:15 - 07:40

CUSTOMER: LE-00438 / LAND REMEDIATION
HAULCUST: WO: 0 APPROVAL #:
ORIGIN: RR / RENSSELAER
TRUCK: 881 TRAILER:
GENERATOR: BASF / BASF PROFILE #: 3618
HAULER: LH / LONGHORN ROUTE: NA / NON APPLICABLE
COMMENT: 3618

P.O.:
GROSS: 106380 LBS
TARE: 39220 LBS
NET: 67160 LBS

CELL/TANK: P7

MATERIAL	QUANTITY	UNIT
AC / ALTERNATIVE DAILY COVER	33.5800	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: _____ Driver: _____

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0

881

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N/A	1	1-800-424-9300	0019

5. Generator's Name and Mailing Address: BASF Corp
70-30 Riverside Ave., Rensselaer, NY 12144

Generator's Site Address (if different than mailing address)

Generator's Phone: 518 395-465-6538 Wayne St. Claire

GEN ID # NYD093249688

6. Transporter 1 Company Name: Longhorn Trucking — U.S. EPA ID Number: 364 Permit #NA-485

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Ontario County Landfill
3555 Post Farm Road
Stanley, NY 14561 — U.S. EPA ID Number: NY State Facility ID #

Facility's Phone: 1-585-526-4420 — 8324000000000010

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, Non-DOT Regulated Solids - Contaminated Sediment	001	DT	35 est.	T	
2.						
3.						
4.						

GENERATOR

13. Special Handling Instructions and Additional Information
In case of emergency or for information on this shipment contact:
Keith Decker (LAND Remediation) 518-229-7234 or Will Lindheimer (LAND Remediation) 315-937-0473
Truck # -
Trailer # -
Approval # 3618

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Wayne St. Clair — Signature: Wayne St. Clair — Month: 12 Day: 6 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Dion Battisti — Signature: [signature] — Month: 12 Day: 6 Year: 12

Transporter 2 Printed/Typed Name — Signature — Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [illegible] — Signature: [signature] — Month: 12 Day: 17 Year: 12