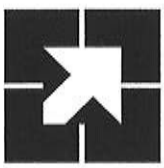
TANK CLOSURE REPORT
BROWNSVILLE INDUSTRIAL SITE NO. 1 – UST REMOVAL
180 – 190 SACKMAN STREET
BOROUGH OF BROOKLYN, NEW YORK
NYSDEC SPILL NO. 0510241

Prepared for



NEW YORK CITY
ECONOMIC DEVELOPMENT CORPORATION
110 WILLIAM STREET
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Prepared by:

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EXECUTIVE SUMMARY

Metcalf & Eddy of New York, Inc. ("M&E") has prepared this Tank Closure Report on behalf of the New York City Economic Development Corporation ("EDC") to summarize the activities associated with the closure of one (1) No.2 fuel oil underground storage tank ("UST") at Brownsville Industrial Site No.1 located at 180 – 190 Sackman Street in the Borough of Brooklyn, New York. The report documents the demolition, tank cleaning, tank excavation, environmental sampling and administrative actions performed to permanently close one (1) 550-gallon No.2 fuel oil UST. Based upon the condition of the UST subsequent to its removal, a telephone call was made to the New York State Department of Environmental Conservation ("NYSDEC") on November 29, 2005 to report a potential historical discharge of petroleum hydrocarbons. The NYSDEC issued Spill No. 0510241 for the incident.

The post-excavation soil samples collected from the site were analyzed for Target Compound List ("TCL") volatile organic compounds ("VOCs"), TCL semivolatile organic compounds ("SVOCs"), and Total Petroleum Hydrocarbons ("TPHC").

The soil sample analytical results were compared to the following regulatory criteria:

- New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandum ("TAGM") HWR 94-4046, dated 1994, revised per NYSDEC Memorandum dated December 20, 2000, and;

- Spill Technology and Remediation Services ("STARS") Memo No.1, Toxicity Characteristic Leaching Procedure ("TCLP") Alternative Guidance Values.

The following conclusions are presented based upon the results of the laboratory analysis of the post-excavation soil samples:

- No VOCs were detected at concentrations above NYSDEC criteria in the soil samples collected. VOC compounds detected below the NYSDEC criteria include acetone and methylene chloride. Both acetone and methylene chloride are common laboratory contaminants and are not typically associated with petroleum storage tanks, however, neither compound was detected in the blanks and may be present at the site.

- Detectable but estimated concentrations of SVOCs including phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene and benzo(a)pyrene were detected in four (4) of the seven (7) soil samples collected. Of these compounds, estimated concentrations of benzo(a)anthracene, chrysene, benzo(b)fluoranthene and benzo(a)pyrene were detected above one or more NYSDEC criteria in the four (4) soil samples. Benzo(b)fluoranthene was the most prevalent compound detected.

- TPHC was detected at concentrations below the New York State Department of Sanitation criteria to evaluate soil as cover material formerly used at the Fresh Kills Landfill in soil samples S-2, S-3 and S-4. The NYSDEC TAGMs do not have criteria for TPHC in soil.

- Approximately 12 tons of petroleum impacted soil was removed from the site on January 27, 2006. The material was transported to Clean Earth of Carteret, Inc. located in Carteret, New Jersey for treatment via fixed-based bioremediation technology.

Based upon the field observations and laboratory findings, it appears the post-excavation samples obtained following the removal of the UST contain compounds that are similar to the fill material observed during the Phase II Environmental Site Assessment ("Phase II ESA") conducted by M&E in July 2005. The SVOC compounds detected in the soil samples at levels above applicable NYSDEC criteria are typical of the compounds found at other sites throughout the New York metropolitan area that have been impacted by historic industrial operations and fill.

The lack of mobile free or residual petroleum contamination, no apparent on-going source of contamination, the isolated nature of the fill, and the lack of human or environmental receptors precludes the need for further investigation or remediation of the a UST described in this report. Thus, M&E recommends no further action at Sackman Street property at this time.

1.0 INTRODUCTION

Metcalf & Eddy of New York, Inc. ("M&E") has prepared this Tank Closure Report on behalf of the New York City Economic Development Corporation ("EDC") to summarize the activities associated with the closure of one petroleum storage tank located at 180 -190 Sackman Street in the Borough of Brooklyn, New York. The report documents the demolition, tank cleaning, tank excavation, environmental sampling and administrative actions performed to properly close one (1) 550-gallon No. 2 fuel oil UST.

1.1 PROJECT SUMMARY AND BACKGROUND

M&E performed a Phase II Environmental Site Assessment ("Phase II ESA") in July 2005 on behalf of the EDC which was interested in offering the site for sale and redevelopment. As part of the Phase II ESA, M&E performed a geophysical survey, exploratory test pit excavations and collected surface and subsurface soil samples for VOCs, SVOCs, and Metals analyses. A UST with an estimated capacity of 550-gallons was encountered in one test pit near the eastern boundary of the site. The soil sample collected from the test pit near the tank did not detect any significant contamination that could be associated with the tank.

M&E recommended in the Phase II ESA that the 550-gallon UST be removed. If contamination from the UST was detected, the NYSDEC would be notified and appropriate remedial measures would need to be implemented.

2.0 SITE DESCRIPTION

2.1 LOCATION

The site is located at 180 -190 Sackman Street in the Brownsville section of the Borough of Brooklyn, New York as shown in Figure 1. The area is highly urbanized and has undergone intensive development as a residential, industrial and commercial area since the mid-1800s (Miller 2003).

The site has an area of approximately 0.39 acres (17,000 s.f.) based upon measurements obtained from Sanborn Maps and a tax map provided by the NYCEDC for the Phase I ESA. The elevation of the site is approximately 55 feet above mean sea level ("msl"). The site is on a broad, south-facing slope.

2.2 GEOLOGIC AND HYDROGEOLOGIC SETTING

The area containing the subject site lies within the glaciated coaster plain region of Long Island. The geologic strata in the Brownsville area, as described in a report titled Reconnaissance of the Ground-Water Resources of Kings and Queens Counties, New York (1981) U.S. Geological Survey, include Holocene marine/tidal marsh and Pleistocene glacial deposits overlying Cretaceous sand and clay units of the Raritan Formation. Many low-lying areas have been historically filled to accommodate development. The bedrock surface is reportedly greater than 100 feet below grade near the site.

Shallow groundwater in the region likely flows towards the south and the Atlantic Ocean. However, local filling and construction of subsurface structures/utilities may have locally influenced groundwater flow patterns.

The native soils in the general area have apparently been buried, re-worked, or removed/replaced. Soils in Brooklyn are typically identified as "Urban Land", due to disturbances or replacement of the original soils to accommodate construction.

Test pit excavations conducted during the Phase II ESA indicated that the original structure at the site was demolished, with the debris buried in the basement upon completion. Fill material was encountered at each test pit location. The thickness of the fill was found to be greater than eight feet, which was the greatest depth of any of the test pit excavations. The excavation effort

was characterized as moderate to difficult. The fill contains construction and demolition ("C&D") materials and other material embedded in a matrix consisting primarily of coarse to fine sand with varying amounts of gravel, cobbles, and boulders. Buried sections of what appeared to be entire brick and concrete building walls were encountered at some locations. Other items observed in the test pits included; steel and iron debris, auto-body parts, wire, tires, porcelain and glass, plastic, textiles, asphalt, and other less frequently encountered items.

2.3 UTILITIES AND INFRASTRUCTURE

There are no visible structures or other improvements at the site, which is covered by vegetation, mainly weeds, grasses, and the occasional sumac tree. The site is entirely fenced, and there are currently no operating entities at the site.

No active utilities serve the site; however, the presence of utility valves, inlets, manholes and utility poles indicates that the surrounding area is served by public utilities (water, sewer, gas, electric, and telecommunications). Several utility poles are located on the site parallel to the eastern boundary, but do not appear to be connected to the local electrical or telecommunication grid.

3.0 TECHNICAL APPROACH

3.1 PROPOSED SCOPE OF SERVICES

M&E's technical approach to the EDC for the closure of a UST at the site was originally proposed as follows:

- Monitor the contractor as they expose the UST and associated piping;
- Monitor the cleanout of the UST;
- Monitor the physical removal of the UST and associated materials (concrete, tie-down straps, etc.);
- Direct the contractor to remove any additional areas of visual soil contamination from the side walls of the excavation;
- Obtain post-excavation samples and appropriate QA/QC samples for laboratory analysis, and;
- Monitor backfilling activities at the tank excavation location.

The number of samples scheduled to be analyzed as part of the monitoring activities were as follows:

- Priority Pollutant Volatile Organic Compounds (samples, duplicates, field blanks) — 7 samples
- Priority Pollutant Semivolatile Organic Compounds (samples, duplicates, field blanks) — 7 samples
- Total Petroleum Hydrocarbons (samples, duplicates, field blanks) — 7 samples

Four (4) sidewall and two (2) floor samples were to be collected from the excavation. In addition, one (1) duplicate soil sample and one (1) field blank sample will be collected from the excavation for quality assurance purposes. The samples will be analyzed on a two (2) weeks turnaround time. The excavation will be lined with plastic sheeting and backfilled with clean fill. The plastic sheeting will be placed in the event further excavation of contaminated soils is necessary based upon the sample analytical results.

3.2 DESCRIPTION OF TANK

The 550-gallon UST was located approximately 32 feet from the eastern boundary of the site along the chain link fence. It was constructed of bare, single-wall steel, and contained No. 2 fuel

oil mixed with water. No piping or appurtences associated with the UST were present. This UST was most likely a residential heating oil tank. Based on a review of available Sanborn Fire Insurance Maps, the UST was installed prior to 1983 when the residential buildings are no longer depicted on the Sanborn Maps. The former tank location and other site features are included in Figure 2.

3.3 TANK CLOSURE / ASSESSMENT ACTIVITIES

Remedial actions included tank cleaning/removal, and the transport/disposal of the tank, tank residuals and cleaning rinsate. Post-excavation soil sampling was performed by M&E.

The 550-gallon UST was cleaned and removed from the site on November 28, 2005. M&E subcontracted the UST removal activity to EISCO of Port Reading, New Jersey ("EISCO"). EISCO utilized a Caterpillar 416D backhoe/front-end loader combination to remove the overburden soil and expose the UST. EISCO used a saw cutting machine to cut open a small section of UST to check the contents. Approximately 175 gallons of residual product mixed with water was pumped out by vacuum truck and transported to Clean Water located in Staten Island, a licensed Transportation and Disposal ("TSD") facility. The tank interior was cleaned with "oil-dri" pads and the tank removed from the ground and staged temporarily on plastic sheeting. The tank appeared to be in good structural condition with the exception of some small holes located at the top of the tank. The cleaned tank was placed in the back of a dump truck and transported to a scrap metal recycling facility. A photographic log of the tank decommissioning activities is presented in Appendix A.

Based upon the small holes observed on the top of the tank, EDC requested that the NYSDEC Spill Hotline be contacted. On November 29, 2005 at 4:18 PM, operator 406 of the Spill Hotline was contacted to report a potential historical discharge of petroleum hydrocarbons and Spill No. 0510241 was issued for the site.

EISCO excavated approximately 12 tons of potentially non-hazardous fuel oil contaminated soil from around the UST and stockpiled it on plastic sheeting. Four (4) post-excavation sidewall samples (S-1 to S-4) approximately 5 ft below ground surface ("bgs") and two (2) floor samples approximately 1 foot from the ends of the excavation were collected for VOCs, SVOCs and TPH analysis. The samples were submitted to Chemtech Lab a NYSDOH approved laboratory. The sample locations are shown on Figure 3. EISCO collected a composite soil sample from the stockpile for waste characterization analysis.

The excavation was lined with plastic and backfilled with approximately 25 tons of certified clean fill to grade in 12 to 18 inch thick lifts and compacted with the backhoe bucket. The excavated potentially non-hazardous fuel oil contaminated soil was covered and secured with plastic sheeting.

Approximately 12 tons of petroleum impacted soil was removed from the site on January 27, 2006. The material was transported to Clean Earth of Carteret, Inc. located in Carteret, New Jersey for treatment via fixed-based bioremediation technology. Waste manifests are included in Appendix B.

3.4 QUALITY ASSURANCE

Sample quality assurance was maintained in the field through use of proper sample handling and tracking techniques. Samples collected from the excavator bucket were taken from the middle of the bucket to avoid potential contamination associated with surrounding soils or the bucket itself. Sample volumes were extracted using dedicated, disposable Nitrile gloves. Samples collected manually were obtained by using clean, stainless-steel augers or scoops. Samples were immediately placed in clean glassware supplied by the analytical laboratory, and stored in coolers containing ice. Each cooler was sealed and either delivered to the analytical laboratory or picked up by a laboratory courier using standard chain-of-custody forms and protocols.

4.0 FINDINGS

4.1 FIELD OBSERVATIONS

The tank removed from the site showed no visible evidence of leakage, however, several small holes on the top of the tank were observed and the NYSDEC Spill Hotline was notified. No associated piping was encountered during the UST removal operation. The fill materials sampled consisted of construction and demolition materials and other material embedded in a matrix consisting primarily of coarse to fine sand with varying amounts of gravel, cobbles, and boulders.

4.2 LABORATORY RESULTS

4.2.1 Post-excavation Sample Results

The results of the laboratory analysis of post-excavation samples collected from the excavation associated with the former 550 gallon storage tank indicate the presence of SVOCs above one or more of the NYSDEC soil criteria. These criteria include the Recommended Soil Cleanup Criteria ("RSCC"), the Soil Cleanup Objectives to Protect Groundwater Quality ("SCGQ"), and the STARS Memo No.1, TCLP Alternative Guidance Values. The following sections summarize the results of the laboratory findings. Further detailed laboratory data can be found in Tables 1-3, while the complete laboratory package is included in Appendix C.

Of the seven (7) soil samples collected within the excavated area after UST was removed, none contained targeted VOCs above the NYSDEC soil cleanup criteria. However, four (4) samples contained SVOCs above one or more of the NYSDEC soil cleanup criteria. A summary of these samples is provided below.

Sample	Depth (ft)	NYSDEC Criteria Exceedance	Concentration (ppb)	STARS Memo 1 Criteria (ppb)
S-1	5.0	None	-------	-------
S-1D	5.0	None	-------	-------
S-2	5.0	Benzo(b)fluoranthene	230 J	0.04
S-3	5.0	Benzo(a)anthracene	100 J	0.04
		Benzo(b)fluoranthene	120 J	0.04
		Benzo(a)pyrene	280 J	0.04
		Chrysene	98 J	0.04
S-4	5.0	Benzo(a)anthracene	59 J	0.04
		Benzo(b)fluoranthene	68 J	0.04
		Chrysene	250 J	0.04
S-5	Floor	None	-------	-------
S-6	Floor	Benzo(b)fluoranthene	190 J	0.04

J – Estimated Value

4.2.2 Waste Characterization Sample Results

EISCO collected a composite soil sample from the stockpile for waste characterization analysis on November 27, 2005. The soil sample was submitted to Accredited Labs, Inc. for VOC and TPHC analysis. No VOCs were detected at concentrations above NYSDEC criteria in the composite soil sample. VOC compounds detected below the NYSDEC criteria include acetone and methylene chloride. Both acetone and methylene chloride are common laboratory contaminants. TPHC was detected at a concentration below the New York State Department of Sanitation criteria to evaluate soil as cover material formerly used at the Fresh Kills Landfill. The waste characterization analytical results package is presented in Appendix D.

5.0 CONCLUSIONS

The following conclusions are presented based upon the results of the laboratory analysis of the post-excavation soil samples:

- No VOCs were detected at concentrations above NYSDEC criteria in the soil samples collected. VOC compounds detected below the NYSDEC criteria include acetone and methylene chloride. Both acetone and methylene chloride are common laboratory contaminants and are not typically associated with petroleum storage tanks, however, neither compound was detected in the blanks and may be present at the site.

- Detectable but estimated concentrations of SVOCs including phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene and benzo(a)pyrene were detected in four (4) of the seven (7) soil samples collected. Estimated concentrations of SVOC compounds benzo(a)anthracene, chrysene, benzo(b)fluoranthene and benzo(a)pyrene were detected above one or more NYSDEC criteria in the four (4) soil samples with all four (4) compounds detected in the sidewall sample S-3. Benzo(b)fluoranthene was the most prevalent compound detected.

- TPHC was detected at concentrations below the New York State Department of Sanitation criteria to evaluate soil as cover material formerly used at the Fresh Kills Landfill in soil samples S-2, S-3 and S-4. The NYSDEC TAGMs do not have criteria for TPHC in soil.

Based upon the field observations and laboratory findings, it appears the post-excavation samples obtained following the removal of the UST contain compounds that are similar to the fill material observed during the Phase II ESA conducted by M&E in July 2005. The SVOC compounds detected in the soil samples at levels above applicable NYSDEC criteria are typical of the compounds found at other sites throughout the New York metropolitan area that have been impacted by historic industrial operations and fill.

6.0 RECOMMENDATIONS

The lack of mobile free or residual petroleum contamination, the isolated nature of the fill, and the lack of human or environmental receptors precludes the need for further investigation or remediation of the UST removal area described in this report.

7.0 STATEMENT OF LIMITATIONS

The data presented and the opinions expressed in this report are qualified as stated in the attachment to this section of the report.

Sirish Musthyala
Project Scientist

Ronald W. Kantor
Project Scientist

Nelson J. Abrams, P.G.
Project Manager

STATEMENT OF LIMITATIONS

The data presented and the opinions expressed in this report are qualified as follows:

1. The sole purpose of the investigation and of this report is to assess the physical characteristics of the Site with respect to the presence or absence in the environment of oil or hazardous materials and substances as defined in the applicable state and federal environmental laws and regulations and to gather information regarding current and past environmental conditions at the Site.

2. Metcalf & Eddy (M&E) derived the data in this report primarily from visual inspections, examination of records in the public domain, interviews with individuals with information about the Site, and a limited number of subsurface explorations made on the dates indicated. The passage of time, manifestation of latent conditions or occurrence of future events may require further exploration at the Site, analysis of the data, and reevaluation of the findings, observations, and conclusions expressed in the report.

3. In preparing this report, M&E has relied upon and presumed accurate certain information (or the absence thereof) about the Site and adjacent properties provided by governmental officials and agencies, the Client, and others identified herein. Except as otherwise stated in the report, M&E has not attempted to verify the accuracy or completeness of any such information.

4. The data reported and the findings, observations, and conclusions expressed in the report are limited by the Scope of Services, including the extent of subsurface exploration and other tests. The Scope of Services, was defined by the requests of the Client, the time and budgetary constraints imposed by the Client, and the availability of access to the Site.

5. Because of the limitations stated above, the findings, observations, and conclusions expressed by M&E in this report are not, and should not be considered, an opinion concerning the compliance of any past or present owner or operator of the site with any federal, state or local law or regulation. No warranty or guarantee, whether express or implied, is made with respect to the data reported or findings, observations, and conclusions expressed in this report. Further, such data, findings, observations, and conclusions are based solely upon site conditions in existence at the time of investigation.

6. This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the Agreement and the provisions thereof.

FIGURES

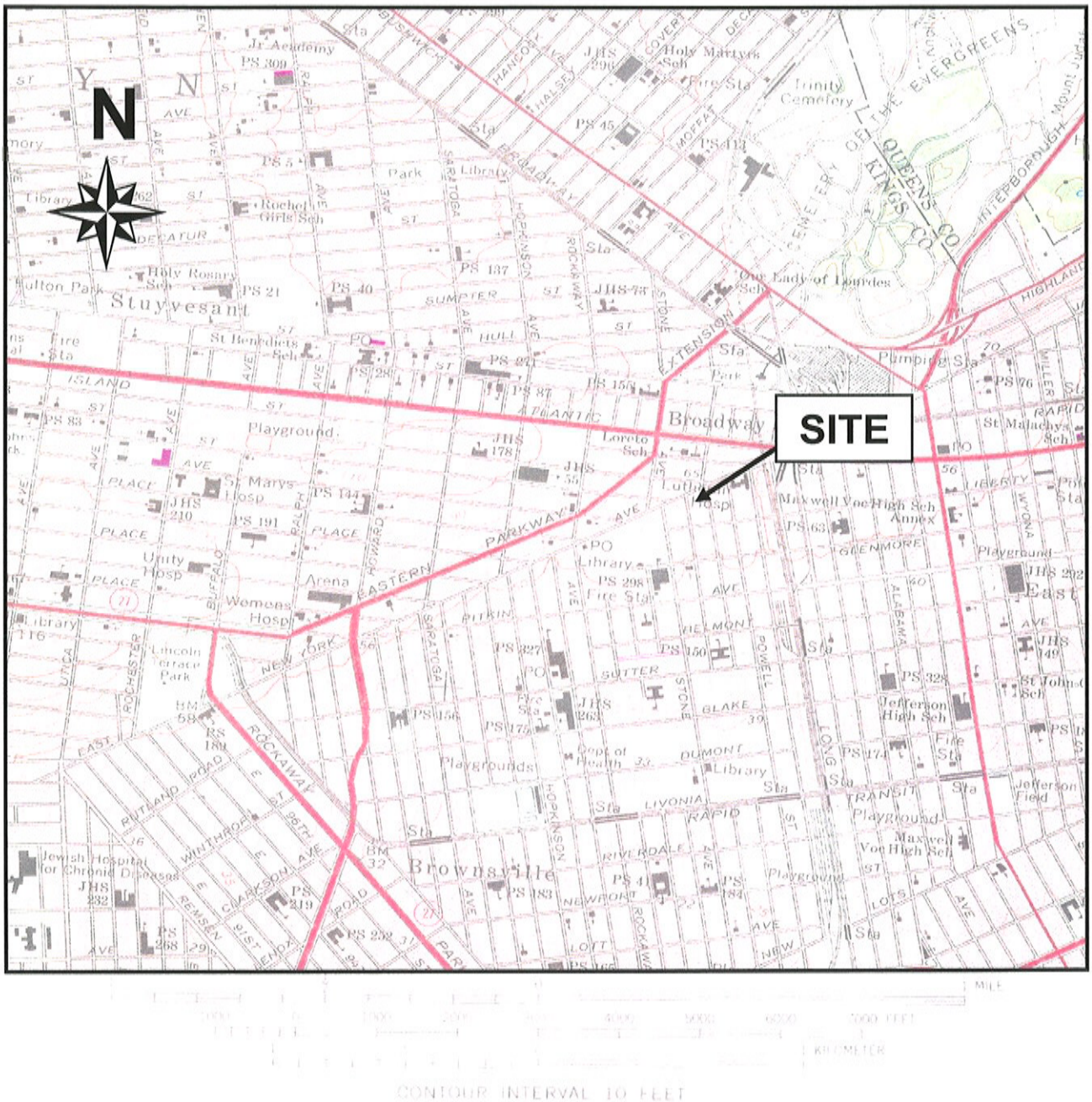

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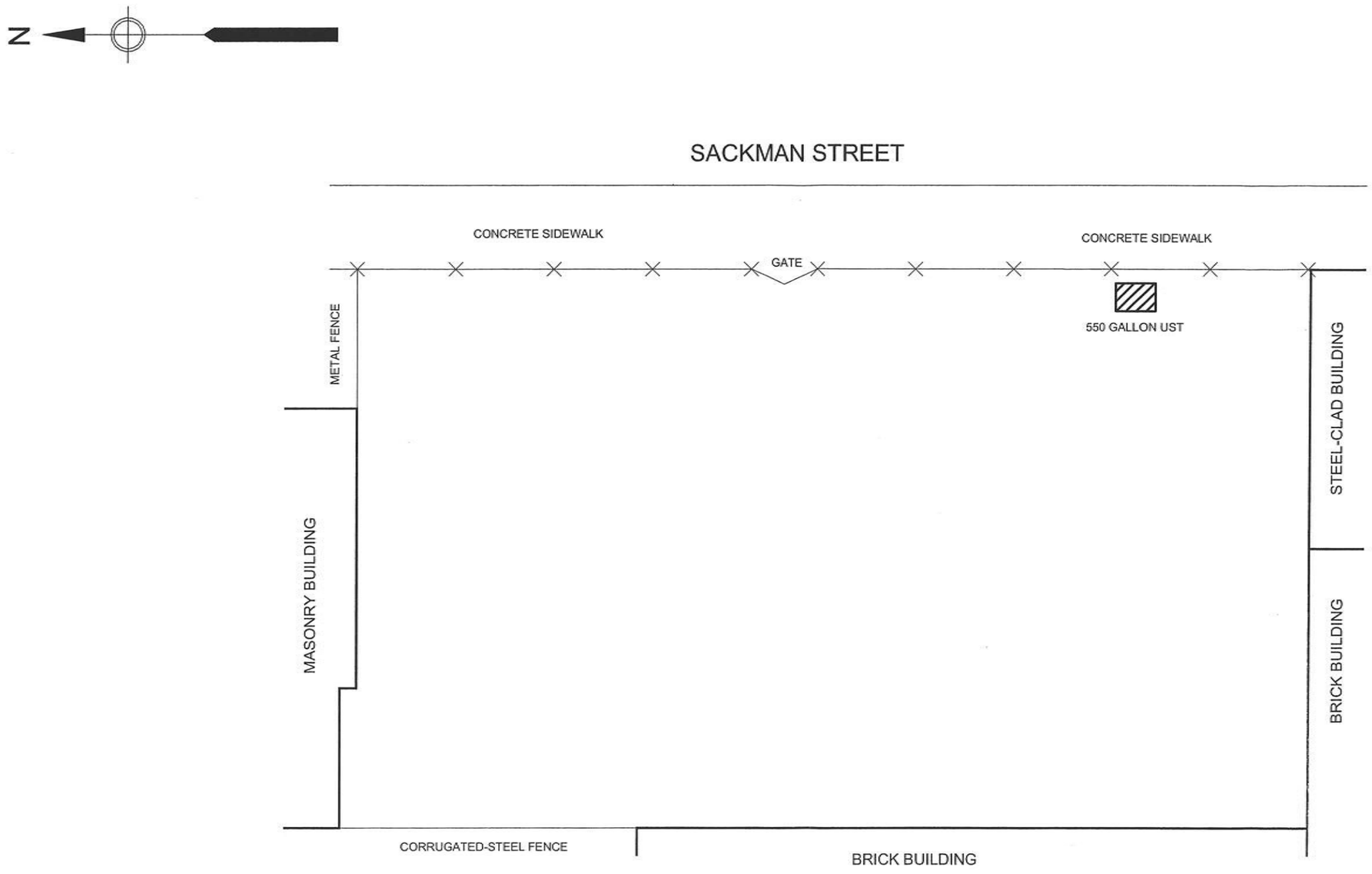
Figure 1
Site Location Map
Brownsville Industrial Site No.1
UST Removal
180-190 Sackman Street
Brooklyn, New York



1" = 20'
0 20 40 60
SCALE FEET

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NYC EDC
BROWNSVILLE INDUSTRIAL SITE 1–
UST REMOVAL
BROOKLYN, NEW YORK

SCALE: 1" = 20'	DATE: DEC. 2005	FIGURE 2

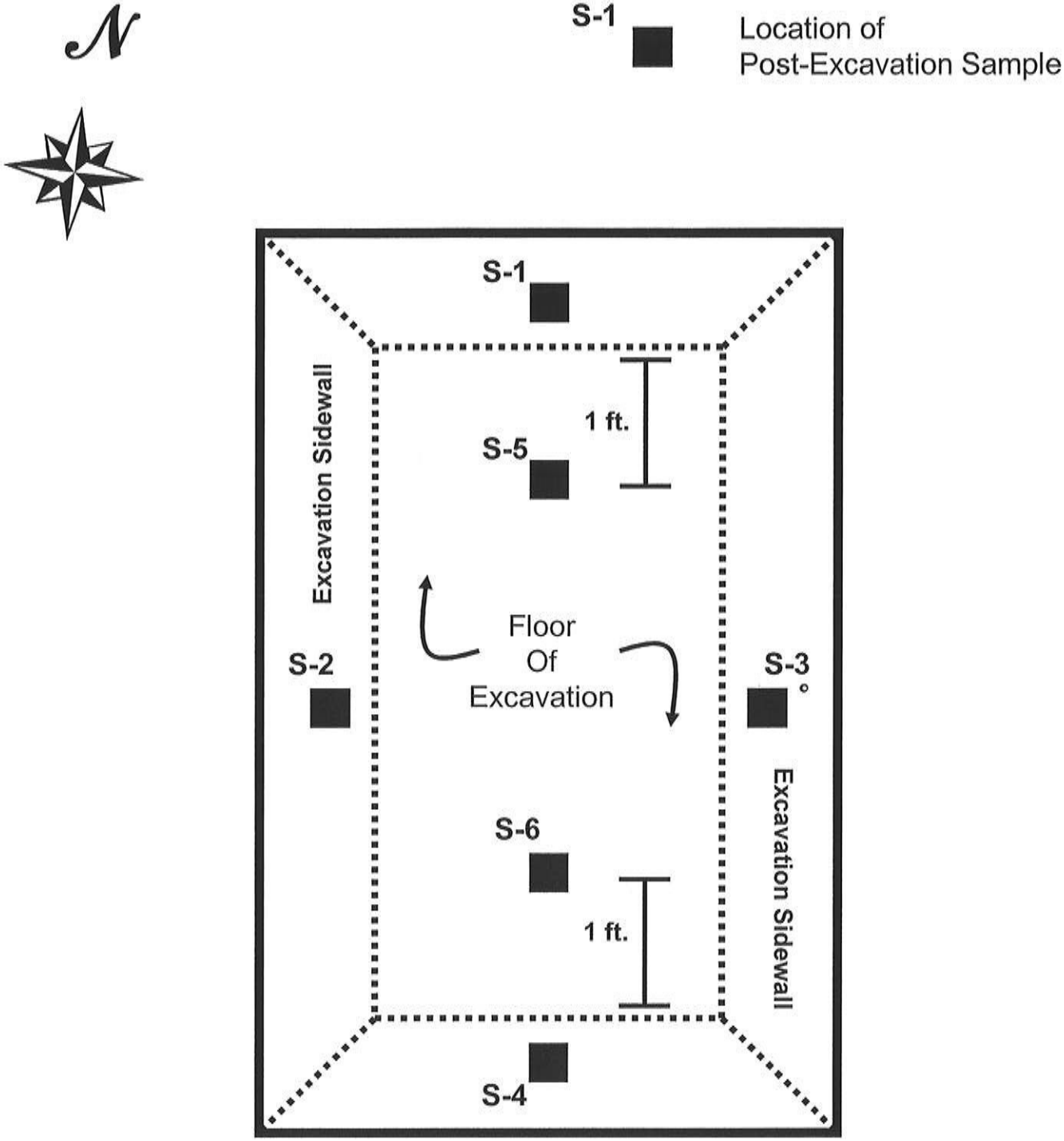

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Figure 3
Post-Excavation Soil
Sample Location Map
Brownsville Industrial Site No. 1
180-190 Sackman Street
Brooklyn, New York

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS - SOIL
VOLATILE ORGANIC COMPOUNDS (VOCs)
BROWNSVILLE INDUSTRIAL SITE No. 1
BROOKLYN, NEW YORK

Sample ID Lab ID Sample Date Location	S-1 T5908-01 11/28/2005 Side Wall	S-1D T5908-02 11/28/2005 Side Wall	S-2 T5908-03 11/28/2005 Side Wall	S-3 T5908-04 11/28/2005 Side Wall	S-4 T5908-05 11/28/2005 Side Wall	S-5 T5908-05 11/28/2005 Bottom	S-6 T5908-07 11/28/2005 Bottom	FIELDBLANK T5908-08 11/28/2005 Blank	TRIPBLANK T5908-09 11/28/2005 Blank	Soil Cleanup Objectives to Protect GW Quality (ppb)	Recommended Soil Cleanup Objective (ppb)	STARS Memo #1 TCLP Alternative Guidance Value (ppb)
Parameter (ppb)												
Acetone	ND	ND	ND	ND	390	ND	ND	ND	ND	NA	NA	NA
Methylene Chloride	ND	ND	3.8 JB	ND	ND	ND	ND	ND	ND	NA	NA	NA

ND-Not detected above laboratory detection limits
NA - Not Applicable
J - Estimated Value
B - Analyte found in associated Method Blank

TABLE 2
SUMMARY OF ANALYTICAL RESULTS - SOIL
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)
BROWNSVILLE INDUSTRIAL SITE No. 1
BROOKLYN, NEW YORK

Sample ID Lab ID Sample Date Location	S-1 T5908-01 11/28/2005 Side Wall	S-1D T5908-02 11/28/2005 Side Wall	S-2 T5908-03 11/28/2005 Side Wall	S-3 T5908-04 11/28/2005 Side Wall	S-4 T5908-05 11/28/2005 Side Wall	S-5 T5908-05 11/28/2005 Bottom	S-6 T5908-07 11/28/2005 Bottom	FIELDBLANK T5908-08 11/28/2005 Blank	Soil Cleanup Objectives to Protect GW Quality (ppb)	Recommended Soil Cleanup Objective (ppb)	STARS Memo #1 TCLP Alternative Guidance Value (ppb)
Parameter (ppb)											
Phenanthrene	ND	ND	ND	170 J	76 J	ND	ND	ND	220000	50000	1000
Fluoranthene	ND	ND	100 J	270 J	150 J	ND	ND	ND	1900000	50000	1000
Pyrene	ND	ND	79 J	220 J	120 J	ND	ND	ND	665000	50000	1000
Benzo(a)anthracene	ND	ND	ND	**100 J**	**59 J**	ND	ND	ND	3000	244 or MDL	0.04*
Chrysene	ND	ND	ND	**120 J**	**68 J**	ND	ND	ND	400	400	0.04*
Benzo(b)fluoranthene	ND	ND	**230 J**	**280 J**	**250 J**	ND	**190 J**	ND	1100	1100	0.04*
Benzo(a)pyrene	ND	ND	ND	***98 J***	ND	ND	ND	ND	11000	61	0.04*

NS-No Standard

ND-Not detected above laboratory detection limits

* - Due to the high detection limit for a solid matrix, the TCLP Extraction Method must be used to demonstrate groundwater quality protection for these compounds

J - Estimated Value

BOLD - Above STARS Memo #1 TCLP Alternative Guidance Value

Italics - Above Recommended Soil Cleanup Objective

Underlined - Above Soil Cleanup Objectives to Protect GW Quality

TABLE 3
SUMMARY OF ANALYTICAL RESULTS - SOIL
TOTAL PETROLEUM HYDROCARBONS
BROWNSVILLE INDUSTRIAL SITE No. 1
BROOKLYN, NEW YORK

Sample ID Lab ID Sample Date Location	S-1 T5908-01 11/28/2005 Side Wall	S-1D T5908-02 11/28/2005 Side Wall	S-2 T5908-03 11/28/2005 Side Wall	S-3 T5908-04 11/28/2005 Side Wall	S-4 T5908-05 11/28/2005 Side Wall	S-5 T5908-05 11/28/2005 Bottom	S-6 T5908-07 11/28/2005 Bottom	FIELDBLANK T5908-08 11/28/2005 Blank	Regulatory Guidelines*
Parameter (ppm - mg/Kg)									
Total Petroleum Hydrocarbons (TPHC)	ND	ND	15.2	32.5	15.0	ND	ND	ND	1000

* - NYC Department of Sanitation Criteria to Evaluate Soil as Cover Matertial for Use at the Fresh Kills Landfill.

TABLE 4
SUMMARY OF ANALYTICAL RESULTS - WASTE CLASSIFICATION
BROWNSVILLE INDUSTRIAL SITE No.1
BROOKLYN, NEW YORK

Sample ID **Lab ID** **Sample Date** **Location**	**1735** **2/3/3302** **11/28/2005** **Stockpile**	Soil Cleanup Objectives to Protect GW Quality (ppb)	Recommended Soil Cleanup Objective (ppb)	STARS Memo #1 TCLP Alternative Guidance Value (ppb)	**Regulatory Guidelines***
Parameter (ppb)					
Acetone	5 JB	NA	NA	NA	NA
Methylene Chloride	5 JB	NA	NA	NA	NA
Total Petroleum Hydrocarbons (TPHC)	48	NA	NA	NA	1000000

ND-Not detected above laboratory detection limits
NA - Not Applicable
J - Estimated Value
B - Analyte found in associated Method Blank
* - NYC Department of Sanitation Criteria to Evaluate Soil as Cover Matertial for Use at the Fresh Kills Landfill.

APPENDIX A:
PHOTOGRAPHIC LOG

Photo 1: Overburden soil removed to expose UST.

Photo 2: Top of UST cut open to inspect the contents.

Photo 3: Fuel oil mixed in with water.

Photo 4: View of the site facing south.

Photo 5: Vacuum truck parked on Sackman Street.

Photo 6: Pumping UST contents into vacuum truck.

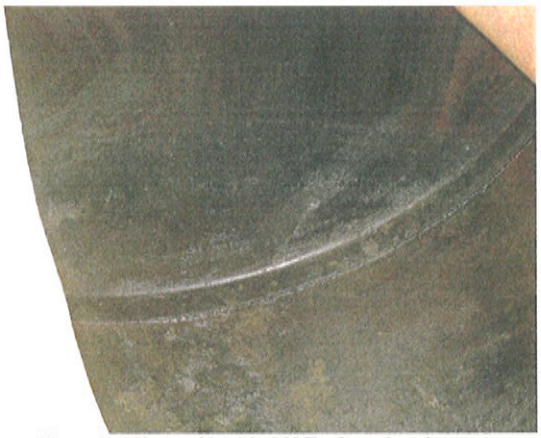

Photo 7: View of inside UST after cleaning.

Photo 8: View of inside UST after cleaning.

Photo 9: UST removed from ground.

Photo 10: Soil beneath the UST.

Photo 11: Soil excavation after UST removal.

Photo 12: Loading the UST in the back of dump truck.

Photo 13: Excavated soil covered with plastic sheeting.

Photo 14: Truck unloading clean certified backfill.

Photo 15: Backfilling the excavation with clean fill.

Photo 16: Backfill operation complete.

APPENDIX B:
SOIL / WATER DISPOSAL MANIFESTS / BILL OF LADINGS

Environmental Industrial Services Corp. of New Jersey

Bill of Lading

Shipper No.: 1

Date: 11-28-05

Original: Not Negotiable
Yellow: Shipping Order Copy
Pink: Memorandum

TO:	FROM:
Consignee CLEAN WATER	Shipper ~~EISCO~~ NYC EDC
Street RICHMOND TERR	Street 170 SACKMAN ST
Destination STATEN ISLAND Zip Code	Origin BROOKLYN NY Zip Code 11212

Date: 11-28-05 Job # NY-1735.7 Vehicle Number

Shipping Units	Kind of Packaging, Description of Articles Special Marks and Exceptions	Quantity	Units
1-TT	NON HAZ / NON DOT	17.5	C.

11/28/05

SHIPPER NYCEDC	CARRIER EISCO of NJ
SIGNATURE Agent For Shipper	SIGNATURE [illegible] DATE 11-28-05

Clean Earth of Carteret, Inc.
24 Middlesex Avenue, Carteret, NJ

Phone: 732-541-8909
Fax: 732-541-8105

Approval Number:

Contaminated Soil Profile Sheet

Generator Information:

Name: Economic Development Corporation

Address: 110 William Street

City: New York State: NY Zip Code: 10038

Agent or Contact Point: Ms. Kay Zias Telephone: (212) 312-3752

Company Name: City of New York

Billing Information:

Name: Metcalf & Eddy of New York, Inc. Phone: (908) 947-0274

Address: 1140 Route 22 East, Suite 101

City: Bridgewater State: NJ Zip Code: 08807

Site Description:

Address: 180 – 190 Sackman Street

City: Brooklyn State: NY Zip Code: 11212

County of Origin if in New Jersey NA

Existing Site Land Use: Vacant Land How Many Years: 15 – 20 years

Is This Site a State or Federal Superfund Site ? _____ Yes _____ No X

Soil Description:

Source of Contamination (UST or Other): UST

Estimated Volume of Soil: 25 – 30 tons

Type of Contamination (Gas, Kero, #2, #4, #6 Oil, Etc.): #2 fuel oil

If Contamination is Other Than Above Please Specify: NA

Is a Soil Analysis Attached to this Form: Yes

Certification

I hereby certify that the above information is a true and accurate description to the best of my knowledge of the material we intend to ship to Clean Earth of Carteret's Facility:

Signed: Kay Zias Date: 1/3/06

Print Name: KAY ZIAS Title: Asst. Vice Pres. Environmental Planning

Approval Number: _____

NON-HAZARDOUS WASTE CERTIFICATION SHEET

PCB Certification

I, the undersigned, under penalty of law, do hereby certify that the material to be submitted to the Clean Earth of Carteret facility does not contain polychlorinated biphenols (PCBs) at concentration greater than 50 ppm as defined in 40 CFR 761.

Herbicide/Pesticides Certification

I, the undersigned, under penalty of law, do hereby certify that the material to be submitted to the Clean Earth of Carteret facility does not contain Herbicides or Pesticides at concentrations that would render it as hazardous waste defined in 40 CFR 261.

Non-Hazardous Waste Certification

I, the undersigned, under penalty of law, do certify that the material submitted to the Clean Earth of Carteret facility is not a listed hazardous waste, nor does it contain a listed hazardous waste, nor does it exhibit any of the characteristics of a hazardous waste as defined in 40 CFR 261.

The undersigned also acknowledges they have used due diligence in determining the Non-Hazardous status, of the said material, as defined in 40 CFR. Should at any time after delivery, the material accepted by Clean Earth of Carteret be found non-conforming to the above, it becomes the responsibility of the Generator/Agent t remove the waste from Clean Earth of Carteret property within (5) days of notification (notification is to be verbal followed by written notification, over night receipted).
It is the Generator/Agent's responsibility to abide by all Federal, State, and Local regulations associated with the removal of their waste. If the waste is not removed within the specified time period said disposal shall be arranged by a Clean Earth of Carteret representative and billed to the Generator/Agent at cost plus basis. Furthermore the Generator/Agent will be responsible for any and all costs for decontamination required at Clean Earth of Carteret facility, that is related to the Generator/Agent's material and all liability for such nonconforming waste shall revert to the Generator/Agent.

I CERTIFY THAT I AM AUTHORIZED TO EXECUTE THIS ON BEHALF OF:

Economic Development Corporation (EDC)

Generator's Name

Ms. Kay Zias
Planning

Assist. Vice Pres. Environmental

Print Name

Kay Zias

Title

Authorized Signature

1/3/06

Date:

CLEAN EARTH OF CARTERET, INC.

24 Middlesex Avenue, Carteret, NJ 07008
Phone: (732) 541-8909

(TYPE OR PRINT CLEARLY)

APPROVAL # 260123 **MANIFEST #** _____

GENERATOR'S NAME & ADDRESS:

ECONOMIC DEVELOPMENT CORP
110 WILLIAM STREET
NEW YORK NY 10038

GENERATOR'S PHONE #: _____

Site Address:
180-190 SACKMAN ST
BROOKLYN NY 11212

GENERATOR'S PHONE #: _____

Est. Quantity: 22 TONS

DESCRIPTION OF MATERIAL:

NON DOT REGULATED/RCRA NON-HAZARDOUS PETROLEUM HYDROCARBON CONT. MATERIAL

I hereby certify that the above described materials is not a hazardous waste as defined by 40 CFR Part 261 nor is it contaminated by PCB as defined by 40 CFR part 761. Additionally, it is the same material which was analyzed and described in the application for treatment provided to Clean Earth of Carteret which resulted in the approval number listed above. It is properly classified and packaged for transportation in accordance with applicable regulations.

Name: SUSAN C. MUSHNIKA OF MECALFE EDDY, INC. Title: ENGINEER
AS AN AGENT REPRESENTING NEW YORK CITY ECONOMIC DEVELOPMENT CORPORATION (NYCEDC)
Signature: Susan Mushnika Date: 01/27/06

TRANSPORTER
Company: CLS 40-NJ **Phone #** _____
Address: 900 PORT ROMAN
Driver: ALEX BARNICK (TYPE OR PRINT CLEARLY)

Gross Weight: _____
Tare Weight: _____
Net Weight: _____

I hereby certify that the above described materials were picked up at the above described generator address without incident and will be delivered without tampering of any kind.

Driver Signature: _____ Date: 1-27-06

DESTINATION

I hereby certify that the above described materials was delivered to Clean Earth of Carteret at 24 Middlesex Avenue, Carteret, New Jersey 07008.

iver Signature: _____ Date: _____

I hereby certify that the above described material has been accepted at Clean Earth of Carteret.

Authorized Signature: _____ Date: 1/30/06

Clean Earth of Carteret, Inc.
24 Middlesex Avenue
Carteret, NJ 07008
Phone 732 541-8909
Fax 732 541-8105

Ticket: 11815

75: Eisco
Vehicle: J30

Time In: 07:32 AM 1/30/2006
Time Out: 07:32 AM 1/30/2006

In: 58260lb
Out: 35300lb
Net: 22960lb = 11.48 Tons

Approval & Manifest# 260123

Material: Soil
Reuser:
Destination:

APPENDIX C:
POST-EXCAVATION
LABORATORY REPORT

CHEMTECH 284 Sheffield Street • Mountainside, NJ 07092 Phone: 908.789.8900 Fax: 908.789.8922

DATA PACKAGE FOR VOLATILE ORGANICS SEMI-VOLATILE ORGANICS GC SEMI-VOLATILES

PROJECT NAME: Brownsville Industrial Site 1 Sackman Street

METCALF & EDDY, INC.
1140 ROUTE 22 EAST
SUITE 101
BRIDGEWATER, NJ 08807
9087078874

CHEMTECH PROJECT NO. **T5908**
ATTENTION: **Nelson Abrams**

CHEMTECH
284 Sheffield Street, Mountainside NJ 07092
Tel: 908-789-8900 Fax 908-789-8922

COVER PAGE

ProjectID: Brownsville Industrial Site 1

OrderID: T5908 **CustomerName:** Metcalf & Eddy, Inc.

LAB SAMPLE NO.	CLIENT SAMPLE NO
T5908-01	S-1
T5908-02	S-1D
T5908-03	S-2
T5908-04	S-3
T5908-05	S-4
T5908-06	S-5
T5908-07	S-6
T5908-08	FIELDBLANK
T5908-09	TRIPBLANK

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: _____ Name: Tanya Polyak

Date: 12/16/05 Title: QA/QC

1.0 CASE NARRATIVE

CHEMTECH

CASE NARRATIVE

Metcalf & Eddy, Inc.
Project Name: Brownsville Industrial Site 1 Sackman Street
Chemtech Project # T5908

A. Number of Samples and Date of Receipt:
7 Solid samples were received on 11/28/05.
2 Water samples were received on 11/28/05.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-TCL BNA -20, TCL Volatiles + 10, TCL Volatiles+10, and TPH by Gas Chromatography. This data package contains results for TCL Volatiles + 10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA H were done using GC column RTX624, which is 75 meters, 0.53 ID, 3.0 df, Restek Cat. #10974. The Trap was supplied BY OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.The analysis performed on instrument MSVOA K were done using GC column DB624, which is 20 meters, 0.18 ID, 1.0 df, J&W Cat. #1211324. The Trap was supplied by OI Analytical, OI #10 Trap , OI 4560 Concentrator.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for S-6RE.
The Internal Standards Areas met the acceptable requirements except for S-6.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds except for Carbon Disulfide, 1,2-Dichloroethane, 4-Methyl-2-Pentanone, t-1,3-Dichloropropene, 1,1,2-Trichloroethane, 2-Hexanone, Dibromochloromethane and Bromoform.
The MSD recoveries met the acceptable requirements except for Carbon Disulfide, 1,2-Dichloroethane, t-1,3-Dichloropropene and 2-Hexanone.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples except for Carbon Disulfide, Methylene Chloride and Tetrachloroethene.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:
1,2-Dichloropropane has % RSD out of recovery limit in continuing calibration check standard, however this compound is not present in any sample.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature _____ Name: Krupa Dubey

Date: 12/16/05 Title: QA/QC

CHEMTECH

CASE NARRATIVE

Metcalf & Eddy, Inc.
Project Name: Brownsville Industrial Site 1 Sackman Street
Chemtech Project # T5908

A. Number of Samples and Date of Receipt:
7 Solid samples were received on 11/28/05.
2 Water samples were received on 11/28/05.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-TCL BNA -20, TCL Volatiles + 10, TCL Volatiles+10, and TPH by Gas Chromatography. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA B using GC Column RTX-5 SILMS which is 30 meters, 0.32 mm ID, 0.5 um df, Catalog # 12739-125.The samples were analyzed on instrument BNA E using GC Column RTX-5 SILMS which is 30 meters, 0.32 mm ID, 0.5 um df, Catalog # 12739-125. The samples were analyzed on instrument BNA F using GC Column HP-5MS which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 12739-125.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for S-4RE.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds except for 4,6-Dinitro-2-methylphenol, Indeno(1,2,3-cd)pyrene, Benzo(k)fluoranthene, Dibenz(a,h)anthracene and Benzo(g,h,i)perylene.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples except for 4-Nitrophenol, 4,6-Dinitro-2-methylphenol, Carbazole, Phenol and 4-Chloroaniline.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Tuning criteria met requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature KDP Name: Krupa Dubey

Date: 12/16/05 Title: QA/QC

CHEMTECH

CASE NARRATIVE

Metcalf & Eddy, Inc.
Project Name: Brownsville Industrial Site 1 Sackman Street
Chemtech Project # T5908

A. Number of Samples and Date of Receipt:
7 Solid samples were received on 11/28/05.
2 Water samples were received on 11/28/05.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-TCL BNA -20, TCL Volatiles + 10, TCL Volatiles+10, and TPH by Gas Chromatography. This data package contains results for TPH by Gas Chromatography.

C. Analytical Techniques:
The analysis performed on instrument NPD 1 using column HP-5 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog # 19091J-413.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for T5908-06 and T5908-07.
The MS recoveries met the acceptable requirements
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature _____ Name: Krupa Dubey

Date: 12/16/05 Title: QA/QC

2.0 CHAIN OF CUSTODY

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountai[illegible]e, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. T5708

COC Number 056418

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: METCALF & EDDY INC.
ADDRESS: 1160 ROUTE 22 EAST SUITE 101
CITY: BRIDGEWATER STATE: NJ ZIP: 08807
ATTENTION: NELSON ABRAMS
PHONE: (908) 947-0274 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: BROWNSVILLE 2ND DUST/LEAK
PROJECT NO.: LOCATION: BROOKLYN, NY (SITE NO.)
PROJECT MANAGER: NELSON ABRAMS
e-mail: NELSON.ABRAMS@M-E.AECOM.COM
PHONE: (908) 947-0274 FAX:

CLIENT BILLING INFORMATION

BILL TO: METCALF & EDDY, INC. PO#:
ADDRESS: 1160 ROUTE 22 EAST SUITE 101
CITY: BRIDGEWATER STATE: NJ ZIP: 08807
ATTENTION: NELSON ABRAMS PHONE: (908) 947-0274

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: STANDARD DAYS *
EDD: _____ DAYS *
TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ EDD FORMAT
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other _____

ANALYSIS

1: VOCs 8260 | 2: SVOCs 8270 | 3: TPH | 4–9:

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1	S-1	SOIL		X	11/28/05	955	2	X	X	X							
2	S-1D			X		955	2	X	X	X							
3	S-2			X		1000	2	X	X	X							
4	S-3			X		1005	2	X	X	X							
5	S-4			X		1010	2	X	X	X							
6	S-5			X		940	2	X	X	X							
7	S-6			X		945	2	X	X	X							
8	FIELD BLANK	WATER				1025	4	X	X	X							
9	TRIP BLANK	↓			↓	–	1	14									
10.																	

Specify Preservatives: A–HCl B–HNO_3 C–H_2SO_4 D–NaOH E–ICE F–Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
M. Sroka	11/28/05 1607	1. A. Carter
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
		2.
RELINQUISHED BY: A. Carter	DATE/TIME: 11.28.05 1650	RECEIVED FOR LAB BY: 3. T. Thomson

Conditions of bottles or coolers at receipt: ☑ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 5°C
Ice in Cooler?: YES

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT CHEMTECH: ☑ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☑ YES ☐ NO

Revision 4/2005

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

3.0 DATA QUALIFIERS

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	If the analyte was analyzed for, but not detected.
E	The reported value is estimated because of the presence of interference
M	Duplicate injection precision not met.
N	Spiked sample recovery not within control limits.
S	The reported value was determined by the Method of Standard Addition (MSA).
W	Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while absorbance is less that 50% of spike absorbance.
*	Duplicate analysis not within control limits.
+	Correlation coefficient for the MSA is less than 0.995.
***	Entering "S", "W " or " +" is mutually exclusive. NO combination of these qualifiers can appear in the same field for an analyte.
D	The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers "P" for ICP instrument "A" for Flame AA "PM" for ICP when Microwave Digestion is used "AM" for flame AA when Microwave Digestion is used "FM" for furnace AA when Microwave Digestion is used "CV" for Manual Cold Vapor AA "AV" for automated Cold Vapor AA "CA" for MIDI-Distillation Spectrophotometric "AS" for Semi -Automated Spectrophotometric "C" for Manual Spectrophotometric "T" for Titrimetric "NR" for analyte not required to be analyzed

4.0 VOLATILE SAMPLE RESULTS

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**S-1**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-01**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**6**
Sample Wt/Vol:	**5.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK000859.D	1	12/3/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
74-87-3	Chloromethane	0.91	U	5.3	0.91	ug/Kg
75-01-4	Vinyl chloride	0.87	U	5.3	0.87	ug/Kg
74-83-9	Bromomethane	2.2	U	5.3	2.2	ug/Kg
75-00-3	Chloroethane	2.3	U	5.3	2.3	ug/Kg
75-35-4	1,1-Dichloroethene	0.61	U	5.3	0.61	ug/Kg
67-64-1	Acetone	3.6	U	27	3.6	ug/Kg
75-15-0	Carbon disulfide	0.39	U	5.3	0.39	ug/Kg
75-09-2	Methylene Chloride	1.9	U	5.3	1.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.68	U	5.3	0.68	ug/Kg
75-34-3	1,1-Dichloroethane	0.29	U	5.3	0.29	ug/Kg
78-93-3	2-Butanone	3.0	U	27	3.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.47	U	5.3	0.47	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.35	U	5.3	0.35	ug/Kg
67-66-3	Chloroform	0.37	U	5.3	0.37	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.44	U	5.3	0.44	ug/Kg
71-43-2	Benzene	0.42	U	5.3	0.42	ug/Kg
107-06-2	1,2-Dichloroethane	0.33	U	5.3	0.33	ug/Kg
79-01-6	Trichloroethene	0.33	U	5.3	0.33	ug/Kg
78-87-5	1,2-Dichloropropane	0.42	U	5.3	0.42	ug/Kg
75-27-4	Bromodichloromethane	0.36	U	5.3	0.36	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.1	U	27	2.1	ug/Kg
108-88-3	Toluene	0.43	U	5.3	0.43	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.39	U	5.3	0.39	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.35	U	5.3	0.35	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.31	U	5.3	0.31	ug/Kg
591-78-6	2-Hexanone	3.8	U	27	3.8	ug/Kg
124-48-1	Dibromochloromethane	0.24	U	5.3	0.24	ug/Kg
127-18-4	Tetrachloroethene	0.78	U	5.3	0.78	ug/Kg
108-90-7	Chlorobenzene	0.38	U	5.3	0.38	ug/Kg
100-41-4	Ethyl Benzene	0.38	U	5.3	0.38	ug/Kg
126777-61-2	m/p-Xylenes	0.92	U	5.3	0.92	ug/Kg
95-47-6	o-Xylene	0.41	U	5.3	0.41	ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**S-1**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-01**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**6**
Sample Wt/Vol:	**5.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK000859.D	1	12/3/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
100-42-5	Styrene	0.49	U	5.3	0.49	ug/Kg
75-25-2	Bromoform	0.33	U	5.3	0.33	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.33	U	5.3	0.33	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.48	91 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	49.37	99 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	50.55	101 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	44.42	89 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	93391	4.11			
540-36-3	1,4-Difluorobenzene	205713	4.55			
3114-55-4	Chlorobenzene-d5	188329	7.43			
3855-82-1	1,4-Dichlorobenzene-d4	77158	9.49			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**S-1D**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-02**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**6**
Sample Wt/Vol:	**5.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK000860.D	1	12/3/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
74-87-3	Chloromethane	0.91	U	5.3	0.91	ug/Kg
75-01-4	Vinyl chloride	0.88	U	5.3	0.88	ug/Kg
74-83-9	Bromomethane	2.2	U	5.3	2.2	ug/Kg
75-00-3	Chloroethane	2.3	U	5.3	2.3	ug/Kg
75-35-4	1,1-Dichloroethene	0.61	U	5.3	0.61	ug/Kg
67-64-1	Acetone	3.6	U	27	3.6	ug/Kg
75-15-0	Carbon disulfide	0.39	U	5.3	0.39	ug/Kg
75-09-2	Methylene Chloride	1.9	U	5.3	1.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.68	U	5.3	0.68	ug/Kg
75-34-3	1,1-Dichloroethane	0.29	U	5.3	0.29	ug/Kg
78-93-3	2-Butanone	3.0	U	27	3.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.47	U	5.3	0.47	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.35	U	5.3	0.35	ug/Kg
67-66-3	Chloroform	0.37	U	5.3	0.37	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.45	U	5.3	0.45	ug/Kg
71-43-2	Benzene	0.43	U	5.3	0.43	ug/Kg
107-06-2	1,2-Dichloroethane	0.33	U	5.3	0.33	ug/Kg
79-01-6	Trichloroethene	0.33	U	5.3	0.33	ug/Kg
78-87-5	1,2-Dichloropropane	0.42	U	5.3	0.42	ug/Kg
75-27-4	Bromodichloromethane	0.36	U	5.3	0.36	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.1	U	27	2.1	ug/Kg
108-88-3	Toluene	0.43	U	5.3	0.43	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.39	U	5.3	0.39	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.35	U	5.3	0.35	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.31	U	5.3	0.31	ug/Kg
591-78-6	2-Hexanone	3.9	U	27	3.9	ug/Kg
124-48-1	Dibromochloromethane	0.25	U	5.3	0.25	ug/Kg
127-18-4	Tetrachloroethene	0.78	U	5.3	0.78	ug/Kg
108-90-7	Chlorobenzene	0.39	U	5.3	0.39	ug/Kg
100-41-4	Ethyl Benzene	0.38	U	5.3	0.38	ug/Kg
126777-61-2	m/p-Xylenes	0.92	U	5.3	0.92	ug/Kg
95-47-6	o-Xylene	0.41	U	5.3	0.41	ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**S-1D**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-02**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**6**
Sample Wt/Vol:	**5.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK000860.D	1	12/3/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
100-42-5	Styrene	0.49	U	5.3	0.49	ug/Kg
75-25-2	Bromoform	0.33	U	5.3	0.33	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.33	U	5.3	0.33	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.17	88 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	49.03	98 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.45	99 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	44.34	89 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	96834	4.10			
540-36-3	1,4-Difluorobenzene	207597	4.55			
3114-55-4	Chlorobenzene-d5	192308	7.43			
3855-82-1	1,4-Dichlorobenzene-d4	79034	9.49			

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Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**S-2**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-03**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**12**
Sample Wt/Vol:	**5.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK000861.D	1	12/3/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
74-87-3	Chloromethane	0.97	U	5.7	0.97	ug/Kg
75-01-4	Vinyl chloride	0.94	U	5.7	0.94	ug/Kg
74-83-9	Bromomethane	2.3	U	5.7	2.3	ug/Kg
75-00-3	Chloroethane	2.4	U	5.7	2.4	ug/Kg
75-35-4	1,1-Dichloroethene	0.65	U	5.7	0.65	ug/Kg
67-64-1	Acetone	3.8	U	29	3.8	ug/Kg
75-15-0	Carbon disulfide	0.42	U	5.7	0.42	ug/Kg
75-09-2	Methylene Chloride	3.8	JB	5.7	2.1	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.73	U	5.7	0.73	ug/Kg
75-34-3	1,1-Dichloroethane	0.31	U	5.7	0.31	ug/Kg
78-93-3	2-Butanone	3.2	U	29	3.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.51	U	5.7	0.51	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.37	U	5.7	0.37	ug/Kg
67-66-3	Chloroform	0.40	U	5.7	0.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.48	U	5.7	0.48	ug/Kg
71-43-2	Benzene	0.46	U	5.7	0.46	ug/Kg
107-06-2	1,2-Dichloroethane	0.35	U	5.7	0.35	ug/Kg
79-01-6	Trichloroethene	0.35	U	5.7	0.35	ug/Kg
78-87-5	1,2-Dichloropropane	0.45	U	5.7	0.45	ug/Kg
75-27-4	Bromodichloromethane	0.38	U	5.7	0.38	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.3	U	29	2.3	ug/Kg
108-88-3	Toluene	0.46	U	5.7	0.46	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.41	U	5.7	0.41	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.38	U	5.7	0.38	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.34	U	5.7	0.34	ug/Kg
591-78-6	2-Hexanone	4.1	U	29	4.1	ug/Kg
124-48-1	Dibromochloromethane	0.26	U	5.7	0.26	ug/Kg
127-18-4	Tetrachloroethene	0.83	U	5.7	0.83	ug/Kg
108-90-7	Chlorobenzene	0.41	U	5.7	0.41	ug/Kg
100-41-4	Ethyl Benzene	0.40	U	5.7	0.40	ug/Kg
126777-61-2	m/p-Xylenes	0.99	U	5.7	0.99	ug/Kg
95-47-6	o-Xylene	0.44	U	5.7	0.44	ug/Kg

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**S-2**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-03**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**12**
Sample Wt/Wol:	**5.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK000861.D	1	12/3/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
100-42-5	Styrene	0.52	U	5.7	0.52	ug/Kg
75-25-2	Bromoform	0.35	U	5.7	0.35	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.35	U	5.7	0.35	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	40.2	80 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.2	96 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.4	99 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	42.38	85 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	104055	4.11			
540-36-3	1,4-Difluorobenzene	207424	4.54			
3114-55-4	Chlorobenzene-d5	177604	7.43			
3855-82-1	1,4-Dichlorobenzene-d4	71991	9.49			

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Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**S-3**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-04**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**11**
Sample Wt/Vol:	**5.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK000862.D	1	12/3/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
74-87-3	Chloromethane	0.96	U	5.6	0.96	ug/Kg
75-01-4	Vinyl chloride	0.93	U	5.6	0.93	ug/Kg
74-83-9	Bromomethane	2.3	U	5.6	2.3	ug/Kg
75-00-3	Chloroethane	2.4	U	5.6	2.4	ug/Kg
75-35-4	1,1-Dichloroethene	0.65	U	5.6	0.65	ug/Kg
67-64-1	Acetone	3.8	U	28	3.8	ug/Kg
75-15-0	Carbon disulfide	0.42	U	5.6	0.42	ug/Kg
75-09-2	Methylene Chloride	2.1	U	5.6	2.1	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.72	U	5.6	0.72	ug/Kg
75-34-3	1,1-Dichloroethane	0.30	U	5.6	0.30	ug/Kg
78-93-3	2-Butanone	3.2	U	28	3.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.50	U	5.6	0.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.37	U	5.6	0.37	ug/Kg
67-66-3	Chloroform	0.39	U	5.6	0.39	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.47	U	5.6	0.47	ug/Kg
71-43-2	Benzene	0.45	U	5.6	0.45	ug/Kg
107-06-2	1,2-Dichloroethane	0.35	U	5.6	0.35	ug/Kg
79-01-6	Trichloroethene	0.35	U	5.6	0.35	ug/Kg
78-87-5	1,2-Dichloropropane	0.45	U	5.6	0.45	ug/Kg
75-27-4	Bromodichloromethane	0.38	U	5.6	0.38	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.2	U	28	2.2	ug/Kg
108-88-3	Toluene	0.46	U	5.6	0.46	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.41	U	5.6	0.41	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.37	U	5.6	0.37	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.33	U	5.6	0.33	ug/Kg
591-78-6	2-Hexanone	4.1	U	28	4.1	ug/Kg
124-48-1	Dibromochloromethane	0.26	U	5.6	0.26	ug/Kg
127-18-4	Tetrachloroethene	0.82	U	5.6	0.82	ug/Kg
108-90-7	Chlorobenzene	0.41	U	5.6	0.41	ug/Kg
100-41-4	Ethyl Benzene	0.40	U	5.6	0.40	ug/Kg
126777-61-2	m/p-Xylenes	0.98	U	5.6	0.98	ug/Kg
95-47-6	o-Xylene	0.43	U	5.6	0.43	ug/Kg

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Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**S-3**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-04**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**11**
Sample Wt/Vol:	**5.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK000862.D	1	12/3/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
100-42-5	Styrene	0.52	U	5.6	0.52	ug/Kg
75-25-2	Bromoform	0.35	U	5.6	0.35	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.35	U	5.6	0.35	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.15	86 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.5	97 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	48.2	96 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	41.29	83 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	92243	4.11			
540-36-3	1,4-Difluorobenzene	192737	4.54			
3114-55-4	Chlorobenzene-d5	165201	7.43			
3855-82-1	1,4-Dichlorobenzene-d4	65237	9.49			

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Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**S-4**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-05**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**12**
Sample Wt/Vol:	**4.6 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK001303.D	5	12/13/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
74-87-3	Chloromethane	5.3	U	31	5.3	ug/Kg
75-01-4	Vinyl chloride	5.1	U	31	5.1	ug/Kg
74-83-9	Bromomethane	13	U	31	13	ug/Kg
75-00-3	Chloroethane	13	U	31	13	ug/Kg
75-35-4	1,1-Dichloroethene	3.6	U	31	3.6	ug/Kg
67-64-1	Acetone	390		160	21	ug/Kg
75-15-0	Carbon disulfide	2.3	U	31	2.3	ug/Kg
75-09-2	Methylene Chloride	11	U	31	11	ug/Kg
156-60-5	trans-1,2-Dichloroethene	4.0	U	31	4.0	ug/Kg
75-34-3	1,1-Dichloroethane	1.7	U	31	1.7	ug/Kg
78-93-3	2-Butanone	18	U	160	18	ug/Kg
56-23-5	Carbon Tetrachloride	2.7	U	31	2.7	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.0	U	31	2.0	ug/Kg
67-66-3	Chloroform	2.2	U	31	2.2	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.6	U	31	2.6	ug/Kg
71-43-2	Benzene	2.5	U	31	2.5	ug/Kg
107-06-2	1,2-Dichloroethane	1.9	U	31	1.9	ug/Kg
79-01-6	Trichloroethene	1.9	U	31	1.9	ug/Kg
78-87-5	1,2-Dichloropropane	2.5	U	31	2.5	ug/Kg
75-27-4	Bromodichloromethane	2.1	U	31	2.1	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12	U	160	12	ug/Kg
108-88-3	Toluene	2.5	U	31	2.5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.3	U	31	2.3	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.1	U	31	2.1	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.8	U	31	1.8	ug/Kg
591-78-6	2-Hexanone	22	U	160	22	ug/Kg
124-48-1	Dibromochloromethane	1.4	U	31	1.4	ug/Kg
127-18-4	Tetrachloroethene	4.5	U	31	4.5	ug/Kg
108-90-7	Chlorobenzene	2.2	U	31	2.2	ug/Kg
100-41-4	Ethyl Benzene	2.2	U	31	2.2	ug/Kg
126777-61-2	m/p-Xylenes	5.4	U	31	5.4	ug/Kg
95-47-6	o-Xylene	2.4	U	31	2.4	ug/Kg

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Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**S-4**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-05**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**12**
Sample Wt/Wol:	**4.6 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK001303.D	5	12/13/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
100-42-5	Styrene	2.9	U	31	2.9	ug/Kg
75-25-2	Bromoform	1.9	U	31	1.9	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.9	U	31	1.9	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	39.78	80 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.01	96 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	48.46	97 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	46.46	93 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	77845	4.10			
540-36-3	1,4-Difluorobenzene	163922	4.53			
3114-55-4	Chlorobenzene-d5	143949	7.42			
3855-82-1	1,4-Dichlorobenzene-d4	61870	9.48			
TENTITIVE IDENTIFIED COMPOUNDS						
	Unknown11.09	63	J	11.10		ug/Kg

U = Not Detected
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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**S-5**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-06**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**6**
Sample Wt/Vol:	**1.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK001099.D	1	12/8/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
74-87-3	Chloromethane	4.5	U	27	4.5	ug/Kg
75-01-4	Vinyl chloride	4.4	U	27	4.4	ug/Kg
74-83-9	Bromomethane	11	U	27	11	ug/Kg
75-00-3	Chloroethane	11	U	27	11	ug/Kg
75-35-4	1,1-Dichloroethene	3.0	U	27	3.0	ug/Kg
67-64-1	Acetone	18	U	130	18	ug/Kg
75-15-0	Carbon disulfide	2.0	U	27	2.0	ug/Kg
75-09-2	Methylene Chloride	9.7	U	27	9.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	3.4	U	27	3.4	ug/Kg
75-34-3	1,1-Dichloroethane	1.4	U	27	1.4	ug/Kg
78-93-3	2-Butanone	15	U	130	15	ug/Kg
56-23-5	Carbon Tetrachloride	2.4	U	27	2.4	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.7	U	27	1.7	ug/Kg
67-66-3	Chloroform	1.9	U	27	1.9	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.2	U	27	2.2	ug/Kg
71-43-2	Benzene	2.1	U	27	2.1	ug/Kg
107-06-2	1,2-Dichloroethane	1.6	U	27	1.6	ug/Kg
79-01-6	Trichloroethene	1.6	U	27	1.6	ug/Kg
78-87-5	1,2-Dichloropropane	2.1	U	27	2.1	ug/Kg
75-27-4	Bromodichloromethane	1.8	U	27	1.8	ug/Kg
108-10-1	4-Methyl-2-Pentanone	10	U	130	10	ug/Kg
108-88-3	Toluene	2.2	U	27	2.2	ug/Kg
10061-02-6	t-1,3-Dichloropropene	1.9	U	27	1.9	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.8	U	27	1.8	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.6	U	27	1.6	ug/Kg
591-78-6	2-Hexanone	19	U	130	19	ug/Kg
124-48-1	Dibromochloromethane	1.2	U	27	1.2	ug/Kg
127-18-4	Tetrachloroethene	3.9	U	27	3.9	ug/Kg
108-90-7	Chlorobenzene	1.9	U	27	1.9	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.6	U	27	4.6	ug/Kg
95-47-6	o-Xylene	2.0	U	27	2.0	ug/Kg

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**S-5**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-06**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**6**
Sample Wt/Wol:	**1.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK001099.D	1	12/8/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
100-42-5	Styrene	2.4	U	27	2.4	ug/Kg
75-25-2	Bromoform	1.6	U	27	1.6	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.7	U	27	1.7	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	38.83	78 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	44.26	89 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	50.16	100 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	43.63	87 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	102246	4.09			
540-36-3	1,4-Difluorobenzene	212942	4.52			
3114-55-4	Chlorobenzene-d5	190022	7.40			
3855-82-1	1,4-Dichlorobenzene-d4	81136	9.47			

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Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**S-6**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-07**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**6**
Sample Wt/Wol:	**1.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK001100.D	1	12/8/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
74-87-3	Chloromethane	4.5	U	27	4.5	ug/Kg
75-01-4	Vinyl chloride	4.4	U	27	4.4	ug/Kg
74-83-9	Bromomethane	11	U	27	11	ug/Kg
75-00-3	Chloroethane	11	U	27	11	ug/Kg
75-35-4	1,1-Dichloroethene	3.0	U	27	3.0	ug/Kg
67-64-1	Acetone	18	U	130	18	ug/Kg
75-15-0	Carbon disulfide	2.0	U	27	2.0	ug/Kg
75-09-2	Methylene Chloride	9.7	U	27	9.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	3.4	U	27	3.4	ug/Kg
75-34-3	1,1-Dichloroethane	1.4	U	27	1.4	ug/Kg
78-93-3	2-Butanone	15	U	130	15	ug/Kg
56-23-5	Carbon Tetrachloride	2.4	U	27	2.4	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.7	U	27	1.7	ug/Kg
67-66-3	Chloroform	1.9	U	27	1.9	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.2	U	27	2.2	ug/Kg
71-43-2	Benzene	2.1	U	27	2.1	ug/Kg
107-06-2	1,2-Dichloroethane	1.6	U	27	1.6	ug/Kg
79-01-6	Trichloroethene	1.6	U	27	1.6	ug/Kg
78-87-5	1,2-Dichloropropane	2.1	U	27	2.1	ug/Kg
75-27-4	Bromodichloromethane	1.8	U	27	1.8	ug/Kg
108-10-1	4-Methyl-2-Pentanone	10	U	130	10	ug/Kg
108-88-3	Toluene	2.2	U	27	2.2	ug/Kg
10061-02-6	t-1,3-Dichloropropene	1.9	U	27	1.9	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.8	U	27	1.8	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.6	U	27	1.6	ug/Kg
591-78-6	2-Hexanone	19	U	130	19	ug/Kg
124-48-1	Dibromochloromethane	1.2	U	27	1.2	ug/Kg
127-18-4	Tetrachloroethene	3.9	U	27	3.9	ug/Kg
108-90-7	Chlorobenzene	1.9	U	27	1.9	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.6	U	27	4.6	ug/Kg
95-47-6	o-Xylene	2.0	U	27	2.0	ug/Kg

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Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**S-6**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-07**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**6**
Sample Wt/Wol:	**1.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK001100.D	1	12/8/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
100-42-5	Styrene	2.4	U	27	2.4	ug/Kg
75-25-2	Bromoform	1.6	U	27	1.6	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.7	U	27	1.7	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.47	107 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	44.3	89 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	59.97	120 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	51.06	102 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	1436	4.09			
540-36-3	1,4-Difluorobenzene	2949	4.51			
3114-55-4	Chlorobenzene-d5	2559	7.40			
3855-82-1	1,4-Dichlorobenzene-d4	860	9.48			

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**S-6RE**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-07RE**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**6**
Sample Wt/Vol:	**4.6 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK001304.D	5	12/13/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
74-87-3	Chloromethane	5.0	U	29	5.0	ug/Kg
75-01-4	Vinyl chloride	4.8	U	29	4.8	ug/Kg
74-83-9	Bromomethane	12	U	29	12	ug/Kg
75-00-3	Chloroethane	12	U	29	12	ug/Kg
75-35-4	1,1-Dichloroethene	3.3	U	29	3.3	ug/Kg
67-64-1	Acetone	20	U	150	20	ug/Kg
75-15-0	Carbon disulfide	2.1	U	29	2.1	ug/Kg
75-09-2	Methylene Chloride	11	U	29	11	ug/Kg
156-60-5	trans-1,2-Dichloroethene	3.7	U	29	3.7	ug/Kg
75-34-3	1,1-Dichloroethane	1.6	U	29	1.6	ug/Kg
78-93-3	2-Butanone	16	U	150	16	ug/Kg
56-23-5	Carbon Tetrachloride	2.6	U	29	2.6	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.9	U	29	1.9	ug/Kg
67-66-3	Chloroform	2.0	U	29	2.0	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.4	U	29	2.4	ug/Kg
71-43-2	Benzene	2.3	U	29	2.3	ug/Kg
107-06-2	1,2-Dichloroethane	1.8	U	29	1.8	ug/Kg
79-01-6	Trichloroethene	1.8	U	29	1.8	ug/Kg
78-87-5	1,2-Dichloropropane	2.3	U	29	2.3	ug/Kg
75-27-4	Bromodichloromethane	1.9	U	29	1.9	ug/Kg
108-10-1	4-Methyl-2-Pentanone	11	U	150	11	ug/Kg
108-88-3	Toluene	2.4	U	29	2.4	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.1	U	29	2.1	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.9	U	29	1.9	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.7	U	29	1.7	ug/Kg
591-78-6	2-Hexanone	21	U	150	21	ug/Kg
124-48-1	Dibromochloromethane	1.3	U	29	1.3	ug/Kg
127-18-4	Tetrachloroethene	4.2	U	29	4.2	ug/Kg
108-90-7	Chlorobenzene	2.1	U	29	2.1	ug/Kg
100-41-4	Ethyl Benzene	2.1	U	29	2.1	ug/Kg
126777-61-2	m/p-Xylenes	5.0	U	29	5.0	ug/Kg
95-47-6	o-Xylene	2.2	U	29	2.2	ug/Kg

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**S-6RE**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-07RE**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**6**
Sample Wt/Vol:	**4.6 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK001304.D	5	12/13/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
100-42-5	Styrene	2.7	U	29	2.7	ug/Kg
75-25-2	Bromoform	1.8	U	29	1.8	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.8	U	29	1.8	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	37.14	74 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	44.21	88 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	43.75	88 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	41.63	83 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	76075	4.10			
540-36-3	1,4-Difluorobenzene	163200	4.53			
3114-55-4	Chlorobenzene-d5	145946	7.42			
3855-82-1	1,4-Dichlorobenzene-d4	60496	9.48			

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Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**FIELDBLANK**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-08**	**Matrix:**	**WATER**
Analytical Method:	**8260**	**% Moisture:**	**100**
Sample Wt/Vol:	**5.0 Units: mL**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VH000964.D	1	12/7/2005	VH120505

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
74-87-3	Chloromethane	0.34	U	5.0	0.34	ug/L
75-01-4	Vinyl chloride	0.33	U	5.0	0.33	ug/L
74-83-9	Bromomethane	0.41	U	5.0	0.41	ug/L
75-00-3	Chloroethane	0.83	U	5.0	0.83	ug/L
75-35-4	1,1-Dichloroethene	0.42	U	5.0	0.42	ug/L
67-64-1	Acetone	2.3	U	25	2.3	ug/L
75-15-0	Carbon disulfide	0.40	U	5.0	0.40	ug/L
75-09-2	Methylene Chloride	0.43	U	5.0	0.43	ug/L
156-60-5	trans-1,2-Dichloroethene	0.40	U	5.0	0.40	ug/L
75-34-3	1,1-Dichloroethane	0.38	U	5.0	0.38	ug/L
78-93-3	2-Butanone	1.1	U	25	1.1	ug/L
56-23-5	Carbon Tetrachloride	1.1	U	5.0	1.1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.29	U	5.0	0.29	ug/L
67-66-3	Chloroform	0.33	U	5.0	0.33	ug/L
71-55-6	1,1,1-Trichloroethane	0.32	U	5.0	0.32	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
107-06-2	1,2-Dichloroethane	0.34	U	5.0	0.34	ug/L
79-01-6	Trichloroethene	0.46	U	5.0	0.46	ug/L
78-87-5	1,2-Dichloropropane	0.40	U	5.0	0.40	ug/L
75-27-4	Bromodichloromethane	0.33	U	5.0	0.33	ug/L
108-10-1	4-Methyl-2-Pentanone	1.6	U	25	1.6	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
10061-02-6	t-1,3-Dichloropropene	0.32	U	5.0	0.32	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.36	U	5.0	0.36	ug/L
79-00-5	1,1,2-Trichloroethane	0.41	U	5.0	0.41	ug/L
591-78-6	2-Hexanone	1.7	U	25	1.7	ug/L
124-48-1	Dibromochloromethane	0.26	U	5.0	0.26	ug/L
127-18-4	Tetrachloroethene	0.48	U	5.0	0.48	ug/L
108-90-7	Chlorobenzene	0.47	U	5.0	0.47	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	5.0	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L

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Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**FIELDBLANK**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-08**	**Matrix:**	**WATER**
Analytical Method:	**8260**	**% Moisture:**	**100**
Sample Wt/Vol:	**5.0 Units: mL**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VH000964.D	1	12/7/2005	VH120505

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
100-42-5	Styrene	0.41	U	5.0	0.41	ug/L
75-25-2	Bromoform	0.32	U	5.0	0.32	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.30	U	5.0	0.30	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.19	96 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	50.6	101 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	48.47	97 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	49.6	99 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	322915	4.99			
540-36-3	1,4-Difluorobenzene	446300	5.60			
3114-55-4	Chlorobenzene-d5	391655	9.35			
3855-82-1	1,4-Dichlorobenzene-d4	176065	11.81			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**TRIPBLANK**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-09**	**Matrix:**	**WATER**
Analytical Method:	**8260**	**% Moisture:**	**100**
Sample Wt/Wol:	**5.0 Units: mL**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VH000963.D	1	12/7/2005	VH120505

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
74-87-3	Chloromethane	0.34	U	5.0	0.34	ug/L
75-01-4	Vinyl chloride	0.33	U	5.0	0.33	ug/L
74-83-9	Bromomethane	0.41	U	5.0	0.41	ug/L
75-00-3	Chloroethane	0.83	U	5.0	0.83	ug/L
75-35-4	1,1-Dichloroethene	0.42	U	5.0	0.42	ug/L
67-64-1	Acetone	2.3	U	25	2.3	ug/L
75-15-0	Carbon disulfide	0.40	U	5.0	0.40	ug/L
75-09-2	Methylene Chloride	0.43	U	5.0	0.43	ug/L
156-60-5	trans-1,2-Dichloroethene	0.40	U	5.0	0.40	ug/L
75-34-3	1,1-Dichloroethane	0.38	U	5.0	0.38	ug/L
78-93-3	2-Butanone	1.1	U	25	1.1	ug/L
56-23-5	Carbon Tetrachloride	1.1	U	5.0	1.1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.29	U	5.0	0.29	ug/L
67-66-3	Chloroform	0.33	U	5.0	0.33	ug/L
71-55-6	1,1,1-Trichloroethane	0.32	U	5.0	0.32	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
107-06-2	1,2-Dichloroethane	0.34	U	5.0	0.34	ug/L
79-01-6	Trichloroethene	0.46	U	5.0	0.46	ug/L
78-87-5	1,2-Dichloropropane	0.40	U	5.0	0.40	ug/L
75-27-4	Bromodichloromethane	0.33	U	5.0	0.33	ug/L
108-10-1	4-Methyl-2-Pentanone	1.6	U	25	1.6	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
10061-02-6	t-1,3-Dichloropropene	0.32	U	5.0	0.32	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.36	U	5.0	0.36	ug/L
79-00-5	1,1,2-Trichloroethane	0.41	U	5.0	0.41	ug/L
591-78-6	2-Hexanone	1.7	U	25	1.7	ug/L
124-48-1	Dibromochloromethane	0.26	U	5.0	0.26	ug/L
127-18-4	Tetrachloroethene	0.48	U	5.0	0.48	ug/L
108-90-7	Chlorobenzene	0.47	U	5.0	0.47	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	5.0	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/2005**
Client Sample ID:	**TRIPBLANK**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-09**	**Matrix:**	**WATER**
Analytical Method:	**8260**	**% Moisture:**	**100**
Sample Wt/Vol:	**5.0 Units: mL**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VH000963.D	1	12/7/2005	VH120505

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
100-42-5	Styrene	0.41	U	5.0	0.41	ug/L
75-25-2	Bromoform	0.32	U	5.0	0.32	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.30	U	5.0	0.30	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.99	98 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	51.98	104 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	49.08	98 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	49.11	98 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	325965	5.00			
540-36-3	1,4-Difluorobenzene	448076	5.61			
3114-55-4	Chlorobenzene-d5	393936	9.35			
3855-82-1	1,4-Dichlorobenzene-d4	172382	11.81			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

4.1 VOLATILE BLANK RESULTS

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK04

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: VH000935.D Lab Sample ID: VBH1206W4

Date Analyzed: 12/7/2005 Time Analyzed: 04:13

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOAH

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS02	BSH1206W4	VH000937.D	05:04

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**VBLK04**	**SDG No.:**	**T5908**
Lab Sample ID:	**VBH1206W4**	**Matrix:**	**WATER**
Analytical Method:	**8260**	**% Moisture:**	**100**
Sample Wt/Wol:	**5.0 Units: mL**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VH000935.D	1	12/7/2005	VH120505

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
74-87-3	Chloromethane	0.34	U	5.0	0.34	ug/L
75-01-4	Vinyl chloride	0.33	U	5.0	0.33	ug/L
74-83-9	Bromomethane	0.41	U	5.0	0.41	ug/L
75-00-3	Chloroethane	0.83	U	5.0	0.83	ug/L
75-35-4	1,1-Dichloroethene	0.42	U	5.0	0.42	ug/L
67-64-1	Acetone	2.3	U	25	2.3	ug/L
75-15-0	Carbon disulfide	0.40	U	5.0	0.40	ug/L
75-09-2	Methylene Chloride	0.43	U	5.0	0.43	ug/L
156-60-5	trans-1,2-Dichloroethene	0.40	U	5.0	0.40	ug/L
75-34-3	1,1-Dichloroethane	0.38	U	5.0	0.38	ug/L
78-93-3	2-Butanone	1.1	U	25	1.1	ug/L
56-23-5	Carbon Tetrachloride	1.1	U	5.0	1.1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.29	U	5.0	0.29	ug/L
67-66-3	Chloroform	0.33	U	5.0	0.33	ug/L
71-55-6	1,1,1-Trichloroethane	0.32	U	5.0	0.32	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
107-06-2	1,2-Dichloroethane	0.34	U	5.0	0.34	ug/L
79-01-6	Trichloroethene	0.46	U	5.0	0.46	ug/L
78-87-5	1,2-Dichloropropane	0.40	U	5.0	0.40	ug/L
75-27-4	Bromodichloromethane	0.33	U	5.0	0.33	ug/L
108-10-1	4-Methyl-2-Pentanone	1.6	U	25	1.6	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
10061-02-6	t-1,3-Dichloropropene	0.32	U	5.0	0.32	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.36	U	5.0	0.36	ug/L
79-00-5	1,1,2-Trichloroethane	0.41	U	5.0	0.41	ug/L
591-78-6	2-Hexanone	1.7	U	25	1.7	ug/L
124-48-1	Dibromochloromethane	0.26	U	5.0	0.26	ug/L
127-18-4	Tetrachloroethene	0.48	U	5.0	0.48	ug/L
108-90-7	Chlorobenzene	0.47	U	5.0	0.47	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	5.0	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**VBLK04**	**SDG No.:**	**T5908**
Lab Sample ID:	**VBH1206W4**	**Matrix:**	**WATER**
Analytical Method:	**8260**	**% Moisture:**	**100**
Sample Wt/Vol:	**5.0 Units: mL**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VH000935.D	1	12/7/2005	VH120505

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
100-42-5	Styrene	0.41	U	5.0	0.41	ug/L
75-25-2	Bromoform	0.32	U	5.0	0.32	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.30	U	5.0	0.30	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.6	97 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	51.66	103 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	50	100 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	51.44	103 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	319008	5.00			
540-36-3	1,4-Difluorobenzene	436314	5.62			
3114-55-4	Chlorobenzene-d5	389958	9.35			
3855-82-1	1,4-Dichlorobenzene-d4	174271	11.82			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK05

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: VH000961.D Lab Sample ID: VBH1207W2

Date Analyzed: 12/7/2005 Time Analyzed: 15:41

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOAH

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
TRIPBLANK	T5908-09	VH000963.D	16:32
FIELDBLANK	T5908-08	VH000964.D	16:58

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**VBLK05**	**SDG No.:**	**T5908**
Lab Sample ID:	**VBH1207W2**	**Matrix:**	**WATER**
Analytical Method:	**8260**	**% Moisture:**	**100**
Sample Wt/Wol:	**5.0 Units: mL**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VH000961.D	1	12/7/2005	VH120505

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
74-87-3	Chloromethane	0.34	U	5.0	0.34	ug/L
75-01-4	Vinyl chloride	0.33	U	5.0	0.33	ug/L
74-83-9	Bromomethane	0.41	U	5.0	0.41	ug/L
75-00-3	Chloroethane	0.83	U	5.0	0.83	ug/L
75-35-4	1,1-Dichloroethene	0.42	U	5.0	0.42	ug/L
67-64-1	Acetone	2.3	U	25	2.3	ug/L
75-15-0	Carbon disulfide	0.40	U	5.0	0.40	ug/L
75-09-2	Methylene Chloride	0.43	U	5.0	0.43	ug/L
156-60-5	trans-1,2-Dichloroethene	0.40	U	5.0	0.40	ug/L
75-34-3	1,1-Dichloroethane	0.38	U	5.0	0.38	ug/L
78-93-3	2-Butanone	1.1	U	25	1.1	ug/L
56-23-5	Carbon Tetrachloride	1.1	U	5.0	1.1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.29	U	5.0	0.29	ug/L
67-66-3	Chloroform	0.33	U	5.0	0.33	ug/L
71-55-6	1,1,1-Trichloroethane	0.32	U	5.0	0.32	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
107-06-2	1,2-Dichloroethane	0.34	U	5.0	0.34	ug/L
79-01-6	Trichloroethene	0.46	U	5.0	0.46	ug/L
78-87-5	1,2-Dichloropropane	0.40	U	5.0	0.40	ug/L
75-27-4	Bromodichloromethane	0.33	U	5.0	0.33	ug/L
108-10-1	4-Methyl-2-Pentanone	1.6	U	25	1.6	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
10061-02-6	t-1,3-Dichloropropene	0.32	U	5.0	0.32	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.36	U	5.0	0.36	ug/L
79-00-5	1,1,2-Trichloroethane	0.41	U	5.0	0.41	ug/L
591-78-6	2-Hexanone	1.7	U	25	1.7	ug/L
124-48-1	Dibromochloromethane	0.26	U	5.0	0.26	ug/L
127-18-4	Tetrachloroethene	0.48	U	5.0	0.48	ug/L
108-90-7	Chlorobenzene	0.47	U	5.0	0.47	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	5.0	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**VBLK05**	**SDG No.:**	**T5908**
Lab Sample ID:	**VBH1207W2**	**Matrix:**	**WATER**
Analytical Method:	**8260**	**% Moisture:**	**100**
Sample Wt/Wol:	**5.0 Units: mL**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VH000961.D	1	12/7/2005	VH120505

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
100-42-5	Styrene	0.41	U	5.0	0.41	ug/L
75-25-2	Bromoform	0.32	U	5.0	0.32	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.30	U	5.0	0.30	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.44	99 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	51.82	104 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	48.98	98 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	51.37	103 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	318755	4.98			
540-36-3	1,4-Difluorobenzene	441872	5.60			
3114-55-4	Chlorobenzene-d5	397443	9.35			
3855-82-1	1,4-Dichlorobenzene-d4	183419	11.81			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK01

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: VK000854.D Lab Sample ID: VBK1202S4

Date Analyzed: 12/3/2005 Time Analyzed: 07:01

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS01	BSK1202S2	VK000855.D	07:27
S-1MS	T5908-01MS	VK000856.D	07:55
S-1MSD	T5908-01MSD	VK000857.D	08:22
S-1	T5908-01	VK000859.D	09:17
S-1D	T5908-02	VK000860.D	09:43
S-2	T5908-03	VK000861.D	10:10
S-3	T5908-04	VK000862.D	10:37

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**VBLK01**	**SDG No.:**	**T5908**
Lab Sample ID:	**VBK1202S4**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**0**
Sample Wt/Vol:	**5.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK000854.D	1	12/3/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
74-87-3	Chloromethane	0.85	U	5.0	0.85	ug/Kg
75-01-4	Vinyl chloride	0.82	U	5.0	0.82	ug/Kg
74-83-9	Bromomethane	2.0	U	5.0	2.0	ug/Kg
75-00-3	Chloroethane	2.1	U	5.0	2.1	ug/Kg
75-35-4	1,1-Dichloroethene	0.57	U	5.0	0.57	ug/Kg
67-64-1	Acetone	3.4	U	25	3.4	ug/Kg
75-15-0	Carbon disulfide	0.37	U	5.0	0.37	ug/Kg
75-09-2	Methylene Chloride	35		5.0	1.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.64	U	5.0	0.64	ug/Kg
75-34-3	1,1-Dichloroethane	0.27	U	5.0	0.27	ug/Kg
78-93-3	2-Butanone	2.8	U	25	2.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.44	U	5.0	0.44	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.32	U	5.0	0.32	ug/Kg
67-66-3	Chloroform	0.35	U	5.0	0.35	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.42	U	5.0	0.42	ug/Kg
71-43-2	Benzene	0.40	U	5.0	0.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.31	U	5.0	0.31	ug/Kg
79-01-6	Trichloroethene	0.31	U	5.0	0.31	ug/Kg
78-87-5	1,2-Dichloropropane	0.40	U	5.0	0.40	ug/Kg
75-27-4	Bromodichloromethane	0.34	U	5.0	0.34	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.0	U	25	2.0	ug/Kg
108-88-3	Toluene	0.40	U	5.0	0.40	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.36	U	5.0	0.36	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.33	U	5.0	0.33	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.29	U	5.0	0.29	ug/Kg
591-78-6	2-Hexanone	3.6	U	25	3.6	ug/Kg
124-48-1	Dibromochloromethane	0.23	U	5.0	0.23	ug/Kg
127-18-4	Tetrachloroethene	0.73	U	5.0	0.73	ug/Kg
108-90-7	Chlorobenzene	0.36	U	5.0	0.36	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	0.86	U	5.0	0.86	ug/Kg
95-47-6	o-Xylene	0.38	U	5.0	0.38	ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**VBLK01**	**SDG No.:**	**T5908**
Lab Sample ID:	**VBK1202S4**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**0**
Sample Wt/Vol:	**5.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK000854.D	1	12/3/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
100-42-5	Styrene	0.46	U	5.0	0.46	ug/Kg
75-25-2	Bromoform	0.31	U	5.0	0.31	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.31	U	5.0	0.31	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.24	100 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	49.07	98 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	51.56	103 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	46.72	93 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	89471	4.11			
540-36-3	1,4-Difluorobenzene	195199	4.55			
3114-55-4	Chlorobenzene-d5	189901	7.43			
3855-82-1	1,4-Dichlorobenzene-d4	79095	9.49			

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RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK02

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: VK001092.D Lab Sample ID: VBK1208S2

Date Analyzed: 12/8/2005 Time Analyzed: 13:15

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
S-5	T5908-06	VK001099.D	16:28
S-6	T5908-07	VK001100.D	16:55

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**VBLK02**	**SDG No.:**	**T5908**
Lab Sample ID:	**VBK1208S2**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**0**
Sample Wt/Vol:	**5.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK001092.D	1	12/8/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
74-87-3	Chloromethane	0.85	U	5.0	0.85	ug/Kg
75-01-4	Vinyl chloride	0.82	U	5.0	0.82	ug/Kg
74-83-9	Bromomethane	2.0	U	5.0	2.0	ug/Kg
75-00-3	Chloroethane	2.1	U	5.0	2.1	ug/Kg
75-35-4	1,1-Dichloroethene	0.57	U	5.0	0.57	ug/Kg
67-64-1	Acetone	3.4	U	25	3.4	ug/Kg
75-15-0	Carbon disulfide	0.37	U	5.0	0.37	ug/Kg
75-09-2	Methylene Chloride	1.8	U	5.0	1.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.64	U	5.0	0.64	ug/Kg
75-34-3	1,1-Dichloroethane	0.27	U	5.0	0.27	ug/Kg
78-93-3	2-Butanone	2.8	U	25	2.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.44	U	5.0	0.44	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.32	U	5.0	0.32	ug/Kg
67-66-3	Chloroform	0.35	U	5.0	0.35	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.42	U	5.0	0.42	ug/Kg
71-43-2	Benzene	0.40	U	5.0	0.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.31	U	5.0	0.31	ug/Kg
79-01-6	Trichloroethene	0.31	U	5.0	0.31	ug/Kg
78-87-5	1,2-Dichloropropane	0.40	U	5.0	0.40	ug/Kg
75-27-4	Bromodichloromethane	0.34	U	5.0	0.34	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.0	U	25	2.0	ug/Kg
108-88-3	Toluene	0.40	U	5.0	0.40	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.36	U	5.0	0.36	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.33	U	5.0	0.33	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.29	U	5.0	0.29	ug/Kg
591-78-6	2-Hexanone	3.6	U	25	3.6	ug/Kg
124-48-1	Dibromochloromethane	0.23	U	5.0	0.23	ug/Kg
127-18-4	Tetrachloroethene	0.73	U	5.0	0.73	ug/Kg
108-90-7	Chlorobenzene	0.36	U	5.0	0.36	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	0.86	U	5.0	0.86	ug/Kg
95-47-6	o-Xylene	0.38	U	5.0	0.38	ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**VBLK02**	**SDG No.:**	**T5908**
Lab Sample ID:	**VBK1208S2**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**0**
Sample Wt/Vol:	**5.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK001092.D	1	12/8/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
100-42-5	Styrene	0.46	U	5.0	0.46	ug/Kg
75-25-2	Bromoform	0.31	U	5.0	0.31	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.31	U	5.0	0.31	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.79	94 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	50.47	101 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	56.83	114 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	52.43	105 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	95483	4.09			
540-36-3	1,4-Difluorobenzene	193335	4.52			
3114-55-4	Chlorobenzene-d5	177916	7.40			
3855-82-1	1,4-Dichlorobenzene-d4	75234	9.47			

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N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK03

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: VK001295.D Lab Sample ID: VBK1213S2

Date Analyzed: 12/13/2005 Time Analyzed: 16:28

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
S-4	T5908-05	VK001303.D	20:08
S-6RE	T5908-07RE	VK001304.D	20:35

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**VBLK03**	**SDG No.:**	**T5908**
Lab Sample ID:	**VBK1213S2**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**0**
Sample Wt/Wol:	**5.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK001295.D	1	12/13/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
74-87-3	Chloromethane	0.85	U	5.0	0.85	ug/Kg
75-01-4	Vinyl chloride	0.82	U	5.0	0.82	ug/Kg
74-83-9	Bromomethane	2.0	U	5.0	2.0	ug/Kg
75-00-3	Chloroethane	2.1	U	5.0	2.1	ug/Kg
75-35-4	1,1-Dichloroethene	0.57	U	5.0	0.57	ug/Kg
67-64-1	Acetone	3.4	U	25	3.4	ug/Kg
75-15-0	Carbon disulfide	0.37	U	5.0	0.37	ug/Kg
75-09-2	Methylene Chloride	1.8	U	5.0	1.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.64	U	5.0	0.64	ug/Kg
75-34-3	1,1-Dichloroethane	0.27	U	5.0	0.27	ug/Kg
78-93-3	2-Butanone	2.8	U	25	2.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.44	U	5.0	0.44	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.32	U	5.0	0.32	ug/Kg
67-66-3	Chloroform	0.35	U	5.0	0.35	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.42	U	5.0	0.42	ug/Kg
71-43-2	Benzene	0.40	U	5.0	0.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.31	U	5.0	0.31	ug/Kg
79-01-6	Trichloroethene	0.31	U	5.0	0.31	ug/Kg
78-87-5	1,2-Dichloropropane	0.40	U	5.0	0.40	ug/Kg
75-27-4	Bromodichloromethane	0.34	U	5.0	0.34	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.0	U	25	2.0	ug/Kg
108-88-3	Toluene	0.40	U	5.0	0.40	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.36	U	5.0	0.36	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.33	U	5.0	0.33	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.29	U	5.0	0.29	ug/Kg
591-78-6	2-Hexanone	3.6	U	25	3.6	ug/Kg
124-48-1	Dibromochloromethane	0.23	U	5.0	0.23	ug/Kg
127-18-4	Tetrachloroethene	0.73	U	5.0	0.73	ug/Kg
108-90-7	Chlorobenzene	0.36	U	5.0	0.36	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	0.86	U	5.0	0.86	ug/Kg
95-47-6	o-Xylene	0.38	U	5.0	0.38	ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**VBLK03**	**SDG No.:**	**T5908**
Lab Sample ID:	**VBK1213S2**	**Matrix:**	**SOIL**
Analytical Method:	**8260**	**% Moisture:**	**0**
Sample Wt/Wol:	**5.0 Units: g**	**Soil Extract Vol:**	**uL**
Soil Aliquot Vol:	**uL**		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK001295.D	1	12/13/2005	VK112305

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
100-42-5	Styrene	0.46	U	5.0	0.46	ug/Kg
75-25-2	Bromoform	0.31	U	5.0	0.31	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.31	U	5.0	0.31	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.83	92 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	49.66	99 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.32	99 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	47.79	96 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	82596	4.10			
540-36-3	1,4-Difluorobenzene	180979	4.53			
3114-55-4	Chlorobenzene-d5	163647	7.42			
3855-82-1	1,4-Dichlorobenzene-d4	68672	9.48			

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RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

4.2 VOLATILE QA/QC SUMMARY

Surrogate Summary
SW-846

SDG No.: T5908
Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
BSH1206W4	VLCS02	1,2-Dichloroethane-d4	50	49.96	100		72.00	119.00
		Dibromofluoromethane	50	50.47	101		85.00	115.00
		Toluene-d8	50	49.23	98		81.00	120.00
		4-Bromofluorobenzene	50	49.13	98		76.00	119.00
BSK1202S2	VLCS01	1,2-Dichloroethane-d4	50	56.69	113		75.00	125.00
		Dibromofluoromethane	50	51.58	103		75.00	125.00
		Toluene-d8	50	51.54	103		75.00	125.00
		4-Bromofluorobenzene	50	48.53	97		75.00	125.00
T5908-01	S-1	1,2-Dichloroethane-d4	50	45.48	91		75.00	125.00
		Dibromofluoromethane	50	49.37	99		75.00	125.00
		Toluene-d8	50	50.55	101		75.00	125.00
		4-Bromofluorobenzene	50	44.42	89		75.00	125.00
T5908-01MS	S-1MS	1,2-Dichloroethane-d4	50	41.9	84		75.00	125.00
		Dibromofluoromethane	50	47.13	94		75.00	125.00
		Toluene-d8	50	48.86	98		75.00	125.00
		4-Bromofluorobenzene	50	43.48	87		75.00	125.00
5908-01MSD	S-1MSD	1,2-Dichloroethane-d4	50	45.1	90		75.00	125.00
		Dibromofluoromethane	50	45.79	92		75.00	125.00
		Toluene-d8	50	50.43	101		75.00	125.00
		4-Bromofluorobenzene	50	44.77	90		75.00	125.00
T5908-02	S-1D	1,2-Dichloroethane-d4	50	44.17	88		75.00	125.00
		Dibromofluoromethane	50	49.03	98		75.00	125.00
		Toluene-d8	50	49.45	99		75.00	125.00
		4-Bromofluorobenzene	50	44.34	89		75.00	125.00
T5908-03	S-2	1,2-Dichloroethane-d4	50	40.2	80		75.00	125.00
		Dibromofluoromethane	50	48.2	96		75.00	125.00
		Toluene-d8	50	49.4	99		75.00	125.00
		4-Bromofluorobenzene	50	42.38	85		75.00	125.00
T5908-04	S-3	1,2-Dichloroethane-d4	50	43.15	86		75.00	125.00
		Dibromofluoromethane	50	48.5	97		75.00	125.00
		Toluene-d8	50	48.2	96		75.00	125.00
		4-Bromofluorobenzene	50	41.29	83		75.00	125.00
T5908-05	S-4	1,2-Dichloroethane-d4	50	39.78	80		75.00	125.00
		Dibromofluoromethane	50	48.01	96		75.00	125.00
		Toluene-d8	50	48.46	97		75.00	125.00
		4-Bromofluorobenzene	50	46.46	93		75.00	125.00
T5908-06	S-5	1,2-Dichloroethane-d4	50	38.83	78		75.00	125.00
		Dibromofluoromethane	50	44.26	89		75.00	125.00
		Toluene-d8	50	50.16	100		75.00	125.00
		4-Bromofluorobenzene	50	43.63	87		75.00	125.00
T5908-07	S-6	1,2-Dichloroethane-d4	50	53.47	107		75.00	125.00

Surrogate Summary
SW-846

SDG No.: T5908
Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
T5908-07	S-6	Dibromofluoromethane	50	44.3	89		75.00	125.00
		Toluene-d8	50	59.97	120		75.00	125.00
		4-Bromofluorobenzene	50	51.06	102		75.00	125.00
T5908-07RE	S-6RE	1,2-Dichloroethane-d4	50	37.14	74	*	75.00	125.00
		Dibromofluoromethane	50	44.21	88		75.00	125.00
		Toluene-d8	50	43.75	88		75.00	125.00
		4-Bromofluorobenzene	50	41.63	83		75.00	125.00
T5908-08	FIELDBLANK	1,2-Dichloroethane-d4	50	48.19	96		72.00	119.00
		Dibromofluoromethane	50	50.6	101		85.00	115.00
		Toluene-d8	50	48.47	97		81.00	120.00
		4-Bromofluorobenzene	50	49.6	99		76.00	119.00
T5908-09	TRIPBLANK	1,2-Dichloroethane-d4	50	48.99	98		72.00	119.00
		Dibromofluoromethane	50	51.98	104		85.00	115.00
		Toluene-d8	50	49.08	98		81.00	120.00
		4-Bromofluorobenzene	50	49.11	98		76.00	119.00
''BH1206W4	VBLK04	1,2-Dichloroethane-d4	50	48.6	97		72.00	119.00
		Dibromofluoromethane	50	51.66	103		85.00	115.00
		Toluene-d8	50	50	100		81.00	120.00
		4-Bromofluorobenzene	50	51.44	103		76.00	119.00
VBH1207W2	VBLK05	1,2-Dichloroethane-d4	50	49.44	99		72.00	119.00
		Dibromofluoromethane	50	51.82	104		85.00	115.00
		Toluene-d8	50	48.98	98		81.00	120.00
		4-Bromofluorobenzene	50	51.37	103		76.00	119.00
VBK1202S4	VBLK01	1,2-Dichloroethane-d4	50	50.24	100		75.00	125.00
		Dibromofluoromethane	50	49.07	98		75.00	125.00
		Toluene-d8	50	51.56	103		75.00	125.00
		4-Bromofluorobenzene	50	46.72	93		75.00	125.00
VBK1208S2	VBLK02	1,2-Dichloroethane-d4	50	46.79	94		75.00	125.00
		Dibromofluoromethane	50	50.47	101		75.00	125.00
		Toluene-d8	50	56.83	114		75.00	125.00
		4-Bromofluorobenzene	50	52.43	105		75.00	125.00
VBK1213S2	VBLK03	1,2-Dichloroethane-d4	50	45.83	92		75.00	125.00
		Dibromofluoromethane	50	49.66	99		75.00	125.00
		Toluene-d8	50	49.32	99		75.00	125.00
		4-Bromofluorobenzene	50	47.79	96		75.00	125.00

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: VH000854.D BFB Injection Date: 12/5/2005

Instrument ID: MSVOAH BFB Injection Time: 17:06

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.0
75	30.0 - 60.0% of mass 95	58.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.3
173	Less than 2.0% of mass 174	0.0(0.0) 1
174	50.0 - 100.0% of mass 95	88.2
175	5.0 - 9.0% of mass 174	6.2 (7.0) 1
176	95.0 - 101.0% of mass 174	86.2 (97.8) 1
177	5.0 - 9.0% of mass 176	4.5 (5.2) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD050	50 PPB ICC	VH000855.D	12/5/2005	17:46
VSTD010	10 PPB ICC	VH000856.D	12/5/2005	18:29
VSTD001	1 PPB ICC	VH000858.D	12/5/2005	19:19
VSTD100	100 PPB ICC	VH000861.D	12/5/2005	20:34
VSTD200	200 PPB ICC	VH000863.D	12/5/2005	21:24

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: VH000931.D BFB Injection Date: 12/7/2005

Instrument ID: MSVOAH BFB Injection Time: 02:29

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	30.1
75	30.0 - 60.0% of mass 95	59.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.5
173	Less than 2.0% of mass 174	0.0(0.0) 1
174	50.0 - 100.0% of mass 95	69.0
175	5.0 - 9.0% of mass 174	4.8 (6.9) 1
176	95.0 - 101.0% of mass 174	65.8 (95.4) 1
177	5.0 - 9.0% of mass 176	3.6 (5.5 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD050	50 PPB CCC	VH000932.D	12/7/2005	02:55
VBLK04	VBH1206W4	VH000935.D	12/7/2005	04:13
VLCS02	BSH1206W4	VH000937.D	12/7/2005	05:04

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: VH000958.D BFB Injection Date: 12/7/2005

Instrument ID: MSVOAH BFB Injection Time: 14:15

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.8
75	30.0 - 60.0% of mass 95	51.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0(0.0) 1
174	50.0 - 100.0% of mass 95	74.4
175	5.0 - 9.0% of mass 174	6.3 (8.5) 1
176	95.0 - 101.0% of mass 174	74.6 (100.2) 1
177	5.0 - 9.0% of mass 176	3.9 (5.2 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD050	50 PPB CCC	VH000959.D	12/7/2005	14:41
VBLK05	VBH1207W2	VH000961.D	12/7/2005	15:41
TRIPBLANK	T5908-09	VH000963.D	12/7/2005	16:32
FIELDBLANK	T5908-08	VH000964.D	12/7/2005	16:58

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: VK000463.D BFB Injection Date: 11/23/2005

Instrument ID: MSVOAK BFB Injection Time: 01:41

GC Column: DB624 ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.9
75	30.0 - 60.0% of mass 95	50.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0(0.0) 1
174	50.0 - 100.0% of mass 95	62.9
175	5.0 - 9.0% of mass 174	4.9 (7.8) 1
176	95.0 - 101.0% of mass 174	62.7 (99.7) 1
177	5.0 - 9.0% of mass 176	3.7 (5.8 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD005	5 PPB ICC	VK000464.D	11/23/200	02:09
VSTD020	20 PPB ICC	VK000466.D	11/23/200	03:08
VSTD100	100 PPB ICC	VK000469.D	11/23/200	04:40
VSTD150	150 PPB ICC	VK000470.D	11/23/200	05:12
VSTD050	50 PPB ICC	VK000471.D	11/23/200	05:42

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: VK000849.D BFB Injection Date: 12/3/2005

Instrument ID: MSVOAK BFB Injection Time: 04:42

GC Column: DB624 ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.3
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0(0.0) 1
174	50.0 - 100.0% of mass 95	56.4
175	5.0 - 9.0% of mass 174	4.7 (8.4) 1
176	95.0 - 101.0% of mass 174	55.7 (98.8) 1
177	5.0 - 9.0% of mass 176	4.6 (8.2 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD100	100 PPB CCC	VK000852.D	12/3/2005	06:08
VBLK01	VBK1202S4	VK000854.D	12/3/2005	07:01
VLCS01	BSK1202S2	VK000855.D	12/3/2005	07:27
S-1MS	T5908-01MS	VK000856.D	12/3/2005	07:55
S-1MSD	T5908-01MSD	VK000857.D	12/3/2005	08:22
S-1	T5908-01	VK000859.D	12/3/2005	09:17
S-1D	T5908-02	VK000860.D	12/3/2005	09:43
S-2	T5908-03	VK000861.D	12/3/2005	10:10
S-3	T5908-04	VK000862.D	12/3/2005	10:37

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: VK001087.D BFB Injection Date: 12/8/2005

Instrument ID: MSVOAK BFB Injection Time: 11:03

GC Column: DB624 ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.0
75	30.0 - 60.0% of mass 95	54.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0(0.0) 1
174	50.0 - 100.0% of mass 95	68.1
175	5.0 - 9.0% of mass 174	5.6 (8.2) 1
176	95.0 - 101.0% of mass 174	65.8 (96.0) 1
177	5.0 - 9.0% of mass 176	3.7 (5.6 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD050	50 PPB CCC	VK001089.D	12/8/2005	11:55
VBLK02	VBK1208S2	VK001092.D	12/8/2005	13:15
S-5	T5908-06	VK001099.D	12/8/2005	16:28
S-6	T5908-07	VK001100.D	12/8/2005	16:55

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: VK001290.D BFB Injection Date: 12/13/2005

Instrument ID: MSVOAK BFB Injection Time: 14:12

GC Column: DB624 ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.0
75	30.0 - 60.0% of mass 95	55.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0(0.0) 1
174	50.0 - 100.0% of mass 95	59.7
175	5.0 - 9.0% of mass 174	3.6 (6.1) 1
176	95.0 - 101.0% of mass 174	59.2 (99.2) 1
177	5.0 - 9.0% of mass 176	3.2 (5.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD100	100 PPB CCC	VK001293.D	12/13/200	15:33
VBLK03	VBK1213S2	VK001295.D	12/13/200	16:28
S-4	T5908-05	VK001303.D	12/13/200	20:08
S-6RE	T5908-07RE	VK001304.D	12/13/200	20:35

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Lab File ID: VK000852.D Date Analyzed: 12/3/2005

Instrument ID: MSVOAK Time Analyzed: 06:08

GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	89413	4.11	190079	4.55	181335	7.43
UPPER LIMIT	178826	4.61	380158	5.05	362670	7.93
LOWER LIMIT	44707	3.61	95040	4.05	90668	6.93
SAMPLE NO.						
VBLK01	89471	4.11	195199	4.55	189901	7.43
VLCS01	88268	4.11	200135	4.55	187763	7.43
S-1MS	107272	4.11	224578	4.54	203741	7.43
S-1MSD	101658	4.11	221348	4.54	202201	7.43
S-1	93391	4.11	205713	4.55	188329	7.43
S-1D	96834	4.10	207597	4.55	192308	7.43
S-2	104055	4.11	207424	4.54	177604	7.43
S-3	92243	4.11	192737	4.54	165201	7.43

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No. T5908 SAS No.: T5908 SDG No.: T5908

Lab File ID: VK000852.D Date Analyzed: 12/3/2005

Instrument ID: MSVOAK Time Analyzed: 06:08

GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT#				
12 HOUR STD	78700	9.49				
UPPER LIMIT	157400	9.99				
LOWER LIMIT	39350	8.99				
SAMPLE NO.						
VBLK01	79095	9.49				
VLCS01	82461	9.49				
S-1MS	85806	9.49				
S-1MSD	83447	9.49				
S-1	77158	9.49				
S-1D	79034	9.49				
S-2	71991	9.49				
S-3	65237	9.49				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Lab File ID: VK001293.D Date Analyzed: 12/13/2005

Instrument ID: MSVOAK Time Analyzed: 15:33

GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	79152	4.10	175666	4.54	160648	7.42
UPPER LIMIT	158304	4.60	351332	5.04	321296	7.92
LOWER LIMIT	39576	3.60	87833	4.04	80324	6.92
SAMPLE NO.						
VBLK03	82596	4.10	180979	4.53	163647	7.42
S-4	77845	4.10	163922	4.53	143949	7.42
S-6RE	76075	4.10	163200	4.53	145946	7.42

IS1 = Pentafluorobenzene

IS2 = 1,4-Difluorobenzene

IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No. T5908 SAS No.: T5908 SDG No.: T5908

Lab File ID: VK001293.D Date Analyzed: 12/13/200

Instrument ID: MSVOAK Time Analyzed: 15:33

GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT#				
12 HOUR STD	72626	9.48				
UPPER LIMIT	145252	9.98				
LOWER LIMIT	36313	8.98				
SAMPLE NO.						
VBLK03	68672	9.48				
S-4	61870	9.48				
S-6RE	60496	9.48				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Lab File ID: VH000932.D Date Analyzed: 12/7/2005

Instrument ID: MSVOAH Time Analyzed: 02:55

GC Column: RTX624 ID: 0.5 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	304974	5.00	429702	5.62	366672	9.36
UPPER LIMIT	609948	5.50	859404	6.12	733344	9.86
LOWER LIMIT	152487	4.50	214851	5.12	183336	8.86
SAMPLE NO.						
VBLK04	319008	5.00	436314	5.62	389958	9.35
VLCS02	320482	5.00	443724	5.61	390320	9.35

IS1 = Pentafluorobenzene

IS2 = 1,4-Difluorobenzene

IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No. T5908 SAS No.: T5908 SDG No.: T5908

Lab File ID: VH000932.D Date Analyzed: 12/7/2005

Instrument ID: MSVOAH Time Analyzed: 02:55

GC Column: RTX624 ID: 0.5 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT#				
12 HOUR STD	162763	11.82				
UPPER LIMIT	325526	12.32				
LOWER LIMIT	81382	11.32				
SAMPLE NO.						
VBLK04	174271	11.82				
VLCS02	174177	11.82				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Lab File ID: VH000959.D Date Analyzed: 12/7/2005

Instrument ID: MSVOAH Time Analyzed: 14:41

GC Column: RTX624 ID: 0.5 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	317851	4.99	436675	5.60	382717	9.35
UPPER LIMIT	635702	5.49	873350	6.10	765434	9.85
LOWER LIMIT	158926	4.49	218338	5.10	191359	8.85
SAMPLE NO.						
VBLK05	318755	4.98	441872	5.60	397443	9.35
TRIPBLANK	325965	5.00	448076	5.61	393936	9.35
FIELDBLANK	322915	4.99	446300	5.60	391655	9.35

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No. T5908 SAS No.: T5908 SDG No.: T5908

Lab File ID: VH000959.D Date Analyzed: 12/7/2005

Instrument ID: MSVOAH Time Analyzed: 14:41

GC Column: RTX624 ID: 0.5 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT#				
12 HOUR STD	173258	11.82				
UPPER LIMIT	346516	12.32				
LOWER LIMIT	86629	11.32				
SAMPLE NO.						
VBLK05	183419	11.81				
TRIPBLANK	172382	11.81				
FIELDBLANK	176065	11.81				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Lab File ID: VK001089.D Date Analyzed: 12/8/2005

Instrument ID: MSVOAK Time Analyzed: 11:55

GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	101233	4.09	202072	4.52	186486	7.40
UPPER LIMIT	202466	4.59	404144	5.02	372972	7.90
LOWER LIMIT	50617	3.59	101036	4.02	93243	6.90
SAMPLE NO.						
VBLK02	87698	4.09	176865	4.52	165274	7.40
S-5	102246	4.09	212942	4.52	190022	7.40
S-6	1436 *	4.09	2949 *	4.51	2559 *	7.40

IS1 = Pentafluorobenzene

IS2 = 1,4-Difluorobenzene

IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No. T5908 SAS No.: T5908 SDG No.: T5908

Lab File ID: VK001089.D Date Analyzed: 12/8/2005

Instrument ID: MSVOAK Time Analyzed: 11:55

GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT#				
12 HOUR STD	85076	9.47				
UPPER LIMIT	170152	9.97				
LOWER LIMIT	42538	8.97				
SAMPLE NO.						
VBLK02	71369	9.47				
S-5	81136	9.47				
S-6	860 *	9.48				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

CHEMTECH

4.3 VOLATILE MS/MSD SUMMARY

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

AG No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Sample Result	Result	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**S-1MS**									
T5908-01MS	Chloromethane	53	0.0	54	102			52	128	
	Vinyl chloride	53	0.0	51	96			70	130	
	Bromomethane	53	0.0	45	85			59	136	
	Chloroethane	53	0.0	47	89			66	123	
	1,1-Dichloroethene	53	0.0	47	89			82	154	
	Acetone	266	0.0	310	117			56	176	
	Carbon disulfide	53	0.0	27	51		*	70	148	
	Methylene Chloride	53	0.0	48	91			70	150	
	trans-1,2-Dichloroethene	53	0.0	45	85			71	150	
	1,1-Dichloroethane	53	0.0	56	106			77	139	
	2-Butanone	266	0.0	180	68			53	156	
	cis-1,2-Dichloroethene	53	0.0	49	92			75	125	
	Chloroform	53	0.0	50	94			73	138	
	1,1,1-Trichloroethane	53	0.0	45	85			76	130	
	Carbon Tetrachloride	53	0.0	43	81			79	138	
	Benzene	53	0.0	49	92			83	135	
	1,2-Dichloroethane	53	0.0	39	74		*	82	136	
	Trichloroethene	53	0.0	43	81			81	129	
	1,2-Dichloropropane	53	0.0	54	102			83	139	
	Bromodichloromethane	53	0.0	46	87			78	130	
	4-Methyl-2-Pentanone	266	0.0	180	68		*	74	150	
	Toluene	53	0.0	48	91			79	140	
	t-1,3-Dichloropropene	53	0.0	40	75		*	82	139	
	cis-1,3-Dichloropropene	53	0.0	43	81			80	137	
	1,1,2-Trichloroethane	53	0.0	41	77		*	80	131	
	2-Hexanone	266	0.0	170	64		*	72	150	
	Dibromochloromethane	53	0.0	40	75		*	76	129	
	Tetrachloroethene	53	0.0	38	72			68	145	
	Chlorobenzene	53	0.0	49	92			80	141	
	Ethyl Benzene	53	0.0	51	96			82	139	
	m/p-Xylenes	106	0.0	100	94			81	143	
	o-Xylene	53	0.0	50	94			79	144	
	Styrene	53	0.0	49	92			80	146	
	Bromoform	53	0.0	35	66		*	69	125	
	1,1,2,2-Tetrachloroethane	53	0.0	44	83			72	142	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

AG No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Sample Result	Result	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**S-1MSD**									
T5908-01MSD	Chloromethane	53	0.0	56	106	4		52	128	20
	Vinyl chloride	53	0.0	52	98	2		70	130	20
	Bromomethane	53	0.0	49	92	8		59	136	20
	Chloroethane	53	0.0	55	104	16		66	123	20
	1,1-Dichloroethene	53	0.0	50	94	5		82	154	22
	Acetone	266	0.0	280	105	11		56	176	20
	Carbon disulfide	53	0.0	27	51	0	*	70	148	20
	Methylene Chloride	53	0.0	51	96	5		70	150	20
	trans-1,2-Dichloroethene	53	0.0	54	102	18		71	150	20
	1,1-Dichloroethane	53	0.0	61	115	8		77	139	20
	2-Butanone	266	0.0	210	79	15		53	156	20
	cis-1,2-Dichloroethene	53	0.0	52	98	6		75	125	20
	Chloroform	53	0.0	53	100	6		73	138	20
	1,1,1-Trichloroethane	53	0.0	49	92	8		76	130	20
	Carbon Tetrachloride	53	0.0	42	79	3		79	138	20
	Benzene	53	0.0	50	94	2		83	135	21
	1,2-Dichloroethane	53	0.0	42	79	7	*	82	136	20
	Trichloroethene	53	0.0	44	83	2		81	129	24
	1,2-Dichloropropane	53	0.0	54	102	0		83	139	20
	Bromodichloromethane	53	0.0	48	91	4		78	130	20
	4-Methyl-2-Pentanone	266	0.0	210	79	15		74	150	20
	Toluene	53	0.0	49	92	1		79	140	21
	t-1,3-Dichloropropene	53	0.0	42	79	5	*	82	139	20
	cis-1,3-Dichloropropene	53	0.0	47	89	9		80	137	20
	1,1,2-Trichloroethane	53	0.0	45	85	10		80	131	20
	2-Hexanone	266	0.0	190	71	10	*	72	150	20
	Dibromochloromethane	53	0.0	43	81	8		76	129	20
	Tetrachloroethene	53	0.0	37	70	3		68	145	20
	Chlorobenzene	53	0.0	50	94	2		80	141	21
	Ethyl Benzene	53	0.0	51	96	0		82	139	20
	m/p-Xylenes	106	0.0	100	94	0		81	143	20
	o-Xylene	53	0.0	51	96	2		79	144	20
	Styrene	53	0.0	50	94	2		80	146	20
	Bromoform	53	0.0	38	72	9		69	125	20
	1,1,2,2-Tetrachloroethane	53	0.0	47	89	7		72	142	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

)G No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	RPD
BSK1202S2	Chloromethane	20	23	115			70	130	
	Vinyl chloride	20	17	85			70	130	
	Bromomethane	20	22	110			70	130	
	Chloroethane	20	16	80			70	130	
	1,1-Dichloroethene	20	14	70			70	130	
	Acetone	100	100	100			70	130	
	Carbon disulfide	20	8.0	40		*	70	130	
	Methylene Chloride	20	36	180		*	70	130	
	trans-1,2-Dichloroethene	20	16	80			70	130	
	1,1-Dichloroethane	20	21	105			70	130	
	2-Butanone	100	120	120			70	130	
	cis-1,2-Dichloroethene	20	19	95			70	130	
	Chloroform	20	20	100			70	130	
	1,1,1-Trichloroethane	20	17	85			70	130	
	Carbon Tetrachloride	20	14	70			70	130	
	Benzene	20	17	85			70	130	
	1,2-Dichloroethane	20	17	85			70	130	
	Trichloroethene	20	15	75			70	130	
	1,2-Dichloropropane	20	21	105			70	130	
	Bromodichloromethane	20	17	85			70	130	
	4-Methyl-2-Pentanone	100	110	110			70	130	
	Toluene	20	16	80			70	130	
	t-1,3-Dichloropropene	20	17	85			70	130	
	cis-1,3-Dichloropropene	20	18	90			70	130	
	1,1,2-Trichloroethane	20	18	90			70	130	
	2-Hexanone	100	110	110			70	130	
	Dibromochloromethane	20	17	85			70	130	
	Tetrachloroethene	20	12	60		*	70	130	
	Chlorobenzene	20	18	90			70	130	
	Ethyl Benzene	20	17	85			70	130	
	m/p-Xylenes	40	35	88			70	130	
	o-Xylene	20	17	85			70	130	
	Styrene	20	17	85			70	130	
	Bromoform	20	16	80			70	130	
	1,1,2,2-Tetrachloroethane	20	20	100			70	130	
BSH1206W4	Chloromethane	20	20	100			70	130	
	Vinyl chloride	20	19	95			70	130	
	Bromomethane	20	20	100			70	130	
	Chloroethane	20	17	85			70	130	
	1,1-Dichloroethene	20	18	90			70	130	
	Acetone	100	110	110			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

)G No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	RPD
BSH1206W4	Carbon disulfide	20	19	95			70	130	
	Methylene Chloride	20	19	95			70	130	
	trans-1,2-Dichloroethene	20	18	90			70	130	
	1,1-Dichloroethane	20	19	95			70	130	
	2-Butanone	100	110	110			70	130	
	cis-1,2-Dichloroethene	20	18	90			70	130	
	Chloroform	20	20	100			70	130	
	1,1,1-Trichloroethane	20	18	90			70	130	
	Carbon Tetrachloride	20	14	70			70	130	
	Benzene	20	20	100			70	130	
	1,2-Dichloroethane	20	21	105			70	130	
	Trichloroethene	20	25	125			70	130	
	1,2-Dichloropropane	20	18	90			70	130	
	Bromodichloromethane	20	20	100			70	130	
	4-Methyl-2-Pentanone	100	110	110			70	130	
	Toluene	20	21	105			70	130	
	t-1,3-Dichloropropene	20	20	100			70	130	
	cis-1,3-Dichloropropene	20	19	95			70	130	
	1,1,2-Trichloroethane	20	21	105			70	130	
	2-Hexanone	100	110	110			70	130	
	Dibromochloromethane	20	20	100			70	130	
	Tetrachloroethene	20	30	150		*	70	130	
	Chlorobenzene	20	20	100			70	130	
	Ethyl Benzene	20	21	105			70	130	
	m/p-Xylenes	40	41	103			70	130	
	o-Xylene	20	21	105			70	130	
	Styrene	20	21	105			70	130	
	Bromoform	20	19	95			70	130	
	1,1,2,2-Tetrachloroethane	20	16	80			70	130	

4.4 VOLATILE CALIBRATIONS SUMMARY

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: MSVOAH Calibration Date(s): 12/5/2005 12/5/2005

Heated Purge: (Y/N) N Calibration Time(s): 17:46 21:24

GC Column: RTX624 ID: 0.53 (mm)

LAB FILE ID:

RRF001 = VH000858.D RRF010 = VH000856.D

RRF050 = VH000855.D RRF100 = VH000861.D RRF200 = VH000863.D

COMPOUND	RRF001	RRF010	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD	
Chloromethane *	0.394	0.364	0.362	0.392	0.390	0.380	4.2	*
Vinyl Chloride *	0.207	0.354	0.375	0.456	0.446	0.368	27.2	*
Bromomethane	0.257	0.289	0.284	0.301	0.297	0.286	6.1	
Chloroethane	0.275	0.254	0.236	0.254	0.263	0.256	5.6	
1,1-Dichloroethene *	0.348	0.307	0.319	0.335	0.316	0.325	5.0	*
Acetone	0.329	0.312	0.260	0.260	0.188	0.270	20.4	
Carbon Disulfide	1.322	1.166	1.171	1.215	1.126	1.200	6.3	
Methylene Chloride	0.533	0.390	0.384	0.412	0.371	0.418	15.8	
trans-1,2-Dichloroethen	0.318	0.390	0.419	0.442	0.417	0.397	12.1	
1,1-Dichloroethane *	0.955	0.997	0.988	1.021	0.873	0.967	5.9	*
2-Butanone	0.354	0.345	0.312	0.319	0.302	0.326	6.8	
Carbon Tetrachloride *	0.454	0.656	0.689	0.685	0.559	0.609	16.6	*
cis-1,2-Dichloroethene	0.377	0.435	0.466	0.485	0.444	0.441	9.3	
Chloroform *	1.009	1.215	1.243	1.184	1.086	1.147	8.5	*
1,1,1-Trichloroethane *	1.113	1.101	1.110	1.017	0.932	1.055	7.5	*
Benzene *	0.984	1.074	1.044	1.064	1.003	1.034	3.8	*
1,2-Dichloroethane *	0.709	0.931	0.979	0.861	0.807	0.857	12.3	*
Trichloroethene *	0.254	0.355	0.362	0.355	0.336	0.332	13.5	*
1,2-Dichloropropane *	0.330	0.269	0.277	0.289	0.271	0.287	8.8	*
Bromodichloromethane *	0.540	0.639	0.684	0.644	0.595	0.620	8.9	*
4-Methyl-2-Pentanone	0.475	0.525	0.474	0.441	0.404	0.464	9.7	
Toluene *	0.518	0.656	0.659	0.678	0.628	0.628	10.2	*
t-1,3-Dichloropropene *	0.541	0.730	0.726	0.681	0.634	0.662	11.8	*
cis-1,3-Dichloropropene*	0.527	0.631	0.637	0.602	0.558	0.591	8.0	*
1,1,2-Trichloroethane *	0.224	0.264	0.272	0.280	0.252	0.258	8.5	*
2-Hexanone	0.339	0.397	0.351	0.349	0.308	0.349	9.2	
Dibromochloromethane *	0.379	0.446	0.472	0.447	0.387	0.426	9.6	*
Tetrachloroethene *	0.336	0.316	0.318	0.440	0.505	0.383	22.3	*
Chlorobenzene *	0.772	0.837	0.868	0.865	0.850	0.838	4.7	*
Ethyl Benzene *	0.312	0.394	0.404	0.405	0.399	0.383	10.4	*
m/p-Xylenes *	0.424	0.539	0.523	0.502	0.480	0.494	9.1	*
o-Xylene *	0.392	0.481	0.485	0.498	0.473	0.466	9.1	*
Styrene *	0.712	0.906	0.843	0.872	0.778	0.822	9.4	*
Bromoform *	0.218	0.327	0.351	0.328	0.314	0.308	16.8	*
1,1,2,2-Tetrachloroetha*	0.861	0.839	0.852	0.849	0.777	0.836	4.0	*
1,2-Dichloroethane-d4	1.122	1.170	1.243	1.086	1.046	1.133	6.7	
Dibromofluoromethane	0.455	0.444	0.457	0.412	0.398	0.433	6.2	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: MSVOAH Calibration Date(s): 12/5/2005 12/5/2005

Heated Purge: (Y/N) N Calibration Time(s): 17:46 21:24

GC Column: RTX624 ID: 0.53 (mm)

LAB FILE ID:

RRF001 = VH000858.D RRF010 = VH000856.D

RRF050 = VH000855.D RRF100 = VH000861.D RRF200 = VH000863.D

COMPOUND	RRF001	RRF010	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD	
Toluene-d8	1.076	1.099	1.098	1.108	1.074	1.091	1.4	
4-Bromofluorobenzene *	0.547	0.547	0.523	0.526	0.475	0.524	5.6	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: MSVOAK Calibration Date(s): 11/23/2005 11/23/2005

Heated Purge: (Y/N) Y Calibration Time(s): 02:09 05:42

GC Column: DB624 ID: 0.18 (mm)

LAB FILE ID: RRF005 = VK000464.D RRF020 = VK000466.D

RRF050 = VK000471.D RRF100 = VK000469.D RRF150 = VK000470.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Chloromethane *	0.807	0.838	0.859	0.799	0.792	0.819	3.5	*
Vinyl Chloride *	0.430	0.631	0.660	0.653	0.652	0.605	16.3	*
Bromomethane	0.383	0.440	0.437	0.438	0.434	0.426	5.7	
Chloroethane	0.234	0.431	0.405	0.459	0.391	0.384	22.9	
1,1-Dichloroethene *	0.260	0.274	0.266	0.213	0.212	0.245	12.3	*
Acetone	0.198	0.188	0.218	0.114	0.197	0.183	21.9	
Carbon Disulfide	1.177	1.315	1.208	1.052	1.101	1.171	8.7	
Methylene Chloride	0.491	0.586	0.526	0.444	0.483	0.506	10.5	
trans-1,2-Dichloroethen	0.382	0.479	0.440	0.330	0.367	0.400	14.9	
1,1-Dichloroethane *	1.223	1.191	1.201	0.991	1.074	1.136	8.8	*
2-Butanone	0.784	0.733	0.820	0.722	0.771	0.766	5.2	
Carbon Tetrachloride *	0.348	0.388	0.373	0.351	0.371	0.366	4.5	*
cis-1,2-Dichloroethene	0.630	0.805	0.824	0.755	0.788	0.760	10.2	
Chloroform *	1.184	1.368	1.486	1.391	1.494	1.385	9.0	*
1,1,1-Trichloroethane *	0.745	0.788	0.831	0.765	0.833	0.792	5.0	*
Benzene *	1.401	1.542	1.611	1.512	1.532	1.520	5.0	*
1,2-Dichloroethane *	0.584	0.675	0.732	0.689	0.701	0.676	8.2	*
Trichloroethene *	0.259	0.299	0.325	0.303	0.304	0.298	8.1	*
1,2-Dichloropropane *	0.430	0.502	0.521	0.489	0.493	0.487	7.0	*
Bromodichloromethane *	0.561	0.588	0.609	0.589	0.616	0.593	3.6	*
4-Methyl-2-Pentanone	0.700	0.750	0.792	0.689	0.687	0.724	6.4	
Toluene *	0.835	0.899	0.917	0.860	0.876	0.877	3.7	*
t-1,3-Dichloropropene *	0.650	0.815	0.839	0.767	0.804	0.775	9.6	*
cis-1,3-Dichloropropene*	0.726	0.793	0.870	0.811	0.822	0.804	6.5	*
1,1,2-Trichloroethane *	0.365	0.387	0.390	0.363	0.377	0.376	3.3	*
2-Hexanone	0.549	0.535	0.597	0.530	0.536	0.549	5.0	
Dibromochloromethane *	0.358	0.378	0.402	0.368	0.391	0.379	4.6	*
Tetrachloroethene *	0.360	0.329	0.407	0.366	0.354	0.363	7.8	*
Chlorobenzene *	0.906	0.944	1.020	0.915	0.970	0.951	4.8	*
Ethyl Benzene *	0.451	0.495	0.505	0.451	0.484	0.477	5.3	*
m/p-Xylenes *	0.578	0.584	0.639	0.562	0.582	0.589	5.0	*
o-Xylene *	0.538	0.611	0.642	0.571	0.622	0.597	7.0	*
Styrene *	1.053	1.130	1.215	1.068	1.131	1.119	5.7	*
Bromoform *	0.255	0.298	0.348	0.296	0.329	0.305	11.7	*
1,1,2,2-Tetrachloroetha*	1.228	1.480	1.546	1.321	1.387	1.392	9.0	*
1,2-Dichloroethane-d4	0.953	1.290	1.386	1.270	1.343	1.248	13.7	
Dibromofluoromethane	0.304	0.387	0.382	0.365	0.358	0.359	9.2	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: MSVOAK Calibration Date(s): 11/23/2005 11/23/2005

Heated Purge: (Y/N) Y Calibration Time(s): 02:09 05:42

GC Column: DB624 ID: 0.18 (mm)

LAB FILE ID:

RRF005 = VK000464.D RRF020 = VK000466.D

RRF050 = VK000471.D RRF100 = VK000469.D RRF150 = VK000470.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD	
Toluene-d8	1.109	1.280	1.324	1.262	1.249	1.245	6.5	
4-Bromofluorobenzene *	0.496	0.595	0.600	0.565	0.559	0.563	7.4	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: MSVOAH Calibration Date/Time: 12/7/2005 02:55

Lab File ID: VH000932.D Init. Calib. Date(s): 12/5/2005 12/5/2005

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:46 21:24

GC Column: RTX624 ID: 0.53 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.380	0.394	0.100	3.7	
Vinyl Chloride	0.368	0.404		9.8	20.0
Bromomethane	0.286	0.318		11.2	
Chloroethane	0.256	0.246		-3.9	
1,1-Dichloroethene	0.325	0.310		-4.6	20.0
Acetone	0.270	0.273		1.1	
Carbon Disulfide	1.200	1.183		-1.4	
Methylene Chloride	0.418	0.395		-5.5	
trans-1,2-Dichloroethene	0.397	0.406		2.3	
1,1-Dichloroethane	0.967	1.013	0.100	4.8	
2-Butanone	0.326	0.353		8.3	
Carbon Tetrachloride	0.609	0.700		14.9	
cis-1,2-Dichloroethene	0.441	0.433		-1.8	
Chloroform	1.147	1.153		0.5	20.0
1,1,1-Trichloroethane	1.055	0.993		-5.9	
Benzene	1.034	1.032		-0.2	
1,2-Dichloroethane	0.857	0.938		9.5	
Trichloroethene	0.332	0.408		22.9	
1,2-Dichloropropane	0.287	0.275		-4.2	20.0
Bromodichloromethane	0.620	0.663		6.9	
4-Methyl-2-Pentanone	0.464	0.483		4.1	
Toluene	0.628	0.647		3.0	20.0
t-1,3-Dichloropropene	0.662	0.649		-2.0	
cis-1,3-Dichloropropene	0.591	0.590		-0.2	
1,1,2-Trichloroethane	0.258	0.276		7.0	
2-Hexanone	0.349	0.370		6.0	
Dibromochloromethane	0.426	0.439		3.1	
Tetrachloroethene	0.383	0.582		52.0	
Chlorobenzene	0.838	0.852	0.300	1.7	
Ethyl Benzene	0.383	0.410		7.0	20.0
m/p-Xylenes	0.494	0.514		4.0	
o-Xylene	0.466	0.495		6.2	
Styrene	0.822	0.858		4.4	
Bromoform	0.308	0.327	0.100	6.2	
1,1,2,2-Tetrachloroethane	0.836	0.691	0.300	-17.3	
1,2-Dichloroethane-d4	1.133	1.181		4.2	
Dibromofluoromethane	0.433	0.424		-2.1	
Toluene-d8	1.091	1.086		-0.5	
4-Bromofluorobenzene	0.524	0.510		-2.7	

All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: MSVOAH Calibration Date/Time: 12/7/2005 14:41

Lab File ID: VH000959.D Init. Calib. Date(s): 12/5/2005 12/5/2005

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:46 21:24

GC Column: RTX624 ID: 0.53 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.380	0.342	0.100	-10.0	
Vinyl Chloride	0.368	0.397		7.9	20.0
Bromomethane	0.286	0.294		2.8	
Chloroethane	0.256	0.230		-10.2	
1,1-Dichloroethene	0.325	0.314		-3.4	20.0
Acetone	0.270	0.270		0.0	
Carbon Disulfide	1.200	1.168		-2.7	
Methylene Chloride	0.418	0.368		-12.0	
trans-1,2-Dichloroethene	0.397	0.405		2.0	
1,1-Dichloroethane	0.967	1.010	0.100	4.4	
2-Butanone	0.326	0.340		4.3	
Carbon Tetrachloride	0.609	0.722		18.6	
cis-1,2-Dichloroethene	0.441	0.441		0.0	
Chloroform	1.147	1.114		-2.9	20.0
1,1,1-Trichloroethane	1.055	1.022		-3.1	
Benzene	1.034	1.020		-1.4	
1,2-Dichloroethane	0.857	0.933		8.9	
Trichloroethene	0.332	0.354		6.6	
1,2-Dichloropropane	0.287	0.274		-4.5	20.0
Bromodichloromethane	0.620	0.676		9.0	
4-Methyl-2-Pentanone	0.464	0.480		3.4	
Toluene	0.628	0.665		5.9	20.0
t-1,3-Dichloropropene	0.662	0.698		5.4	
cis-1,3-Dichloropropene	0.591	0.610		3.2	
1,1,2-Trichloroethane	0.258	0.274		6.2	
2-Hexanone	0.349	0.369		5.7	
Dibromochloromethane	0.426	0.449		5.4	
Tetrachloroethene	0.383	0.374		-2.3	
Chlorobenzene	0.838	0.858	0.300	2.4	
Ethyl Benzene	0.383	0.400		4.4	20.0
m/p-Xylenes	0.494	0.511		3.4	
o-Xylene	0.466	0.476		2.1	
Styrene	0.822	0.841		2.3	
Bromoform	0.308	0.314	0.100	1.9	
1,1,2,2-Tetrachloroethane	0.836	0.817	0.300	-2.3	
1,2-Dichloroethane-d4	1.133	1.129		-0.4	
Dibromofluoromethane	0.433	0.430		-0.7	
Toluene-d8	1.091	1.092		0.1	
4-Bromofluorobenzene	0.524	0.529		1.0	

All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: MSVOAK Calibration Date/Time: 12/3/2005 06:08

Lab File ID: VK000852.D Init. Calib. Date(s): 11/23/2005 11/23/2005

Heated Purge: (Y/N) Y Init. Calib. Time(s): 02:09 05:42

GC Column: DB624 ID: 0.18 (mm)

COMPOUND	RRF	RRF100	MIN RRF	%D	MAX%D
Chloromethane	0.819	0.827	0.100	1.0	
Vinyl Chloride	0.605	0.656		8.4	20.0
Bromomethane	0.426	0.438		2.8	
Chloroethane	0.384	0.524		36.5	
1,1-Dichloroethene	0.245	0.214		-12.7	20.0
Acetone	0.183	0.201		9.8	
Carbon Disulfide	1.171	0.542		-53.7	
Methylene Chloride	0.506	0.505		-0.2	
trans-1,2-Dichloroethene	0.400	0.303		-24.3	
1,1-Dichloroethane	1.136	1.012	0.100	-10.9	
2-Butanone	0.766	0.970		26.6	
Carbon Tetrachloride	0.366	0.278		-24.0	
cis-1,2-Dichloroethene	0.760	0.712		-6.3	
Chloroform	1.385	1.358		-1.9	20.0
1,1,1-Trichloroethane	0.792	0.665		-16.0	
Benzene	1.520	1.408		-7.4	
1,2-Dichloroethane	0.676	0.609		-9.9	
Trichloroethene	0.298	0.261		-12.4	
1,2-Dichloropropane	0.487	0.527		8.2	20.0
Bromodichloromethane	0.593	0.553		-6.7	
4-Methyl-2-Pentanone	0.724	0.851		17.5	
Toluene	0.877	0.801		-8.7	20.0
t-1,3-Dichloropropene	0.775	0.754		-2.7	
cis-1,3-Dichloropropene	0.804	0.788		-2.0	
1,1,2-Trichloroethane	0.376	0.375		-0.3	
2-Hexanone	0.549	0.643		17.1	
Dibromochloromethane	0.379	0.364		-4.0	
Tetrachloroethene	0.363	0.327		-9.9	
Chlorobenzene	0.951	0.886	0.300	-6.8	
Ethyl Benzene	0.477	0.443		-7.1	20.0
m/p-Xylenes	0.589	0.536		-9.0	
o-Xylene	0.597	0.565		-5.4	
Styrene	1.119	1.059		-5.4	
Bromoform	0.305	0.280	0.100	-8.2	
1,1,2,2-Tetrachloroethane	1.392	1.466	0.300	5.3	
1,2-Dichloroethane-d4	1.248	0.682		-45.4	
Dibromofluoromethane	0.359	0.169		-52.9	
Toluene-d8	1.245	0.633		-49.2	
4-Bromofluorobenzene	0.563	0.276		-51.0	

All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: MSVOAK Calibration Date/Time: 12/8/2005 11:55

Lab File ID: VK001089.D Init. Calib. Date(s): 11/23/2005 11:23/2005

Heated Purge: (Y/N) Y Init. Calib. Time(s): 02:09 05:42

GC Column: DB624 ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.819	0.708	0.100	-13.6	
Vinyl Chloride	0.605	0.600		-0.8	20.0
Bromomethane	0.426	0.405		-4.9	
Chloroethane	0.384	0.391		1.8	
1,1-Dichloroethene	0.245	0.205		-16.3	20.0
Acetone	0.183	0.174		-4.9	
Carbon Disulfide	1.171	0.356		-69.6	
Methylene Chloride	0.506	0.409		-19.2	
trans-1,2-Dichloroethene	0.400	0.319		-20.3	
1,1-Dichloroethane	1.136	1.090	0.100	-4.0	
2-Butanone	0.766	0.890		16.2	
Carbon Tetrachloride	0.366	0.271		-26.0	
cis-1,2-Dichloroethene	0.760	0.674		-11.3	
Chloroform	1.385	1.203		-13.1	20.0
1,1,1-Trichloroethane	0.792	0.622		-21.5	
Benzene	1.520	1.309		-13.9	
1,2-Dichloroethane	0.676	0.537		-20.6	
Trichloroethene	0.298	0.242		-18.8	
1,2-Dichloropropane	0.487	0.500		2.7	20.0
Bromodichloromethane	0.593	0.502		-15.3	
4-Methyl-2-Pentanone	0.724	0.870		20.2	
Toluene	0.877	0.778		-11.3	20.0
t-1,3-Dichloropropene	0.775	0.697		-10.1	
cis-1,3-Dichloropropene	0.804	0.743		-7.6	
1,1,2-Trichloroethane	0.376	0.342		-9.0	
2-Hexanone	0.549	0.653		18.9	
Dibromochloromethane	0.379	0.321		-15.3	
Tetrachloroethene	0.363	0.250		-31.1	
Chlorobenzene	0.951	0.862	0.300	-9.4	
Ethyl Benzene	0.477	0.467		-2.1	20.0
m/p-Xylenes	0.589	0.559		-5.1	
o-Xylene	0.597	0.568		-4.9	
Styrene	1.119	1.022		-8.7	
Bromoform	0.305	0.256	0.100	-16.1	
1,1,2,2-Tetrachloroethane	1.392	1.472	0.300	5.7	
1,2-Dichloroethane-d4	1.248	1.236		-1.0	
Dibromofluoromethane	0.359	0.378		5.3	
Toluene-d8	1.245	1.435		15.3	
4-Bromofluorobenzene	0.563	0.594		5.5	

All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: MSVOAK Calibration Date/Time: 12/13/2005 15:33

Lab File ID: VK001293.D Init. Calib. Date(s): 11/23/2005 11/23/2005

Heated Purge: (Y/N) Y Init. Calib. Time(s): 02:09 05:42

GC Column: DB624 ID: 0.18 (mm)

COMPOUND	RRF	RRF100	MIN RRF	%D	MAX%D
Chloromethane	0.819	1.070	0.100	30.6	
Vinyl Chloride	0.605	0.615		1.7	20.0
Bromomethane	0.426	0.379		-11.0	
Chloroethane	0.384	0.442		15.1	
1,1-Dichloroethene	0.245	0.276		12.7	20.0
Acetone	0.183	0.157		-14.2	
Carbon Disulfide	1.171	1.499		28.0	
Methylene Chloride	0.506	0.532		5.1	
trans-1,2-Dichloroethene	0.400	0.481		20.2	
1,1-Dichloroethane	1.136	1.377	0.100	21.2	
2-Butanone	0.766	1.079		40.9	
Carbon Tetrachloride	0.366	0.351		-4.1	
cis-1,2-Dichloroethene	0.760	0.870		14.5	
Chloroform	1.385	1.566		13.1	20.0
1,1,1-Trichloroethane	0.792	0.820		3.5	
Benzene	1.520	1.805		18.8	
1,2-Dichloroethane	0.676	0.668		-1.2	
Trichloroethene	0.298	0.309		3.7	
1,2-Dichloropropane	0.487	0.613		25.9	20.0
Bromodichloromethane	0.593	0.604		1.9	
4-Methyl-2-Pentanone	0.724	0.962		32.9	
Toluene	0.877	0.977		11.4	20.0
t-1,3-Dichloropropene	0.775	0.837		8.0	
cis-1,3-Dichloropropene	0.804	0.917		14.1	
1,1,2-Trichloroethane	0.376	0.387		2.9	
2-Hexanone	0.549	0.737		34.2	
Dibromochloromethane	0.379	0.365		-3.7	
Tetrachloroethene	0.363	0.339		-6.6	
Chlorobenzene	0.951	1.039	0.300	9.3	
Ethyl Benzene	0.477	0.550		15.3	20.0
m/p-Xylenes	0.589	0.675		14.6	
o-Xylene	0.597	0.686		14.9	
Styrene	1.119	1.220		9.0	
Bromoform	0.305	0.270	0.100	-11.5	
1,1,2,2-Tetrachloroethane	1.392	1.562	0.300	12.2	
1,2-Dichloroethane-d4	1.248	0.633		-49.3	
Dibromofluoromethane	0.359	0.145		-59.6	
Toluene-d8	1.245	0.561		-54.9	
4-Bromofluorobenzene	0.563	0.243		-56.8	

All other compounds must meet a minimum RRF of 0.010.

4.5 VOLATILE MISCELLANEOUS DATA

CHEMTECH

Lab Chronicle

Order ID:	T5908	Order Date:	11/28/2005 5:17:24 PM
Client:	Metcalf & Eddy, Inc.	Project:	Brownsville Industrial Site 1 Sackman Street
Contact:	Nelson Abrams	Location	E42

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
T5908-01	**S-1**	**SOIL**			**11/28/05**			**11/28/05**
			VOC-TCLVOA-10	8260			12/03/05	
T5908-02	**S-1D**	**SOIL**			**11/28/05**			**11/28/05**
			VOC-TCLVOA-10	8260			12/03/05	
T5908-03	**S-2**	**SOIL**			**11/28/05**			**11/28/05**
			VOC-TCLVOA-10	8260			12/03/05	
T5908-04	**S-3**	**SOIL**			**11/28/05**			**11/28/05**
			VOC-TCLVOA-10	8260			12/03/05	
T5908-05	**S-4**	**SOIL**			**11/28/05**			**11/28/05**
			VOC-TCLVOA-10	8260			12/13/05	
T5908-06	**S-5**	**SOIL**			**11/28/05**			**11/28/05**
			VOC-TCLVOA-10	8260			12/08/05	
T5908-07	**S-6**	**SOIL**			**11/28/05**			**11/28/05**
			VOC-TCLVOA-10	8260			12/08/05	
T5908-07RE	**S-6RE**	**SOIL**			**11/28/05**			**11/28/05**
			VOC-TCLVOA-10	8260			12/13/05	
T5908-08	**FIELDBLANK**	**WATER**			**11/28/05**			**11/28/05**
			VOC-TCLVOA-10	8260			12/07/05	
T5908-09	**TRIPBLANK**	**WATER**			**11/28/05**			**11/28/05**
			VOC-TCLVOA-10	8260			12/07/05	

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

VK120205 **Daily Analysis Runlog For GC/MS #: MSVOA K**

894 13
190079
181335
78700

Start Date: 12/03/05 End Date: 12/03/05 Analyst SG Review By: YP

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
BFB	MSV1- 1290	Initial Calibration Stds.	MSV1- N/A
CCC	MSV1- 1292, 1326 1303, 1320	Spike Std.	MSV1- 1292, 1329 1303, 1320
Internal Stds.	MSV1- 1249	HP Processing Method	82k 11 23 5.M
Surrogate Stds.	MSV1- 1243	ICV	N/A

SR. #:	Sample ID	Data File Name	pH	Manual Integration Peak number/ Reason	Comment	RE, DL - Data file
1	BFB TUNE CHECK	VK000849			OK	4:42 AM
2	BFB TUNE CHECK	850			Not Needed	
3	50 PPB CCC	851			Not Needed	
4	100 PPB CCC	852		2, 6, 7, 8, 12, 15, 28,	OK	
5	VBK120253	853			Not Needed	
6	VBK120254	854			OK Methylene Chlor - 34.9% (surr) Naphthalen 0.66 (surr)	
7	BSK120252	855		B-15, 40, 74 A 2, 5, 11, 15 sc	OK	
8	TS908-01MS	856		B-74 A-2, 6, 7, 8, 15, 68	OK	
9	-01MSD	857		A-2, 6, 7, 8, 15 B-74	OK	
10	BLANK	858			Clean up	
11	TS908-01	859			OK	
12	-02	860			OK	
13	-03	861			OK	
14	-04	862			OK	
15	-05	863			Not purged	
16	-06	864			Not purged	
17	-07	865			Not purged	
18	BLANK	866			Clean up	
19	TS926-04RE	867			INTD SS & Compn	
20	-05	868			INTD SS	VK000952

Manual Integration key:

Poor Resolution of peaks exhibited on chromatograms **(A)**
Peak Integrated by software incorrectly **(B)**
Poor Resolution of peaks exhibited on chromatograms **(C)**
Other- explain in the comment section **(D)**

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VK112205 VK0004 SL

Daily Analysis Runlog For GC/MS #: MSVOA K

80 141 16 3694 150511 20691

Start Date: 11/23/05 End Date: 11/23/05 Analyst SG Review By: MS

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
BFB	MSV1- 1220	Initial Calibration Stds.	MSV1- 1303 1320, 1314 1324
CCC	MSV1- N/A	Spike Std.	MSV1- 1303, 1320, 1314 1324
Internal Stds.	MSV1- 1244, 1300	HP Processing Method	82K1235.M
Surrogate Stds.	MSV1- 1243, 1300	ICV	1314, 1313, 1293, 1325

SR. #:	Sample ID	Data File Name	pH	Manual Integration Peak number/ Reason	Comment	RE, DL - Data file
1	BFB Tune Check	VK000462			OK	1.70 DH
2	BFB Tune Check	463			OK	1.41 DH
3	5 PPB ICC	464			OK	
4	5 PPB ICC	465				
5	20 PPB ICC	466			OK	
6	50 PPB ICC	467				
	80 PPB ICC	468				
8	100 PPB ICC	469			OK	
9	150 PPB ICC	470			OK	
10	50 PPB ICC	471			OK	
11	100 PPB ICV	472			OK	
12	VBK 112253	473				
13	VBK 112254	474			OK	
14	BSK 112253	475				
15	BSK 112254	476				
16	T5619-10 BLANK SG	477			SSV Comp	
17	T5684-01	478			SSV	VK000500
18	-02	479			SSV	VK000501
19	-03	480			SSV	VK000502
0	-04	VK000481			SSV	VK000503

Manual Integration key:

Poor Resolution of peaks exhibited on chromatograms (A)
Peak Integrated by software incorrectly (B)
Poor Resolution of peaks exhibited on chromatograms (C)
Other- explain in the comment section (D)

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VK120805 **Daily Analysis Runlog For GC/MS #: MSVOA K**

101233
202072
186486
85076

Start Date: 12/08/05 End Date: 12/08/05 Analyst SA Review By: KP

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
BFB	MSV1- 1270	Initial Calibration Stds.	MSV1- N/A
CCC	MSV1- 1292, 1326, 1305, 1320	Spike Std.	MSV1- 1292, 1326 1305, 1320
Internal Stds.	MSV1- 1244	HP Processing Method	82K1123 5.M
Surrogate Stds.	MSV1- 1243	ICV	NA

SR. #:	Sample ID	Data File Name	pH	Manual Integration Peak number/ Reason	Comment	RE, DL - Data file
1	BFB TUNE CHECK	VK001087			OK	11.03
2	BFB TUNE CHECK	1088			Not Needed	
3	50 ppb CCC	~~VK1207~~ 89		2, 3, 4, 5, 6, 7, 8, 11, 12 15	OK	
4	100 PPB CCC	90			Not Needed	
5	VBK120851	91			OK Naphthalene 0.96	
6	VBK120852	92			Not Needed	
7	T5966-02	93			INT SSV	
8	-04	94			OK	
9	-05	95			OK	
10	-07	96			OK	
11	-08	97			INT SSV	
12	T5908-05SX	98			INT RR	not needed
13	-06SX	99			OK	
14	-07SX	VK001100			INT RR	RE=VK001304
15	T5825-01	101			SSV, Not Needed	
16	T5917-01	102			OK	
17	-02	103			INT SSV	Not sufficient Sample, Encore
18	T5925-01	104			SS Missing RR	
19	-02	105			OK	
20	-03	106			INT RR	

Manual Integration key:

Poor Resolution of peaks exhibited on chromatograms **(A)**
Peak Integrated by software incorrectly **(B)**
Poor Resolution of peaks exhibited on chromatograms **(C)**
Other- explain in the comment section **(D)**

90

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900 39152

VIC121305 **Daily Analysis Runlog For GC/MS #: MSVOA K** 175666 160698 32626

Start Date: 12/13/05 End Date: 12/14/05 Analyst SC Review By:

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
BFB	MSV1- 1290	Initial Calibration Stds.	MSV1-
CCC	MSV1- 1336, 1320 1303, 1328, 1330	Spike Std.	MSV1- 1336, 1320 1303, 1328, 1330
Internal Stds.	MSV1- 1244	HP Processing Method	8260121205.M
Surrogate Stds.	MSV1- 1243	ICV	

SR. #:	Sample ID	Data File Name	pH	Manual Integration Peak number/ Reason	Comment	RE, DL - Data file
1	BFB TUNE CHECK	VIC001290			OK	2:12
2	BFB TUNE CHECK	1291				
3	50 PPB CCC	92				
4	100 PPB CCC	93		B-7 A-2,6,8,9,12,14,15	OK	
5	VBLK12135	94				
6	VBLK121352	95			OK	
	T6030-01 RESX	96			INITIAL CONT	
8	↓ -04RESX	97			NOT purged	
9	T5930-01	98			dint, dsurr	
10	↓ -02	299			dint, dsurr	
11	-03	VIC001300			dsurr EtOH mix	rr meoh
12	↓ -04	301			dint, dsurr	
13	T6030-04RE 10X	302			OK	
14	T5908-05RESX	303			OK	
15	↓ -07RESX	304			dsurr for ref.	
16	T5935-01RE	305				
17	↓ -03RE	306				
18	-04RE	307				
19	↓ -06RE	308				
	↓ -07RE	309				

Manual Integration key:

Poor Resolution of peaks exhibited on chromatograms **(A)**
Peak Integrated by software incorrectly **(B)**
Poor Resolution of peaks exhibited on chromatograms **(C)**
Other- explain in the comment section **(D)**

91

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

267479
381657
336451
153592

VH120505

Daily Analysis Runlog For GC/MS #: MSVOA H

Start Date: 12/05/05 End Date: 12/06/05 Analyst KP Review By: MS

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
BFB	MSV1- 1270	Initial Calibration Stds.	MSV1- 1326, 1328, 1330 1303, 1320
CCC	MSV1- ~~1326, 1328, 1330~~ N/A KP 1303, 1320 12/6	Spike Std.	MSV1- N/A
Internal Stds.	MSV1- 1329	HP Processing Method	82H1205.m
Surrogate Stds.	MSV1- 1329	ICV	1293

SR. #:	Sample ID	Data File Name	pH	Manual Integration Peak number/ Reason	Comment	RE, DL - Data file
1	BFB TUNE CHECK	VH000854			OK 1215 5:06PM	
2	50 PPB ICC	855		3A, 7A, 34A, 69A	OK	
3	10 PPB ICC	856		3A, 7A	OK	
4	1 PPB ICC	857		~~3A~~ KP 12/6	NOT NEEDED	
5	1 PPB ICC	858		A: 2, 3, 7, 14, 16, 22, 25 27 B: 6, 66, 77, 81	OK	
6	5 PPB ICC	859			NOT NEEDED	
7	20 PPB ICC	860			NOT NEEDED	
8	100 PPB ICC	861		3A, 4A, 7A, 8A, 10A, 11A, 22A	OK	
9	150 PPB ICC	862			NOT NEEDED	
10	200 PPB ICC	863		3A, 7A, 11A, 15A, 18A, 66A, 14B	OK	
11	100 PPB ICV	864		7A	OK	
12	VBH1205W1	865			NOT NEEDED	
13	VBH1205W2	866			OK c	
14	VBH1205M1	867			OK c	
15	T5854-10	868			OK	
16	-10DL 10X	869			NOT NEEDED	
17	-10 DL 100X	870			NOT NEEDED	
18	-08F 10X	871			OK	
19	-08 DL 100X	872			NOT NEEDED	
20	BLANK	VH000873			clean up	

Manual Integration key:

Poor Resolution of peaks exhibited on chromatograms (A)
Peak Integrated by software incorrectly (B)
Poor Resolution of peaks exhibited on chromatograms (C)
Other- explain in the comment section (D)

92

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900 304974 429702 366672 162763

VH120605 **Daily Analysis Runlog For GC/MS #: MSVOA H**

Start Date: 12/07/05 End Date: 12/07/05 Analyst KP Review By: MS

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
BFB	MSV1- 1270	Initial Calibration Stds.	MSV1- N/A
CCC	MSV1- 1326, 1328, 1330 1303, 1320	Spike Std.	MSV1- 1326, 1328, 1330 1303, 1320
Internal Stds.	MSV1- 1329	HP Processing Method	S2H1205.M
Surrogate Stds.	MSV1- 1329	ICV	N/A

SR. #:	Sample ID	Data File Name	pH	Manual Integration Peak number/ Reason	Comment	RE, DL - Data file
1	BFB TUNE CHECK	VH0000931			OK 12/7 2:29 AM	
2	50PPBCCC	932		7A	OK	
3	50 PPB CCC	933			NOT NEEDED	
4	VBH1206W3	934			NOT NEEDED	
5	VBH1206W4	935			OK c	
6	VBH1206M2	936			OK c	
7	BSH1206W4	937		2A,7A	OK 11,20,23,55	
8	BSH1206W5	938		2A,7A	OK 16,20,27,55	
9	T5954-10A	939	<2		OK	
10	-02A	940	<2		OK, RR 10X	VH000971
11	-05A	941	<2		OK, RR STR-fo..nt	
12	-12A	942	<2		OK	
13	-15A	943	<2		OK	
14	-19A	944	<2		OK	
15	T5990-03A	945	<2		OK, RR 5X&25X	VH000972
16	T5907-02A	946	<2		OK, RR STR-fo..nt	
17	T5959-02A	947	<2		OK	
18	-04A	948	<2		OK, RR 5X	VH000974
19	-06A	949	<2		OK	
20	-08A	VH000950	<2		OK	

Manual Integration key:

Poor Resolution of peaks exhibited on chromatograms (A)
Peak Integrated by software incorrectly (B)
Poor Resolution of peaks exhibited on chromatograms (C)
Other- explain in the comment section (D)

93

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900 317851

VH120705 **Daily Analysis Runlog For GC/MS #: MSVOA H** 436675 382717 173258

Start Date: 12/07/05 End Date: 12/08/05 Analyst KP Review By: MS

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
BFB	MSV1- 1270	Initial Calibration Stds.	MSV1- N/A
CCC	MSV1- 1326, 1328, 1330 1303, 1320	Spike Std.	MSV1- 1326, 1328, 1330 1303, 1320
Internal Stds.	MSV1- 1329	HP Processing Method	82H1205.M
Surrogate Stds.	MSV1- 1329	ICV	N/A

SR. #:	Sample ID	Data File Name	pH	Manual Integration Peak number/ Reason	Comment	RE, DL - Data file
1	BFB TUNE CHECK	VH000958			OK 12/7 2:15PM	
2	50 PPB CCC	959		7A	OK	
3	VBH1207W1	960			NOT NEEDED	
4	VBH1207W2	961			OK c	
5	VBH1207M1	962			OK c	
6	T5908-09A	963	<2		OK	
7	T5908-08A	964	<2		OK	
8	T6004-10	965			OK	
9	BSH1207M1	966		7A	OK 8,14	
10	T5614-02MS 5X	967		7A	OK	
11	T5614-02MSD 5X	968		7A	OK	
12	T5907-02B	969	<2		OK	
13	T5954-05B	970	<2		OK	
14	T5954-02BDL10X	971	<2		OK	
15	T5990-03B DL 5X	972	<2		OK, RR 25X	VH000973
16	T5990-03B DL 25X	973	<2		OK	
17	T5959-04B DL 5X	974	<2		OK	
18	T6040-01	975			OK	
19	-02	976			OK	
20	-03	VH000977			OK	

Manual Integration key:

Poor Resolution of peaks exhibited on chromatograms (A)
Peak Integrated by software incorrectly (B)
Poor Resolution of peaks exhibited on chromatograms (C)
Other- explain in the comment section (D)

94

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092
NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: T5908 MATRIX: Water

METHOD: 8260

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
a.	Calibration Check Compounds for 8260 and CLP.			✓
b.	System Performance Check Compounds for 8260 and CLP			✓

8260 CALIBRATION CRITERIA

SPCC Compounds	MIN RF	CCC Compounds
Chloromethane	0.1	1,1-Dichloroethene
1,1-Dichloroethane	0.1	Chloroform
Bromoform	0.1	1,2-Dichloropropane
Chlorobenzene	0.3	Toluene
1,1,2,2-Tetrachloroethane	0.3	Ethylbenzene
Vinyl chloride		

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%
For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for S-6RE.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The MS recoveries met the requirements for all compounds except for Carbon Disulfide, 1,2-Dichloroethane, 4-Methyl-2-Pentanone, t-1,3-Dichloropropene, 1,1,2-Trichloroethane, 2-Hexanone, Dibromochloromethane and Bromoform. The MSD recoveries met the acceptable requirements except for Carbon Disulfide, 1,2-Dichloroethane, t-1,3-Dichloropropene and 2-Hexanone.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria		✓	
	Comments: The Internal Standards Areas met the acceptable requirements except for S-6.			
10.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS: 1,2-Dichloropropane has % RSD out of recovery limit in continuing calibration check standard, however this compound is not present in any sample.

Martha Guerra
QA REVIEW

12/16/05
Date

5.0 SEMI-VOLATILE SAMPLE RESULTS

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	S-1	**SDG No.:**	T5908
Lab Sample ID:	T5908-01	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	6
Sample Wt/Vol:	30.2 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE027497.D	1	12/2/2005	12/4/2005	BE111605

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	46	U	880	46	ug/Kg
83-32-9	Acenaphthene	62	U	350	62	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	880	300	ug/Kg
100-02-7	4-Nitrophenol	43	U	880	43	ug/Kg
132-64-9	Dibenzofuran	58	U	350	58	ug/Kg
121-14-2	2,4-Dinitrotoluene	51	U	350	51	ug/Kg
84-66-2	Diethylphthalate	60	U	350	60	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	55	U	350	55	ug/Kg
86-73-7	Fluorene	59	U	350	59	ug/Kg
100-01-6	4-Nitroaniline	60	U	880	60	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	68	U	880	68	ug/Kg
86-30-6	N-Nitrosodiphenylamine	58	U	350	58	ug/Kg
101-55-3	4-Bromophenyl-phenylether	52	U	350	52	ug/Kg
118-74-1	Hexachlorobenzene	56	U	350	56	ug/Kg
87-86-5	Pentachlorophenol	81	U	880	81	ug/Kg
85-01-8	Phenanthrene	56	U	350	56	ug/Kg
120-12-7	Anthracene	53	U	350	53	ug/Kg
86-74-8	Carbazole	53	U	350	53	ug/Kg
84-74-2	Di-n-butylphthalate	53	U	350	53	ug/Kg
206-44-0	Fluoranthene	52	U	350	52	ug/Kg
129-00-0	Pyrene	62	U	350	62	ug/Kg
85-68-7	Butylbenzylphthalate	57	U	350	57	ug/Kg
91-94-1	3,3-Dichlorobenzidine	60	U	350	60	ug/Kg
56-55-3	Benzo(a)anthracene	49	U	350	49	ug/Kg
218-01-9	Chrysene	63	U	350	63	ug/Kg
117-81-7	bis(2-Ethylhexyl)phthalate	67	U	350	67	ug/Kg
117-84-0	Di-n-octyl phthalate	59	U	350	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	38	U	350	38	ug/Kg
207-08-9	Benzo(k)fluoranthene	77	U	350	77	ug/Kg
50-32-8	Benzo(a)pyrene	56	U	350	56	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	350	44	ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	S-1	**SDG No.:**	T5908
Lab Sample ID:	T5908-01	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	6
Sample Wt/Vol:	30.2 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE027497.D	1	12/2/2005	12/4/2005	BE111605

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
108-95-2	Phenol	53	U	350	53	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	55	U	350	55	ug/Kg
95-57-8	2-Chlorophenol	56	U	350	56	ug/Kg
95-50-1	1,2-Dichlorobenzene	53	U	350	53	ug/Kg
541-73-1	1,3-Dichlorobenzene	55	U	350	55	ug/Kg
106-46-7	1,4-Dichlorobenzene	61	U	350	61	ug/Kg
95-48-7	2-Methylphenol	58	U	350	58	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	56	U	350	56	ug/Kg
106-44-5	3+4-Methylphenols	55	U	350	55	ug/Kg
621-64-7	N-Nitroso-di-n-propylamine	58	U	350	58	ug/Kg
67-72-1	Hexachloroethane	59	U	350	59	ug/Kg
98-95-3	Nitrobenzene	76	U	350	76	ug/Kg
78-59-1	Isophorone	52	U	350	52	ug/Kg
88-75-5	2-Nitrophenol	54	U	350	54	ug/Kg
105-67-9	2,4-Dimethylphenol	55	U	350	55	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	57	U	350	57	ug/Kg
120-83-2	2,4-Dichlorophenol	65	U	350	65	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	60	U	350	60	ug/Kg
91-20-3	Naphthalene	60	U	350	60	ug/Kg
106-47-8	4-Chloroaniline	42	U	350	42	ug/Kg
87-68-3	Hexachlorobutadiene	54	U	350	54	ug/Kg
59-50-7	4-Chloro-3-methylphenol	48	U	350	48	ug/Kg
91-57-6	2-Methylnaphthalene	58	U	350	58	ug/Kg
77-47-4	Hexachlorocyclopentadiene	56	U	350	56	ug/Kg
88-06-2	2,4,6-Trichlorophenol	51	U	350	51	ug/Kg
95-95-4	2,4,5-Trichlorophenol	53	U	880	53	ug/Kg
91-58-7	2-Chloronaphthalene	58	U	350	58	ug/Kg
88-74-4	2-Nitroaniline	44	U	880	44	ug/Kg
131-11-3	Dimethylphthalate	56	U	350	56	ug/Kg
208-96-8	Acenaphthylene	57	U	350	57	ug/Kg
606-20-2	2,6-Dinitrotoluene	49	U	350	49	ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	S-1	**SDG No.:**	T5908
Lab Sample ID:	T5908-01	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	6
Sample Wt/Vol:	30.2 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE027497.D	1	12/2/2005	12/4/2005	BE111605

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	58	U	350	58	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	204.46	68 %	25 - 121		SPK: 30
13127-88-3	Phenol-d5	174.96	58 %	24 - 113		SPK: 30
4165-60-0	Nitrobenzene-d5	133.17	67 %	23 - 120		SPK: 20
321-60-8	2-Fluorobiphenyl	123.51	62 %	30 - 116		SPK: 20
118-79-6	2,4,6-Tribromophenol	206.5	69 %	19 - 122		SPK: 30
1718-51-0	Terphenyl-d14	134.18	67 %	18 - 137		SPK: 20
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	189062	3.97			
1146-65-2	Naphthalene-d8	659742	4.76			
15067-26-2	Acenaphthene-d10	427132	5.88			
1517-22-2	Phenanthrene-d10	630991	6.88			
1719-03-5	Chrysene-d12	664364	9.06			
1520-96-3	Perylene-d12	660697	11.30			
TENTITIVE IDENTIFIED COMPOUNDS						
	ACP2.97	760	A	2.97		ug/Kg
295-65-8	Cyclohexadecane	140	J	8.79		ug/Kg
7683-64-9	Squalene	220	J	10.24		ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	S-1D	**SDG No.:**	T5908
Lab Sample ID:	T5908-02	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	6
Sample Wt/Vol:	30.3 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001098.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
108-95-2	Phenol	53	U	350	53	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	55	U	350	55	ug/Kg
95-57-8	2-Chlorophenol	56	U	350	56	ug/Kg
95-50-1	1,2-Dichlorobenzene	52	U	350	52	ug/Kg
541-73-1	1,3-Dichlorobenzene	55	U	350	55	ug/Kg
106-46-7	1,4-Dichlorobenzene	61	U	350	61	ug/Kg
95-48-7	2-Methylphenol	58	U	350	58	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	56	U	350	56	ug/Kg
106-44-5	3+4-Methylphenols	55	U	350	55	ug/Kg
621-64-7	N-Nitroso-di-n-propylamine	58	U	350	58	ug/Kg
67-72-1	Hexachloroethane	59	U	350	59	ug/Kg
98-95-3	Nitrobenzene	76	U	350	76	ug/Kg
78-59-1	Isophorone	52	U	350	52	ug/Kg
88-75-5	2-Nitrophenol	54	U	350	54	ug/Kg
105-67-9	2,4-Dimethylphenol	55	U	350	55	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	57	U	350	57	ug/Kg
120-83-2	2,4-Dichlorophenol	64	U	350	64	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	60	U	350	60	ug/Kg
91-20-3	Naphthalene	60	U	350	60	ug/Kg
106-47-8	4-Chloroaniline	41	U	350	41	ug/Kg
87-68-3	Hexachlorobutadiene	54	U	350	54	ug/Kg
59-50-7	4-Chloro-3-methylphenol	48	U	350	48	ug/Kg
91-57-6	2-Methylnaphthalene	58	U	350	58	ug/Kg
77-47-4	Hexachlorocyclopentadiene	56	U	350	56	ug/Kg
88-06-2	2,4,6-Trichlorophenol	51	U	350	51	ug/Kg
95-95-4	2,4,5-Trichlorophenol	53	U	870	53	ug/Kg
91-58-7	2-Chloronaphthalene	58	U	350	58	ug/Kg
88-74-4	2-Nitroaniline	44	U	870	44	ug/Kg
131-11-3	Dimethylphthalate	56	U	350	56	ug/Kg
208-96-8	Acenaphthylene	57	U	350	57	ug/Kg
606-20-2	2,6-Dinitrotoluene	49	U	350	49	ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	S-1D	**SDG No.:**	T5908
Lab Sample ID:	T5908-02	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	6
Sample Wt/Vol:	30.3 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001098.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	45	U	870	45	ug/Kg
83-32-9	Acenaphthene	62	U	350	62	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	870	300	ug/Kg
100-02-7	4-Nitrophenol	43	U	870	43	ug/Kg
132-64-9	Dibenzofuran	58	U	350	58	ug/Kg
121-14-2	2,4-Dinitrotoluene	51	U	350	51	ug/Kg
84-66-2	Diethylphthalate	60	U	350	60	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	55	U	350	55	ug/Kg
86-73-7	Fluorene	59	U	350	59	ug/Kg
100-01-6	4-Nitroaniline	60	U	870	60	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	68	U	870	68	ug/Kg
86-30-6	N-Nitrosodiphenylamine	57	U	350	57	ug/Kg
101-55-3	4-Bromophenyl-phenylether	52	U	350	52	ug/Kg
118-74-1	Hexachlorobenzene	56	U	350	56	ug/Kg
87-86-5	Pentachlorophenol	81	U	870	81	ug/Kg
85-01-8	Phenanthrene	56	U	350	56	ug/Kg
120-12-7	Anthracene	53	U	350	53	ug/Kg
86-74-8	Carbazole	53	U	350	53	ug/Kg
84-74-2	Di-n-butylphthalate	53	U	350	53	ug/Kg
206-44-0	Fluoranthene	52	U	350	52	ug/Kg
129-00-0	Pyrene	62	U	350	62	ug/Kg
85-68-7	Butylbenzylphthalate	56	U	350	56	ug/Kg
91-94-1	3,3-Dichlorobenzidine	60	U	350	60	ug/Kg
56-55-3	Benzo(a)anthracene	49	U	350	49	ug/Kg
218-01-9	Chrysene	63	U	350	63	ug/Kg
117-81-7	bis(2-Ethylhexyl)phthalate	67	U	350	67	ug/Kg
117-84-0	Di-n-octyl phthalate	59	U	350	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	38	U	350	38	ug/Kg
207-08-9	Benzo(k)fluoranthene	77	U	350	77	ug/Kg
50-32-8	Benzo(a)pyrene	56	U	350	56	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	350	44	ug/Kg

U = Not Detected
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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/200**
Client Sample ID:	**S-1D**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-02**	**Matrix:**	**SOIL**
Analytical Method:	**8270**	**% Moisture:**	**6**
Sample Wt/Vol:	**30.3 g**	**Extract Vol:**	**1000 uL**

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001098.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	58	U	350	58	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	146.26	49 %	25 - 121		SPK: 30
13127-88-3	Phenol-d5	151.75	51 %	24 - 113		SPK: 30
4165-60-0	Nitrobenzene-d5	116.29	58 %	23 - 120		SPK: 20
321-60-8	2-Fluorobiphenyl	101.64	51 %	30 - 116		SPK: 20
118-79-6	2,4,6-Tribromophenol	164.67	55 %	19 - 122		SPK: 30
1718-51-0	Terphenyl-d14	122.16	61 %	18 - 137		SPK: 20
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	645266	5.00			
1146-65-2	Naphthalene-d8	2394770	6.41			
15067-26-2	Acenaphthene-d10	1287303	8.52			
1517-22-2	Phenanthrene-d10	1885979	10.30			
1719-03-5	Chrysene-d12	1606862	13.54			
1520-96-3	Perylene-d12	1361374	15.38			
TENTITIVE IDENTIFIED COMPOUNDS						
	ACP3.50	810	A	3.50		ug/Kg
6765-39-5	1-Heptadecene	190	J	13.42		ug/Kg
112-95-8	Eicosane	74	J	14.59		ug/Kg
7683-64-9	Squalene	150	J	14.77		ug/Kg

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	S-2	**SDG No.:**	T5908
Lab Sample ID:	T5908-03	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	12
Sample Wt/Vol:	30.1 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001102.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
108-95-2	Phenol	57	U	370	57	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	59	U	370	59	ug/Kg
95-57-8	2-Chlorophenol	60	U	370	60	ug/Kg
95-50-1	1,2-Dichlorobenzene	56	U	370	56	ug/Kg
541-73-1	1,3-Dichlorobenzene	59	U	370	59	ug/Kg
106-46-7	1,4-Dichlorobenzene	66	U	370	66	ug/Kg
95-48-7	2-Methylphenol	62	U	370	62	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	60	U	370	60	ug/Kg
106-44-5	3+4-Methylphenols	59	U	370	59	ug/Kg
621-64-7	N-Nitroso-di-n-propylamine	62	U	370	62	ug/Kg
67-72-1	Hexachloroethane	64	U	370	64	ug/Kg
98-95-3	Nitrobenzene	82	U	370	82	ug/Kg
78-59-1	Isophorone	56	U	370	56	ug/Kg
88-75-5	2-Nitrophenol	58	U	370	58	ug/Kg
105-67-9	2,4-Dimethylphenol	59	U	370	59	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	62	U	370	62	ug/Kg
120-83-2	2,4-Dichlorophenol	69	U	370	69	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	64	U	370	64	ug/Kg
91-20-3	Naphthalene	64	U	370	64	ug/Kg
106-47-8	4-Chloroaniline	45	U	370	45	ug/Kg
87-68-3	Hexachlorobutadiene	58	U	370	58	ug/Kg
59-50-7	4-Chloro-3-methylphenol	52	U	370	52	ug/Kg
91-57-6	2-Methylnaphthalene	63	U	370	63	ug/Kg
77-47-4	Hexachlorocyclopentadiene	60	U	370	60	ug/Kg
88-06-2	2,4,6-Trichlorophenol	55	U	370	55	ug/Kg
95-95-4	2,4,5-Trichlorophenol	57	U	940	57	ug/Kg
91-58-7	2-Chloronaphthalene	62	U	370	62	ug/Kg
88-74-4	2-Nitroaniline	47	U	940	47	ug/Kg
131-11-3	Dimethylphthalate	60	U	370	60	ug/Kg
208-96-8	Acenaphthylene	61	U	370	61	ug/Kg
606-20-2	2,6-Dinitrotoluene	53	U	370	53	ug/Kg

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	S-2	**SDG No.:**	T5908
Lab Sample ID:	T5908-03	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	12
Sample Wt/Vol:	30.1 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001102.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	49	U	940	49	ug/Kg
83-32-9	Acenaphthene	67	U	370	67	ug/Kg
51-28-5	2,4-Dinitrophenol	320	U	940	320	ug/Kg
100-02-7	4-Nitrophenol	46	U	940	46	ug/Kg
132-64-9	Dibenzofuran	62	U	370	62	ug/Kg
121-14-2	2,4-Dinitrotoluene	55	U	370	55	ug/Kg
84-66-2	Diethylphthalate	65	U	370	65	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	59	U	370	59	ug/Kg
86-73-7	Fluorene	63	U	370	63	ug/Kg
100-01-6	4-Nitroaniline	64	U	940	64	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	73	U	940	73	ug/Kg
86-30-6	N-Nitrosodiphenylamine	62	U	370	62	ug/Kg
101-55-3	4-Bromophenyl-phenylether	56	U	370	56	ug/Kg
118-74-1	Hexachlorobenzene	60	U	370	60	ug/Kg
87-86-5	Pentachlorophenol	87	U	940	87	ug/Kg
85-01-8	Phenanthrene	60	U	370	60	ug/Kg
120-12-7	Anthracene	56	U	370	56	ug/Kg
86-74-8	Carbazole	57	U	370	57	ug/Kg
84-74-2	Di-n-butylphthalate	57	U	370	57	ug/Kg
206-44-0	Fluoranthene	100	J	370	56	ug/Kg
129-00-0	Pyrene	79	J	370	66	ug/Kg
85-68-7	Butylbenzylphthalate	60	U	370	60	ug/Kg
91-94-1	3,3-Dichlorobenzidine	64	U	370	64	ug/Kg
56-55-3	Benzo(a)anthracene	52	U	370	52	ug/Kg
218-01-9	Chrysene	67	U	370	67	ug/Kg
117-81-7	bis(2-Ethylhexyl)phthalate	72	U	370	72	ug/Kg
117-84-0	Di-n-octyl phthalate	64	U	370	64	ug/Kg
205-99-2	Benzo(b)fluoranthene	230	J	370	41	ug/Kg
207-08-9	Benzo(k)fluoranthene	82	U	370	82	ug/Kg
50-32-8	Benzo(a)pyrene	60	U	370	60	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	47	U	370	47	ug/Kg

U = Not Detected
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J = Estimated Value
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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/200**
Client Sample ID:	**S-2**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-03**	**Matrix:**	**SOIL**
Analytical Method:	**8270**	**% Moisture:**	**12**
Sample Wt/Vol:	**30.1 g**	**Extract Vol:**	**1000 uL**

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001102.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
53-70-3	Dibenz(a,h)anthracene	47	U	370	47	ug/Kg
191-24-2	Benzo(g,h,i)perylene	62	U	370	62	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	145.93	49 %	25 - 121		SPK: 30
13127-88-3	Phenol-d5	152.09	51 %	24 - 113		SPK: 30
4165-60-0	Nitrobenzene-d5	115.71	58 %	23 - 120		SPK: 20
321-60-8	2-Fluorobiphenyl	103.71	52 %	30 - 116		SPK: 20
118-79-6	2,4,6-Tribromophenol	160.4	53 %	19 - 122		SPK: 30
1718-51-0	Terphenyl-d14	110.96	55 %	18 - 137		SPK: 20
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	718035	5.00			
1146-65-2	Naphthalene-d8	2685497	6.41			
15067-26-2	Acenaphthene-d10	1439945	8.52			
1517-22-2	Phenanthrene-d10	2114773	10.30			
1719-03-5	Chrysene-d12	1825157	13.54			
1520-96-3	Perylene-d12	1463098	15.38			
TENTITIVE IDENTIFIED COMPOUNDS						
	ACP3.50	870	A	3.50		ug/Kg
57-10-3	n-Hexadecanoic acid	170	J	11.04		ug/Kg
88104-31-8	2- Chloropropionic acid, octadecyl	130	J	13.44		ug/Kg
7683-64-9	Squalene	190	J	14.77		ug/Kg

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/200**
Client Sample ID:	**S-3**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-04**	**Matrix:**	**SOIL**
Analytical Method:	**8270**	**% Moisture:**	**11**
Sample Wt/Wol:	**30.3 g**	**Extract Vol:**	**1000 uL**

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001104.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
108-95-2	Phenol	56	U	370	56	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	58	U	370	58	ug/Kg
95-57-8	2-Chlorophenol	59	U	370	59	ug/Kg
95-50-1	1,2-Dichlorobenzene	55	U	370	55	ug/Kg
541-73-1	1,3-Dichlorobenzene	58	U	370	58	ug/Kg
106-46-7	1,4-Dichlorobenzene	65	U	370	65	ug/Kg
95-48-7	2-Methylphenol	61	U	370	61	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	59	U	370	59	ug/Kg
106-44-5	3+4-Methylphenols	58	U	370	58	ug/Kg
621-64-7	N-Nitroso-di-n-propylamine	61	U	370	61	ug/Kg
67-72-1	Hexachloroethane	63	U	370	63	ug/Kg
98-95-3	Nitrobenzene	80	U	370	80	ug/Kg
78-59-1	Isophorone	55	U	370	55	ug/Kg
88-75-5	2-Nitrophenol	57	U	370	57	ug/Kg
105-67-9	2,4-Dimethylphenol	58	U	370	58	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	61	U	370	61	ug/Kg
120-83-2	2,4-Dichlorophenol	68	U	370	68	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	63	U	370	63	ug/Kg
91-20-3	Naphthalene	63	U	370	63	ug/Kg
106-47-8	4-Chloroaniline	44	U	370	44	ug/Kg
87-68-3	Hexachlorobutadiene	57	U	370	57	ug/Kg
59-50-7	4-Chloro-3-methylphenol	51	U	370	51	ug/Kg
91-57-6	2-Methylnaphthalene	62	U	370	62	ug/Kg
77-47-4	Hexachlorocyclopentadiene	59	U	370	59	ug/Kg
88-06-2	2,4,6-Trichlorophenol	54	U	370	54	ug/Kg
95-95-4	2,4,5-Trichlorophenol	56	U	920	56	ug/Kg
91-58-7	2-Chloronaphthalene	61	U	370	61	ug/Kg
88-74-4	2-Nitroaniline	47	U	920	47	ug/Kg
131-11-3	Dimethylphthalate	59	U	370	59	ug/Kg
208-96-8	Acenaphthylene	60	U	370	60	ug/Kg
606-20-2	2,6-Dinitrotoluene	52	U	370	52	ug/Kg

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	S-3	**SDG No.:**	T5908
Lab Sample ID:	T5908-04	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	11
Sample Wt/Vol:	30.3 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001104.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	48	U	920	48	ug/Kg
83-32-9	Acenaphthene	66	U	370	66	ug/Kg
51-28-5	2,4-Dinitrophenol	320	U	920	320	ug/Kg
100-02-7	4-Nitrophenol	46	U	920	46	ug/Kg
132-64-9	Dibenzofuran	61	U	370	61	ug/Kg
121-14-2	2,4-Dinitrotoluene	54	U	370	54	ug/Kg
84-66-2	Diethylphthalate	64	U	370	64	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	58	U	370	58	ug/Kg
86-73-7	Fluorene	62	U	370	62	ug/Kg
100-01-6	4-Nitroaniline	63	U	920	63	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	71	U	920	71	ug/Kg
86-30-6	N-Nitrosodiphenylamine	61	U	370	61	ug/Kg
101-55-3	4-Bromophenyl-phenylether	55	U	370	55	ug/Kg
118-74-1	Hexachlorobenzene	59	U	370	59	ug/Kg
87-86-5	Pentachlorophenol	85	U	920	85	ug/Kg
85-01-8	Phenanthrene	170	J	370	59	ug/Kg
120-12-7	Anthracene	56	U	370	56	ug/Kg
86-74-8	Carbazole	56	U	370	56	ug/Kg
84-74-2	Di-n-butylphthalate	56	U	370	56	ug/Kg
206-44-0	Fluoranthene	270	J	370	55	ug/Kg
129-00-0	Pyrene	220	J	370	65	ug/Kg
85-68-7	Butylbenzylphthalate	60	U	370	60	ug/Kg
91-94-1	3,3-Dichlorobenzidine	63	U	370	63	ug/Kg
56-55-3	Benzo(a)anthracene	100	J	370	52	ug/Kg
218-01-9	Chrysene	120	J	370	66	ug/Kg
117-81-7	bis(2-Ethylhexyl)phthalate	71	U	370	71	ug/Kg
117-84-0	Di-n-octyl phthalate	63	U	370	63	ug/Kg
205-99-2	Benzo(b)fluoranthene	280	J	370	41	ug/Kg
207-08-9	Benzo(k)fluoranthene	81	U	370	81	ug/Kg
50-32-8	Benzo(a)pyrene	98	J	370	59	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	47	U	370	47	ug/Kg

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RL = Reporting Limit
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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/200**
Client Sample ID:	**S-3**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-04**	**Matrix:**	**SOIL**
Analytical Method:	**8270**	**% Moisture:**	**11**
Sample Wt/Vol:	**30.3 g**	**Extract Vol:**	**1000 uL**

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001104.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
53-70-3	Dibenz(a,h)anthracene	46	U	370	46	ug/Kg
191-24-2	Benzo(g,h,i)perylene	61	U	370	61	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	154.88	52 %	25 - 121		SPK: 30
13127-88-3	Phenol-d5	151.23	50 %	24 - 113		SPK: 30
4165-60-0	Nitrobenzene-d5	127.01	64 %	23 - 120		SPK: 20
321-60-8	2-Fluorobiphenyl	111.49	56 %	30 - 116		SPK: 20
118-79-6	2,4,6-Tribromophenol	176.93	59 %	19 - 122		SPK: 30
1718-51-0	Terphenyl-d14	123.89	62 %	18 - 137		SPK: 20
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	684425	5.00			
1146-65-2	Naphthalene-d8	2534134	6.41			
15067-26-2	Acenaphthene-d10	1336472	8.52			
1517-22-2	Phenanthrene-d10	2022564	10.30			
1719-03-5	Chrysene-d12	1660851	13.54			
1520-96-3	Perylene-d12	1250227	15.38			
TENTITIVE IDENTIFIED COMPOUNDS						
	ACP3.50	960	A	3.50		ug/Kg
57-10-3	n-Hexadecanoic acid	160	J	11.04		ug/Kg
27554-26-3	1,2-Benzenedicarboxylic acid, diis	88	J	13.66		ug/Kg
205-99-2	Benz[e]acephenanthrylene	90	J	15.22		ug/Kg

U = Not Detected
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MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	S-4	**SDG No.:**	T5908
Lab Sample ID:	T5908-05	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	12
Sample Wt/Vol:	30.1 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001103.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
108-95-2	Phenol	57	U	370	57	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	59	U	370	59	ug/Kg
95-57-8	2-Chlorophenol	60	U	370	60	ug/Kg
95-50-1	1,2-Dichlorobenzene	56	U	370	56	ug/Kg
541-73-1	1,3-Dichlorobenzene	59	U	370	59	ug/Kg
106-46-7	1,4-Dichlorobenzene	66	U	370	66	ug/Kg
95-48-7	2-Methylphenol	62	U	370	62	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	60	U	370	60	ug/Kg
106-44-5	3+4-Methylphenols	59	U	370	59	ug/Kg
621-64-7	N-Nitroso-di-n-propylamine	62	U	370	62	ug/Kg
67-72-1	Hexachloroethane	64	U	370	64	ug/Kg
98-95-3	Nitrobenzene	82	U	370	82	ug/Kg
78-59-1	Isophorone	56	U	370	56	ug/Kg
88-75-5	2-Nitrophenol	58	U	370	58	ug/Kg
105-67-9	2,4-Dimethylphenol	59	U	370	59	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	62	U	370	62	ug/Kg
120-83-2	2,4-Dichlorophenol	69	U	370	69	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	64	U	370	64	ug/Kg
91-20-3	Naphthalene	64	U	370	64	ug/Kg
106-47-8	4-Chloroaniline	45	U	370	45	ug/Kg
87-68-3	Hexachlorobutadiene	58	U	370	58	ug/Kg
59-50-7	4-Chloro-3-methylphenol	52	U	370	52	ug/Kg
91-57-6	2-Methylnaphthalene	63	U	370	63	ug/Kg
77-47-4	Hexachlorocyclopentadiene	60	U	370	60	ug/Kg
88-06-2	2,4,6-Trichlorophenol	55	U	370	55	ug/Kg
95-95-4	2,4,5-Trichlorophenol	57	U	940	57	ug/Kg
91-58-7	2-Chloronaphthalene	62	U	370	62	ug/Kg
88-74-4	2-Nitroaniline	48	U	940	48	ug/Kg
131-11-3	Dimethylphthalate	60	U	370	60	ug/Kg
208-96-8	Acenaphthylene	61	U	370	61	ug/Kg
606-20-2	2,6-Dinitrotoluene	53	U	370	53	ug/Kg

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	S-4	**SDG No.:**	T5908
Lab Sample ID:	T5908-05	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	12
Sample Wt/Vol:	30.1 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001103.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	49	U	940	49	ug/Kg
83-32-9	Acenaphthene	67	U	370	67	ug/Kg
51-28-5	2,4-Dinitrophenol	320	U	940	320	ug/Kg
100-02-7	4-Nitrophenol	46	U	940	46	ug/Kg
132-64-9	Dibenzofuran	62	U	370	62	ug/Kg
121-14-2	2,4-Dinitrotoluene	55	U	370	55	ug/Kg
84-66-2	Diethylphthalate	65	U	370	65	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	59	U	370	59	ug/Kg
86-73-7	Fluorene	63	U	370	63	ug/Kg
100-01-6	4-Nitroaniline	64	U	940	64	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	73	U	940	73	ug/Kg
86-30-6	N-Nitrosodiphenylamine	62	U	370	62	ug/Kg
101-55-3	4-Bromophenyl-phenylether	56	U	370	56	ug/Kg
118-74-1	Hexachlorobenzene	60	U	370	60	ug/Kg
87-86-5	Pentachlorophenol	87	U	940	87	ug/Kg
85-01-8	Phenanthrene	76	J	370	60	ug/Kg
120-12-7	Anthracene	56	U	370	56	ug/Kg
86-74-8	Carbazole	57	U	370	57	ug/Kg
84-74-2	Di-n-butylphthalate	57	U	370	57	ug/Kg
206-44-0	Fluoranthene	150	J	370	56	ug/Kg
129-00-0	Pyrene	120	J	370	66	ug/Kg
85-68-7	Butylbenzylphthalate	61	U	370	61	ug/Kg
91-94-1	3,3-Dichlorobenzidine	64	U	370	64	ug/Kg
56-55-3	Benzo(a)anthracene	59	J	370	52	ug/Kg
218-01-9	Chrysene	68	J	370	67	ug/Kg
117-81-7	bis(2-Ethylhexyl)phthalate	72	U	370	72	ug/Kg
117-84-0	Di-n-octyl phthalate	64	U	370	64	ug/Kg
205-99-2	Benzo(b)fluoranthene	250	J	370	41	ug/Kg
207-08-9	Benzo(k)fluoranthene	82	U	370	82	ug/Kg
50-32-8	Benzo(a)pyrene	60	U	370	60	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	48	U	370	48	ug/Kg

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Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	S-4	**SDG No.:**	T5908
Lab Sample ID:	T5908-05	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	12
Sample Wt/Vol:	30.1 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001103.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
53-70-3	Dibenz(a,h)anthracene	47	U	370	47	ug/Kg
191-24-2	Benzo(g,h,i)perylene	62	U	370	62	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	173.71	58 %	25 - 121		SPK: 30
13127-88-3	Phenol-d5	173.29	58 %	24 - 113		SPK: 30
4165-60-0	Nitrobenzene-d5	140.57	70 %	23 - 120		SPK: 20
321-60-8	2-Fluorobiphenyl	124.16	62 %	30 - 116		SPK: 20
118-79-6	2,4,6-Tribromophenol	197.26	66 %	19 - 122		SPK: 30
1718-51-0	Terphenyl-d14	135.99	68 %	18 - 137		SPK: 20
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	643066	5.00			
1146-65-2	Naphthalene-d8	2409744	6.41			
15067-26-2	Acenaphthene-d10	1278453	8.52			
1517-22-2	Phenanthrene-d10	1952739	10.30			
1719-03-5	Chrysene-d12	1621910	13.53			
1520-96-3	Perylene-d12	1300434	15.38			
TENTITIVE IDENTIFIED COMPOUNDS						
	ACP3.50	1100	A	3.50		ug/Kg
57-10-3	n-Hexadecanoic acid	170	J	11.04		ug/Kg
95008-11-0	10-Heneicosene (c,t)	140	J	13.44		ug/Kg
7683-64-9	Squalene	140	J	14.77		ug/Kg

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Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	S-5	**SDG No.:**	T5908
Lab Sample ID:	T5908-06	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	6
Sample Wt/Vol:	30.3 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE027498.D	1	12/2/2005	12/4/2005	BE111605

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
108-95-2	Phenol	53	U	350	53	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	55	U	350	55	ug/Kg
95-57-8	2-Chlorophenol	56	U	350	56	ug/Kg
95-50-1	1,2-Dichlorobenzene	52	U	350	52	ug/Kg
541-73-1	1,3-Dichlorobenzene	55	U	350	55	ug/Kg
106-46-7	1,4-Dichlorobenzene	61	U	350	61	ug/Kg
95-48-7	2-Methylphenol	58	U	350	58	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	56	U	350	56	ug/Kg
106-44-5	3+4-Methylphenols	55	U	350	55	ug/Kg
621-64-7	N-Nitroso-di-n-propylamine	58	U	350	58	ug/Kg
67-72-1	Hexachloroethane	59	U	350	59	ug/Kg
98-95-3	Nitrobenzene	76	U	350	76	ug/Kg
78-59-1	Isophorone	52	U	350	52	ug/Kg
88-75-5	2-Nitrophenol	54	U	350	54	ug/Kg
105-67-9	2,4-Dimethylphenol	55	U	350	55	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	57	U	350	57	ug/Kg
120-83-2	2,4-Dichlorophenol	64	U	350	64	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	59	U	350	59	ug/Kg
91-20-3	Naphthalene	59	U	350	59	ug/Kg
106-47-8	4-Chloroaniline	41	U	350	41	ug/Kg
87-68-3	Hexachlorobutadiene	54	U	350	54	ug/Kg
59-50-7	4-Chloro-3-methylphenol	48	U	350	48	ug/Kg
91-57-6	2-Methylnaphthalene	58	U	350	58	ug/Kg
77-47-4	Hexachlorocyclopentadiene	56	U	350	56	ug/Kg
88-06-2	2,4,6-Trichlorophenol	51	U	350	51	ug/Kg
95-95-4	2,4,5-Trichlorophenol	53	U	870	53	ug/Kg
91-58-7	2-Chloronaphthalene	58	U	350	58	ug/Kg
88-74-4	2-Nitroaniline	44	U	870	44	ug/Kg
131-11-3	Dimethylphthalate	56	U	350	56	ug/Kg
208-96-8	Acenaphthylene	57	U	350	57	ug/Kg
606-20-2	2,6-Dinitrotoluene	49	U	350	49	ug/Kg

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	S-5	**SDG No.:**	T5908
Lab Sample ID:	T5908-06	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	6
Sample Wt/Wol:	30.3 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE027498.D	1	12/2/2005	12/4/2005	BE111605

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	45	U	870	45	ug/Kg
83-32-9	Acenaphthene	62	U	350	62	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	870	300	ug/Kg
100-02-7	4-Nitrophenol	43	U	870	43	ug/Kg
132-64-9	Dibenzofuran	58	U	350	58	ug/Kg
121-14-2	2,4-Dinitrotoluene	51	U	350	51	ug/Kg
84-66-2	Diethylphthalate	60	U	350	60	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	55	U	350	55	ug/Kg
86-73-7	Fluorene	59	U	350	59	ug/Kg
100-01-6	4-Nitroaniline	59	U	870	59	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	68	U	870	68	ug/Kg
86-30-6	N-Nitrosodiphenylamine	57	U	350	57	ug/Kg
101-55-3	4-Bromophenyl-phenylether	52	U	350	52	ug/Kg
118-74-1	Hexachlorobenzene	56	U	350	56	ug/Kg
87-86-5	Pentachlorophenol	81	U	870	81	ug/Kg
85-01-8	Phenanthrene	55	U	350	55	ug/Kg
120-12-7	Anthracene	53	U	350	53	ug/Kg
86-74-8	Carbazole	53	U	350	53	ug/Kg
84-74-2	Di-n-butylphthalate	53	U	350	53	ug/Kg
206-44-0	Fluoranthene	52	U	350	52	ug/Kg
129-00-0	Pyrene	62	U	350	62	ug/Kg
85-68-7	Butylbenzylphthalate	56	U	350	56	ug/Kg
91-94-1	3,3-Dichlorobenzidine	60	U	350	60	ug/Kg
56-55-3	Benzo(a)anthracene	49	U	350	49	ug/Kg
218-01-9	Chrysene	63	U	350	63	ug/Kg
117-81-7	bis(2-Ethylhexyl)phthalate	67	U	350	67	ug/Kg
117-84-0	Di-n-octyl phthalate	59	U	350	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	38	U	350	38	ug/Kg
207-08-9	Benzo(k)fluoranthene	77	U	350	77	ug/Kg
50-32-8	Benzo(a)pyrene	56	U	350	56	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	350	44	ug/Kg

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Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	S-5	**SDG No.:**	T5908
Lab Sample ID:	T5908-06	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	6
Sample Wt/Vol:	30.3 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE027498.D	1	12/2/2005	12/4/2005	BE111605

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	58	U	350	58	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	192.7	64 %	25 - 121		SPK: 30
13127-88-3	Phenol-d5	167.36	56 %	24 - 113		SPK: 30
4165-60-0	Nitrobenzene-d5	127.27	64 %	23 - 120		SPK: 20
321-60-8	2-Fluorobiphenyl	111.48	56 %	30 - 116		SPK: 20
118-79-6	2,4,6-Tribromophenol	191.65	64 %	19 - 122		SPK: 30
1718-51-0	Terphenyl-d14	131.23	66 %	18 - 137		SPK: 20
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	199639	3.97			
1146-65-2	Naphthalene-d8	693839	4.76			
15067-26-2	Acenaphthene-d10	458555	5.88			
1517-22-2	Phenanthrene-d10	673802	6.88			
1719-03-5	Chrysene-d12	702642	9.03			
1520-96-3	Perylene-d12	717276	11.26			
TENTITIVE IDENTIFIED COMPOUNDS						
	ACP2.97	710	A	2.97		ug/Kg
1599-67-3	1-Docosene	130	J	8.77		ug/Kg
7683-64-9	Squalene	160	J	10.20		ug/Kg

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	S-6	**SDG No.:**	T5908
Lab Sample ID:	T5908-07	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	6
Sample Wt/Vol:	30.2 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001100.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
108-95-2	Phenol	53	U	350	53	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	55	U	350	55	ug/Kg
95-57-8	2-Chlorophenol	56	U	350	56	ug/Kg
95-50-1	1,2-Dichlorobenzene	53	U	350	53	ug/Kg
541-73-1	1,3-Dichlorobenzene	55	U	350	55	ug/Kg
106-46-7	1,4-Dichlorobenzene	61	U	350	61	ug/Kg
95-48-7	2-Methylphenol	58	U	350	58	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	56	U	350	56	ug/Kg
106-44-5	3+4-Methylphenols	55	U	350	55	ug/Kg
621-64-7	N-Nitroso-di-n-propylamine	58	U	350	58	ug/Kg
67-72-1	Hexachloroethane	59	U	350	59	ug/Kg
98-95-3	Nitrobenzene	76	U	350	76	ug/Kg
78-59-1	Isophorone	52	U	350	52	ug/Kg
88-75-5	2-Nitrophenol	54	U	350	54	ug/Kg
105-67-9	2,4-Dimethylphenol	55	U	350	55	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	57	U	350	57	ug/Kg
120-83-2	2,4-Dichlorophenol	65	U	350	65	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	60	U	350	60	ug/Kg
91-20-3	Naphthalene	60	U	350	60	ug/Kg
106-47-8	4-Chloroaniline	42	U	350	42	ug/Kg
87-68-3	Hexachlorobutadiene	54	U	350	54	ug/Kg
59-50-7	4-Chloro-3-methylphenol	48	U	350	48	ug/Kg
91-57-6	2-Methylnaphthalene	58	U	350	58	ug/Kg
77-47-4	Hexachlorocyclopentadiene	56	U	350	56	ug/Kg
88-06-2	2,4,6-Trichlorophenol	51	U	350	51	ug/Kg
95-95-4	2,4,5-Trichlorophenol	53	U	880	53	ug/Kg
91-58-7	2-Chloronaphthalene	58	U	350	58	ug/Kg
88-74-4	2-Nitroaniline	44	U	880	44	ug/Kg
131-11-3	Dimethylphthalate	56	U	350	56	ug/Kg
208-96-8	Acenaphthylene	57	U	350	57	ug/Kg
606-20-2	2,6-Dinitrotoluene	49	U	350	49	ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	S-6	**SDG No.:**	T5908
Lab Sample ID:	T5908-07	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	6
Sample Wt/Vol:	30.2 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001100.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	45	U	880	45	ug/Kg
83-32-9	Acenaphthene	62	U	350	62	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	880	300	ug/Kg
100-02-7	4-Nitrophenol	43	U	880	43	ug/Kg
132-64-9	Dibenzofuran	58	U	350	58	ug/Kg
121-14-2	2,4-Dinitrotoluene	51	U	350	51	ug/Kg
84-66-2	Diethylphthalate	60	U	350	60	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	55	U	350	55	ug/Kg
86-73-7	Fluorene	59	U	350	59	ug/Kg
100-01-6	4-Nitroaniline	60	U	880	60	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	68	U	880	68	ug/Kg
86-30-6	N-Nitrosodiphenylamine	58	U	350	58	ug/Kg
101-55-3	4-Bromophenyl-phenylether	52	U	350	52	ug/Kg
118-74-1	Hexachlorobenzene	56	U	350	56	ug/Kg
87-86-5	Pentachlorophenol	81	U	880	81	ug/Kg
85-01-8	Phenanthrene	56	U	350	56	ug/Kg
120-12-7	Anthracene	53	U	350	53	ug/Kg
86-74-8	Carbazole	53	U	350	53	ug/Kg
84-74-2	Di-n-butylphthalate	53	U	350	53	ug/Kg
206-44-0	Fluoranthene	52	U	350	52	ug/Kg
129-00-0	Pyrene	62	U	350	62	ug/Kg
85-68-7	Butylbenzylphthalate	56	U	350	56	ug/Kg
91-94-1	3,3-Dichlorobenzidine	60	U	350	60	ug/Kg
56-55-3	Benzo(a)anthracene	49	U	350	49	ug/Kg
218-01-9	Chrysene	63	U	350	63	ug/Kg
117-81-7	bis(2-Ethylhexyl)phthalate	67	U	350	67	ug/Kg
117-84-0	Di-n-octyl phthalate	59	U	350	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	190	J	350	38	ug/Kg
207-08-9	Benzo(k)fluoranthene	77	U	350	77	ug/Kg
50-32-8	Benzo(a)pyrene	56	U	350	56	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	350	44	ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/200**
Client Sample ID:	**S-6**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-07**	**Matrix:**	**SOIL**
Analytical Method:	**8270**	**% Moisture:**	**6**
Sample Wt/Vol:	**30.2 g**	**Extract Vol:**	**1000 uL**

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001100.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	58	U	350	58	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	137.54	46 %	25 - 121		SPK: 30
13127-88-3	Phenol-d5	138.04	46 %	24 - 113		SPK: 30
4165-60-0	Nitrobenzene-d5	107.8	54 %	23 - 120		SPK: 20
321-60-8	2-Fluorobiphenyl	97.66	49 %	30 - 116		SPK: 20
118-79-6	2,4,6-Tribromophenol	159.02	53 %	19 - 122		SPK: 30
1718-51-0	Terphenyl-d14	120.07	60 %	18 - 137		SPK: 20
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	671941	5.00			
1146-65-2	Naphthalene-d8	2502133	6.41			
15067-26-2	Acenaphthene-d10	1326997	8.52			
1517-22-2	Phenanthrene-d10	1970057	10.30			
1719-03-5	Chrysene-d12	1659794	13.52			
1520-96-3	Perylene-d12	1455685	15.38			
TENTITIVE IDENTIFIED COMPOUNDS						
	ACP3.50	740	A	3.50		ug/Kg
57-10-3	n-Hexadecanoic acid	120	J	11.04		ug/Kg
77899-03-7	1-Heneicosyl formate	150	J	13.43		ug/Kg
7683-64-9	Squalene	320	J	14.77		ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	FIELDBLANK	**SDG No.:**	T5908
Lab Sample ID:	T5908-08	**Matrix:**	WATER
Analytical Method:	8270	**% Moisture:**	100
Sample Wt/Vol:	980.0 mL	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB027446.D	1	11/29/2005	11/30/2005	BB111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
108-95-2	Phenol	1.3	U	10	1.3	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.5	U	10	1.5	ug/L
95-57-8	2-Chlorophenol	1.2	U	10	1.2	ug/L
95-50-1	1,2-Dichlorobenzene	1.2	U	10	1.2	ug/L
541-73-1	1,3-Dichlorobenzene	1.2	U	10	1.2	ug/L
106-46-7	1,4-Dichlorobenzene	1.2	U	10	1.2	ug/L
95-48-7	2-Methylphenol	1.5	U	10	1.5	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.2	U	10	1.2	ug/L
106-44-5	3+4-Methylphenols	1.3	U	10	1.3	ug/L
621-64-7	N-Nitroso-di-n-propylamine	1.4	U	10	1.4	ug/L
67-72-1	Hexachloroethane	1.2	U	10	1.2	ug/L
98-95-3	Nitrobenzene	1.6	U	10	1.6	ug/L
78-59-1	Isophorone	1.3	U	10	1.3	ug/L
88-75-5	2-Nitrophenol	1.4	U	10	1.4	ug/L
105-67-9	2,4-Dimethylphenol	1.2	U	10	1.2	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.4	U	10	1.4	ug/L
120-83-2	2,4-Dichlorophenol	1.5	U	10	1.5	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.4	U	10	1.4	ug/L
91-20-3	Naphthalene	1.4	U	10	1.4	ug/L
106-47-8	4-Chloroaniline	0.880	U	10	0.880	ug/L
87-68-3	Hexachlorobutadiene	1.4	U	10	1.4	ug/L
59-50-7	4-Chloro-3-methylphenol	1.4	U	10	1.4	ug/L
91-57-6	2-Methylnaphthalene	1.1	U	10	1.1	ug/L
77-47-4	Hexachlorocyclopentadiene	1.2	U	10	1.2	ug/L
88-06-2	2,4,6-Trichlorophenol	1.2	U	10	1.2	ug/L
95-95-4	2,4,5-Trichlorophenol	1.2	U	10	1.2	ug/L
91-58-7	2-Chloronaphthalene	1.4	U	10	1.4	ug/L
88-74-4	2-Nitroaniline	1.1	U	10	1.1	ug/L
131-11-3	Dimethylphthalate	1.3	U	10	1.3	ug/L
208-96-8	Acenaphthylene	1.3	U	10	1.3	ug/L
606-20-2	2,6-Dinitrotoluene	1.3	U	10	1.3	ug/L

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	**11/28/2005**
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	**11/28/200**
Client Sample ID:	**FIELDBLANK**	**SDG No.:**	**T5908**
Lab Sample ID:	**T5908-08**	**Matrix:**	**WATER**
Analytical Method:	**8270**	**% Moisture:**	**100**
Sample Wt/Wol:	**980.0 mL**	**Extract Vol:**	**1000 uL**

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB027446.D	1	11/29/2005	11/30/2005	BB111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	1.0	U	10	1.0	ug/L
83-32-9	Acenaphthene	1.4	U	10	1.4	ug/L
51-28-5	2,4-Dinitrophenol	3.6	U	10	3.6	ug/L
100-02-7	4-Nitrophenol	3.2	U	10	3.2	ug/L
132-64-9	Dibenzofuran	1.3	U	10	1.3	ug/L
121-14-2	2,4-Dinitrotoluene	1.2	U	10	1.2	ug/L
84-66-2	Diethylphthalate	1.4	U	10	1.4	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.4	U	10	1.4	ug/L
86-73-7	Fluorene	1.4	U	10	1.4	ug/L
100-01-6	4-Nitroaniline	1.1	U	10	1.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.6	U	10	1.6	ug/L
86-30-6	N-Nitrosodiphenylamine	1.3	U	10	1.3	ug/L
101-55-3	4-Bromophenyl-phenylether	1.5	U	10	1.5	ug/L
118-74-1	Hexachlorobenzene	1.2	U	10	1.2	ug/L
87-86-5	Pentachlorophenol	1.6	U	10	1.6	ug/L
85-01-8	Phenanthrene	1.4	U	10	1.4	ug/L
120-12-7	Anthracene	1.4	U	10	1.4	ug/L
86-74-8	Carbazole	1.3	U	10	1.3	ug/L
84-74-2	Di-n-butylphthalate	1.3	U	10	1.3	ug/L
206-44-0	Fluoranthene	1.2	U	10	1.2	ug/L
129-00-0	Pyrene	1.5	U	10	1.5	ug/L
85-68-7	Butylbenzylphthalate	1.5	U	10	1.5	ug/L
91-94-1	3,3-Dichlorobenzidine	1.1	U	10	1.1	ug/L
56-55-3	Benzo(a)anthracene	1.1	U	10	1.1	ug/L
218-01-9	Chrysene	1.7	U	10	1.7	ug/L
117-81-7	bis(2-Ethylhexyl)phthalate	1.6	U	10	1.6	ug/L
117-84-0	Di-n-octyl phthalate	1.3	U	10	1.3	ug/L
205-99-2	Benzo(b)fluoranthene	0.760	U	10	0.760	ug/L
207-08-9	Benzo(k)fluoranthene	1.9	U	10	1.9	ug/L
50-32-8	Benzo(a)pyrene	1.2	U	10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.840	U	10	0.840	ug/L

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	11/28/2005
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	11/28/200
Client Sample ID:	FIELDBLANK	**SDG No.:**	T5908
Lab Sample ID:	T5908-08	**Matrix:**	WATER
Analytical Method:	8270	**% Moisture:**	100
Sample Wt/Vol:	980.0 mL	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB027446.D	1	11/29/2005	11/30/2005	BB111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
53-70-3	Dibenz(a,h)anthracene	0.880	U	10	0.880	ug/L
191-24-2	Benzo(g,h,i)perylene	1.1	U	10	1.1	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	83.43	28 %	21 - 100		SPK: 30
13127-88-3	Phenol-d5	52.22	17 %	10 - 94		SPK: 30
4165-60-0	Nitrobenzene-d5	168.53	84 %	35 - 114		SPK: 20
321-60-8	2-Fluorobiphenyl	136.65	68 %	43 - 116		SPK: 20
118-79-6	2,4,6-Tribromophenol	203.81	68 %	10 - 123		SPK: 30
1718-51-0	Terphenyl-d14	152.09	76 %	33 - 141		SPK: 20
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	417147	6.53			
1146-65-2	Naphthalene-d8	1519730	8.85			
15067-26-2	Acenaphthene-d10	971880	12.31			
1517-22-2	Phenanthrene-d10	1434523	15.30			
1719-03-5	Chrysene-d12	1208383	20.66			
1520-96-3	Perylene-d12	1052816	24.00			
TENTITIVE IDENTIFIED COMPOUNDS						
	ACP4.08	6.8	AB	4.08		ug/L
112-84-5	13-Docosenamide, (Z)-	9.0	J	22.45		ug/L
111-02-4	2,6,10,14,18,22-Tetracosahexaene,	2.7	J	22.70		ug/L

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

5.1 SEMI-VOLATILE BLANK RESULTS

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: BF001095.D Lab Sample ID: PB09111B

Instrument ID: BNAF Date Extracted: 11/29/2005

Matrix: (soil/water) SOIL Date Analyzed: 11/30/2005

Level: (low/med) LOW Time Analyzed: 13:56

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS01	PB09111BS	BF001096.D	11/30/2005
02	S-1D	T5908-02	BF001098.D	11/30/2005
03	S-6	T5908-07	BF001100.D	11/30/2005
04	S-2	T5908-03	BF001102.D	11/30/2005
05	S-4	T5908-05	BF001103.D	11/30/2005
06	S-3	T5908-04	BF001104.D	11/30/2005
07	T5903-02MS	T5903-02MS	BF001109.D	11/30/2005
08	T5903-02MSD	T5903-02MSD	BF001110.D	11/30/2005
09	S-3RE	T5908-04RE	BF001116.D	12/1/2005
10	S-4RE	T5908-05RE	BF001117.D	12/1/2005

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**SBLK01**	**SDG No.:**	**T5908**
Lab Sample ID:	**PB09111B**	**Matrix:**	**SOIL**
Analytical Method:	**8270**	**% Moisture:**	**0**
Sample Wt/Vol:	**30.0 g**	**Extract Vol:**	**1000 uL**

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001095.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
108-95-2	Phenol	50	U	330	50	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	52	U	330	52	ug/Kg
95-57-8	2-Chlorophenol	53	U	330	53	ug/Kg
95-50-1	1,2-Dichlorobenzene	50	U	330	50	ug/Kg
541-73-1	1,3-Dichlorobenzene	52	U	330	52	ug/Kg
106-46-7	1,4-Dichlorobenzene	58	U	330	58	ug/Kg
95-48-7	2-Methylphenol	55	U	330	55	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	53	U	330	53	ug/Kg
106-44-5	3+4-Methylphenols	52	U	330	52	ug/Kg
621-64-7	N-Nitroso-di-n-propylamine	55	U	330	55	ug/Kg
67-72-1	Hexachloroethane	56	U	330	56	ug/Kg
98-95-3	Nitrobenzene	72	U	330	72	ug/Kg
78-59-1	Isophorone	50	U	330	50	ug/Kg
88-75-5	2-Nitrophenol	51	U	330	51	ug/Kg
105-67-9	2,4-Dimethylphenol	52	U	330	52	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	54	U	330	54	ug/Kg
120-83-2	2,4-Dichlorophenol	61	U	330	61	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	56	U	330	56	ug/Kg
91-20-3	Naphthalene	56	U	330	56	ug/Kg
106-47-8	4-Chloroaniline	39	U	330	39	ug/Kg
87-68-3	Hexachlorobutadiene	51	U	330	51	ug/Kg
59-50-7	4-Chloro-3-methylphenol	46	U	330	46	ug/Kg
91-57-6	2-Methylnaphthalene	55	U	330	55	ug/Kg
77-47-4	Hexachlorocyclopentadiene	53	U	330	53	ug/Kg
88-06-2	2,4,6-Trichlorophenol	49	U	330	49	ug/Kg
95-95-4	2,4,5-Trichlorophenol	51	U	830	51	ug/Kg
91-58-7	2-Chloronaphthalene	55	U	330	55	ug/Kg
88-74-4	2-Nitroaniline	42	U	830	42	ug/Kg
131-11-3	Dimethylphthalate	53	U	330	53	ug/Kg
208-96-8	Acenaphthylene	54	U	330	54	ug/Kg
606-20-2	2,6-Dinitrotoluene	47	U	330	47	ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**SBLK01**	**SDG No.:**	**T5908**
Lab Sample ID:	**PB09111B**	**Matrix:**	**SOIL**
Analytical Method:	**8270**	**% Moisture:**	**0**
Sample Wt/Wol:	**30.0 g**	**Extract Vol:**	**1000 uL**

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001095.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	43	U	830	43	ug/Kg
83-32-9	Acenaphthene	59	U	330	59	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	830	280	ug/Kg
100-02-7	4-Nitrophenol	41	U	830	41	ug/Kg
132-64-9	Dibenzofuran	55	U	330	55	ug/Kg
121-14-2	2,4-Dinitrotoluene	49	U	330	49	ug/Kg
84-66-2	Diethylphthalate	57	U	330	57	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	52	U	330	52	ug/Kg
86-73-7	Fluorene	56	U	330	56	ug/Kg
100-01-6	4-Nitroaniline	56	U	830	56	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	64	U	830	64	ug/Kg
86-30-6	N-Nitrosodiphenylamine	54	U	330	54	ug/Kg
101-55-3	4-Bromophenyl-phenylether	49	U	330	49	ug/Kg
118-74-1	Hexachlorobenzene	53	U	330	53	ug/Kg
87-86-5	Pentachlorophenol	77	U	830	77	ug/Kg
85-01-8	Phenanthrene	53	U	330	53	ug/Kg
120-12-7	Anthracene	50	U	330	50	ug/Kg
86-74-8	Carbazole	50	U	330	50	ug/Kg
84-74-2	Di-n-butylphthalate	50	U	330	50	ug/Kg
206-44-0	Fluoranthene	49	U	330	49	ug/Kg
129-00-0	Pyrene	58	U	330	58	ug/Kg
85-68-7	Butylbenzylphthalate	53	U	330	53	ug/Kg
91-94-1	3,3-Dichlorobenzidine	57	U	330	57	ug/Kg
56-55-3	Benzo(a)anthracene	46	U	330	46	ug/Kg
218-01-9	Chrysene	59	U	330	59	ug/Kg
117-81-7	bis(2-Ethylhexyl)phthalate	63	U	330	63	ug/Kg
117-84-0	Di-n-octyl phthalate	56	U	330	56	ug/Kg
205-99-2	Benzo(b)fluoranthene	36	U	330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	73	U	330	73	ug/Kg
50-32-8	Benzo(a)pyrene	53	U	330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	42	U	330	42	ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**SBLK01**	**SDG No.:**	**T5908**
Lab Sample ID:	**PB09111B**	**Matrix:**	**SOIL**
Analytical Method:	**8270**	**% Moisture:**	**0**
Sample Wt/Vol:	**30.0 g**	**Extract Vol:**	**1000 uL**

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF001095.D	1	11/29/2005	11/30/2005	BF111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
53-70-3	Dibenz(a,h)anthracene	41	U	330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	55	U	330	55	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	176.43	59 %	25 - 121		SPK: 30
13127-88-3	Phenol-d5	206.46	69 %	24 - 113		SPK: 30
4165-60-0	Nitrobenzene-d5	164.09	82 %	23 - 120		SPK: 20
321-60-8	2-Fluorobiphenyl	138.82	69 %	30 - 116		SPK: 20
118-79-6	2,4,6-Tribromophenol	203.84	68 %	19 - 122		SPK: 30
1718-51-0	Terphenyl-d14	148.64	74 %	18 - 137		SPK: 20
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	559563	5.01			
1146-65-2	Naphthalene-d8	2099150	6.41			
15067-26-2	Acenaphthene-d10	1151187	8.52			
1517-22-2	Phenanthrene-d10	1688567	10.30			
1719-03-5	Chrysene-d12	1447374	13.53			
1520-96-3	Perylene-d12	1279191	15.38			
TENTITIVE IDENTIFIED COMPOUNDS						
	ACP3.51	1000	A	3.51		ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK02

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: BB027444.D Lab Sample ID: PB09112B

Instrument ID: BNAB Date Extracted: 11/29/2005

Matrix: (soil/water) WATER Date Analyzed: 11/30/2005

Level: (low/med) LOW Time Analyzed: 12:22

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS02	PB09112BS	BB027445.D	11/30/2005
02	FIELDBLANK	T5908-08	BB027446.D	11/30/2005

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**SBLK02**	**SDG No.:**	**T5908**
Lab Sample ID:	**PB09112B**	**Matrix:**	**WATER**
Analytical Method:	**8270**	**% Moisture:**	**100**
Sample Wt/Vol:	**1000.0 mL**	**Extract Vol:**	**1000 uL**

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB027444.D	1	11/29/2005	11/30/2005	BB111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
108-95-2	Phenol	1.3	U	10	1.3	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.4	U	10	1.4	ug/L
95-57-8	2-Chlorophenol	1.1	U	10	1.1	ug/L
95-50-1	1,2-Dichlorobenzene	1.2	U	10	1.2	ug/L
541-73-1	1,3-Dichlorobenzene	1.2	U	10	1.2	ug/L
106-46-7	1,4-Dichlorobenzene	1.2	U	10	1.2	ug/L
95-48-7	2-Methylphenol	1.5	U	10	1.5	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.2	U	10	1.2	ug/L
106-44-5	3+4-Methylphenols	1.3	U	10	1.3	ug/L
621-64-7	N-Nitroso-di-n-propylamine	1.4	U	10	1.4	ug/L
67-72-1	Hexachloroethane	1.2	U	10	1.2	ug/L
98-95-3	Nitrobenzene	1.6	U	10	1.6	ug/L
78-59-1	Isophorone	1.3	U	10	1.3	ug/L
88-75-5	2-Nitrophenol	1.4	U	10	1.4	ug/L
105-67-9	2,4-Dimethylphenol	1.2	U	10	1.2	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.4	U	10	1.4	ug/L
120-83-2	2,4-Dichlorophenol	1.4	U	10	1.4	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.4	U	10	1.4	ug/L
91-20-3	Naphthalene	1.4	U	10	1.4	ug/L
106-47-8	4-Chloroaniline	0.860	U	10	0.860	ug/L
87-68-3	Hexachlorobutadiene	1.4	U	10	1.4	ug/L
59-50-7	4-Chloro-3-methylphenol	1.4	U	10	1.4	ug/L
91-57-6	2-Methylnaphthalene	1.1	U	10	1.1	ug/L
77-47-4	Hexachlorocyclopentadiene	1.2	U	10	1.2	ug/L
88-06-2	2,4,6-Trichlorophenol	1.1	U	10	1.1	ug/L
95-95-4	2,4,5-Trichlorophenol	1.2	U	10	1.2	ug/L
91-58-7	2-Chloronaphthalene	1.4	U	10	1.4	ug/L
88-74-4	2-Nitroaniline	1.1	U	10	1.1	ug/L
131-11-3	Dimethylphthalate	1.3	U	10	1.3	ug/L
208-96-8	Acenaphthylene	1.3	U	10	1.3	ug/L
606-20-2	2,6-Dinitrotoluene	1.2	U	10	1.2	ug/L

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**SBLK02**	**SDG No.:**	**T5908**
Lab Sample ID:	**PB09112B**	**Matrix:**	**WATER**
Analytical Method:	**8270**	**% Moisture:**	**100**
Sample Wt/Vol:	**1000.0 mL**	**Extract Vol:**	**1000 uL**

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB027444.D	1	11/29/2005	11/30/2005	BB111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	1.0	U	10	1.0	ug/L
83-32-9	Acenaphthene	1.3	U	10	1.3	ug/L
51-28-5	2,4-Dinitrophenol	3.5	U	10	3.5	ug/L
100-02-7	4-Nitrophenol	3.1	U	10	3.1	ug/L
132-64-9	Dibenzofuran	1.3	U	10	1.3	ug/L
121-14-2	2,4-Dinitrotoluene	1.2	U	10	1.2	ug/L
84-66-2	Diethylphthalate	1.3	U	10	1.3	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.4	U	10	1.4	ug/L
86-73-7	Fluorene	1.4	U	10	1.4	ug/L
100-01-6	4-Nitroaniline	1.1	U	10	1.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.6	U	10	1.6	ug/L
86-30-6	N-Nitrosodiphenylamine	1.2	U	10	1.2	ug/L
101-55-3	4-Bromophenyl-phenylether	1.5	U	10	1.5	ug/L
118-74-1	Hexachlorobenzene	1.2	U	10	1.2	ug/L
87-86-5	Pentachlorophenol	1.6	U	10	1.6	ug/L
85-01-8	Phenanthrene	1.4	U	10	1.4	ug/L
120-12-7	Anthracene	1.4	U	10	1.4	ug/L
86-74-8	Carbazole	1.3	U	10	1.3	ug/L
84-74-2	Di-n-butylphthalate	1.3	U	10	1.3	ug/L
206-44-0	Fluoranthene	1.2	U	10	1.2	ug/L
129-00-0	Pyrene	1.5	U	10	1.5	ug/L
85-68-7	Butylbenzylphthalate	1.4	U	10	1.4	ug/L
91-94-1	3,3-Dichlorobenzidine	1.0	U	10	1.0	ug/L
56-55-3	Benzo(a)anthracene	1.1	U	10	1.1	ug/L
218-01-9	Chrysene	1.7	U	10	1.7	ug/L
117-81-7	bis(2-Ethylhexyl)phthalate	1.5	U	10	1.5	ug/L
117-84-0	Di-n-octyl phthalate	1.3	U	10	1.3	ug/L
205-99-2	Benzo(b)fluoranthene	0.750	U	10	0.750	ug/L
207-08-9	Benzo(k)fluoranthene	1.9	U	10	1.9	ug/L
50-32-8	Benzo(a)pyrene	1.2	U	10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.830	U	10	0.830	ug/L

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**SBLK02**	**SDG No.:**	**T5908**
Lab Sample ID:	**PB09112B**	**Matrix:**	**WATER**
Analytical Method:	**8270**	**% Moisture:**	**100**
Sample Wt/Vol:	**1000.0 mL**	**Extract Vol:**	**1000 uL**

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB027444.D	1	11/29/2005	11/30/2005	BB111705

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
53-70-3	Dibenz(a,h)anthracene	0.870	U	10	0.870	ug/L
191-24-2	Benzo(g,h,i)perylene	1.1	U	10	1.1	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	221.45	74 %	21 - 100		SPK: 30
13127-88-3	Phenol-d5	238.83	80 %	10 - 94		SPK: 30
4165-60-0	Nitrobenzene-d5	185.97	93 %	35 - 114		SPK: 20
321-60-8	2-Fluorobiphenyl	148.49	74 %	43 - 116		SPK: 20
118-79-6	2,4,6-Tribromophenol	236.8	79 %	10 - 123		SPK: 30
1718-51-0	Terphenyl-d14	158.39	79 %	33 - 141		SPK: 20
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	399876	6.53			
1146-65-2	Naphthalene-d8	1531815	8.84			
15067-26-2	Acenaphthene-d10	968634	12.32			
1517-22-2	Phenanthrene-d10	1411464	15.30			
1719-03-5	Chrysene-d12	1311163	20.65			
1520-96-3	Perylene-d12	1077337	23.99			
TENTITIVE IDENTIFIED COMPOUNDS						
	ACP4.08	29	A	4.08		ug/L

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK03

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: BE027501.D Lab Sample ID: PB09181B

Instrument ID: BNAE Date Extracted: 12/2/2005

Matrix: (soil/water) SOIL Date Analyzed: 12/4/2005

Level: (low/med) LOW Time Analyzed: 03:07

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S-1	T5908-01	BE027497.D	12/4/2005
02	S-5	T5908-06	BE027498.D	12/4/2005
03	SLCS03	PB09181BS	BE027502.D	12/4/2005
04	T5929-01MS	T5929-01MS	BE027532.D	12/4/2005
05	T5929-01MSD	T5929-01MSD	BE027533.D	12/4/2005

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**SBLK03**	**SDG No.:**	**T5908**
Lab Sample ID:	**PB09181B**	**Matrix:**	**SOIL**
Analytical Method:	**8270**	**% Moisture:**	**0**
Sample Wt/Vol:	**30.0 g**	**Extract Vol:**	**1000 uL**

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE027501.D	1	12/2/2005	12/4/2005	BE111605

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
108-95-2	Phenol	50	U	330	50	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	52	U	330	52	ug/Kg
95-57-8	2-Chlorophenol	53	U	330	53	ug/Kg
95-50-1	1,2-Dichlorobenzene	50	U	330	50	ug/Kg
541-73-1	1,3-Dichlorobenzene	52	U	330	52	ug/Kg
106-46-7	1,4-Dichlorobenzene	58	U	330	58	ug/Kg
95-48-7	2-Methylphenol	55	U	330	55	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	53	U	330	53	ug/Kg
106-44-5	3+4-Methylphenols	52	U	330	52	ug/Kg
621-64-7	N-Nitroso-di-n-propylamine	55	U	330	55	ug/Kg
67-72-1	Hexachloroethane	56	U	330	56	ug/Kg
98-95-3	Nitrobenzene	72	U	330	72	ug/Kg
78-59-1	Isophorone	50	U	330	50	ug/Kg
88-75-5	2-Nitrophenol	51	U	330	51	ug/Kg
105-67-9	2,4-Dimethylphenol	52	U	330	52	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	54	U	330	54	ug/Kg
120-83-2	2,4-Dichlorophenol	61	U	330	61	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	56	U	330	56	ug/Kg
91-20-3	Naphthalene	56	U	330	56	ug/Kg
106-47-8	4-Chloroaniline	39	U	330	39	ug/Kg
87-68-3	Hexachlorobutadiene	51	U	330	51	ug/Kg
59-50-7	4-Chloro-3-methylphenol	46	U	330	46	ug/Kg
91-57-6	2-Methylnaphthalene	55	U	330	55	ug/Kg
77-47-4	Hexachlorocyclopentadiene	53	U	330	53	ug/Kg
88-06-2	2,4,6-Trichlorophenol	49	U	330	49	ug/Kg
95-95-4	2,4,5-Trichlorophenol	51	U	830	51	ug/Kg
91-58-7	2-Chloronaphthalene	55	U	330	55	ug/Kg
88-74-4	2-Nitroaniline	42	U	830	42	ug/Kg
131-11-3	Dimethylphthalate	53	U	330	53	ug/Kg
208-96-8	Acenaphthylene	54	U	330	54	ug/Kg
606-20-2	2,6-Dinitrotoluene	47	U	330	47	ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Metcalf & Eddy, Inc.	**Date Collected:**	
Project:	Brownsville Industrial Site 1 Sackma	**Date Received:**	
Client Sample ID:	SBLK03	**SDG No.:**	T5908
Lab Sample ID:	PB09181B	**Matrix:**	SOIL
Analytical Method:	8270	**% Moisture:**	0
Sample Wt/Vol:	30.0 g	**Extract Vol:**	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE027501.D	1	12/2/2005	12/4/2005	BE111605

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
99-09-2	3-Nitroaniline	43	U	830	43	ug/Kg
83-32-9	Acenaphthene	59	U	330	59	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	830	280	ug/Kg
100-02-7	4-Nitrophenol	41	U	830	41	ug/Kg
132-64-9	Dibenzofuran	55	U	330	55	ug/Kg
121-14-2	2,4-Dinitrotoluene	49	U	330	49	ug/Kg
84-66-2	Diethylphthalate	57	U	330	57	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	52	U	330	52	ug/Kg
86-73-7	Fluorene	56	U	330	56	ug/Kg
100-01-6	4-Nitroaniline	56	U	830	56	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	64	U	830	64	ug/Kg
86-30-6	N-Nitrosodiphenylamine	54	U	330	54	ug/Kg
101-55-3	4-Bromophenyl-phenylether	49	U	330	49	ug/Kg
118-74-1	Hexachlorobenzene	53	U	330	53	ug/Kg
87-86-5	Pentachlorophenol	76	U	830	76	ug/Kg
85-01-8	Phenanthrene	53	U	330	53	ug/Kg
120-12-7	Anthracene	50	U	330	50	ug/Kg
86-74-8	Carbazole	50	U	330	50	ug/Kg
84-74-2	Di-n-butylphthalate	50	U	330	50	ug/Kg
206-44-0	Fluoranthene	49	U	330	49	ug/Kg
129-00-0	Pyrene	58	U	330	58	ug/Kg
85-68-7	Butylbenzylphthalate	53	U	330	53	ug/Kg
91-94-1	3,3-Dichlorobenzidine	57	U	330	57	ug/Kg
56-55-3	Benzo(a)anthracene	46	U	330	46	ug/Kg
218-01-9	Chrysene	59	U	330	59	ug/Kg
117-81-7	bis(2-Ethylhexyl)phthalate	63	U	330	63	ug/Kg
117-84-0	Di-n-octyl phthalate	56	U	330	56	ug/Kg
205-99-2	Benzo(b)fluoranthene	36	U	330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	73	U	330	73	ug/Kg
50-32-8	Benzo(a)pyrene	53	U	330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	42	U	330	42	ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

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Report of Analysis

Client:	**Metcalf & Eddy, Inc.**	**Date Collected:**	
Project:	**Brownsville Industrial Site 1 Sackma**	**Date Received:**	
Client Sample ID:	**SBLK03**	**SDG No.:**	**T5908**
Lab Sample ID:	**PB09181B**	**Matrix:**	**SOIL**
Analytical Method:	**8270**	**% Moisture:**	**0**
Sample Wt/Vol:	**30.0 g**	**Extract Vol:**	**1000 uL**

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE027501.D	1	12/2/2005	12/4/2005	BE111605

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
53-70-3	Dibenz(a,h)anthracene	41	U	330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	55	U	330	55	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	197.54	66 %	25 - 121		SPK: 30
13127-88-3	Phenol-d5	161.25	54 %	24 - 113		SPK: 30
4165-60-0	Nitrobenzene-d5	116.65	58 %	23 - 120		SPK: 20
321-60-8	2-Fluorobiphenyl	112.91	56 %	30 - 116		SPK: 20
118-79-6	2,4,6-Tribromophenol	180.92	60 %	19 - 122		SPK: 30
1718-51-0	Terphenyl-d14	119.51	60 %	18 - 137		SPK: 20
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	206464	3.97			
1146-65-2	Naphthalene-d8	740596	4.76			
15067-26-2	Acenaphthene-d10	464898	5.89			
1517-22-2	Phenanthrene-d10	698467	6.88			
1719-03-5	Chrysene-d12	720447	9.07			
1520-96-3	Perylene-d12	730120	11.31			
TENTITIVE IDENTIFIED COMPOUNDS						
	ACP2.98	700	A	2.98		ug/Kg
	unknown12.47	120	J	12.47		ug/Kg

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

5.2 SEMI-VOLATILE QA/QC SUMMARY

Surrogate Summary
SW-846

SDG No.: T5908
Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
PB09111B	SBLK01	2-Fluorophenol	300	176.43	59		25.00	121.00
		Phenol-d5	300	206.46	69		24.00	113.00
		Nitrobenzene-d5	200	164.09	82		23.00	120.00
		2-Fluorobiphenyl	200	138.82	69		30.00	116.00
		2,4,6-Tribromophenol	300	203.84	68		19.00	122.00
		Terphenyl-d14	200	148.64	74		18.00	137.00
PB09111BS	SLCS01	2-Fluorophenol	300	186.67	62		25.00	121.00
		Phenol-d5	300	176.05	59		24.00	113.00
		Nitrobenzene-d5	200	137.28	69		23.00	120.00
		2-Fluorobiphenyl	200	118.3	59		30.00	116.00
		2,4,6-Tribromophenol	300	202.89	68		19.00	122.00
		Terphenyl-d14	200	131.17	66		18.00	137.00
PB09112B	SBLK02	2-Fluorophenol	300	221.45	74		21.00	100.00
		Phenol-d5	300	238.83	80		10.00	94.00
		Nitrobenzene-d5	200	185.97	93		35.00	114.00
		2-Fluorobiphenyl	200	148.49	74		43.00	116.00
		2,4,6-Tribromophenol	300	236.8	79		10.00	123.00
		Terphenyl-d14	200	158.39	79		33.00	141.00
PB09112BS	SLCS02	2-Fluorophenol	300	181.03	60		21.00	100.00
		Phenol-d5	300	183.17	61		10.00	94.00
		Nitrobenzene-d5	200	142.64	71		35.00	114.00
		2-Fluorobiphenyl	200	118.23	59		43.00	116.00
		2,4,6-Tribromophenol	300	183.91	61		10.00	123.00
		Terphenyl-d14	200	131.7	66		33.00	141.00
PB09181B	SBLK03	2-Fluorophenol	300	197.54	66		25.00	121.00
		Phenol-d5	300	161.25	54		24.00	113.00
		Nitrobenzene-d5	200	116.65	58		23.00	120.00
		2-Fluorobiphenyl	200	112.91	56		30.00	116.00
		2,4,6-Tribromophenol	300	180.92	60		19.00	122.00
		Terphenyl-d14	200	119.51	60		18.00	137.00
PB09181BS	SLCS03	2-Fluorophenol	300	201.44	67		25.00	121.00
		Phenol-d5	300	181.38	60		24.00	113.00
		Nitrobenzene-d5	200	123.78	62		23.00	120.00
		2-Fluorobiphenyl	200	119.71	60		30.00	116.00
		2,4,6-Tribromophenol	300	203.79	68		19.00	122.00
		Terphenyl-d14	200	127.66	64		18.00	137.00
T5903-02MS	T5903-02MS	2-Fluorophenol	300	159.67	53		25.00	121.00
		Phenol-d5	300	153.33	51		24.00	113.00
		Nitrobenzene-d5	200	120.47	60		23.00	120.00
		2-Fluorobiphenyl	200	109.47	55		30.00	116.00
		2,4,6-Tribromophenol	300	181.35	60		19.00	122.00

Surrogate Summary
SW-846

SDG No.: T5908
Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
T5903-02MS	T5903-02MS	Terphenyl-d14	200	170.4	85		18.00	137.00
T5903-02MSD	T5903-02MSD	2-Fluorophenol	300	162.43	54		25.00	121.00
		Phenol-d5	300	155.79	52		24.00	113.00
		Nitrobenzene-d5	200	122.16	61		23.00	120.00
		2-Fluorobiphenyl	200	106.77	53		30.00	116.00
		2,4,6-Tribromophenol	300	177.42	59		19.00	122.00
		Terphenyl-d14	200	162.21	81		18.00	137.00
T5908-01	S-1	2-Fluorophenol	300	204.46	68		25.00	121.00
		Phenol-d5	300	174.96	58		24.00	113.00
		Nitrobenzene-d5	200	133.17	67		23.00	120.00
		2-Fluorobiphenyl	200	123.51	62		30.00	116.00
		2,4,6-Tribromophenol	300	206.5	69		19.00	122.00
		Terphenyl-d14	200	134.18	67		18.00	137.00
T5908-02	S-1D	2-Fluorophenol	300	146.26	49		25.00	121.00
		Phenol-d5	300	151.75	51		24.00	113.00
		Nitrobenzene-d5	200	116.29	58		23.00	120.00
		2-Fluorobiphenyl	200	101.64	51		30.00	116.00
		2,4,6-Tribromophenol	300	164.67	55		19.00	122.00
		Terphenyl-d14	200	122.16	61		18.00	137.00
T5908-03	S-2	2-Fluorophenol	300	145.93	49		25.00	121.00
		Phenol-d5	300	152.09	51		24.00	113.00
		Nitrobenzene-d5	200	115.71	58		23.00	120.00
		2-Fluorobiphenyl	200	103.71	52		30.00	116.00
		2,4,6-Tribromophenol	300	160.4	53		19.00	122.00
		Terphenyl-d14	200	110.96	55		18.00	137.00
T5908-04	S-3	2-Fluorophenol	300	154.88	52		25.00	121.00
		Phenol-d5	300	151.23	50		24.00	113.00
		Nitrobenzene-d5	200	127.01	64		23.00	120.00
		2-Fluorobiphenyl	200	111.49	56		30.00	116.00
		2,4,6-Tribromophenol	300	176.93	59		19.00	122.00
		Terphenyl-d14	200	123.89	62		18.00	137.00
T5908-04RE	S-3RE	2-Fluorophenol	300	159.06	53		25.00	121.00
		Phenol-d5	300	152.77	51		24.00	113.00
		Nitrobenzene-d5	200	96.42	48		23.00	120.00
		2-Fluorobiphenyl	200	111.03	56		30.00	116.00
		2,4,6-Tribromophenol	300	85.22	28		19.00	122.00
		Terphenyl-d14	200	243.95	122		18.00	137.00
T5908-05	S-4	2-Fluorophenol	300	173.71	58		25.00	121.00
		Phenol-d5	300	173.29	58		24.00	113.00
		Nitrobenzene-d5	200	140.57	70		23.00	120.00
		2-Fluorobiphenyl	200	124.16	62		30.00	116.00

Surrogate Summary
SW-846

SDG No.: T5908
Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
T5908-05	S-4	2,4,6-Tribromophenol	300	197.26	66		19.00	122.00
		Terphenyl-d14	200	135.99	68		18.00	137.00
T5908-05RE	S-4RE	2-Fluorophenol	300	169.82	57		25.00	121.00
		Phenol-d5	300	170.41	57		24.00	113.00
		Nitrobenzene-d5	200	108.29	54		23.00	120.00
		2-Fluorobiphenyl	200	125.02	63		30.00	116.00
		2,4,6-Tribromophenol	300	93.51	31		19.00	122.00
		Terphenyl-d14	200	284.47	142	*	18.00	137.00
T5908-06	S-5	2-Fluorophenol	300	192.7	64		25.00	121.00
		Phenol-d5	300	167.36	56		24.00	113.00
		Nitrobenzene-d5	200	127.27	64		23.00	120.00
		2-Fluorobiphenyl	200	111.48	56		30.00	116.00
		2,4,6-Tribromophenol	300	191.65	64		19.00	122.00
		Terphenyl-d14	200	131.23	66		18.00	137.00
T5908-07	S-6	2-Fluorophenol	300	137.54	46		25.00	121.00
		Phenol-d5	300	138.04	46		24.00	113.00
		Nitrobenzene-d5	200	107.8	54		23.00	120.00
		2-Fluorobiphenyl	200	97.66	49		30.00	116.00
		2,4,6-Tribromophenol	300	159.02	53		19.00	122.00
		Terphenyl-d14	200	120.07	60		18.00	137.00
T5908-08	FIELDBLANK	2-Fluorophenol	300	83.43	28		21.00	100.00
		Phenol-d5	300	52.22	17		10.00	94.00
		Nitrobenzene-d5	200	168.53	84		35.00	114.00
		2-Fluorobiphenyl	200	136.65	68		43.00	116.00
		2,4,6-Tribromophenol	300	203.81	68		10.00	123.00
		Terphenyl-d14	200	152.09	76		33.00	141.00
T5929-01MS	T5929-01MS	2-Fluorophenol	300	204.4	68		25.00	121.00
		Phenol-d5	300	188.95	63		24.00	113.00
		Nitrobenzene-d5	200	131.55	66		23.00	120.00
		2-Fluorobiphenyl	200	131.03	66		30.00	116.00
		2,4,6-Tribromophenol	300	215.42	72		19.00	122.00
		Terphenyl-d14	200	137.48	69		18.00	137.00
T5929-01MSD	T5929-01MSD	2-Fluorophenol	300	194.22	65		25.00	121.00
		Phenol-d5	300	176.09	59		24.00	113.00
		Nitrobenzene-d5	200	123.54	62		23.00	120.00
		2-Fluorobiphenyl	200	121.67	61		30.00	116.00
		2,4,6-Tribromophenol	300	193.44	64		19.00	122.00
		Terphenyl-d14	200	126.26	63		18.00	137.00

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: BB027096.D DFTPP Injection Date: 11/17/2005

Instrument ID: BNAB DFTPP Injection Time: 15:42

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	31.5
68	Less than 2.0% of mass 69	0.6 (1.1) 1
69	Mass 69 relative abundance	55.3
70	Less than 2.0% of mass 69	0.2 (0.3) 1
127	40.0 - 60.0% of mass 198	46.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 30.0% of mass 198	16.3
365	Greater than 1% of mass 198	1.1
441	Present, but less than mass 443	10.3
442	Greater than 40% of mass 198	69.2
443	17.0 - 23.0% of mass 442	12.0(17.3) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD080	80 ng BNA ICC	BB027103.D	11/17/2005	20:34
02	SSTD160	160 ng BNA ICC	BB027104.D	11/17/2005	21:15
03	SSTD020	20 ng BNA ICC	BB027105.D	11/17/2005	21:57
04	SSTD120	120 ng BNA ICC	BB027106.D	11/17/2005	22:38
05	SSTD050	50 ng BNA ICC	BB027107.D	11/17/2005	23:19

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: BB027442.D DFTPP Injection Date: 11/30/2005

Instrument ID: BNAB DFTPP Injection Time: 11:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	33.8
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	58.6
70	Less than 2.0% of mass 69	0.1 (0.2) 1
127	40.0 - 60.0% of mass 198	47.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 30.0% of mass 198	16.2
365	Greater than 1% of mass 198	1.1
441	Present, but less than mass 443	10.4
442	Greater than 40% of mass 198	68.0
443	17.0 - 23.0% of mass 442	13.1(19.3) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD080	80 ng BNA CCC	BB027443.D	11/30/2005	11:42
02	SBLK02	PB09112B	BB027444.D	11/30/2005	12:22
03	SLCS02	PB09112BS	BB027445.D	11/30/2005	13:01
04	FIELDBLANK	T5908-08	BB027446.D	11/30/2005	13:41

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: BE027007.D DFTPP Injection Date: 11/16/2005

Instrument ID: BNAE DFTPP Injection Time: 19:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.1
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	63.0
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	40.0 - 60.0% of mass 198	56.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	26.3
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	6.4
442	Greater than 40% of mass 198	47.0
443	17.0 - 23.0% of mass 442	8.9 (19.0) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD080	80 ng BNA ICC	BE027009.D	11/16/2005	20:47
02	SSTD160	160 ng BNA ICC	BE027010.D	11/16/2005	21:13
03	SSTD020	20 ng BNA ICC	BE027011.D	11/16/2005	21:39
04	SSTD120	120 ng BNA ICC	BE027012.D	11/16/2005	22:06
05	SSTD050	50 ng BNA ICC	BE027013.D	11/16/2005	22:33

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: BE027487.D DFTPP Injection Date: 12/3/2005

Instrument ID: BNAE DFTPP Injection Time: 20:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	37.8
68	Less than 2.0% of mass 69	0.1 (0.2) 1
69	Mass 69 relative abundance	50.2
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	40.0 - 60.0% of mass 198	47.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	27.1
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	8.3
442	Greater than 40% of mass 198	55.0
443	17.0 - 23.0% of mass 442	10.7(19.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD120	120 ng BNA CCC	BE027489.D	12/3/2005	21:36
02	S-1	T5908-01	BE027497.D	12/4/2005	01:26
03	S-5	T5908-06	BE027498.D	12/4/2005	01:50
04	SBLK03	PB09181B	BE027501.D	12/4/2005	03:07
05	SLCS03	PB09181BS	BE027502.D	12/4/2005	03:31

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: BE027509.D DFTPP Injection Date: 12/4/2005

Instrument ID: BNAE DFTPP Injection Time: 06:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	53.8
70	Less than 2.0% of mass 69	0.1 (0.2) 1
127	40.0 - 60.0% of mass 198	49.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	26.2
365	Greater than 1% of mass 198	2.9
441	Present, but less than mass 443	7.0
442	Greater than 40% of mass 198	49.0
443	17.0 - 23.0% of mass 442	9.8 (20.1) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	50 ng BNA CCC	BE027511.D	12/4/2005	07:21
02	T5929-01MS	T5929-01MS	BE027532.D	12/4/2005	16:21
03	T5929-01MSD	T5929-01MSD	BE027533.D	12/4/2005	16:48

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: BF000848.D DFTPP Injection Date: 11/17/2005

Instrument ID: BNAF DFTPP Injection Time: 18:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.8
68	Less than 2.0% of mass 69	0.7 (1.6) 1
69	Mass 69 relative abundance	45.0
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	40.0 - 60.0% of mass 198	56.7
197	Less than 1.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	26.6
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	11.5
442	Greater than 40% of mass 198	80.7
443	17.0 - 23.0% of mass 442	15.0(18.5) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD080	80 ng BNA ICC	BF000849.D	11/17/2005	19:01
02	SSTD020	20 ng BNA ICC	BF000850.D	11/17/2005	19:31
03	SSTD050	50 ng BNA ICC	BF000852.D	11/17/2005	20:29
04	SSTD120	120 ng BNA ICC	BF000853.D	11/17/2005	20:58
05	SSTD100	100 ng BNA ICC	BF000855.D	11/17/2005	21:56

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

Lab File ID: BF001093.D DFTPP Injection Date: 11/30/2005

Instrument ID: BNAF DFTPP Injection Time: 12:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.4
68	Less than 2.0% of mass 69	0.7 (1.5) 1
69	Mass 69 relative abundance	48.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	40.0 - 60.0% of mass 198	56.9
197	Less than 1.0% of mass 198	1.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	27.2
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	11.8
442	Greater than 40% of mass 198	82.3
443	17.0 - 23.0% of mass 442	15.8(19.2) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD080	80 ng BNA CCC	BF001094.D	11/30/2005	13:27
02	SBLK01	PB09111B	BF001095.D	11/30/2005	13:56
03	SLCS01	PB09111BS	BF001096.D	11/30/2005	14:26
04	S-1D	T5908-02	BF001098.D	11/30/2005	15:32
05	S-6	T5908-07	BF001100.D	11/30/2005	16:31
06	S-2	T5908-03	BF001102.D	11/30/2005	17:30
07	S-4	T5908-05	BF001103.D	11/30/2005	17:59
08	S-3	T5908-04	BF001104.D	11/30/2005	18:29
09	T5903-02MS	T5903-02MS	BF001109.D	11/30/2005	20:55
10	T5903-02MSD	T5903-02MSD	BF001110.D	11/30/2005	21:24
11	S-3RE	T5908-04RE	BF001116.D	12/1/2005	00:19
12	S-4RE	T5908-05RE	BF001117.D	12/1/2005	00:48

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

EPA Sample No.: SSTD120 Date Analyzed: 12/3/2005

Lab File ID: BE027489.D Time Analyzed: 21:36

Instrument ID: BNAE GC Column: RTX-5 SILMS ID: 032 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	230341	3.97	835079	4.77	493370	5.91
	UPPER LIMIT	460682	4.47	1670158	5.27	986740	6.41
	LOWER LIMIT	115171	3.47	417540	4.27	246685	5.41
	EPA SAMPLE NO.						
04	S-1	189062	3.97	659742	4.76	427132	5.88
05	S-5	199639	3.97	693839	4.76	458555	5.88
06	SBLK03	206464	3.97	740596	4.76	464898	5.89
07	SLCS03	206945	3.97	721141	4.76	453574	5.89

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard are
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

EPA Sample No.: SSTD120 Date Analyzed: 12/3/2005

Lab File ID: BE027489.D Time Analyzed: 21:36

Instrument ID: BNAE GC Column: RTX-5 SILMS ID: 032 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	783211	6.95	799187	9.29	728987	11.60
	UPPER LIMIT	1566422	7.45	1598374	9.79	1457974	12.10
	LOWER LIMIT	391606	6.45	399594	8.79	364494	11.10
	EPA SAMPLE NO.						
04	S-1	630991	6.88	664364	9.06	660697	11.30
05	S-5	673802	6.88	702642	9.03	717276	11.26
06	SBLK03	698467	6.88	720447	9.07	730120	11.31
07	SLCS03	658037	6.88	710167	9.05	710939	11.28

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard are
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

EPA Sample No.: SSTD050 Date Analyzed: 12/4/2005

Lab File ID: BE027511.D Time Analyzed: 07:21

Instrument ID: BNAE GC Column: RTX-5 SILMS ID: 032 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	201856	3.96	753692	4.76	459654	5.88
	UPPER LIMIT	403712	4.46	1507384	5.26	919308	6.38
	LOWER LIMIT	100928	3.46	376846	4.26	229827	5.38
	EPA SAMPLE NO.						
08	T5929-01MS	200054	3.97	683033	4.76	414031	5.89
09	T5929-01MSD	185117	3.97	639033	4.76	399154	5.89

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard are
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

EPA Sample No.: SSTD050 Date Analyzed: 12/4/2005

Lab File ID: BE027511.D Time Analyzed: 07:21

Instrument ID: BNAE GC Column: RTX-5 SILMS ID: 032 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	705653	6.87	689849	9.00	650621	11.22
	UPPER LIMIT	1411306	7.37	1379698	9.50	1301242	11.72
	LOWER LIMIT	352827	6.37	344925	8.50	325311	10.72
	EPA SAMPLE NO.						
08	T5929-01MS	628583	6.89	658516	9.08	548478	11.33
09	T5929-01MSD	595183	6.89	631355	9.06	513205	11.30

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard are
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

EPA Sample No.: SSTD080 Date Analyzed: 11/30/2005

Lab File ID: BB027443.D Time Analyzed: 11:42

Instrument ID: BNAB GC Column: RTX-5 SILMS ID: 032 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	462261	6.54	1807427	8.85	1040630	12.32
	UPPER LIMIT	924522	7.04	3614854	9.35	2081260	12.82
	LOWER LIMIT	231131	6.04	903714	8.35	520315	11.82
	EPA SAMPLE NO.						
01	SBLK02	399876	6.53	1531815	8.84	968634	12.32
02	SLCS02	421875	6.54	1536284	8.85	959520	12.33
03	FIELDBLANK	417147	6.53	1519730	8.85	971880	12.31

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard are
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

EPA Sample No.: SSTD080 Date Analyzed: 11/30/2005

Lab File ID: BB027443.D Time Analyzed: 11:42

Instrument ID: BNAB GC Column: RTX-5 SILMS ID: 032 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1632532	15.32	1279497	20.68	1030337	24.00
	UPPER LIMIT	3265064	15.82	2558994	21.18	2060674	24.50
	LOWER LIMIT	816266	14.82	639749	20.18	515169	23.50
	EPA SAMPLE NO.						
01	SBLK02	1411464	15.30	1311163	20.65	1077337	23.99
02	SLCS02	1417958	15.31	1200354	20.68	1028074	24.01
03	FIELDBLANK	1434523	15.30	1208383	20.66	1052816	24.00

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard are
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG NO.: T5908

EPA Sample No.: SSTD080 Date Analyzed: 11/30/2005

Lab File ID: BF001094.D Time Analyzed: 13:27

Instrument ID: BNAF GC Column: RTX-5 SILMS ID: 032 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	673786	5.01	2950483	6.44	1445955	8.54
	UPPER LIMIT	1347572	5.51	5900966	6.94	2891910	9.04
	LOWER LIMIT	336893	4.51	1475242	5.94	722978	8.04
	EPA SAMPLE NO.						
10	SBLK01	559563	5.01	2099150	6.41	1151187	8.52
11	SLCS01	579384	5.01	2401330	6.43	1210449	8.53
12	S-1D	645266	5.00	2394770	6.41	1287303	8.52
13	S-6	671941	5.00	2502133	6.41	1326997	8.52
14	S-2	718035	5.00	2685497	6.41	1439945	8.52
15	S-4	643066	5.00	2409744	6.41	1278453	8.52
16	S-3	684425	5.00	2534134	6.41	1336472	8.52
17	T5903-02MS	663342	5.00	2677689	6.43	1286038	8.54
18	T5903-02MSD	640781	5.01	2641125	6.43	1262732	8.53
19	S-3RE	667508	5.00	2528856	6.41	1314507	8.53
20	S-4RE	654802	5.00	2454938	6.41	1273995	8.53

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard are
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

EPA Sample No.: SSTD080 Date Analyzed: 11/30/2005

Lab File ID: BF001094.D Time Analyzed: 13:27

Instrument ID: BNAF GC Column: RTX-5 SILMS ID: 032 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2452830	10.31	1863426	13.56	1480921	15.40
	UPPER LIMIT	4905660	10.81	3726852	14.06	2961842	15.90
	LOWER LIMIT	1226415	9.81	931713	13.06	740461	14.90
	EPA SAMPLE NO.						
10	SBLK01	1688567	10.30	1447374	13.53	1279191	15.38
11	SLCS01	1992248	10.31	1588837	13.55	1442928	15.40
12	S-1D	1885979	10.30	1606862	13.54	1361374	15.38
13	S-6	1970057	10.30	1659794	13.52	1455685	15.38
14	S-2	2114773	10.30	1825157	13.54	1463098	15.38
15	S-4	1952739	10.30	1621910	13.53	1300434	15.38
16	S-3	2022564	10.30	1660851	13.54	1250227	15.38
17	T5903-02MS	2092925	10.31	1118669	13.55	410086 *	15.39
18	T5903-02MSD	2061086	10.31	1065827	13.55	395420 *	15.39
19	S-3RE	1851315	10.30	687269	13.52	188981 *	15.38
20	S-4RE	1816837	10.30	639711	13.52	167184 *	15.38

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard are
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

5.3 SEMI-VOLATILE MS/MSD SUMMARY

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

DG No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: T5903-02MS	**Client Sample ID:**		**T5903-02MS**							
2-Chlorophenol	1700	0	1200	71				52	107	
Phenol	1700	0	1100	65				20	150	
bis(2-Chloroethyl)ether	1700	0	1400	82				37	114	
1,3-Dichlorobenzene	1700	0	1100	65				44	99	
1,4-Dichlorobenzene	1700	0	1100	65				40	101	
1,2-Dichlorobenzene	1700	0	1100	65				51	93	
2,2-oxybis(1-Chloropropane)	1700	0	1600	94				44	102	
2-Methylphenol	1700	0	1200	71				50	100	
Hexachloroethane	1700	0	1100	65				43	101	
N-Nitroso-di-n-propylamine	1700	0	1400	82				20	150	
3+4-Methylphenols	1700	0	1300	76				30	106	
Nitrobenzene	1700	0	1300	76				50	109	
Isophorone	1700	0	1500	88				48	111	
2-Nitrophenol	1700	0	1300	76				52	116	
2,4-Dimethylphenol	1700	0	1400	82				47	109	
bis(2-Chloroethoxy)methane	1700	0	1400	82				51	111	
2,4-Dichlorophenol	1700	0	1400	82				55	109	
1,2,4-Trichlorobenzene	1700	0	1300	76				42	98	
Naphthalene	1700	73	1400	78				34	120	
4-Chloroaniline	1700	0	1300	76				15	92	
Hexachlorobutadiene	1700	0	1300	76				20	150	
4-Chloro-3-methylphenol	1700	0	1400	82				60	100	
2-Methylnaphthalene	1700	0	1300	76				49	115	
Hexachlorocyclopentadiene	3300	0	710	22				20	107	
2,4,6-Trichlorophenol	1700	0	1400	82				50	112	
2,4,5-Trichlorophenol	1700	0	1300	76				55	105	
2-Chloronaphthalene	1700	0	1300	76				50	113	
2-Nitroaniline	1700	0	1600	94				52	110	
Acenaphthylene	1700	69	1400	78				52	107	
Dimethylphthalate	1700	0	1400	82				45	122	
2,6-Dinitrotoluene	1700	0	1300	76				49	116	
Acenaphthene	1700	0	1400	82				65	100	
3-Nitroaniline	1700	0	1500	88				27	88	
2,4-Dinitrophenol	3300	0	1200	36				26	131	
Dibenzofuran	1700	0	1300	76				52	113	
4-Nitrophenol	3300	0	1900	58				45	95	
2,4-Dinitrotoluene	1700	0	1400	82				56	104	
Fluorene	1700	0	1300	76				47	117	
Diethylphthalate	1700	0	1300	76				49	115	
4-Chlorophenyl-phenylether	1700	0	1400	82				37	127	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

DG No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: T5903-02MS	**Client Sample ID:**		**T5903-02MS**							
4-Nitroaniline	1700	0	1500	88				41	115	
4,6-Dinitro-2-methylphenol	1700	0	670	39	*			40	105	
N-Nitrosodiphenylamine	1700	0	1500	88				20	150	
4-Bromophenyl-phenylether	1700	0	1500	88				53	113	
Hexachlorobenzene	1700	0	1500	88				48	118	
Pentachlorophenol	3300	0	2900	88				20	150	
Phenanthrene	1700	180	1500	78				20	150	
Anthracene	1700	100	1500	82				54	108	
Carbazole	1700	0	1600	94				54	117	
Di-n-butylphthalate	1700	0	1400	82				52	112	
Fluoranthene	1700	420	1600	69				55	105	
Pyrene	1700	420	2300	111				20	150	
Butylbenzylphthalate	1700	0	1800	106				55	120	
Benzo(a)anthracene	1700	310	1700	82				60	100	
3,3-Dichlorobenzidine	1700	0	1400	82				31	111	
Chrysene	1700	360	1600	73				51	115	
bis(2-Ethylhexyl)phthalate	1700	35	1900	110				54	124	
Di-n-octyl phthalate	1700	0	1500	88				53	122	
Indeno(1,2,3-cd)pyrene	1700	36	250	13	*			42	124	
Benzo(b)fluoranthene	1700	390	1800	83				42	126	
Benzo(k)fluoranthene	1700	78	3200	184	*			43	125	
Benzo(a)pyrene	1700	320	1600	75				58	102	
Dibenz(a,h)anthracene	1700	0	620	36	*			41	130	
Benzo(g,h,i)perylene	1700	74	570	29	*			39	130	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: T5903-02MSD	**Client Sample ID:**		**T5903-02MSD**							
2-Chlorophenol	1700	0	1100	65		9		52	107	50
Phenol	1700	0	1000	59		10		20	150	50
bis(2-Chloroethyl)ether	1700	0	1300	76		8		37	114	50
1,3-Dichlorobenzene	1700	0	1100	65		0		44	99	50
1,4-Dichlorobenzene	1700	0	1000	59		10		40	101	50
1,2-Dichlorobenzene	1700	0	1100	65		0		51	93	50
2,2-oxybis(1-Chloropropane)	1700	0	1500	88		7		44	102	50
2-Methylphenol	1700	0	1100	65		9		50	100	50
Hexachloroethane	1700	0	1000	59		10		43	101	50
N-Nitroso-di-n-propylamine	1700	0	1300	76		8		20	150	50
3+4-Methylphenols	1700	0	1200	71		7		30	106	50
Nitrobenzene	1700	0	1200	71		7		50	109	50
Isophorone	1700	0	1300	76		15		48	111	50
2-Nitrophenol	1700	0	1200	71		7		52	116	50
2,4-Dimethylphenol	1700	0	1200	71		14		47	109	50
bis(2-Chloroethoxy)methane	1700	0	1300	76		8		51	111	50
2,4-Dichlorophenol	1700	0	1100	65		23		55	109	50
1,2,4-Trichlorobenzene	1700	0	1100	65		16		42	98	50
Naphthalene	1700	73	1200	66		17		34	120	50
4-Chloroaniline	1700	0	1000	59		25		15	92	50
Hexachlorobutadiene	1700	0	1100	65		16		20	150	50
4-Chloro-3-methylphenol	1700	0	1200	71		14		60	100	50
2-Methylnaphthalene	1700	0	1100	65		16		49	115	50
Hexachlorocyclopentadiene	3300	0	540	16		32		20	107	50
2,4,6-Trichlorophenol	1700	0	1200	71		14		50	112	50
2,4,5-Trichlorophenol	1700	0	1200	71		7		55	105	50
2-Chloronaphthalene	1700	0	1100	65		16		50	113	50
2-Nitroaniline	1700	0	1300	76		21		52	110	50
Acenaphthylene	1700	69	1200	67		15		52	107	50
Dimethylphthalate	1700	0	1200	71		14		45	122	50
2,6-Dinitrotoluene	1700	0	1200	71		7		49	116	50
Acenaphthene	1700	0	1200	71		14		65	100	50
3-Nitroaniline	1700	0	1100	65		30		27	88	50
2,4-Dinitrophenol	3300	0	920	28		25		26	131	50
Dibenzofuran	1700	0	1200	71		7		52	113	50
4-Nitrophenol	3300	0	1600	48		19		45	95	50
2,4-Dinitrotoluene	1700	0	1100	65		23		56	104	50
Fluorene	1700	0	1100	65		16		47	117	50
Diethylphthalate	1700	0	1200	71		7		49	115	50
4-Chlorophenyl-phenylether	1700	0	1100	65		23		37	127	50

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

DG No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: T5903-02MSD	**Client Sample ID:**		**T5903-02MSD**							
4-Nitroaniline	1700	0	1300	76		15		41	115	50
4,6-Dinitro-2-methylphenol	1700	0	500	29		29		40	105	50
N-Nitrosodiphenylamine	1700	0	1300	76		15		20	150	50
4-Bromophenyl-phenylether	1700	0	1200	71		21		53	113	50
Hexachlorobenzene	1700	0	1200	71		21		48	118	50
Pentachlorophenol	3300	0	2500	76		15		20	150	50
Phenanthrene	1700	180	1300	66		17		20	150	50
Anthracene	1700	100	1300	71		14		54	108	50
Carbazole	1700	0	1400	82		14		54	117	50
Di-n-butylphthalate	1700	0	1300	76		8		52	112	50
Fluoranthene	1700	420	1500	64		8		55	105	50
Pyrene	1700	420	2000	93		18		20	150	50
Butylbenzylphthalate	1700	0	1700	100		6		55	120	50
Benzo(a)anthracene	1700	310	1400	64		25		60	100	50
3,3-Dichlorobenzidine	1700	0	1100	65		23		31	111	50
Chrysene	1700	360	1400	61		18		51	115	50
bis(2-Ethylhexyl)phthalate	1700	35	1700	98		12		54	124	50
Di-n-octyl phthalate	1700	0	1400	82		7		53	122	50
Indeno(1,2,3-cd)pyrene	1700	36	210	10		26		42	124	50
Benzo(b)fluoranthene	1700	390	1300	54		42		42	126	50
Benzo(k)fluoranthene	1700	78	3600	207		12		43	125	50
Benzo(a)pyrene	1700	320	1400	64		16		58	102	50
Dibenz(a,h)anthracene	1700	0	510	30		18		41	130	50
Benzo(g,h,i)perylene	1700	74	480	24		19		39	130	50

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

DG No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: T5929-01MS	**Client Sample ID:**		**T5929-01MS**							
2-Chlorophenol	1700	0	1300	76				52	107	
Phenol	1700	0	1300	76				20	150	
bis(2-Chloroethyl)ether	1700	0	1300	76				37	114	
1,3-Dichlorobenzene	1700	0	1200	71				44	99	
1,4-Dichlorobenzene	1700	0	1200	71				40	101	
1,2-Dichlorobenzene	1700	0	1200	71				51	93	
2,2-oxybis(1-Chloropropane)	1700	0	1500	88				44	102	
2-Methylphenol	1700	0	1400	82				50	100	
Hexachloroethane	1700	0	1100	65				43	101	
N-Nitroso-di-n-propylamine	1700	0	1200	71				20	150	
3+4-Methylphenols	1700	0	1400	82				30	106	
Nitrobenzene	1700	0	1200	71				50	109	
Isophorone	1700	0	1400	82				48	111	
2-Nitrophenol	1700	0	1200	71				52	116	
2,4-Dimethylphenol	1700	0	1300	76				47	109	
bis(2-Chloroethoxy)methane	1700	0	1400	82				51	111	
2,4-Dichlorophenol	1700	0	1400	82				55	109	
1,2,4-Trichlorobenzene	1700	0	1300	76				42	98	
Naphthalene	1700	0	1400	82				34	120	
4-Chloroaniline	1700	0	1100	65				15	92	
Hexachlorobutadiene	1700	0	1300	76				20	150	
4-Chloro-3-methylphenol	1700	0	1400	82				60	100	
2-Methylnaphthalene	1700	0	1400	82				49	115	
Hexachlorocyclopentadiene	3300	0	780	24				20	107	
2,4,6-Trichlorophenol	1700	0	1400	82				50	112	
2,4,5-Trichlorophenol	1700	0	1400	82				55	105	
2-Chloronaphthalene	1700	0	1300	76				50	113	
2-Nitroaniline	1700	0	1300	76				52	110	
Acenaphthylene	1700	0	1400	82				52	107	
Dimethylphthalate	1700	0	1300	76				45	122	
2,6-Dinitrotoluene	1700	0	1400	82				49	116	
Acenaphthene	1700	36	1400	80				65	100	
3-Nitroaniline	1700	0	1200	71				27	88	
2,4-Dinitrophenol	3300	0	880	27				26	131	
Dibenzofuran	1700	0	1400	82				52	113	
4-Nitrophenol	3300	0	73	2	*			45	95	
2,4-Dinitrotoluene	1700	0	1400	82				56	104	
Fluorene	1700	45	1400	80				47	117	
Diethylphthalate	1700	0	1300	76				49	115	
4-Chlorophenyl-phenylether	1700	0	1300	76				37	127	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: T5929-01MS	**Client Sample ID: T5929-01MS**									
4-Nitroaniline	1700	0	1500	88				41	115	
4,6-Dinitro-2-methylphenol	1700	0	620	36	*			40	105	
N-Nitrosodiphenylamine	1700	0	1500	88				20	150	
4-Bromophenyl-phenylether	1700	0	1400	82				53	113	
Hexachlorobenzene	1700	0	1500	88				48	118	
Pentachlorophenol	3300	0	2700	82				20	150	
Phenanthrene	1700	550	1900	79				20	150	
Anthracene	1700	110	1600	88				54	108	
Carbazole	1700	58	2100	120	*			54	117	
Di-n-butylphthalate	1700	0	1500	88				52	112	
Fluoranthene	1700	590	1900	77				55	105	
Pyrene	1700	460	1700	73				20	150	
Butylbenzylphthalate	1700	0	1300	76				55	120	
Benzo(a)anthracene	1700	200	1600	82				60	100	
3,3-Dichlorobenzidine	1700	0	1600	94				31	111	
Chrysene	1700	180	1600	84				51	115	
bis(2-Ethylhexyl)phthalate	1700	0	1300	76				54	124	
Di-n-octyl phthalate	1700	0	1400	82				53	122	
Indeno(1,2,3-cd)pyrene	1700	79	970	52				42	124	
Benzo(b)fluoranthene	1700	200	1500	76				42	126	
Benzo(k)fluoranthene	1700	44	1500	86				43	125	
Benzo(a)pyrene	1700	150	1400	74				58	102	
Dibenz(a,h)anthracene	1700	0	1000	59				41	130	
Benzo(g,h,i)perylene	1700	74	910	49				39	130	

Chemtech Consulting Group

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

DG No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: T5929-01MSD	**Client Sample ID:**		**T5929-01MSD**							
2-Chlorophenol	1700	0	1300	76		0		52	107	50
Phenol	1700	0	1200	71		7		20	150	50
bis(2-Chloroethyl)ether	1700	0	1200	71		7		37	114	50
1,3-Dichlorobenzene	1700	0	1200	71		0		44	99	50
1,4-Dichlorobenzene	1700	0	1200	71		0		40	101	50
1,2-Dichlorobenzene	1700	0	1100	65		9		51	93	50
2,2-oxybis(1-Chloropropane)	1700	0	1400	82		7		44	102	50
2-Methylphenol	1700	0	1300	76		8		50	100	50
Hexachloroethane	1700	0	1000	59		10		43	101	50
N-Nitroso-di-n-propylamine	1700	0	1200	71		0		20	150	50
3+4-Methylphenols	1700	0	1300	76		8		30	106	50
Nitrobenzene	1700	0	1200	71		0		50	109	50
Isophorone	1700	0	1400	82		0		48	111	50
2-Nitrophenol	1700	0	1200	71		0		52	116	50
2,4-Dimethylphenol	1700	0	1200	71		7		47	109	50
bis(2-Chloroethoxy)methane	1700	0	1300	76		8		51	111	50
2,4-Dichlorophenol	1700	0	1400	82		0		55	109	50
1,2,4-Trichlorobenzene	1700	0	1300	76		0		42	98	50
Naphthalene	1700	0	1400	82		0		34	120	50
4-Chloroaniline	1700	0	1000	59		10		15	92	50
Hexachlorobutadiene	1700	0	1200	71		7		20	150	50
4-Chloro-3-methylphenol	1700	0	1200	71		14		60	100	50
2-Methylnaphthalene	1700	0	1400	82		0		49	115	50
Hexachlorocyclopentadiene	3300	0	710	22		9		20	107	50
2,4,6-Trichlorophenol	1700	0	1300	76		8		50	112	50
2,4,5-Trichlorophenol	1700	0	1300	76		8		55	105	50
2-Chloronaphthalene	1700	0	1300	76		0		50	113	50
2-Nitroaniline	1700	0	1200	71		7		52	110	50
Acenaphthylene	1700	0	1300	76		8		52	107	50
Dimethylphthalate	1700	0	1300	76		0		45	122	50
2,6-Dinitrotoluene	1700	0	1300	76		8		49	116	50
Acenaphthene	1700	36	1300	74		8		65	100	50
3-Nitroaniline	1700	0	1100	65		9		27	88	50
2,4-Dinitrophenol	3300	0	820	25		8		26	131	50
Dibenzofuran	1700	0	1300	76		8		52	113	50
4-Nitrophenol	3300	0	54	2		0		45	95	50
2,4-Dinitrotoluene	1700	0	1200	71		14		56	104	50
Fluorene	1700	45	1300	74		8		47	117	50
Diethylphthalate	1700	0	1200	71		7		49	115	50
4-Chlorophenyl-phenylether	1700	0	1200	71		7		37	127	50

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: T5929-01MSD	**Client Sample ID:**		**T5929-01MSD**							
4-Nitroaniline	1700	0	1400	82		7		41	115	50
4,6-Dinitro-2-methylphenol	1700	0	650	38		5		40	105	50
N-Nitrosodiphenylamine	1700	0	1400	82		7		20	150	50
4-Bromophenyl-phenylether	1700	0	1400	82		0		53	113	50
Hexachlorobenzene	1700	0	1400	82		7		48	118	50
Pentachlorophenol	3300	0	2500	76		8		20	150	50
Phenanthrene	1700	550	1800	74		7		20	150	50
Anthracene	1700	110	1500	82		7		54	108	50
Carbazole	1700	58	2000	114		5		54	117	50
Di-n-butylphthalate	1700	0	1400	82		7		52	112	50
Fluoranthene	1700	590	1900	77		0		55	105	50
Pyrene	1700	460	1600	67		9		20	150	50
Butylbenzylphthalate	1700	0	1200	71		7		55	120	50
Benzo(a)anthracene	1700	200	1500	76		8		60	100	50
3,3-Dichlorobenzidine	1700	0	1500	88		7		31	111	50
Chrysene	1700	180	1400	72		15		51	115	50
bis(2-Ethylhexyl)phthalate	1700	0	1200	71		7		54	124	50
Di-n-octyl phthalate	1700	0	1300	76		8		53	122	50
Indeno(1,2,3-cd)pyrene	1700	79	870	47		10		42	124	50
Benzo(b)fluoranthene	1700	200	1500	76		0		42	126	50
Benzo(k)fluoranthene	1700	44	1400	80		7		43	125	50
Benzo(a)pyrene	1700	150	1400	74		0		58	102	50
Dibenz(a,h)anthracene	1700	0	950	56		5		41	130	50
Benzo(g,h,i)perylene	1700	74	830	44		11		39	130	50

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

)DG No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	RPD
PB09111BS	2-Chlorophenol	1700	1200	71			52	107	
	Phenol	1700	1100	65			20	150	
	bis(2-Chloroethyl)ether	1700	1700	100			37	114	
	1,3-Dichlorobenzene	1700	1200	71			44	99	
	1,4-Dichlorobenzene	1700	1200	71			40	101	
	1,2-Dichlorobenzene	1700	1200	71			51	93	
	2,2-oxybis(1-Chloropropane)	1700	1500	88			44	102	
	2-Methylphenol	1700	1200	71			50	100	
	Hexachloroethane	1700	1300	76			43	101	
	N-Nitroso-di-n-propylamine	1700	1400	82			20	150	
	3+4-Methylphenols	1700	1400	82			30	106	
	Nitrobenzene	1700	1300	76			50	109	
	Isophorone	1700	1400	82			48	111	
	2-Nitrophenol	1700	1300	76			52	116	
	2,4-Dimethylphenol	1700	1300	76			47	109	
	bis(2-Chloroethoxy)methane	1700	1400	82			51	111	
	2,4-Dichlorophenol	1700	1300	76			55	109	
	1,2,4-Trichlorobenzene	1700	1300	76			42	98	
	Naphthalene	1700	1300	76			34	120	
	4-Chloroaniline	1700	630	37			15	92	
	Hexachlorobutadiene	1700	1300	76			20	150	
	4-Chloro-3-methylphenol	1700	1300	76			60	100	
	2-Methylnaphthalene	1700	1200	71			49	115	
	Hexachlorocyclopentadiene	3300	2200	67			20	107	
	2,4,6-Trichlorophenol	1700	1300	76			50	112	
	2,4,5-Trichlorophenol	1700	1200	71			55	105	
	2-Chloronaphthalene	1700	1200	71			50	113	
	2-Nitroaniline	1700	1400	82			52	110	
	Acenaphthylene	1700	1300	76			52	107	
	Dimethylphthalate	1700	1300	76			45	122	
	2,6-Dinitrotoluene	1700	1300	76			49	116	
	Acenaphthene	1700	1400	82			65	100	
	3-Nitroaniline	1700	860	51			27	88	
	2,4-Dinitrophenol	3300	2100	64			26	131	
	Dibenzofuran	1700	1300	76			52	113	
	4-Nitrophenol	3300	1700	52			45	95	
	2,4-Dinitrotoluene	1700	1300	76			56	104	
	Fluorene	1700	1300	76			47	117	
	Diethylphthalate	1700	1300	76			49	115	
	4-Chlorophenyl-phenylether	1700	1300	76			37	127	
	4-Nitroaniline	1700	1300	76			41	115	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

DG No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	RPD
PB09111BS	4,6-Dinitro-2-methylphenol	1700	1400	82			40	105	
	N-Nitrosodiphenylamine	1700	1400	82			20	150	
	4-Bromophenyl-phenylether	1700	1400	82			53	113	
	Hexachlorobenzene	1700	1300	76			48	118	
	Pentachlorophenol	3300	2700	82			20	150	
	Phenanthrene	1700	1400	82			20	150	
	Anthracene	1700	1400	82			54	108	
	Carbazole	1700	1600	94			54	117	
	Di-n-butylphthalate	1700	1400	82			52	112	
	Fluoranthene	1700	1300	76			55	105	
	Pyrene	1700	1400	82			20	150	
	Butylbenzylphthalate	1700	1300	76			55	120	
	Benzo(a)anthracene	1700	1300	76			60	100	
	3,3-Dichlorobenzidine	1700	880	52			31	111	
	Chrysene	1700	1200	71			51	115	
	bis(2-Ethylhexyl)phthalate	1700	1400	82			54	124	
	Di-n-octyl phthalate	1700	1300	76			53	122	
	Indeno(1,2,3-cd)pyrene	1700	1100	65			42	124	
	Benzo(b)fluoranthene	1700	1200	71			42	126	
	Benzo(k)fluoranthene	1700	1700	100			43	125	
	Benzo(a)pyrene	1700	1200	71			58	102	
	Dibenz(a,h)anthracene	1700	1100	65			41	130	
	Benzo(g,h,i)perylene	1700	1100	65			39	130	
PB09112BS	2-Chlorophenol	50	32	64			45	87	
	Phenol	50	31	62		*	18	37	
	bis(2-Chloroethyl)ether	50	33	66			47	94	
	1,3-Dichlorobenzene	50	33	66			48	92	
	1,4-Dichlorobenzene	50	33	66			39	90	
	1,2-Dichlorobenzene	50	33	66			45	90	
	2,2-oxybis(1-Chloropropane)	50	33	66			44	99	
	2-Methylphenol	50	34	68			28	89	
	Hexachloroethane	50	33	66			38	104	
	N-Nitroso-di-n-propylamine	50	35	70			48	96	
	3+4-Methylphenols	50	35	70			35	110	
	Nitrobenzene	50	37	74			51	100	
	Isophorone	50	35	70			57	99	
	2-Nitrophenol	50	36	72			50	105	
	2,4-Dimethylphenol	50	35	70			44	97	
	bis(2-Chloroethoxy)methane	50	36	72			65	100	
	2,4-Dichlorophenol	50	38	76			50	94	
	1,2,4-Trichlorobenzene	50	36	72			41	104	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

DG No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	RPD
PB09112BS	Naphthalene	50	36	72			57	99	
	4-Chloroaniline	50	9.6	19		*	20	84	
	Hexachlorobutadiene	50	40	80			44	103	
	4-Chloro-3-methylphenol	50	40	80			39	101	
	2-Methylnaphthalene	50	36	72			56	104	
	Hexachlorocyclopentadiene	100	65	65			20	100	
	2,4,6-Trichlorophenol	50	36	72			45	99	
	2,4,5-Trichlorophenol	50	36	72			43	102	
	2-Chloronaphthalene	50	34	68			56	103	
	2-Nitroaniline	50	37	74			55	113	
	Acenaphthylene	50	35	70			60	98	
	Dimethylphthalate	50	35	70			58	105	
	2,6-Dinitrotoluene	50	36	72			60	103	
	Acenaphthene	50	34	68			56	104	
	3-Nitroaniline	50	16	32			25	96	
	2,4-Dinitrophenol	100	63	63			20	112	
	Dibenzofuran	50	35	70			50	130	
	4-Nitrophenol	100	82	82			20	115	
	2,4-Dinitrotoluene	50	36	72			57	103	
	Fluorene	50	36	72			61	104	
	Diethylphthalate	50	36	72			58	103	
	4-Chlorophenyl-phenylether	50	36	72			45	105	
	4-Nitroaniline	50	33	66			41	126	
	4,6-Dinitro-2-methylphenol	50	38	76			35	105	
	N-Nitrosodiphenylamine	50	36	72			70	115	
	4-Bromophenyl-phenylether	50	39	78			60	110	
	Hexachlorobenzene	50	38	76			56	110	
	Pentachlorophenol	100	80	80			20	125	
	Phenanthrene	50	37	74			60	110	
	Anthracene	50	34	68			60	110	
	Carbazole	50	33	66			57	115	
	Di-n-butylphthalate	50	36	72			58	103	
	Fluoranthene	50	37	74			60	110	
	Pyrene	50	37	74			50	110	
	Butylbenzylphthalate	50	36	72			57	115	
	Benzo(a)anthracene	50	36	72			60	105	
	3,3-Dichlorobenzidine	50	25	50			33	121	
	Chrysene	50	36	72			57	108	
	bis(2-Ethylhexyl)phthalate	50	35	70			58	123	
	Di-n-octyl phthalate	50	33	66			66	124	
	Indeno(1,2,3-cd)pyrene	50	33	66			35	127	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	RPD
PB09112BS	Benzo(b)fluoranthene	50	35	70			49	116	
	Benzo(k)fluoranthene	50	33	66			52	111	
	Benzo(a)pyrene	50	35	70			58	102	
	Dibenz(a,h)anthracene	50	37	74			53	127	
	Benzo(g,h,i)perylene	50	38	76			42	121	
PB09181BS	2-Chlorophenol	1700	1000	59			52	107	
	Phenol	1700	1100	65			20	150	
	bis(2-Chloroethyl)ether	1700	1300	76			37	114	
	1,3-Dichlorobenzene	1700	1000	59			44	99	
	1,4-Dichlorobenzene	1700	980	58			40	101	
	1,2-Dichlorobenzene	1700	980	58			51	93	
	2,2-oxybis(1-Chloropropane)	1700	1200	71			44	102	
	2-Methylphenol	1700	1100	65			50	100	
	Hexachloroethane	1700	950	56			43	101	
	N-Nitroso-di-n-propylamine	1700	1000	59			20	150	
	3+4-Methylphenols	1700	1100	65			30	106	
	Nitrobenzene	1700	1000	59			50	109	
	Isophorone	1700	1100	65			48	111	
	2-Nitrophenol	1700	980	58			52	116	
	2,4-Dimethylphenol	1700	960	56			47	109	
	bis(2-Chloroethoxy)methane	1700	1100	65			51	111	
	2,4-Dichlorophenol	1700	1100	65			55	109	
	1,2,4-Trichlorobenzene	1700	1000	59			42	98	
	Naphthalene	1700	1100	65			34	120	
	4-Chloroaniline	1700	690	41			15	92	
	Hexachlorobutadiene	1700	1000	59			20	150	
	4-Chloro-3-methylphenol	1700	1100	65			60	100	
	2-Methylnaphthalene	1700	1100	65			49	115	
	Hexachlorocyclopentadiene	3300	1400	42			20	107	
	2,4,6-Trichlorophenol	1700	980	58			50	112	
	2,4,5-Trichlorophenol	1700	1100	65			55	105	
	2-Chloronaphthalene	1700	1000	59			50	113	
	2-Nitroaniline	1700	920	54			52	110	
	Acenaphthylene	1700	1100	65			52	107	
	Dimethylphthalate	1700	990	58			45	122	
	2,6-Dinitrotoluene	1700	1000	59			49	116	
	Acenaphthene	1700	1100	65			65	100	
	3-Nitroaniline	1700	900	53			27	88	
	2,4-Dinitrophenol	3300	1700	52			26	131	
	Dibenzofuran	1700	1100	65			52	113	
	4-Nitrophenol	3300	2000	61			45	95	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

DG No.: T5908

Client: Metcalf & Eddy, Inc.

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	RPD
PB09181BS	2,4-Dinitrotoluene	1700	1000	59			56	104	
	Fluorene	1700	1000	59			47	117	
	Diethylphthalate	1700	1000	59			49	115	
	4-Chlorophenyl-phenylether	1700	990	58			37	127	
	4-Nitroaniline	1700	1200	71			41	115	
	4,6-Dinitro-2-methylphenol	1700	1200	71			40	105	
	N-Nitrosodiphenylamine	1700	1200	71			20	150	
	4-Bromophenyl-phenylether	1700	1100	65			53	113	
	Hexachlorobenzene	1700	1100	65			48	118	
	Pentachlorophenol	3300	2100	64			20	150	
	Phenanthrene	1700	1200	71			20	150	
	Anthracene	1700	1200	71			54	108	
	Carbazole	1700	1600	94			54	117	
	Di-n-butylphthalate	1700	1200	71			52	112	
	Fluoranthene	1700	1300	76			55	105	
	Pyrene	1700	1100	65			20	150	
	Butylbenzylphthalate	1700	1000	59			55	120	
	Benzo(a)anthracene	1700	1100	65			60	100	
	3,3-Dichlorobenzidine	1700	1100	65			31	111	
	Chrysene	1700	1100	65			51	115	
	bis(2-Ethylhexyl)phthalate	1700	1000	59			54	124	
	Di-n-octyl phthalate	1700	1100	65			53	122	
	Indeno(1,2,3-cd)pyrene	1700	1100	65			42	124	
	Benzo(b)fluoranthene	1700	980	58			42	126	
	Benzo(k)fluoranthene	1700	990	58			43	125	
	Benzo(a)pyrene	1700	1000	59			58	102	
	Dibenz(a,h)anthracene	1700	1100	65			41	130	
	Benzo(g,h,i)perylene	1700	1100	65			39	130	

5.4 SEMI-VOLATILE CALIBRATIONS SUMMARY

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: BNAB Calibration Date(s): 11/17/2005 11/17/2005

Calibration Time(s): 20:34 23:19

LAB FILE ID: RRF020 = BB027105.D RRF050 = BB027107.D
RRF080 = BB027103.D RRF120 = BB027106.D RRF160 = BB027104.D

COMPOUND		RRF020	RRF050	RRF080	RRF120	RRF160	$\overline{RRF}$	% RSD	
Phenol	*	1.921	1.931	1.941	1.855	1.872	1.904	2.0	*
bis(2-Chloroethyl)ether	*	1.407	1.379	1.364	1.350	1.342	1.368	1.9	*
2-Chlorophenol	*	1.448	1.480	1.384	1.346	1.361	1.404	4.1	*
1,2-Dichlorobenzene	*	1.479	1.423	1.321	1.243	1.226	1.338	8.3	*
1,3-Dichlorobenzene	*	1.533	1.503	1.446	1.378	1.332	1.438	5.8	*
1,4-Dichlorobenzene	*	1.550	1.609	1.447	1.377	1.341	1.465	7.7	*
2-Methylphenol	*	1.148	1.149	1.148	1.101	1.098	1.129	2.4	*
2,2-oxybis(1-Chloroprop	*	1.612	1.606	1.551	1.522	1.526	1.563	2.8	*
3+4-Methylphenols	*	1.521	1.480	1.393	1.299	1.319	1.402	6.9	*
n-Nitroso-di-n-propylam	*	0.945	0.922	0.859	0.851	0.847	0.885	5.1	*
Hexachloroethane	*	0.785	0.762	0.740	0.700	0.693	0.736	5.4	*
Nitrobenzene	*	0.331	0.336	0.318	0.332	0.317	0.327	2.7	*
Isophorone	*	0.631	0.631	0.612	0.631	0.627	0.626	1.3	*
2-Nitrophenol	*	0.205	0.217	0.212	0.216	0.218	0.214	2.5	*
2,4-Dimethylphenol	*	0.326	0.321	0.319	0.321	0.312	0.320	1.6	*
bis(2-Chloroethoxy)meth	*	0.462	0.461	0.450	0.459	0.449	0.456	1.4	*
2,4-Dichlorophenol	*	0.301	0.302	0.294	0.288	0.278	0.293	3.4	*
1,2,4-Trichlorobenzene	*	0.300	0.306	0.281	0.275	0.258	0.284	6.8	*
Naphthalene	*	1.091	1.062	1.023	1.004	0.938	1.024	5.7	*
4-Chloroaniline	*	0.465	0.454	0.456	0.447	0.442	0.453	1.9	*
Hexachlorobutadiene	*	0.141	0.138	0.125	0.126	0.121	0.130	6.7	*
4-Chloro-3-methylphenol	*	0.319	0.316	0.316	0.328	0.322	0.320	1.6	*
2-Methylnaphthalene	*	0.648	0.641	0.612	0.593	0.574	0.614	5.1	*
Hexachlorocyclopentadie	*	0.233	0.264	0.233	0.219	0.218	0.233	8.0	*
2,4,6-Trichlorophenol	*	0.319	0.331	0.305	0.316	0.307	0.316	3.3	*
2,4,5-Trichlorophenol	*	0.346	0.349	0.335	0.337	0.335	0.340	2.0	*
2-Chloronaphthalene	*	1.239	1.174	1.061	1.021	0.967	1.092	10.2	*
2-Nitroaniline	*	0.308	0.330	0.315	0.329	0.328	0.322	3.1	*
Dimethylphthalate	*	1.431	1.400	1.289	1.253	1.231	1.321	6.8	*
Acenaphthylene	*	1.940	1.857	1.708	1.691	1.611	1.761	7.6	*
2,6-Dinitrotoluene	*	0.360	0.380	0.361	0.368	0.370	0.368	2.2	*
3-Nitroaniline	*	0.388	0.398	0.374	0.384	0.395	0.388	2.4	*
Acenaphthene	*	1.196	1.133	1.045	1.025	0.992	1.078	7.8	*
2,4-Dinitrophenol	*	0.040	0.108	0.132	0.155	0.179	0.123	43.3	*
4-Nitrophenol	*	0.228	0.283	0.285	0.294	0.317	0.281	11.7	*
Dibenzofuran	*	1.756	1.664	1.504	1.446	1.375	1.549	10.2	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: BNAB Calibration Date(s): 11/17/2005 11/17/2005

Calibration Time(s): 20:34 23:19

LAB FILE ID: RRF020 = BB027105.D RRF050 = BB027107.D
RRF080 = BB027103.D RRF120 = BB027106.D RRF160 = BB027104.D

COMPOUND		RRF020	RRF050	RRF080	RRF120	RRF160	RRF	% RSD	
2,4-Dinitrotoluene	*	0.451	0.456	0.415	0.413	0.414	0.430	5.1	*
Diethylphthalate	*	1.323	1.364	1.208	1.229	1.197	1.264	5.9	*
4-Chlorophenyl-phenylet	*	0.607	0.577	0.521	0.491	0.450	0.529	12.0	*
Fluorene	*	1.415	1.341	1.175	1.148	1.085	1.233	11.3	*
4-Nitroaniline	*	0.347	0.371	0.335	0.333	0.354	0.348	4.5	*
4,6-Dinitro-2-methylphe	*	0.105	0.143	0.166	0.175	0.181	0.154	20.1	*
n-Nitrosodiphenylamine	*	0.774	0.721	0.693	0.650	0.620	0.692	8.7	*
4-Bromophenyl-phenyleth	*	0.214	0.204	0.207	0.200	0.186	0.202	5.2	*
Hexachlorobenzene	*	0.242	0.222	0.223	0.216	0.198	0.220	7.2	*
Pentachlorophenol	*	0.096	0.132	0.142	0.141	0.139	0.130	14.9	*
Phenanthrene	*	1.249	1.166	1.162	1.116	1.062	1.151	6.0	*
Anthracene	*	1.267	1.218	1.189	1.124	1.086	1.177	6.2	*
Carbazole	*	1.220	1.163	1.115	1.093	1.053	1.129	5.7	*
Di-n-butylphthalate	*	1.663	1.603	1.602	1.565	1.509	1.588	3.6	*
Fluoranthene	*	1.319	1.301	1.304	1.265	1.187	1.275	4.2	*
Pyrene	*	1.609	1.542	1.459	1.440	1.396	1.489	5.7	*
Butylbenzylphthalate	*	0.829	0.854	0.832	0.849	0.843	0.841	1.3	*
3,3-Dichlorobenzidine	*	0.431	0.441	0.420	0.434	0.409	0.427	2.9	*
Benzo(a)anthracene	*	1.376	1.345	1.239	1.251	1.233	1.289	5.2	*
Chrysene	*	1.263	1.220	1.133	1.034	0.961	1.122	11.2	*
Bis(2-ethylhexyl)phthal	*	1.130	1.088	1.028	0.978	0.921	1.029	8.1	*
Di-n-octyl phthalate	*	1.944	1.981	1.980	1.993	2.028	1.985	1.5	*
Benzo(b)fluoranthene	*	1.325	1.363	1.389	1.403	1.427	1.381	2.8	*
Benzo(k)fluoranthene	*	1.520	1.388	1.441	1.449	1.385	1.437	3.8	*
Benzo(a)pyrene	*	1.232	1.264	1.289	1.312	1.330	1.285	3.0	*
Indeno(1,2,3-cd)pyrene	*	0.803	0.967	0.975	1.067	1.136	0.990	12.7	*
Dibenzo(a,h)anthracene	*	0.769	0.903	0.977	0.994	1.043	0.937	11.4	*
Benzo(g,h,i)perylene	*	0.853	0.971	1.015	1.023	1.057	0.984	8.1	*
2-Fluorophenol	*	1.264	1.320	1.318	1.324	1.349	1.315	2.4	*
Phenol-d5	*	1.725	1.753	1.735	1.719	1.747	1.736	0.8	*
Nitrobenzene-d5	*	0.309	0.314	0.308	0.323	0.312	0.313	1.9	*
2-Fluorobiphenyl	*	1.313	1.245	1.162	1.103	1.047	1.174	9.1	*
2,4,6-Tribromophenol	*	0.185	0.194	0.179	0.180	0.173	0.182	4.3	*
Terphenyl-d14	*	0.987	0.966	0.887	0.874	0.838	0.910	7.0	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: BNAE Calibration Date(s): 11/16/2005 11/16/2005

Calibration Time(s): 20:47 22:33

LAB FILE ID: RRF020 = BE027011.D RRF050 = BE027013.D
RRF080 = BE027009.D RRF120 = BE027012.D RRF160 = BE027010.D

COMPOUND		RRF020	RRF050	RRF080	RRF120	RRF160	$\overline{RRF}$	% RSD	
Phenol	*	1.545	1.696	1.775	1.801	1.768	1.717	6.0	*
bis(2-Chloroethyl)ether	*	1.051	1.105	1.161	1.125	1.186	1.126	4.6	*
2-Chlorophenol	*	1.169	1.282	1.370	1.410	1.381	1.322	7.4	*
1,2-Dichlorobenzene	*	1.302	1.457	1.554	1.534	1.471	1.464	6.8	*
1,3-Dichlorobenzene	*	1.383	1.470	1.555	1.531	1.490	1.486	4.5	*
1,4-Dichlorobenzene	*	1.413	1.548	1.626	1.598	1.545	1.546	5.3	*
2-Methylphenol	*	0.986	1.072	1.118	1.183	1.174	1.107	7.3	*
2,2-oxybis(1-Chloroprop	*	0.953	1.065	1.104	1.202	1.222	1.109	9.8	*
3+4-Methylphenols	*	1.306	1.420	1.489	1.539	1.497	1.450	6.3	*
n-Nitroso-di-n-propylam	*	1.146	1.194	1.292	1.310	1.257	1.240	5.5	*
Hexachloroethane	*	0.614	0.675	0.693	0.708	0.677	0.673	5.3	*
Nitrobenzene	*	0.452	0.471	0.498	0.493	0.464	0.476	4.1	*
Isophorone	*	0.686	0.713	0.726	0.736	0.697	0.712	2.9	*
2-Nitrophenol	*	0.190	0.230	0.247	0.259	0.246	0.234	11.5	*
2,4-Dimethylphenol	*	0.311	0.377	0.417	0.409	0.387	0.380	11.0	*
bis(2-Chloroethoxy)meth	*	0.351	0.422	0.455	0.457	0.434	0.424	10.2	*
2,4-Dichlorophenol	*	0.285	0.312	0.342	0.348	0.332	0.324	7.9	*
1,2,4-Trichlorobenzene	*	0.295	0.334	0.368	0.368	0.351	0.343	8.9	*
Naphthalene	*	0.920	1.021	1.061	0.976	0.847	0.965	8.7	*
4-Chloroaniline	*	0.365	0.377	0.384	0.362	0.360	0.370	2.8	*
Hexachlorobutadiene	*	0.192	0.210	0.225	0.230	0.219	0.215	7.0	*
4-Chloro-3-methylphenol	*	0.332	0.369	0.390	0.390	0.376	0.371	6.4	*
2-Methylnaphthalene	*	0.644	0.740	0.790	0.737	0.679	0.718	7.9	*
Hexachlorocyclopentadie	*	0.292	0.373	0.429	0.445	0.450	0.398	16.7	*
2,4,6-Trichlorophenol	*	0.365	0.418	0.475	0.491	0.490	0.448	12.3	*
2,4,5-Trichlorophenol	*	0.368	0.446	0.457	0.483	0.488	0.448	10.8	*
2-Chloronaphthalene	*	1.072	1.203	1.257	1.228	1.179	1.188	6.0	*
2-Nitroaniline	*	0.387	0.414	0.435	0.447	0.440	0.425	5.7	*
Dimethylphthalate	*	1.228	1.311	1.397	1.383	1.355	1.335	5.1	*
Acenaphthylene	*	1.642	1.827	1.921	1.740	1.650	1.756	6.8	*
2,6-Dinitrotoluene	*	0.274	0.323	0.333	0.351	0.368	0.330	10.8	*
3-Nitroaniline	*	0.245	0.257	0.250	0.283	0.293	0.266	8.0	*
Acenaphthene	*	1.016	1.222	1.289	1.254	1.200	1.196	8.9	*
2,4-Dinitrophenol	*	0.046	0.102	0.140	0.179	0.183	0.130	44.1	*
4-Nitrophenol	*	0.222	0.264	0.278	0.296	0.272	0.266	10.3	*
Dibenzofuran	*	1.464	1.646	1.720	1.581	1.500	1.582	6.6	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: BNAE Calibration Date(s): 11/16/2005 11/16/2005

Calibration Time(s): 20:47 22:33

LAB FILE ID: RRF020 = BE027011.D RRF050 = BE027013.D
RRF080 = BE027009.D RRF120 = BE027012.D RRF160 = BE027010.D

COMPOUND		RRF020	RRF050	RRF080	RRF120	RRF160	RRF	% RSD	
2,4-Dinitrotoluene	*	0.340	0.396	0.431	0.445	0.456	0.414	11.3	*
Diethylphthalate	*	1.223	1.315	1.351	1.262	1.209	1.272	4.7	*
4-Chlorophenyl-phenylet	*	0.622	0.698	0.782	0.784	0.737	0.725	9.3	*
Fluorene	*	1.307	1.489	1.583	1.431	1.389	1.440	7.2	*
4-Nitroaniline	*	0.252	0.250	0.289	0.305	0.300	0.279	9.5	*
4,6-Dinitro-2-methylphe	*	0.080	0.119	0.138	0.158	0.163	0.132	25.5	*
n-Nitrosodiphenylamine	*	0.651	0.766	0.759	0.760	0.688	0.725	7.2	*
4-Bromophenyl-phenyleth	*	0.217	0.241	0.251	0.266	0.261	0.247	7.9	*
Hexachlorobenzene	*	0.242	0.266	0.291	0.297	0.290	0.277	8.3	*
Pentachlorophenol	*	0.139	0.165	0.179	0.194	0.191	0.174	12.9	*
Phenanthrene	*	1.073	1.193	1.176	1.077	0.950	1.094	8.9	*
Anthracene	*	1.108	1.214	1.227	1.104	0.962	1.123	9.5	*
Carbazole	*	0.769	0.787	0.762	0.769	0.720	0.761	3.3	*
Di-n-butylphthalate	*	1.340	1.373	1.315	1.148	1.016	1.238	12.2	*
Fluoranthene	*	1.229	1.348	1.346	1.252	1.133	1.262	7.1	*
Pyrene	*	1.438	1.557	1.478	1.341	1.145	1.392	11.4	*
Butylbenzylphthalate	*	0.699	0.749	0.728	0.710	0.656	0.708	4.9	*
3,3-Dichlorobenzidine	*	0.381	0.413	0.389	0.405	0.380	0.394	3.7	*
Benzo(a)anthracene	*	1.329	1.427	1.430	1.395	1.285	1.373	4.7	*
Chrysene	*	1.153	1.278	1.292	1.247	1.185	1.231	4.9	*
Bis(2-ethylhexyl)phthal	*	0.947	1.036	1.034	0.989	0.894	0.980	6.2	*
Di-n-octyl phthalate	*	1.478	1.649	1.597	1.572	1.422	1.544	6.0	*
Benzo(b)fluoranthene	*	1.333	1.487	1.572	1.661	1.709	1.552	9.6	*
Benzo(k)fluoranthene	*	1.282	1.425	1.473	1.518	1.447	1.429	6.2	*
Benzo(a)pyrene	*	1.219	1.360	1.437	1.515	1.485	1.403	8.4	*
Indeno(1,2,3-cd)pyrene	*	1.185	1.278	1.267	1.266	1.205	1.240	3.4	*
Dibenzo(a,h)anthracene	*	0.986	1.106	1.163	1.241	1.226	1.144	9.1	*
Benzo(g,h,i)perylene	*	1.123	1.171	1.177	1.182	1.165	1.164	2.0	*
2-Fluorophenol	*	1.156	1.256	1.241	1.301	1.284	1.248	4.5	*
Phenol-d5	*	1.511	1.701	1.831	1.850	1.792	1.737	8.0	*
Nitrobenzene-d5	*	0.417	0.468	0.485	0.474	0.453	0.459	5.7	*
2-Fluorobiphenyl	*	1.215	1.382	1.426	1.382	1.308	1.343	6.2	*
2,4,6-Tribromophenol	*	0.168	0.189	0.210	0.221	0.216	0.201	11.0	*
Terphenyl-d14	*	0.973	1.067	1.060	0.984	0.897	0.996	7.0	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: BNAF Calibration Date(s): 11/17/2005 11/17/2005

Calibration Time(s): 19:01 21:56

LAB FILE ID: RRF020 = BF000850.D RRF050 = BF000852.D
RRF080 = BF000849.D RRF100 = BF000855.D RRF120 = BF000853.D

COMPOUND		RRF020	RRF050	RRF080	RRF100	RRF120	$\overline{RRF}$	% RSD	
Phenol	*	2.588	2.279	2.146	1.916	1.979	2.182	12.3	*
bis(2-Chloroethyl)ether	*	2.183	1.952	1.734	1.373	1.604	1.769	17.7	*
2-Chlorophenol	*	1.605	1.562	1.489	1.452	1.509	1.523	4.0	*
1,2-Dichlorobenzene	*	1.574	1.462	1.383	1.279	1.301	1.400	8.7	*
1,3-Dichlorobenzene	*	1.616	1.593	1.553	1.471	1.549	1.556	3.6	*
1,4-Dichlorobenzene	*	1.778	1.716	1.660	1.570	1.639	1.673	4.7	*
2-Methylphenol	*	1.506	1.470	1.359	1.311	1.348	1.399	6.0	*
2,2-oxybis(1-Chloroprop	*	1.687	1.508	1.388	1.224	1.224	1.406	14.0	*
3+4-Methylphenols	*	1.765	1.725	1.522	1.428	1.497	1.587	9.4	*
n-Nitroso-di-n-propylam	*	1.312	1.247	1.171	1.016	0.968	1.143	12.9	*
Hexachloroethane	*	0.662	0.628	0.585	0.515	0.524	0.583	11.0	*
Nitrobenzene	*	0.475	0.445	0.397	0.399	0.366	0.416	10.4	*
Isophorone	*	0.827	0.781	0.766	0.743	0.749	0.773	4.3	*
2-Nitrophenol	*	0.228	0.221	0.208	0.203	0.204	0.213	5.2	*
2,4-Dimethylphenol	*	0.347	0.333	0.319	0.299	0.304	0.320	6.2	*
bis(2-Chloroethoxy)meth	*	0.520	0.479	0.444	0.436	0.413	0.458	9.1	*
2,4-Dichlorophenol	*	0.275	0.270	0.253	0.251	0.246	0.259	4.9	*
1,2,4-Trichlorobenzene	*	0.302	0.289	0.272	0.267	0.267	0.279	5.6	*
Naphthalene	*	1.162	1.041	0.929	0.879	0.875	0.977	12.6	*
4-Chloroaniline	*	0.463	0.435	0.421	0.419	0.411	0.430	4.8	*
Hexachlorobutadiene	*	0.141	0.134	0.129	0.131	0.132	0.133	3.5	*
4-Chloro-3-methylphenol	*	0.383	0.369	0.351	0.338	0.335	0.355	5.8	*
2-Methylnaphthalene	*	0.701	0.640	0.584	0.558	0.573	0.611	9.7	*
Hexachlorocyclopentadie	*	0.142	0.227	0.235	0.274	0.268	0.229	23.1	*
2,4,6-Trichlorophenol	*	0.348	0.373	0.354	0.364	0.354	0.359	2.8	*
2,4,5-Trichlorophenol	*	0.435	0.403	0.374	0.383	0.389	0.397	6.0	*
2-Chloronaphthalene	*	1.208	1.121	1.008	0.979	0.964	1.056	9.9	*
2-Nitroaniline	*	0.496	0.518	0.521	0.512	0.505	0.510	2.0	*
Dimethylphthalate	*	1.387	1.397	1.394	1.332	1.334	1.369	2.4	*
Acenaphthylene	*	2.190	2.082	1.892	1.839	1.703	1.941	10.0	*
2,6-Dinitrotoluene	*	0.355	0.358	0.349	0.338	0.341	0.348	2.5	*
3-Nitroaniline	*	0.356	0.348	0.353	0.379	0.386	0.364	4.7	*
Acenaphthene	*	1.712	1.478	1.317	1.212	1.086	1.361	17.9	*
2,4-Dinitrophenol	*	0.027	0.081	0.108	0.135	0.144	0.099	47.7	*
4-Nitrophenol	*	1.030	0.960	0.932	0.934	0.947	0.961	4.2	*
Dibenzofuran	*	1.811	1.649	1.514	1.487	1.508	1.594	8.6	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: BNAF Calibration Date(s): 11/17/2005 11/17/2005

Calibration Time(s): 19:01 21:56

LAB FILE ID: RRF020 = BF000850.D RRF050 = BF000852.D
RRF080 = BF000849.D RRF100 = BF000855.D RRF120 = BF000853.D

COMPOUND		RRF020	RRF050	RRF080	RRF100	RRF120	RRF	% RSD	
2,4-Dinitrotoluene	*	0.473	0.482	0.466	0.480	0.490	0.478	1.9	*
Diethylphthalate	*	1.584	1.531	1.413	1.449	1.305	1.456	7.4	*
4-Chlorophenyl-phenylet	*	0.596	0.583	0.543	0.563	0.514	0.560	5.8	*
Fluorene	*	1.426	1.328	1.237	1.151	1.135	1.255	9.8	*
4-Nitroaniline	*	0.348	0.390	0.347	0.364	0.355	0.361	4.9	*
4,6-Dinitro-2-methylphe	*	0.077	0.108	0.115	0.119	0.115	0.107	16.0	*
n-Nitrosodiphenylamine	*	0.704	0.652	0.602	0.616	0.559	0.627	8.7	*
4-Bromophenyl-phenyleth	*	0.199	0.188	0.194	0.192	0.186	0.192	2.7	*
Hexachlorobenzene	*	0.234	0.246	0.242	0.254	0.233	0.242	3.6	*
Pentachlorophenol	*	0.117	0.137	0.148	0.150	0.150	0.140	10.1	*
Phenanthrene	*	1.265	1.190	1.087	1.090	1.025	1.131	8.4	*
Anthracene	*	1.357	1.201	1.114	1.084	1.031	1.157	11.0	*
Carbazole	*	0.997	0.926	0.751	0.835	0.794	0.861	11.6	*
Di-n-butylphthalate	*	1.662	1.448	1.403	1.309	1.179	1.400	12.8	*
Fluoranthene	*	1.162	1.112	1.026	1.045	1.019	1.073	5.8	*
Pyrene	*	1.568	1.428	1.405	1.381	1.449	1.446	5.0	*
Butylbenzylphthalate	*	0.936	0.848	0.864	0.823	0.767	0.848	7.3	*
3,3-Dichlorobenzidine	*	0.427	0.414	0.432	0.388	0.413	0.415	4.1	*
Benzo(a)anthracene	*	1.382	1.324	1.334	1.336	1.341	1.343	1.7	*
Chrysene	*	1.301	1.287	1.277	1.192	1.296	1.271	3.5	*
Bis(2-ethylhexyl)phthal	*	1.284	1.157	1.070	1.028	1.000	1.108	10.4	*
Di-n-octyl phthalate	*	2.256	2.034	1.913	1.830	1.865	1.980	8.7	*
Benzo(b)fluoranthene	*	1.470	1.791	1.707	1.999	2.203	1.834	15.3	*
Benzo(k)fluoranthene	*	1.520	1.095	1.111	0.927	0.684	1.067	28.7	*
Benzo(a)pyrene	*	1.320	1.249	1.279	1.293	1.309	1.290	2.1	*
Indeno(1,2,3-cd)pyrene	*	0.900	0.875	0.879	0.846	0.837	0.867	3.0	*
Dibenzo(a,h)anthracene	*	0.817	0.801	0.791	0.780	0.774	0.793	2.2	*
Benzo(g,h,i)perylene	*	0.720	0.679	0.672	0.645	0.642	0.672	4.7	*
2-Fluorophenol	*	1.378	1.604	1.673	1.634	1.732	1.604	8.4	*
Phenol-d5	*	1.999	1.986	1.925	1.687	1.814	1.882	7.0	*
Nitrobenzene-d5	*	0.460	0.419	0.411	0.395	0.392	0.415	6.6	*
2-Fluorobiphenyl	*	1.409	1.337	1.267	1.219	1.160	1.278	7.6	*
2,4,6-Tribromophenol	*	0.200	0.217	0.225	0.222	0.237	0.220	6.1	*
Terphenyl-d14	*	1.036	1.027	0.984	1.036	1.034	1.023	2.2	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: BNAB Calibration Date/Time: 11/30/2005 11:42

Lab File ID: BB027443.D Init. Calib. Date(s): 11/17/2005 11/17/2005

EPA Sample No.: SSTD080 Init. Calib. Time(s): 20:34 23:19

GC Column: RTX-5 SIL ID: 032 (mm)

COMPOUND	$\overline{RRF}$	RRF080	MIN RRF	%D	MAX%D
Phenol	1.904	1.927		1.2	20.0
bis(2-Chloroethyl)ether	1.368	1.354		1.0	
2-Chlorophenol	1.404	1.373		2.2	
1,2-Dichlorobenzene	1.338	1.280		4.3	
1,3-Dichlorobenzene	1.438	1.436		0.1	
1,4-Dichlorobenzene	1.465	1.462		0.2	20.0
2-Methylphenol	1.129	1.119		0.9	
2;2-oxybis(1-Chloropropane)	1.563	1.535		1.8	
3+4-Methylphenols	1.402	1.397		0.4	
n-Nitroso-di-n-propylamine	0.885	0.908	0.050	2.6	
Hexachloroethane	0.736	0.740		0.5	
Nitrobenzene	0.327	0.327		0.0	
Isophorone	0.626	0.623		0.5	
2-Nitrophenol	0.214	0.223		4.2	20.0
2,4-Dimethylphenol	0.320	0.310		3.1	
bis(2-Chloroethoxy)methane	0.456	0.451		1.1	
2,4-Dichlorophenol	0.293	0.300		2.4	20.0
1,2,4-Trichlorobenzene	0.284	0.289		1.8	
Naphthalene	1.024	1.008		1.6	
4-Chloroaniline	0.453	0.405		10.6	
Hexachlorobutadiene	0.130	0.140		7.7	20.0
4-Chloro-3-methylphenol	0.320	0.332		3.8	20.0
2-Methylnaphthalene	0.614	0.599		2.4	
Hexachlorocyclopentadiene	0.233	0.224	0.050	3.9	
2,4,6-Trichlorophenol	0.316	0.318		0.6	20.0
2,4,5-Trichlorophenol	0.340	0.353		3.8	
2-Chloronaphthalene	1.092	1.064		2.6	
2-Nitroaniline	0.322	0.343		6.5	
Dimethylphthalate	1.321	1.368		3.6	
Acenaphthylene	1.761	1.753		0.5	
2,6-Dinitrotoluene	0.368	0.376		2.2	
3-Nitroaniline	0.388	0.338		12.9	
Acenaphthene	1.078	1.047		2.9	20.0
2,4-Dinitrophenol	0.123	0.132	0.050	7.3	
4-Nitrophenol	0.281	0.322	0.050	14.6	
Dibenzofuran	1.549	1.562		0.8	
2,4-Dinitrotoluene	0.430	0.445		3.5	
Diethylphthalate	1.264	1.291		2.1	
4-Chlorophenyl-phenylether	0.529	0.539		1.9	
Fluorene	1.233	1.229		0.3	
4-Nitroaniline	0.348	0.324		6.9	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: BNAB Calibration Date/Time: 11/30/2005 11:42

Lab File ID: BB027443.D Init. Calib. Date(s): 11/17/2005 11/17/2005

EPA Sample No.: SSTD080 Init. Calib. Time(s): 20:34 23:19

GC Column: RTX-5 SIL ID: 032 (mm)

COMPOUND	RRF	RRF080	MIN RRF	%D	MAX%D
4,6-Dinitro-2-methylphenol	0.154	0.165		7.1	
n-Nitrosodiphenylamine	0.692	0.654		5.5	20.0
4-Bromophenyl-phenylether	0.202	0.207		2.5	
Hexachlorobenzene	0.220	0.218		0.9	
Pentachlorophenol	0.130	0.143		10.0	20.0
Phenanthrene	1.151	1.138		1.1	
Anthracene	1.177	1.067		9.3	
Carbazole	1.129	0.932		17.4	
Di-n-butylphthalate	1.588	1.472		7.3	
Fluoranthene	1.275	1.231		3.5	20.0
Pyrene	1.489	1.568		5.3	
Butylbenzylphthalate	0.841	0.842		0.1	
3,3-Dichlorobenzidine	0.427	0.510		19.4	
Benzo(a)anthracene	1.289	1.372		6.4	
Chrysene	1.122	1.098		2.1	
Bis(2-ethylhexyl)phthalate	1.029	1.013		1.6	
Di-n-octyl phthalate	1.985	1.894		4.6	20.0
Benzo(b)fluoranthene	1.381	1.444		4.6	
Benzo(k)fluoranthene	1.437	1.453		1.1	
Benzo(a)pyrene	1.285	1.332		3.7	20.0
Indeno(1,2,3-cd)pyrene	0.990	1.026		3.6	
Dibenzo(a,h)anthracene	0.937	1.013		8.1	
Benzo(g,h,i)perylene	0.984	1.064		8.1	
2-Fluorophenol	1.315	1.333		1.4	
Phenol-d5	1.736	1.806		4.0	
Nitrobenzene-d5	0.313	0.323		3.2	
2-Fluorobiphenyl	1.174	1.147		2.3	
2,4,6-Tribromophenol	0.182	0.195		7.1	
Terphenyl-d14	0.910	0.964		5.9	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: BNAE Calibration Date/Time: 12/3/2005 21:36

Lab File ID: BE027489.D Init. Calib. Date(s): 11/16/2005 11/16/2005

EPA Sample No.: SSTD120 Init. Calib. Time(s): 20:47 22:33

GC Column: RTX-5 SIL ID: 032 (mm)

COMPOUND	RRF	RRF120	MIN RRF	%D	MAX%D
Phenol	1.717	1.750		1.9	20.0
bis(2-Chloroethyl)ether	1.126	1.055		6.3	
2-Chlorophenol	1.322	1.365		3.3	
1,2-Dichlorobenzene	1.464	1.417		3.2	
1,3-Dichlorobenzene	1.486	1.520		2.3	
1,4-Dichlorobenzene	1.546	1.479		4.3	20.0
2-Methylphenol	1.107	1.161		4.9	
2,2-oxybis(1-Chloropropane)	1.109	1.328		19.7	
3+4-Methylphenols	1.450	1.575		8.6	
n-Nitroso-di-n-propylamine	1.240	1.194	0.050	3.7	
Hexachloroethane	0.673	0.618		8.2	
Nitrobenzene	0.476	0.437		8.2	
Isophorone	0.712	0.743		4.4	
2-Nitrophenol	0.234	0.224		4.3	20.0
2,4-Dimethylphenol	0.380	0.352		7.4	
bis(2-Chloroethoxy)methane	0.424	0.421		0.7	
2,4-Dichlorophenol	0.324	0.323		0.3	20.0
1,2,4-Trichlorobenzene	0.343	0.343		0.0	
Naphthalene	0.965	0.903		6.4	
4-Chloroaniline	0.370	0.375		1.4	
Hexachlorobutadiene	0.215	0.205		4.7	20.0
4-Chloro-3-methylphenol	0.371	0.361		2.7	20.0
2-Methylnaphthalene	0.718	0.699		2.6	
Hexachlorocyclopentadiene	0.398	0.287	0.050	27.9	
2,4,6-Trichlorophenol	0.448	0.449		0.2	20.0
2,4,5-Trichlorophenol	0.448	0.469		4.7	
2-Chloronaphthalene	1.188	1.101		7.3	
2-Nitroaniline	0.425	0.397		6.6	
Dimethylphthalate	1.335	1.203		9.9	
Acenaphthylene	1.756	1.602		8.8	
2,6-Dinitrotoluene	0.330	0.317		3.9	
3-Nitroaniline	0.266	0.279		4.9	
Acenaphthene	1.196	1.152		3.7	20.0
2,4-Dinitrophenol	0.130	0.147	0.050	13.1	
4-Nitrophenol	0.266	0.272	0.050	2.3	
Dibenzofuran	1.582	1.458		7.8	
2,4-Dinitrotoluene	0.414	0.419		1.2	
Diethylphthalate	1.272	1.104		13.2	
4-Chlorophenyl-phenylether	0.725	0.675		6.9	
Fluorene	1.440	1.307		9.2	
4-Nitroaniline	0.279	0.270		3.2	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: BNAE Calibration Date/Time: 12/3/2005 21:36

Lab File ID: BE027489.D Init. Calib. Date(s): 11/16/2005 11/16/2005

EPA Sample No.: SSTD120 Init. Calib. Time(s): 20:47 22:33

GC Column: RTX-5 SIL ID: 032 (mm)

COMPOUND	RRF	RRF120	MIN RRF	%D	MAX%D
4,6-Dinitro-2-methylphenol	0.132	0.161		22.0	
n-Nitrosodiphenylamine	0.725	0.687		5.2	20.0
4-Bromophenyl-phenylether	0.247	0.245		0.8	
Hexachlorobenzene	0.277	0.284		2.5	
Pentachlorophenol	0.174	0.168		3.4	20.0
Phenanthrene	1.094	1.031		5.8	
Anthracene	1.123	1.030		8.3	
Carbazole	0.761	0.792		4.1	
Di-n-butylphthalate	1.238	1.115		9.9	
Fluoranthene	1.262	1.212		4.0	20.0
Pyrene	1.392	1.243		10.7	
Butylbenzylphthalate	0.708	0.636		10.2	
3,3-Dichlorobenzidine	0.394	0.444		12.7	
Benzo(a)anthracene	1.373	1.321		3.8	
Chrysene	1.231	1.178		4.3	
Bis(2-ethylhexyl)phthalate	0.980	0.862		12.0	
Di-n-octyl phthalate	1.544	1.399		9.4	20.0
Benzo(b)fluoranthene	1.552	1.590		2.4	
Benzo(k)fluoranthene	1.429	1.363		4.6	
Benzo(a)pyrene	1.403	1.420		1.2	20.0
Indeno(1,2,3-cd)pyrene	1.240	1.457		17.5	
Dibenzo(a,h)anthracene	1.144	1.328		16.1	
Benzo(g,h,i)perylene	1.164	1.263		8.5	
2-Fluorophenol	1.248	1.242		0.5	
Phenol-d5	1.737	1.624		6.5	
Nitrobenzene-d5	0.459	0.432		5.9	
2-Fluorobiphenyl	1.343	1.273		5.2	
2,4,6-Tribromophenol	0.201	0.188		6.5	
Terphenyl-d14	0.996	0.914		8.2	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: BNAE Calibration Date/Time: 12/4/2005 07:21

Lab File ID: BE027511.D Init. Calib. Date(s): 11/16/2005 11/16/2005

EPA Sample No.: SSTD050 Init. Calib. Time(s): 20:47 22:33

GC Column: RTX-5 SIL ID: 032 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Phenol	1.717	1.774		3.3	20.0
bis(2-Chloroethyl)ether	1.126	1.408		25.0	
2-Chlorophenol	1.322	1.472		11.3	
1,2-Dichlorobenzene	1.464	1.515		3.5	
1,3-Dichlorobenzene	1.486	1.646		10.8	
1,4-Dichlorobenzene	1.546	1.608		4.0	20.0
2-Methylphenol	1.107	1.207		9.0	
2,2-oxybis(1-Chloropropane)	1.109	1.386		25.0	
3+4-Methylphenols	1.450	1.664		14.8	
n-Nitroso-di-n-propylamine	1.240	1.301	0.050	4.9	
Hexachloroethane	0.673	0.705		4.8	
Nitrobenzene	0.476	0.477		0.2	
Isophorone	0.712	0.777		9.1	
2-Nitrophenol	0.234	0.230		1.7	20.0
2,4-Dimethylphenol	0.380	0.363		4.5	
bis(2-Chloroethoxy)methane	0.424	0.448		5.7	
2,4-Dichlorophenol	0.324	0.339		4.6	20.0
1,2,4-Trichlorobenzene	0.343	0.362		5.5	
Naphthalene	0.965	1.083		12.2	
4-Chloroaniline	0.370	0.397		7.3	
Hexachlorobutadiene	0.215	0.213		0.9	20.0
4-Chloro-3-methylphenol	0.371	0.384		3.5	20.0
2-Methylnaphthalene	0.718	0.793		10.4	
Hexachlorocyclopentadiene	0.398	0.264	0.050	33.7	
2,4,6-Trichlorophenol	0.448	0.431		3.8	20.0
2,4,5-Trichlorophenol	0.448	0.458		2.2	
2-Chloronaphthalene	1.188	1.201		1.1	
2-Nitroaniline	0.425	0.389		8.5	
Dimethylphthalate	1.335	1.332		0.2	
Acenaphthylene	1.756	1.864		6.2	
2,6-Dinitrotoluene	0.330	0.330		0.0	
3-Nitroaniline	0.266	0.324		21.8	
Acenaphthene	1.196	1.185		0.9	20.0
2,4-Dinitrophenol	0.130	0.094	0.050	27.7	
4-Nitrophenol	0.266	0.236	0.050	11.3	
Dibenzofuran	1.582	1.655		4.6	
2,4-Dinitrotoluene	0.414	0.424		2.4	
Diethylphthalate	1.272	1.273		0.1	
4-Chlorophenyl-phenylether	0.725	0.732		1.0	
Fluorene	1.440	1.454		1.0	
4-Nitroaniline	0.279	0.309		10.8	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: BNAE Calibration Date/Time: 12/4/2005 07:21

Lab File ID: BE027511.D Init. Calib. Date(s): 11/16/2005 11/16/2005

EPA Sample No.: SSTD050 Init. Calib. Time(s): 20:47 22:33

GC Column: RTX-5 SIL ID: 032 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
4,6-Dinitro-2-methylphenol	0.132	0.139		5.3	
n-Nitrosodiphenylamine	0.725	0.780		7.6	20.0
4-Bromophenyl-phenylether	0.247	0.269		8.9	
Hexachlorobenzene	0.277	0.291		5.1	
Pentachlorophenol	0.174	0.143		17.8	20.0
Phenanthrene	1.094	1.272		16.3	
Anthracene	1.123	1.268		12.9	
Carbazole	0.761	1.078		41.7	
Di-n-butylphthalate	1.238	1.432		15.7	
Fluoranthene	1.262	1.463		15.9	20.0
Pyrene	1.392	1.554		11.6	
Butylbenzylphthalate	0.708	0.721		1.8	
3,3-Dichlorobenzidine	0.394	0.456		15.7	
Benzo(a)anthracene	1.373	1.484		8.1	
Chrysene	1.231	1.411		14.6	
Bis(2-ethylhexyl)phthalate	0.980	0.988		0.8	
Di-n-octyl phthalate	1.544	1.667		8.0	20.0
Benzo(b)fluoranthene	1.552	1.521		2.0	
Benzo(k)fluoranthene	1.429	1.569		9.8	
Benzo(a)pyrene	1.403	1.456		3.8	20.0
Indeno(1,2,3-cd)pyrene	1.240	1.552		25.2	
Dibenzo(a,h)anthracene	1.144	1.366		19.4	
Benzo(g,h,i)perylene	1.164	1.376		18.2	
2-Fluorophenol	1.248	1.208		3.2	
Phenol-d5	1.737	1.633		6.0	
Nitrobenzene-d5	0.459	0.466		1.5	
2-Fluorobiphenyl	1.343	1.350		0.5	
2,4,6-Tribromophenol	0.201	0.188		6.5	
Terphenyl-d14	0.996	1.044		4.8	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: BNAF Calibration Date/Time: 11/30/2005 13:27

Lab File ID: BF001094.D Init. Calib. Date(s): 11/17/2005 11/17/2005

EPA Sample No.: SSTD080 Init. Calib. Time(s): 19:01 21:56

GC Column: RTX-5 SIL ID: 032 (mm)

COMPOUND	RRF	RRF080	MIN RRF	%D	MAX%D
Phenol	2.182	2.163		0.9	20.0
bis(2-Chloroethyl)ether	1.769	1.651		6.7	
2-Chlorophenol	1.523	1.518		0.3	
1,2-Dichlorobenzene	1.400	1.388		0.9	
1,3-Dichlorobenzene	1.556	1.582		1.7	
1,4-Dichlorobenzene	1.673	1.645		1.7	20.0
2-Methylphenol	1.399	1.345		3.9	
2,2-oxybis(1-Chloropropane)	1.406	1.671		18.8	
3+4-Methylphenols	1.587	1.578		0.6	
n-Nitroso-di-n-propylamine	1.143	1.166	0.050	2.0	
Hexachloroethane	0.583	0.569		2.4	
Nitrobenzene	0.416	0.418		0.5	
Isophorone	0.773	0.808		4.5	
2-Nitrophenol	0.213	0.208		2.3	20.0
2,4-Dimethylphenol	0.320	0.303		5.3	
bis(2-Chloroethoxy)methane	0.458	0.464		1.3	
2,4-Dichlorophenol	0.259	0.243		6.2	20.0
1,2,4-Trichlorobenzene	0.279	0.272		2.5	
Naphthalene	0.977	0.951		2.7	
4-Chloroaniline	0.430	0.403		6.3	
Hexachlorobutadiene	0.133	0.129		3.0	20.0
4-Chloro-3-methylphenol	0.355	0.345		2.8	20.0
2-Methylnaphthalene	0.611	0.596		2.5	
Hexachlorocyclopentadiene	0.229	0.241	0.050	5.2	
2,4,6-Trichlorophenol	0.359	0.339		5.6	20.0
2,4,5-Trichlorophenol	0.397	0.370		6.8	
2-Chloronaphthalene	1.056	0.990		6.2	
2-Nitroaniline	0.510	0.555		8.8	
Dimethylphthalate	1.369	1.389		1.5	
Acenaphthylene	1.941	1.882		3.0	
2,6-Dinitrotoluene	0.348	0.352		1.1	
3-Nitroaniline	0.364	0.315		13.5	
Acenaphthene	1.361	1.173		13.8	20.0
2,4-Dinitrophenol	0.099	0.087	0.050	12.1	
4-Nitrophenol	0.961	0.916	0.050	4.7	
Dibenzofuran	1.594	1.481		7.1	
2,4-Dinitrotoluene	0.478	0.461		3.6	
Diethylphthalate	1.456	1.412		3.0	
4-Chlorophenyl-phenylether	0.560	0.562		0.4	
Fluorene	1.255	1.196		4.7	
4-Nitroaniline	0.361	0.323		10.5	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Consulting Group Contract: METC02

Lab Code: CHEM Case No.: T5908 SAS No.: T5908 SDG No.: T5908

Instrument ID: BNAF Calibration Date/Time: 11/30/2005 13:27

Lab File ID: BF001094.D Init. Calib. Date(s): 11/17/2005 11/17/2005

EPA Sample No.: SSTD080 Init. Calib. Time(s): 19:01 21:56

GC Column: RTX-5 SIL ID: 032 (mm)

COMPOUND	RRF	RRF080	MIN RRF	%D	MAX%D
4,6-Dinitro-2-methylphenol	0.107	0.109		1.9	
n-Nitrosodiphenylamine	0.627	0.656		4.6	20.0
4-Bromophenyl-phenylether	0.192	0.205		6.8	
Hexachlorobenzene	0.242	0.250		3.3	
Pentachlorophenol	0.140	0.147		5.0	20.0
Phenanthrene	1.131	1.077		4.8	
Anthracene	1.157	1.131		2.2	
Carbazole	0.861	0.678		21.3	
Di-n-butylphthalate	1.400	1.419		1.4	
Fluoranthene	1.073	1.107		3.2	20.0
Pyrene	1.446	1.455		0.6	
Butylbenzylphthalate	0.848	0.789		7.0	
3,3-Dichlorobenzidine	0.415	0.380		8.4	
Benzo(a)anthracene	1.343	1.353		0.7	
Chrysene	1.271	1.235		2.8	
Bis(2-ethylhexyl)phthalate	1.108	1.136		2.5	
Di-n-octyl phthalate	1.980	1.870		5.6	20.0
Benzo(b)fluoranthene	1.834	1.750		4.6	
Benzo(k)fluoranthene	1.067	1.308		22.6	
Benzo(a)pyrene	1.290	1.355		5.0	20.0
Indeno(1,2,3-cd)pyrene	0.867	0.624		28.0	
Dibenzo(a,h)anthracene	0.793	0.660		16.8	
Benzo(g,h,i)perylene	0.672	0.555		17.4	
2-Fluorophenol	1.604	1.797		12.0	
Phenol-d5	1.882	1.964		4.4	
Nitrobenzene-d5	0.415	0.428		3.1	
2-Fluorobiphenyl	1.278	1.189		7.0	
2,4,6-Tribromophenol	0.220	0.228		3.6	
Terphenyl-d14	1.023	1.063		3.9	

All other compounds must meet a minimum RRF of 0.010.

5.5 SEMI-VOLATILE MISCELLANEOUS DATA

CHEMTECH

Lab Chronicle

Order ID:	T5908	Order Date:	11/28/2005 5:17:24 PM
Client:	Metcalf & Eddy, Inc.	Project:	Brownsville Industrial Site 1 Sackman Street
Contact:	Nelson Abrams	Location	E42

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
T5908-01	**S-1**	**SOIL**			**11/28/05**			**11/28/05**
			SVOC-TCL BNA -20	8270		12/02/05	12/04/05	
T5908-02	**S-1D**	**SOIL**			**11/28/05**			**11/28/05**
			SVOC-TCL BNA -20	8270		11/29/05	11/30/05	
T5908-03	**S-2**	**SOIL**			**11/28/05**			**11/28/05**
			SVOC-TCL BNA -20	8270		11/29/05	11/30/05	
T5908-04	**S-3**	**SOIL**			**11/28/05**			**11/28/05**
			SVOC-TCL BNA -20	8270		11/29/05	11/30/05	
T5908-04RE	**S-3RE**	**SOIL**			**11/28/05**			**11/28/05**
			SVOC-TCL BNA -20	8270		11/29/05	12/01/05	
T5908-05	**S-4**	**SOIL**			**11/28/05**			**11/28/05**
			SVOC-TCL BNA -20	8270		11/29/05	11/30/05	
T5908-05RE	**S-4RE**	**SOIL**			**11/28/05**			**11/28/05**
			SVOC-TCL BNA -20	8270		11/29/05	12/01/05	
T5908-06	**S-5**	**SOIL**			**11/28/05**			**11/28/05**
			SVOC-TCL BNA -20	8270		12/02/05	12/04/05	
T5908-07	**S-6**	**SOIL**			**11/28/05**			**11/28/05**
			SVOC-TCL BNA -20	8270		11/29/05	11/30/05	
T5908-08	**FIELDBLANK**	**WATER**			**11/28/05**			**11/28/05**
			SVOC-TCL BNA -20	8270		11/29/05	11/30/05	

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EXTRACTION LOGPAGE

SOP#: M 3541 Cleanup Method: N/A Batch #: PB09181

Matrix: Solid Extraction Date: 12/2/2005

Review By: AE Extracted By: BP

Method of Extraction ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

QC	mL. Spike	Concentration ug/mL	STD REF. # FROM LOG
Blank Spike	1.0ML	50/160 ppm	OEP1036
Surrogate	1.0ML	100/150 ppm	OEP1047

CHEMICAL USED	LOT #
Methylene Chloride	ER1286
Sodium Sulfate	ER1282
Acetone	ER1264

Extraction Conformance/Non-Conformance Comments:

KD Bath Temperature: 65 C Envap Temperature: 40 C

Received Date: 12/2/05 Received By: DRP

Delivered Date: 12/03/05 Delivered By: RD

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EXTRACTION LOGPAGE

Method: 8270 Supervisor Review: [signature] Date: 12/3/05 PREP Batch #: pb09181

Extraction Date: 12/2/2005 Initials: BP Concentration Date: 12/3/05 Initials: GA

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	Weight/ Volume mL	PH	Ver. Sur./Spike	Final Vol. (mL)	COMMENTS
T5929-01MS		SVOCMS Group1	30.21	N/A	deepa	1	
T5929-01MSD		SVOCMS Group1	30.22		deepa	1	
pb09181BL		SVOCMS Group1	30.08		deepa	1	
pb09181BS		SVOCMS Group1	30.02		deepa	1	
T5908-01	S-1	SVOC-TCL BNA -20	30.22		deepa	1	Reextract
T5929-02	G-SWCORNERSIDEWALL	SVOCMS Group1	30.18		deepa	1	
T5929-03	G-30EASTSWCORNERSWI	SVOCMS Group1	30.14		deepa	1	DNR
T5929-05	G-60EASTSWCORNER-SWE	SVOCMS Group1	30.09		deepa	1	12/3/05
T5929-09	G-15NSECORNER-SWI	SVOCMS Group1	30.12		deepa	1	
T5929-10	G-45NSECORNER-SWE	SVOCMS Group1	30.10		deepa	1	
T5929-11	G-60NSECORNER-BOTTOM	SVOCMS Group1	30.16		deepa	1	
T5908-06	S-5	SVOC-TCL BNA -20	30.33		deepa	1	Re extract
T5929-01	G-SWCORNERBOTTOM	SVOCMS Group1	30.20		deepa	1	
T5929-04	G-60EASTSWCORNER-BOTSIDEWALL	SVOCMS Group1	30.10		deepa	1	
T5929-06	G-90EASTSWCORNER-SWI	SVOCMS Group1	30.07		deepa	1	
T5929-07	G-120EASTSWCORNER-SWE	SVOCMS Group1	30.05		deepa	1	
T5929-08	G-SECORNERBOTTOM	SVOCMS Group1	30.14		deepa	1	
T5929-12	G-75NSECORNER-SWI	SVOCMS Group1	30.29		deepa	1	
T5929-13	G-94NSECORNER-SWE	SVOCMS Group1	30.28		deepa	1	
T5929-14	G-105NSECORNER-SWE	SVOCMS Group1	30.27	4	deepa	1	

* Extracts relinquished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in Semi-Volatile lab, must sign.

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EXTRACTION LOGPAGE

Method: | Supervisor Review: | Date: / / | PREP Batch #: pb09181

Extraction Date:12/2/2005 | Initials: | Concentration Date: / / | Initials:

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	Weight/ Volume mL	PH	Ver. Sur./Spike	Final Vol. (mL)	COMMENTS
T5929-01MS		SVOCMS Group1	30.21	NA	deepak	1.0	
T5929-01MSD		SVOCMS Group1	30.22		deepak		
pb09181BL		SVOCMS Group1	30.05		deepak		
pb09181BS		SVOCMS Group1	30.02		deepak		
T5908-01	S-1	SVOC-TCL BNA -20	30.22		deepak		
T5929-02	G-SWCORNERSIDEWALL	SVOCMS Group1	30.18		deepak		
T5929-03	G-30EASTSWCORNERSWI	SVOCMS Group1	30.14		deepak		
T5929-05	G-60EASTSWCORNER-SWE	SVOCMS Group1	30.04		deepak		
T5929-09	G-15NSECORNER-SWI	SVOCMS Group1	30.12		deepak		
T5929-10	G-45NSECORNER-SWE	SVOCMS Group1	30.10		deepak		
T5929-11	G-60NSECORNER-BOTTOM	SVOCMS Group1	30.16		deepak		
T5908-06	S-5	SVOC-TCL BNA -20	30.33		deepak		
T5929-01	G-SWCORNERBOTTOM	SVOCMS Group1	30.20		deepak		
T5929-04	G-60EASTSWCORNER-BOTSIDEWALL	SVOCMS Group1	30.10		deepak		
T5929-06	G-90EASTSWCORNER-SWI	SVOCMS Group1	30.07		deepak		
T5929-07	G-120EASTSWCORNER-SWE	SVOCMS Group1	30.05		deepak		
T5929-08	G-SECORNERBOTTOM	SVOCMS Group1	30.14		deepak		
T5929-12	G-75NSECORNER-SWI	SVOCMS Group1	30.21		deepak		
T5929-13	G-94NSECORNER-SWE	SVOCMS Group1	30.28		deepak		
T5929-14	G-105NSECORNER-SWE	SVOCMS Group1	30.27	"	deepak	"	

* Extracts relinguished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in analytical lab, must sign.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Daily Analysis Run log For GC/MS #: BNA E

Start Date: 11/16/ QT End Date: 11/17/ QT Analyst DMR Review By:

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
DFTPP	OEP1094	Initial Calibration Stds.	OEP1089 — OEP1095
CCC	OEP1092	Subdirectory	BE 111605
Internal Standards	OES1871	HP Acquire Method	BNA-E
ICV	OEP1096	HP Processing Method	BE 11165.M Diox 1116.M

SR. #:	Sample ID	Data File Name	Manual Integration peak number/reason	Comment	RE,DL Data file
1	50ng DFTPP	BE05705	—	OK	—
2	200ng Dioxane ICC	08	2B.	OK	—
3	80ng BNA ICC	09	33B. 36B. 84B	OK	—
4	160ng BNA ICC	10	33B. 81B. 84B. 87B	OK	—
5	200ng BNA ICC	11	12B. 33B. 78B. 84B	OK	—
6	120ng BNA ICC	12	33B. 36B. 84B	OK	—
7	40ng BNA ICC	13	84B	OK	—
8	100 ng BNA ICC	14	33B. 84B	OK	—
9	10 ng BNA ICC	15	33B. 69B. 84B	OK	—
10	80ng ICV	16	—	OK	—
11	80ng CCC	17	—	OK	—
12	50ng Dioxane ICC	18	—	OK	—
13	10ng Dioxane ICC	19	2B	OK	—
14	100 ng Dioxane ICC	20	—	OK	—
15	4 ng Dioxane ICC	21	—	OK	—
16	15% 69-87	22	—	OK	—
17					BNA 111705
18					
19					
20					

Manual Integration key:

Poor Resolution of peaks exhibited on chromatograms (A)
Peak Integrated by software incorrectly (B)
Poor Resolution of peaks exhibited on chromatograms (C)
Other- explain in the comment section (D)

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Daily Analysis Run log For GC/MS #: BNA_E

Start Date: 12/03/07 End Date: 12/04/07 Analyst JDS Review By: [illegible]

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
DFTPP	OEP1634	Initial Calibration Stds.	OEP1549 – OEP1557
CCC	OEP1551, 1554	Subdirectory	B120307
Internal Standards	OES1504	HP Acquire Method	BNA-B
ICV	NA	HP Processing Method	BE111606.M, BE112107.M

SR. #:	Sample ID	Data File Name	Manual Integration peak number/reason	Comment	RE,DL Data file
1	JDSDFTPP	B0027487	—	OK	—
2	JDSBNA CCC	88	89 B.	OK (CCC)	—
3	JDSBNA CCC	89	41B. 57B. 87B.	OK (BSTD)	—
4	TS513-02	90	—	OK	—
5	-03	91	—	OK	—
6	-04	92	—	OK	—
7	TS511-11	93	—	OK	—
8	-12	94	—	OK	—
9	PB0515DB	95	—	OK	—
10	PB0515DBSP	96	—	OK	—
11	TS508-01	97	—	OK	—
12	-06	98	—	OK	—
13	TS505-10	99	—	OK	—
14	-07	B0027500	—	OK	—
15	PB0518DB	DUP 01	—	OK	—
16	PB0518DBS	02	—	OK	—
17	TS535-07	03	—	OK	—
18	-08MS	04	—	OK	—
19	-08MSD	05	—	OK	—
20	PB0515DB	06	—	OK	189

Manual Integration key:

Poor Resolution of peaks exhibited on chromatograms **(A)**
Peak Integrated by software incorrectly **(B)**
Poor Resolution of peaks exhibited on chromatograms **(C)**
Other- explain in the comment section **(D)**

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Daily Analysis Run log For GC/MS #: BNA_E

Start Date: 12/04/01 End Date: 12/04/01 Analyst JONA Review By: _____

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
DFTPP	082504	Initial Calibration Stds.	082504 - 082507
CCC	082501, 1504	Subdirectory	BE120301
Internal Standards	08181204	HP Acquire Method	BNA_E
ICV	NA	HP Processing Method	BE1116.M BE1121 LPA-KBW.M

SR. #:	Sample ID	Data File Name	Manual Integration peak number/reason	Comment	RE,DL Data file
1	50NGDFTPP	BE120109	—	6:30AM OK	—
2	50NGBNA CCC	10	—	OK (CAP)	—
3	50NGBNA CCC	11	—	OK (BOB)	—
4	50NGBNA CCC	12		Not Required	—
5	TJ353-01	13	—	OK	—
6	-08	14	—	OK	—
7	-07	15	—	OK	—
8	-10	16	—	OK	—
9	-05	17	—	OK	—
10	-06	18	—	OK	—
11	-09 2X	19	—	OK	—
12	TJ353-11	20	—	OK	—
13	-13	21	—	OK	—
14	-06	22	—	OK	—
15	-09	23	—	OK	—
16	-08	24	—	OK	—
17	-02 BNA	25	—	OK	—
18	-04	26	—	OK	—
19	-01	27	—	OK	—
20	-03	28	—	OK	—

Manual Integration key:

Poor Resolution of peaks exhibited on chromatograms (A) Poor Resolution of peaks exhibited on chromatograms (C)
Peak Integrated by software incorrectly (B) Other- explain in the comment section (D)

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Daily Analysis Run log For GC/MS #: BNA_E

Start Date: 12/04 ST End Date: 12/04 ST Analyst DMR Review By: [signature]

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
DFTPP	OEP1834	Initial Calibration Stds.	OEP1849 – OEP1853
CCC	OEP1851, 1854	Subdirectory	BE120304
Internal Standards	OEP1824 + DMR	HP Acquire Method	BNA-E
ICV	NA	HP Processing Method	BE11160.M BE11214P3_NBW.M

SR. #:	Sample ID	Data File Name	Manual Integration peak number/reason	Comment	RE,DL Data file
1	18535-02	BE021203	—	OK	—
2	-04	30	—	OK	—
3	-05 2X	31	—	OK	—
4	-01 MS	32	—	OK	—
5	-01 MSD	33	—	OK	—
6				4:45 PM	
7					DMR 12/15/04
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Manual Integration key:

Poor Resolution of peaks exhibited on chromatograms (A)
Peak Integrated by software incorrectly (B)
Poor Resolution of peaks exhibited on chromatograms (C)
Other- explain in the comment section (D)

CHEMTECH

EXTRACTION LOGPAGE

SOP#: M 3541 Cleanup Method: N/A Batch #: PB09111

Matrix: Solid Extraction Date: 11/29/2005

Review By: RF Extracted By: Kamil

Method of Extraction ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

QC	mL. Spike	Concentration ug/mL	STD REF. # FROM LOG
Matrix Spike	1.0mL	50/100 ppm	OEP1036
Surrogate	1.0mL	100/150 ppm	OEP1047

CHEMICAL USED	LOT #
Methylene Chloride	ER1283
Sodium Sulfate	ER1282
Sand	ER1228

Extraction Conformance/Non-Conformance Comments:

KD Bath Temperature: 65 C

Received Date: 11/30/05

Delivered Date: 11/30/05

Envap Temperature: 45 C

Received By: am

Delivered By: RF

CHEMTECH

EXTRACTION LOGPAGE

Method: 8270 Supervisor Review: RF Date: 11/30/05 PREP Batch #: PB09111

Extraction Date: 11/29/2005 Initials: BP Concentration Date: 11/29/05 Initials: RP

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	Weight/ Volume mL	PH	Ver. Sur./Spike	Final Vol. (mL)	COMMENTS
T5903-02MS		SVOC-PP BNA -25	30.15	N/A	rajesh	1	
T5903-02MSD		SVOC-PP BNA -25	30.21		rajesh	1	
PB09111BL		SVOC-PP BNA -25	30.02		rajesh	1	
PB09111BS		SVOC-PP BNA -25	30.01		rajesh	1	
T5903-01	SS-1	SVOC-PP BNA -25	30.21		rajesh	1	
T5903-02	SS-2	SVOC-PP BNA -25	30.18		rajesh	1	
T5903-03	SS-3	SVOC-PP BNA -25	30.09		rajesh	1	
T5903-04	SS-4	SVOC-PP BNA -25	30.08		rajesh	1	
T5906-01	BOTTOM	SVOC-STARS	30.10		rajesh	1	
T5908-01	S-1	SVOC-TCL BNA -20	30.23		rajesh	1	
T5908-02	S-1D	SVOC-TCL BNA -20	30.30		rajesh	1	
T5908-03	S-2	SVOC-TCL BNA -20	30.15		rajesh	1	
T5908-04	S-3	SVOC-TCL BNA -20	30.29		rajesh	1	
T5908-05	S-4	SVOC-TCL BNA -20	30.13		rajesh	1	
T5908-06	S-5	SVOC-TCL BNA -20	30.16		rajesh	1	
T5908-07	S-6	SVOC-TCL BNA -20	30.24		rajesh	1	

* Extracts relinguished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in Semi-Volatile lab, must sign.

CHEMTECH

EXTRACTION LOGPAGE

Method: _____ Supervisor Review: _____ Date: / / PREP Batch #: PB09111

Extraction Date: 11/29/2005 Initials: ___ Concentration Date: / / Initials: ___

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	Weight/ Volume mL	PH	Ver. Sur./Spike	Final Vol. (mL)	COMMENTS
T5903-02MS		SVOC-PP BNA -25	30.15		rajesh	1	
T5903-02MSD		SVOC-PP BNA -25	30.21		rajesh	1	
PB09111BL		SVOC-PP BNA -25	30.02		rajesh	1	
PB09111BS		SVOC-PP BNA -25	30.01		rajesh	1	
T5903-01	SS-1	SVOC-PP BNA -25	30.21		rajesh	1	
T5903-02	SS-2	SVOC-PP BNA -25	30.18		rajesh	1	
T5903-03	SS-3	SVOC-PP BNA -25	30.09		rajesh	1	
T5903-04	SS-4	SVOC-PP BNA -25	30.08		rajesh	1	
T5906-01	BOTTOM	SVOC-STARS	30.10		rajesh	1	
T5908-01	S-1	SVOC-TCL BNA -20	30.23		rajesh	1	
T5908-02	S-1D	SVOC-TCL BNA -20	30.30		rajesh	1	
T5908-03	S-2	SVOC-TCL BNA -20	30.15		rajesh	1	
T5908-04	S-3	SVOC-TCL BNA -20	30.29		rajesh	1	
T5908-05	S-4	SVOC-TCL BNA -20	30.13		rajesh	1	
T5908-06	S-5	SVOC-TCL BNA -20	30.16		rajesh	1	
T5908-07	S-6	SVOC-TCL BNA -20	30.24		rajesh	1	

* Extracts relinguished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in Semi-Volatile lab, must sign.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Daily Analysis Run log For GC/MS #: BNA F

Start Date: 11/30/05 End Date: 11/30/05 Analyst ASG Review By: [illegible]

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
DFTPP	060P1034	Initial Calibration Stds.	060P1048-060P1055
CCC	060P1052	Subdirectory	~~BF111130~~ BF113005 ASG 1930
Internal Standards	060P1931	HP Acquire Method	BNA_F.M
ICV	NA	HP Processing Method	BF111FC.M

SR. #:	Sample ID	Data File Name	Manual Integration peak number/reason	Comment	RE,DL Data file
1	50 ng DFTPP	BF011093	—	OK	—
2	80 ng BNA-CCC	94	10;33;36;70;87;88B 12:57 PM	OK	—
3	PB09111B	95	NA	OK	NA
4	PB09111BS	96			
5	T5906-01	97			
	T5908-02	98			
7	06	94	—	~~ISR~~ RE EXT	— ASG 12/01
8	07	BF001100	—	OK	—
9	01	01	—	SRL RE EX	
10	03	02	NA	OK	NA
11	05	03			
12	04	04			
13	T5903-03	05			
14	T5903-04	06			
15	T5903-02	07	—	ISL RE	DF001[illegible] 12 ASG
16	01	08	—	ISL RE	BF001[illegible] 12 ASG
17	02MS	09	—	OK	—
18	02MSD	10	—	OK	—
ASG 12/02	~~T5892~~ T5874-14RE	11		ISL	confirm
20	T5903-01RE	12	10:22 PM	ISL	confirm

Manual Integration key:
Poor Resolution of peaks exhibited on chromatograms (A) Poor Resolution of peaks exhibited on chromatograms (C)
Peak Integrated by software incorrectly (B) Other- explain in the comment section (D)

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Daily Analysis Run log For GC/MS #: BNA F

Start Date: 11/17/05 End Date: 11/18/05 Analyst ASB Review By: [signature]

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
DFTPP	0GS1034	Initial Calibration Stds.	0GP1048-0GP1055
CCC	0GP1007	Subdirectory	BF111705
Internal Standards	0GS1871	HP Acquire Method	BNA_F.M
ICV	NA	HP Processing Method	BF1117C.M; 625F1117.M

11/28 088

SR. #:	Sample ID	Data File Name	Manual Integration peak number/reason	Comment	RE,DL Data file
1	50 ng DFTPP	BF000848	18:32 PM	OK	NA
2	80 ng BNA ICC	49	NA		
3	20 ng BNA ICC	50	62; 3; 33; 52; 53; 61; 69; 75; 86; 87; B		
4	160 ng BNA ICC	51	10; 23; 27; 33; 36; 43; 45; 52; 63; 66; 70; 81; 87; B	Not used	
5	50 ng BNA ICC	52	10; 36; 81; 75; 81; 84; 86; 87		
6	120 ng BNA ICC	53	10; 33; 34; 36; 38; 43; 70; 71; 73; 75; 81; 87		
7	10 ng BNA ICC	54	4; 3; 5; 18; 21; 25; 34; 39; 43; 60; 63; 70; 75; 86	Not used	
8	100 ng BNA ICC	55	33; 38; 36; 70; 71; 75; 87		
9	5 ng BNA ICC	56	4; 3; 5; 10; 21; 25; 26; 28; 29; 34; 52; 58; 60; 61; 81; 86		
10	80 ng BNA ICV	57	10; 33; 36; 80; 87		
11	50 ng BNA ICV	58		OK	
12	PB08675 B	59	NA	OK	
13	PB08675BS	60		OK	
14	T5717-02	61		OK	
15	01	62		OK	
16	01 DL SX	63		Not Required	
17	01 RE	64			
18	01 DL RE SX	65			
19	02 RE	66	10:49 AM		
20					

Manual Integration key:
Poor Resolution of peaks exhibited on chromatograms (A)
Peak Integrated by software incorrectly (B)
Poor Resolution of peaks exhibited on chromatograms (C)
Other- explain in the comment section (D)

CHEMTECH

EXTRACTION LOGPAGE

SOP#: M 3510 RF

Cleanup Method: N/A

Batch #: PB09112

Matrix: Water

Review By: RF

Extraction Date: 11/29/2005

Extracted By: Kamil

Method of Extraction ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

QC	mL. Spike	Concentration ug/mL	STD REF. # FROM LOG
Matrix Spike	1.0mL	50/100	OEP1036
Surrogate	1.0mL	100/150	OEP1047

CHEMICAL USED	LOT #
Methylene Chloride	ER1283
Sodium Sulfate	ER1282
H2SO4 1:1	X570
NAOH	X565

Extraction Conformance/Non-Conformance Comments:

KD Bath Temperature: 65 C

Received Date: 11/30/05

Delivered Date: 11/30/05

Envap Temperature: 45 C

Received By:

Delivered By: RF

CHEMTECH

EXTRACTION LOGPAGE

Method: 8270 Supervisor Review: RF Date: 11/30/05 PREP Batch #: PB09112

Extraction Date: 11/29/2005 Initials: Kamil Concentration Date: 12/9/05 Initials: RP

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	Weight/ Volume mL	PH	Ver. Sur./Spike	Final Vol. (mL)	COMMENTS
PB09112BL		SVOC-TCL BNA -20	1000	7	rajesh	1	
PB09112BS		SVOC-TCL BNA -20	1000	7	rajesh	1	
T5908-08	FIELDBLANK	SVOC-TCL BNA -20	980	7	rajesh	1	

* Extracts relinquished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in Semi-Volatile lab, must sign.

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EXTRACTION LOGPAGE

Method: _____ Supervisor Review: _____ Date: / / PREP Batch #: PB09112

Extraction Date: 11/29/2005 Initials: ____ Concentration Date: / / Initials: ____

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	Weight/ Volume mL	PH	Ver. Sur./Spike	Final Vol. (mL)	COMMENTS
PB09112BL		SVOC-TCL BNA -20	1000	7	rajesh	1	
PB09112BS		SVOC-TCL BNA -20	1000	7	rajesh	1	
T5908-08	FIELDBLANK	SVOC-TCL BNA -20	988	7	rajesh	1	

* Extracts relinguished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in Semi-Volatile lab, must sign.

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Daily Analysis Run log For GC/MS #: BNA_B

Start Date: 11/17/05 End Date: 11/18/05 Analyst Qin Review By: ZHR

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
DFTPP	VEP1034	Initial Calibration Stds.	VEP1046-1057
CCC	VEP1051, 1052	Subdirectory	BB111705
Internal Standards	VES1874	HP Acquire Method	BNA_B
ICV	NA	HP Processing Method	BB1117C.M / BB1117LP.M

SR. #:	Sample ID	Data File Name	Manual Integration peak number/reason	Comment	RE,DL Data file
1	50ng DFTPP	bb027096	—	OK 3:43 PM	NA
2	50ng ICC	97	—		
3	160ng ICC	98	12B		
4	200ng ICC	99	33B		
5	~~180ng ICC~~ 120ng ICC	bb027100	12B		
6 11/18	~~80ng ICV~~ 80ng ICV	01	12B		
7	50ng ICV	02	12B		
8	80ng ICC	03	84B		
9	160ng ICC	04	84B		
10	200ng ICC	05	33B 84B		
11	120ng ICC	06	84B		
12	50ng ICC	07	33B 84B		
13	100ng ICC	08	—	not required	
14	10ng ICC	09	—		
15	80ng ICV	10	84B	OK 1:23 AM	
~~16~~		11			
17		12			
18					
19					
20					

Manual Integration key:
Poor Resolution of peaks exhibited on chromatograms (A)
Peak Integrated by software incorrectly (B)
Poor Resolution of peaks exhibited on chromatograms (C)
Other- explain in the comment section (D)

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Daily Analysis Run log For GC/MS #: BNA B

Start Date: 11/30/05 End Date: 11/30/05 Analyst [illegible] Review By: [illegible]

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
DFTPP	OEP1034	Initial Calibration Stds.	OEP1048-1057
CCC	OEP1052	Subdirectory	BB113005
Internal Standards	OES1927	HP Acquire Method	BNA-B
ICV	MA	HP Processing Method	BB1117C.M

SR. #:	Sample ID	Data File Name	Manual Integration peak number/reason	Comment	RE,DL Data file
1	50ng DFTPP	bb027442	—	OK 11:02 AM	NA
2	80ng BNA CCC	43	15B 84B	OK	
3	PB09112B	44	MA		
4	PB09112BS	45			
5	T5908-08	46			
6	PB09036B	47			
7	PB09036BS	48			
8	T5841-01	49			
9	-02	50			
10	-03	51			
11	-04	52			
12	-05	53			
13	-06	54			
14	-07	55			
15	-08	56			
16	-09	57			
17	-10	58			
18	-11	59		10:24 PM	
19					
20					

Manual Integration key:

Poor Resolution of peaks exhibited on chromatograms **(A)**
Peak Integrated by software incorrectly **(B)**
Poor Resolution of peaks exhibited on chromatograms **(C)**
Other- explain in the comment section **(D)**

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: T5908 MATRIX: Water/Soil

METHOD: 8270

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
a.	Calibration Check Compounds for 8270 and CLP.			✓
b.	System Performance Check Compounds for 8270 and CLP			✓

8270 CALIBRATION CRITERIA

SPCC Compounds	MINRF	CCC Compounds	
		Base/Neutral Fraction	Acid Fraction
N-nitroso-di-n-propylamine	0.050	Acenaphthene	4-Chloro-3-methylphenol
Hexachlorocyclopentadiene	0.050	1,4-Dichlorobenzene	2,4-Dichlorophenol
2,4-Dinitrophenol	0.050	Hexachlorobutadiene	2-Nitrophenol
4-Nitrophenol	0.050	Diphenylamine	Phenol
		Di-n-octyl phthalate	Pentachlorophenol
		Fluoranthene	2,4,6-Trichlorophenol
		Benzo(a)pyrene	

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%
For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for S-4RE.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The MS recoveries met the requirements for all compounds except for 4,6-Dinitro-2-methylphenol, Indeno(1,2,3-cd)pyrene, Benzo(k)fluoranthene, Dibenz(a,h)anthracene and Benzo(g,h,i)perylene. The MSD recoveries met the acceptable requirements.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Martha Guerra
QA REVIEW

12/16/05
Date

6.0 TPH GC SAMPLE RESULTS

CHEMTECH
284 Sheffield Street .Mountainside,NJ 07092.Tel.(908) 789-8900.FAX(908)789-8922

TABULATED RESULTS
TOTAL PETROLEUM HYDROCARBONS
(C8-C40)
Method 8015

Client: METCALF & EDDY, INC.
Project: BROWNSVILLE INDUSTRIAL SITE 1 SACKMAN STR
Collection Date: 11/28/05
Extraction Date: 11/29/05
Initial Wt/Vol: 15.14
Final Wt/Vol: 0.5
Percent Solids 93.6
Dilution Factor: 1

PrepBatch: PB09113
Matrix SOLID
Lab Project: T5908
Lab Sample ID T5908-01
Lab File ID: P9000481.D
Analyst: JJ
Received Date: 11/28/05
Analysis Date: 12/05/05

Client ID	Parameter	Results	Qual	MDL	Units
S-1	TPH GC	ND	U	6703.81	ug/Kg

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TABULATED RESULTS
TOTAL PETROLEUM HYDROCARBONS
(C8-C40)
Method 8015

Client: METCALF & EDDY, INC.
Project: BROWNSVILLE INDUSTRIAL SITE 1 SACKMAN STR
Collection Date: 11/28/05
Extraction Date: 11/29/05
Initial Wt/Vol: 15.08
Final Wt/Vol: 0.5
Percent Solids 94.2
Dilution Factor: 1

PrepBatch: PB09113
Matrix SOLID
Lab Project: T5908
Lab Sample ID T5908-02
Lab File ID: P9000482.D
Analyst: JJ
Received Date: 11/28/05
Analysis Date: 12/05/05

Client ID	Parameter	Results	Qual	MDL	Units
S-1D	TPH GC	ND	U	6687.62	ug/Kg

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TABULATED RESULTS
TOTAL PETROLEUM HYDROCARBONS
(C8-C40)
Method 8015

Client: METCALF & EDDY, INC.
Project: BROWNSVILLE INDUSTRIAL SITE 1 SACKMAN STR
Collection Date: 11/28/05
Extraction Date: 11/29/05
Initial Wt/Vol: 15.06
Final Wt/Vol: 0.5
Percent Solids 88
Dilution Factor: 1

PrepBatch: PB09113
Matrix SOLID
Lab Project: T5908
Lab Sample ID T5908-03
Lab File ID: P9000483.D
Analyst: JJ
Received Date: 11/28/05
Analysis Date: 12/05/05

Client ID	Parameter	Results	Qual	MDL	Units
S-2	TPH GC	15200		7168.30	ug/Kg

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TABULATED RESULTS
TOTAL PETROLEUM HYDROCARBONS
(C8-C40)
Method 8015

Client: METCALF & EDDY, INC.
Project: BROWNSVILLE INDUSTRIAL SITE 1 SACKMAN STR
Collection Date: 11/28/05
Extraction Date: 11/29/05
Initial Wt/Vol: 15.10
Final Wt/Vol: 0.5
Percent Solids 88.5
Dilution Factor: 1

PrepBatch: PB09113
Matrix SOLID
Lab Project: T5908
Lab Sample ID T5908-04
Lab File ID: P9000487.D
Analyst: JJ
Received Date: 11/28/05
Analysis Date: 12/05/05

Client ID	Parameter	Results	Qual	MDL	Units
S-3	TPH GC	32500		7108.92	ug/Kg

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TABULATED RESULTS
TOTAL PETROLEUM HYDROCARBONS
(C8-C40)
Method 8015

Client: METCALF & EDDY, INC.
Project: BROWNSVILLE INDUSTRIAL SITE 1 SACKMAN STR
Collection Date: 11/28/05
Extraction Date: 11/29/05
Initial Wt/Vol: 15.07
Final Wt/Vol: 0.5
Percent Solids 88.2
Dilution Factor: 1

PrepBatch: PB09113
Matrix SOLID
Lab Project: T5908
Lab Sample ID T5908-05
Lab File ID: P9000488.D
Analyst: JJ
Received Date: 11/28/05
Analysis Date: 12/05/05

Client ID	Parameter	Results	Qual	MDL	Units
S-4	TPH GC	15000		7147.30	ug/Kg

CHEMTECH
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TABULATED RESULTS
TOTAL PETROLEUM HYDROCARBONS
(C8-C40)
Method 8015

Client: METCALF & EDDY, INC.
Project: BROWNSVILLE INDUSTRIAL SITE 1 SACKMAN STR
Collection Date: 11/28/05
Extraction Date: 11/29/05
Initial Wt/Vol: 15.12
Final Wt/Vol: 0.5
Percent Solids 93.9
Dilution Factor: 1

PrepBatch: PB09113
Matrix SOLID
Lab Project: T5908
Lab Sample ID T5908-06
Lab File ID: P9000489.D
Analyst: JJ
Received Date: 11/28/05
Analysis Date: 12/05/05

Client ID	Parameter	Results	Qual	MDL	Units
S-5	TPH GC	ND	U	6691.23	ug/Kg

CHEMTECH
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TABULATED RESULTS
TOTAL PETROLEUM HYDROCARBONS
(C8-C40)
Method 8015

Client: METCALF & EDDY, INC.
Project: BROWNSVILLE INDUSTRIAL SITE 1 SACKMAN STR
Collection Date: 11/28/05
Extraction Date: 11/29/05
Initial Wt/Vol: 15.05
Final Wt/Vol: 0.5
Percent Solids 94.2
Dilution Factor: 1

PrepBatch: PB09113
Matrix SOLID
Lab Project: T5908
Lab Sample ID T5908-07
Lab File ID: P9000490.D
Analyst: JJ
Received Date: 11/28/05
Analysis Date: 12/05/05

Client ID	Parameter	Results	Qual	MDL	Units
S-6	TPH GC	ND	U	6700.95	ug/Kg

CHEMTECH
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TABULATED RESULTS
TOTAL PETROLEUM HYDROCARBONS
(C8-C40)
Method 8015

Client: METCALF & EDDY, INC.
Project: BROWNSVILLE INDUSTRIAL SITE 1 SACKMAN STR
Collection Date: 11/28/05
Extraction Date: 11/29/05
Initial Wt/Vol: 980
Final Wt/Vol: 1
Percent Solids 0
Dilution Factor: 1

PrepBatch: PB09114
Matrix WATER
Lab Project: T5908
Lab Sample ID T5908-08
Lab File ID: P9000478.D
Analyst: JJ
Received Date: 11/28/05
Analysis Date: 12/05/05

Client ID	Parameter	Results	Qual	MDL	Units
FIELDBLANK	TPH GC	ND	U	96.94	ug/L

6.1 TPH BLANK RESULTS

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Tel(908)789-8900 Fax(908)789-8922

METHOD BLANK SUMMARY

TOTAL PETROLEUM HYDROCARBONS
(C8-C40)

Prep Batch: PB09114B
Matrix: Water
File name: P9000476.D

Date Extracted: 11/29/05
Analysis Date: 12/5/05
Analyst: JJ

COMPOUNDS	RESULTS (ug/L)	RDL (ug/L)
C8-C40	U	100

MDL - Method Detection Limit
ND - Not detected at or above MDL

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Tel(908)789-8900 Fax(908)789-8922

METHOD BLANK SUMMARY

TOTAL PETROLEUM HYDROCARBONS
(C8-C40)

Prep Batch: PB09113B
Matrix: Solid
File name: P9000479.D

Date Extracted: 11/29/05
Analysis Date: 12/5/05
Analyst: JJ

COMPOUNDS	RESULTS (ug/Kg)	RDL (ug/Kg)
C8-C40	U	3200

MDL - Method Detection Limit
ND - Not detected at or above MDL

CHEMTECH

6.2 TPH QA/QC SUMMARY

CHEMTECH
Chemtech, 284 Sheffield Street, Mountainside, NJ 07092 Tel(908)789-8900 Fax(908)789-8922

Surrogate Recovery Table
TOTAL PETROLEUM HYDROCARBONS

Client: METCALF & EDDY, INC.
Client Project: BROWNSVILLE INDUSTRIAL SITE 1 SACKMAN STREET
Matrix: Solid/Water
Analyst: JJ

		Surrogate Spiked Conc: 20 ppm				
LAB		O-TERPHENYL		TETRACOSANE-D50		
SAMPLE ID	FILENAME	Conc(ppm)	% REC	Conc(ppm)	% REC	
T5908-01	P9000481.D	13.78	69%	10.04	50%	
T5908-02	P9000482.D	14.24	71%	10.07	50%	
T5908-03	P9000483.D	16.01	80%	11.63	58%	
T5908-04	P9000487.D	15.61	78%	12.62	63%	
T5908-05	P9000488.D	15.61	78%	11.18	56%	
T5908-06	P9000489.D	14.09	70%	9.9	50%	*
T5908-07	P9000490.D	13.7	69%	9.66	48%	*
T5908-08	P9000478.D	13.96	70%	10.07	50%	
PB09113B	P9000479.D	12.12	61%	10.01	50%	
PB09113BS	P9000480.D	20.04	100%	15	75%	
PB09114B	P9000476.D	15.32	77%	11.12	56%	
PB09114BS	P9000477.D	19.56	98%	14.48	72%	

	Control Limits
O-TERPHENYL	50-150%
TETRACOSANE-D50	50-150%
NA - Surrogate Diluted Out	
* - Surrogate Outside Control Limits	

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Sequence Table
TOTAL PETROLEUM HYDROCARBONS

Initial Calibration Date: 12/3/05

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
O-TERPHENYL- 14.75 TETRACOSANE-D50 16.08

LAB SAMPLE ID	LAB FILENAME	DATE & TIME ANALYZED	O-TERPH RT #		TETRA-D50 RT #	
100 TRPH STD	P9000403.D	12/3/05 16:50	14.76		16.09	
50 TRPH STD	P9000404.D	12/3/05 17:20	14.75		16.08	
20 TRPH STD	P9000405.D	12/3/05 17:50	14.75		16.08	
10 TRPH STD	P9000406.D	12/3/05 18:21	14.75		16.07	
5 TRPH STD	P9000407.D	12/3/05 18:51	14.74		16.07	
100 #2 F.O.	P9000414.D	12/3/05 22:23	14.72		16.05	
200 #2 F.O.	P9000413.D	12/3/05 21:53	14.72		16.05	
500 #2 F.O.	P9000412.D	12/3/05 21:22	14.72		16.06	
750 #2 F.O.	P9000411.D	12/3/05 20:52	14.81		16.13	
1000 #2 F.O.	P9000409.D	12/3/05 19:52	14.81		16.13	
20 TRPH STD	P9000472.D	12/5/05 3:27	14.72		16.05	
#2 F.O.	P9000473.D	12/5/05 3:57	14.72		16.05	
PB09114B	P9000476.D	12/5/05 5:27	14.72		16.05	
PB09114BS	P9000477.D	12/5/05 5:57	14.72		16.05	
T5908-08	P9000478.D	12/5/05 6:27	14.72		16.05	
PB09113B	P9000479.D	12/5/05 6:57	14.72		16.05	
PB09113BS	P9000480.D	12/5/05 7:27	14.72		16.05	
T5908-01	P9000481.D	12/5/05 7:57	14.72		16.06	
T5908-02	P9000482.D	12/5/05 8:27	14.73		16.06	
T5908-03	P9000483.D	12/5/05 8:58	14.73		16.06	
20 TRPH STD	P9000485.D	12/5/05 9:58	14.73		16.06	
#2 F.O.	P9000486.D	12/5/05 10:28	14.73		16.06	
T5908-04	P9000487.D	12/5/05 10:58	14.73		16.06	
T5908-05	P9000488.D	12/5/05 11:28	14.74		16.07	
T5908-06	P9000489.D	12/5/05 11:58	14.74		16.07	
T5908-07	P9000490.D	12/5/05 12:28	14.74		16.07	
T5908-01MS	P9000491.D	12/5/05 12:59	14.74		16.07	
T5908-01MSD	P9000492.D	12/5/05 13:29	14.74		16.07	
20 TRPH STD	P9000494.D	12/5/05 14:29	14.75		16.07	
#2 F.O.	P9000495.D	12/5/05 14:59	14.75		16.08	

	QC Limits	Lower Limit	Upper Limit
O-TERPHENYL	(± 0.50 minutes)	14.25	15.25
TETRACOSANE d50	(± 0.50 minutes)	15.58	16.58

Column used to flag RT values with an asterisk.
* Values outside of QC limits

CHEMTECH

6.3 TPH MS/MSD SUMMARY

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Tel (908)789-8900 Fax (908)789-8922

BLANK SPIKE
TOTAL PETROLEUM HYDROCARBONS

Prep Batch: PB09114BS
Matrix: Water
Filename: P9000477.D

Date Extracted: 11/29/05
Analysis Date: 12/5/05
Analyst: JJ
Batch: PB09114

Analyte	Spike Added (ug/L)	Blank Conc. (ug/L)	BS Conc. (ug/L)	% Rec	Flag
#2 FUEL OIL	200	0.00	156	78	

2 Fuel Oil Recovery Limits = 50% - 150%

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Tel (908)789-8900 Fax (908)789-8922

BLANK SPIKE
TOTAL PETROLEUM HYDROCARBONS

Prep Batch: PB09113BS
Matrix: Solid
Filename: P9000480.D

Date Extracted: 11/29/05
Analysis Date: 12/5/05
Analyst: JJ
Batch: PB09113

Analyte	Spike Added (ug/Kg)	Blank Conc. (ug/Kg)	BS Conc. (ug/Kg)	% Rec	Flag
#2 FUEL OIL	6667	0.00	5019	75	

2 Fuel Oil Recovery Limits = 50% - 150%

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Tel(908)789-8900 Fax(908)789-8922

MATRIX SPIKE/MATRIX SPIKE DUPLICATE FORM
TOTAL PETROLEUM HYDROCARBONS

MS/MSD

Matrix: SOLID
MS Filename: P9000491.D
MSD Filename: P9000492.D
Sample Spiked T5908-01

Date Extracted: 11/29/05
Analysis Date: 12/5/05
Analyst: JJ
Batch: PB09113

Analyte	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	MS Conc (ug/Kg)	% Rec	Flag
#2 FUEL OIL	6667	0.000	5247	78.7	

Analyte	Spike Added (ug/Kg)		MSD Conc (ug/Kg)	% Rec	Flag
#2 FUEL OIL	6667	0.00	4960	74.4	

RPD	Flag
5.6	

MS/MSD Recovery Limits = 50% - 150%
RPD Limit = +/- 50%

* Denotes analyte outside control limits

6.4 TPH CALIBRATIONS SUMMARY

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 , Tel (908) 789-8900, Fax (908)789-8922

TOTAL PETROLEUM HYDROCARBONS BY GC METHOD 8015
INITIAL CALIBRATION

Date:	12/3/05		
	TPH		
Conc	Area		
95	85320216		
190	112345998	corr. coef	0.99931
380	247435917	slope	700299
950	636510423	inter	-9560836
1900	1332134747		
	DRO		
Conc	Area		
50	54701814		
100	72036102	corr. coef	0.99956
200	159992156	slope	830783
500	408011470	inter	-1922158
1000	832595474		

CHEMTECH
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Continuing Calibration Summary
TOTAL PETROLEUM HYDROCARBONS

20 PPM TRPH CCC

Date: 12/5/05
FileName: P9000472.D
Analyst: JJ

Analyte	Conc Found (ppm)	Conc Added (ppm)	% Rec
PRISTINE	16	20	80
PHYTANE	16	20	82
TOTAL CONC	303	350	87

Recovery Limits = 50% - 150%

CHEMTECH
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Continuing Calibration Summary
TOTAL PETROLEUM HYDROCARBONS

20 PPM TRPH CCC

Date: 12/5/05
FileName: P9000485.D
Analyst: JJ

Analyte	Conc Found (ppm)	Conc Added (ppm)	% Rec
PRISTINE	16	20	78
PHYTANE	16	20	81
TOTAL CONC	279	350	80

Recovery Limits = 50% - 150%

CHEMTECH
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Continuing Calibration Summary
TOTAL PETROLEUM HYDROCARBONS

20 PPM TRPH CCC

Date: 12/5/05
FileName: P9000494.D
Analyst: JJ

Analyte	Conc Found (ppm)	Conc Added (ppm)	% Rec
PRISTINE	17	20	86
PHYTANE	18	20	90
TOTAL CONC	339	350	97

Recovery Limits = 50% - 150%

CHEMTECH
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Continuing Calibration Summary
Petroleum Fuels By GC/FID

500 PPM #2 F.O. CCC

Date: 12/5/05
Filename: P9000473.D
Analyst: JJ

Analyte	Conc Found (ppm)	Conc Added (ppm)	% Rec	Flag
#2 FUEL OIL	420	500	84	

2 Fuel Oil Recovery Limits = 50% - 150%

CHEMTECH
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Continuing Calibration Summary
Petroleum Fuels By GC/FID

500 PPM #2 F.O. CCC

Date: 12/5/05
Filename: P9000486.D
Analyst: JJ

Analyte	Conc Found (ppm)	Conc Added (ppm)	% Rec	Flag
#2 FUEL OIL	484	500	97	

2 Fuel Oil Recovery Limits = 50% - 150%

CHEMTECH
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Continuing Calibration Summary
Petroleum Fuels By GC/FID

500 PPM #2 F.O. CCC

Date: 12/5/05
Filename: P9000495.D
Analyst: JJ

Analyte	Conc Found (ppm)	Conc Added (ppm)	% Rec	Flag
#2 FUEL OIL	402	500	80	

2 Fuel Oil Recovery Limits = 50% - 150%

6.5 TPH MISCELLANEOUS DATA

CHEMTECH

EXTRACTION LOGPAGE

SOP#: M 3541 Cleanup Method: N/A Batch #: PB09113

Matrix: Solid Extraction Date: 11/29/2005

Review By: RF Extracted By: BP

Method of Extraction ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

QC	mL. Spike	Concentration ug/mL	STD REF. # FROM LOG
Matrix Spike	0.5mL	200 ppm	GCP1907
Surrogate	0.5ml	20 ppm	GCP1939

CHEMICAL USED	LOT #
Methylene Chloride	ER1283
Sodium Sulfate	ER1282
Sand	ER1228

Extraction Conformance/Non-Conformance Comments:

KD Bath Temperature: 65 C

Received Date: 11/30/05

Delivered Date: 11/30/05

Envap Temperature: 45 C

Received By: JMS

Delivered By: RF

CHEMTECH

EXTRACTION LOGPAGE

Method: 8015 Supervisor Review: RF Date: 11/30/05 PREP Batch #: PB09113

Extraction Date: 11/29/2005 Initials: BP Concentration Date: 11/29/05 Initials: RP

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	Weight/ Volume mL	PH	Ver. Sur./Spike	Final Vol. (mL)	COMMENTS
T5908-01MS		TPH GC	15.09	N/A	rajesh	0.5	
T5908-01MSD		TPH GC	15.13		rajesh	0.5	TT 11/30/05
PB09113BL		TPH GC	15.02		rajesh	0.5	
PB09113BS		TPH GC	15.01		rajesh	0.5	
T5908-01	S-1	TPH GC	15.14		rajesh	0.5	
T5908-02	S-1D	TPH GC	15.08		rajesh	0.5	
T5908-03	S-2	TPH GC	15.06		rajesh	0.5	
T5908-04	S-3	TPH GC	15.10		rajesh	0.5	
T5908-05	S-4	TPH GC	15.07		rajesh	0.5	
T5908-06	S-5	TPH GC	15.12		rajesh	0.5	
T5908-07	S-6	TPH GC	15.05		rajesh	0.5	

* Extracts relinguished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in Semi-Volatile lab, must sign.

CHEMTECH

EXTRACTION LOGPAGE

Method: _____ Supervisor Review: _____ Date: / / PREP Batch #: PB09113

Extraction Date: 11/29/2005 Initials: ___ Concentration Date: / / Initials: ___

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	Weight/ Volume mL	PH	Ver. Sur./Spike	Final Vol. (mL)	COMMENTS
T5908-01MS		TPH GC	15.09		rajesh	0.5	
T5908-01MSD		TPH GC	15.13		rajesh	0.5	
PB09113BL		TPH GC	15.02		rajesh	0.5	
PB09113BS		TPH GC	15.01		rajesh	0.5	
T5908-01	S-1	TPH GC	15.14		rajesh	0.5	
T5908-02	S-1D	TPH GC	15.08		rajesh	0.5	
T5908-03	S-2	TPH GC	15.06		rajesh	0.5	
T5908-04	S-3	TPH GC	15.10		rajesh	0.5	
T5908-05	S-4	TPH GC	15.02		rajesh	0.5	
T5908-06	S-5	TPH GC	15.12		rajesh	0.5	
T5908-07	S-6	TPH GC	15.05		rajesh	0.5	

* Extracts relinguished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in Semi-Volatile lab, must sign.

CHEMTECH

EXTRACTION LOGPAGE

SOP#: M 3510 Cleanup Method: N/A Batch #: PB09114

Matrix: Water Extraction Date: 11/29/2005

Review By: RF Extracted By: Kamil

Method of Extraction ☑ Seperatory Funnel ☐ Continjous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

QC	mL. Spike	Concentration ug/mL	STD REF. # FROM LOG
Matrix Spike	1.0mL	200 ppm	GCP1907
Surrogate	1.0mL	20 ppm	GCP1939

CHEMICAL USED	LOT #
Methylene Chloride	ER1283
Sodium Sulfate	ER1282

Extraction Conformance/Non-Conformance Comments:

KD Bath Temperature: 65 C Envap Temperature: 45 C

Received Date: 11/30/05 Received By: Jus

Delivered Date: 11/30/05 Delivered By: RF

CHEMTECH

EXTRACTION LOGPAGE

Method: 8015 Supervisor Review: RF Date: 11/30/05 PREP Batch #: PB09114

Extraction Date: 11/29/2005 Initials: Kamil Concentration Date: 11/29/05 Initials: RP

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	Weight/ Volume mL	PH	Ver. Sur./Spike	Final Vol. (mL)	COMMENTS
PB09114BL		TPH GC	1000	7	rajesh	1	TJ 11/30/05
PB09114BS		TPH GC	1000	7	rajesh	1	
T5908-08	FIELDBLANK	TPH GC	980	7	rajesh	1	

* Extracts relinguished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in Semi-Volatile lab, must sign.

CHEMTECH

EXTRACTION LOGPAGE

Method: _____ Supervisor Review: _____ Date: / / PREP Batch #: PB09114

Extraction Date: 11/29/2005 Initials: ___ Concentration Date: / / Initials: ___

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	Weight/ Volume mL	PH	Ver. Sur./Spike	Final Vol. (mL)	COMMENTS
PB09114BL		TPH GC	1000	7	rajesh	1	
PB09114BS		TPH GC	1000	7	rajesh	1	
T5908-08	FIELDBLANK	TPH GC	980	7	rajesh	1	

* Extracts relinquished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in Semi-Volatile lab, must sign.

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For GC #: NPD 1

Start Date: 12/03/05 End Date: 12/03/05 Analyst TT Review By: [signature]

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
Initial Calibration Stds: (TRPH STD)	GCP 1918	Initial Calibration Stds: (#2 F.O.)	GC P 1736
CCC standard (ICV)	GCP1759, 1937	I Blank	
HP Acquire Method:	8015	HP Process Method	DRO1203 / #2F.O. ~~#25~~ 1203
			12/3/05

SR. #:	Sample ID	Data File Name	Manual Integration Peak number/Reason	Comment	RE, DL - Data file
1	100TRPH STD	P9000402	—	NR	
2	100 TRPH STD	403	—	OK	
3	50 TRPH STD	404	—	↓	
4	20 TRPH STD	405	—		
5	10 TRPH STD	406	—		
6	5 TRPH STD	407	—		
7	5 TRPH STD	408	—	NR	
8	1000 #2 F.O.	409	—	NR	
9	1000 #2 F.O.	410	—	OK	
10	750 #2 F.O.	411	—	↓	
11	500 #2 F.O.	412	—		
12	200 #2 F.O.	413	—		
13	100 #2 F.O.	414	—	↓	
14	100 #2 . FO	415	—	NR	
15	20 TRPH STD	416	—	OK, ICV	
16	#2 F.O.	417	—	↓	
17					
18					
19					
20					

Manual Integration key:

Poor Resolution of peaks exhibited on chromatograms **(A)**
Peak Integrated by software incorrectly **(B)**
Poor Resolution of peaks exhibited on chromatograms **(C)**
Other- explain in the comment section **(D)**

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Daily Analysis Runlog For GC #: NPD 1

Start Date: 12/04/05 End Date: 12/05/05 Analyst: TT Review By: [signature]

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
Initial Calibration Stds.		Initial Calibration Stds.	
CCC standard (TRPH STD, #2 F.O.)	GCP1918, GCP1936	I Blank	GCP 1939
HP Acquire Method:	8015	HP Process Method	DRO1203/#2 F.O. 1203

SR. #:	Sample ID	Data File Name	Manual Integration Peak number/Reason	Comment	RE, DL - Data file
1	I.BLK	P4000458			
2	20 TRPH STD	459			
3	#2 F.O.	460			
4	T5937-08	461		needs dil	
5	T5937-09	462		↓	
6	T5937-10	463		↓	
7	T5937-03MS	464			
8	T5937-03MSD	465			
9	PB09195B	466			
10	PB09195BS	467			
11	T5867-02	468			
12	T5867-04	469			
13	T5867-06	470			
14	I.BLK	471		ok	
15	20 TRPH STD	472	1/B	o/c	
16	#2 F.O.	473		↓	
17	T5867-09	474			
18	T5867-11	475			
19	PB09114B	476		o/c	
20	PB09114BS	477		ok	

Manual Integration key:

Poor Resolution of peaks exhibited on chromatograms **(A)**
Peak Integrated by software incorrectly **(B)**
Poor Resolution of peaks exhibited on chromatograms **(C)**
Other- explain in the comment section **(D)**

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Daily Analysis Runlog For GC #: NPD 1

Start Date: 12/05/05 End Date: 12/05/05 Analyst: TT Review By: DV

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
Initial Calibration Stds.		Initial Calibration Stds.	
CCC standard (TRPH STD, #2 F.O.)	GCP1918, GCP1936	I Blank	GCP1939
HP Acquire Method:	8015	HP Process Method	DIR01203 / #2 F.O 1203

SR. #:	Sample ID	Data File Name	Manual Integration Peak number/Reason	Comment	RE, DL - Data file
1	T5908-08	P9000478		ok	
2	PB09113B	479	1 B	↓	
3	PB09113BS	480		ok	
4	T5908-01	481			
5	T5908-02	482			
6	T5908-03	483			
7	I. BLK	484			
8	20 TRPH STD	485			
9	#2 F.O	486			
10	T5908-04	487			
11	T5908-05	488			
12	T5908-06	489			
13	T5908-07	490			
14	T5908-01MS	491			
15	T5908-01MSD	492			
16	I. BLK	493		↓	
17	20 TRPH STD	494		ok	
18	#2 F.O.	495		↓	
19	PB09198B	496			
20	PB09198BS	497		ok	

Manual Integration key:

Poor Resolution of peaks exhibited on chromatograms **(A)**
Peak Integrated by software incorrectly **(B)**
Poor Resolution of peaks exhibited on chromatograms **(C)**
Other- explain in the comment section **(D)**

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CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT LAB NUMBER: T5908 MATRIX: Soil/water METHOD: 8015

	YES	NA	NO
1. Chromatograms Labeled/Compounds Identified.	✓		
2. Standards Summary Submitted	✓		
3. Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD	✓		
4. Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
5. Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria. If not met, list those compounds and their recoveries which fall outside the acceptable range.			
7. Retention Time Shift Meet Criteria (if applicable)	✓		
8. Extraction Holding Time Met If not met, list number of days exceeded for each sample.	✓		
9 Analysis Holding Time Met If not met, list those compounds and their recoveries which fall outside the acceptable range.	✓		

Additional Comments:

Analyst Martha Guerra — Date 12/15/05

QA REVIEW — Date 12/16/05

Document Control # A3040027

APPENDIX D:
LABORATORY REPORT
WASTE CLASSIFICATION SAMPLE

CHEMTECH 284 Sheffield Street • Mountainside, NJ 07092 Phone: 908.789.8900 Fax: 908.789.8922

ANALYTICAL RESULTS SUMMARY

PROJECT NAME: Brownsville Industrial Site 1 Sackman Street

METCALF & EDDY, INC.
1140 ROUTE 22 EAST
SUITE 101
BRIDGEWATER, NJ 08807
9087078874

CHEMTECH PROJECT NO. **T5908**
ATTENTION: **Nelson Abrams**

Chemtech

Summary Sheet
SW-846

SDG No.: T5908 **Order ID:** T5908

Client: Metcalf & Eddy, Inc. **Project ID:** METC02

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	S-2							
T5908-03	S-2	SOIL	Methylene Chloride	3.8	JB	5.7	2.1	ug/Kg
			Total VOC's:	3.80				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	3.80				
Client ID:	S-4							
T5908-05	S-4	SOIL	Acetone	390		160	21	ug/Kg
T5908-05	S-4	SOIL	Unknown11.09	* 63	J	31	0	ug/Kg
			Total VOC's:	390.00				
			Total TIC's:	63.00				
			Total VOC's and TIC's:	453.00				

Note: The asterisk "*" flag next to a parameter signifies a TIC parameter.

Hit Summary Report

SDG No.: T5908 **Order ID:** T5908

Client: Metcalf & Eddy, Inc. **Project ID:** Brownsville Industrial Site 1 Sackman

Test: SVOC-TCL BNA -20

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	**FIELDBLANK**							
T5908-08	FIELDBLANK	WATER	ACP4.08	* 6.8	AB	0	0	ug/L
T5908-08	FIELDBLANK	WATER	13-Docosenamide, (Z)-	* 9.0	J	0	0	ug/L
T5908-08	FIELDBLANK	WATER	2,6,10,14,18,22-Tetracosahex	* 2.7	J	0	0	ug/L
			Total SVOC's:	0.00				
			Total TIC's:	18.50				
			Total SVOC's and TIC's:	18.50				
Client ID:	**S-1**							
T5908-01	S-1	SOIL	ACP2.97	* 760	A	0	0	ug/Kg
T5908-01	S-1	SOIL	Cyclohexadecane	* 140	J	0	0	ug/Kg
T5908-01	S-1	SOIL	Squalene	* 220	J	0	0	ug/Kg
			Total SVOC's:	0.00				
			Total TIC's:	1120.00				
			Total SVOC's and TIC's:	1120.00				
Client ID:	**S-1D**							
T5908-02	S-1D	SOIL	ACP3.50	* 810	A	0	0	ug/Kg
T5908-02	S-1D	SOIL	1-Heptadecene	* 190	J	0	0	ug/Kg
T5908-02	S-1D	SOIL	Eicosane	* 74	J	0	0	ug/Kg
T5908-02	S-1D	SOIL	Squalene	* 150	J	0	0	ug/Kg
			Total SVOC's:	0.00				
			Total TIC's:	1224.00				
			Total SVOC's and TIC's:	1224.00				
Client ID:	**S-2**							
T5908-03	S-2	SOIL	Fluoranthene	100	J	370	56	ug/Kg
T5908-03	S-2	SOIL	Pyrene	79	J	370	66	ug/Kg
T5908-03	S-2	SOIL	Benzo(b)fluoranthene	230	J	370	41	ug/Kg
T5908-03	S-2	SOIL	ACP3.50	* 870	A	0	0	ug/Kg
T5908-03	S-2	SOIL	n-Hexadecanoic acid	* 170	J	0	0	ug/Kg
T5908-03	S-2	SOIL	2- Chloropropionic acid, octad	* 130	J	0	0	ug/Kg
T5908-03	S-2	SOIL	Squalene	* 190	J	0	0	ug/Kg
			Total SVOC's:	409.00				
			Total TIC's:	1360.00				
			Total SVOC's and TIC's:	1769.00				

Note: The asterisk "*" flag next to a parameter signifies a TIC parameter.

Chemtech

Hit Summary Report

SDG No.: T5908 **Order ID:** T5908

Client: Metcalf & Eddy, Inc. **Project ID:** Brownsville Industrial Site 1 Sackman

Test: SVOC-TCL BNA -20

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	**S-3**							
T5908-04	S-3	SOIL	Phenanthrene	170	J	370	59	ug/Kg
T5908-04	S-3	SOIL	Fluoranthene	270	J	370	55	ug/Kg
T5908-04	S-3	SOIL	Pyrene	220	J	370	65	ug/Kg
T5908-04	S-3	SOIL	Benzo(a)anthracene	100	J	370	52	ug/Kg
T5908-04	S-3	SOIL	Chrysene	120	J	370	66	ug/Kg
T5908-04	S-3	SOIL	Benzo(b)fluoranthene	280	J	370	41	ug/Kg
T5908-04	S-3	SOIL	Benzo(a)pyrene	98	J	370	59	ug/Kg
T5908-04	S-3	SOIL	ACP3.50	* 960	A	0	0	ug/Kg
T5908-04	S-3	SOIL	n-Hexadecanoic acid	* 160	J	0	0	ug/Kg
T5908-04	S-3	SOIL	1,2-Benzenedicarboxylic acid,	* 88	J	0	0	ug/Kg
T5908-04	S-3	SOIL	Benz[e]acephenanthrylene	* 90	J	0	0	ug/Kg
			Total SVOC's:	1258.00				
			Total TIC's:	1298.00				
			Total SVOC's and TIC's:	2556.00				
Client ID:	**S-4**							
T5908-05	S-4	SOIL	Phenanthrene	76	J	370	60	ug/Kg
T5908-05	S-4	SOIL	Fluoranthene	150	J	370	56	ug/Kg
T5908-05	S-4	SOIL	Pyrene	120	J	370	66	ug/Kg
T5908-05	S-4	SOIL	Benzo(a)anthracene	59	J	370	52	ug/Kg
T5908-05	S-4	SOIL	Chrysene	68	J	370	67	ug/Kg
T5908-05	S-4	SOIL	Benzo(b)fluoranthene	250	J	370	41	ug/Kg
T5908-05	S-4	SOIL	ACP3.50	* 1100	A	0	0	ug/Kg
T5908-05	S-4	SOIL	n-Hexadecanoic acid	* 170	J	0	0	ug/Kg
T5908-05	S-4	SOIL	10-Heneicosene (c,t)	* 140	J	0	0	ug/Kg
T5908-05	S-4	SOIL	Squalene	* 140	J	0	0	ug/Kg
			Total SVOC's:	723.00				
			Total TIC's:	1550.00				
			Total SVOC's and TIC's:	2273.00				
Client ID:	**S-5**							
T5908-06	S-5	SOIL	ACP2.97	* 710	A	0	0	ug/Kg
T5908-06	S-5	SOIL	1-Docosene	* 130	J	0	0	ug/Kg
T5908-06	S-5	SOIL	Squalene	* 160	J	0	0	ug/Kg
			Total SVOC's:	0.00				
			Total TIC's:	1000.00				
			Total SVOC's and TIC's:	1000.00				

Note: The asterisk "*" flag next to a parameter signifies a TIC parameter.

Chemtech

Hit Summary Report

SDG No.: T5908 **Order ID:** T5908

Client: Metcalf & Eddy, Inc. **Project ID:** Brownsville Industrial Site 1 Sackman

Test: SVOC-TCL BNA -20

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	S-6							
T5908-07	S-6	SOIL	Benzo(b)fluoranthene	190	J	350	38	ug/Kg
T5908-07	S-6	SOIL	ACP3.50	* 740	A	0	0	ug/Kg
T5908-07	S-6	SOIL	n-Hexadecanoic acid	* 120	J	0	0	ug/Kg
T5908-07	S-6	SOIL	1-Heneicosyl formate	* 150	J	0	0	ug/Kg
T5908-07	S-6	SOIL	Squalene	* 320	J	0	0	ug/Kg
			Total SVOC's:	190.00				
			Total TIC's:	1330.00				
			Total SVOC's and TIC's:	1520.00				

Note: The asterisk "*" flag next to a parameter signifies a TIC parameter.

APPENDIX D:
LABORATORY REPORT
WASTE CLASSIFICATION SAMPLE

ACCREDITED LABORATORIES, INC.
20 PERSHING AVENUE
CARTERET, NEW JERSEY 07008
PHONE (732) 541-2025 FAX (732) 541-1383

CHAIN OF CUSTODY FORM

STATE AGENCY (NJ) (NY) PA CT DE OTHER ____

CLIENT	EISCO-NJ
ADDRESS	900 PORT READING AVE
CITY	PORT READING
STATE	NJ ZIP

PROJECT	METCMF + EDPY
CONTACT	JEFF THOMAS
PHONE	732-969-4568
FAX	9599

ALI SAMPLE #	FIELD ID	CONT.	MATRIX	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
051210	1735	1	S	11-28 1500	WASTE CLASS	CLEAN EARTH CARTERET, RESIDUAL WASTE CLASS VO and TPH(GC F10) by ORA-RSM-025

MATRIX: A-AQUEOUS, S-SOIL, SD-SLUDGE, LP-NONPOTABLE WATER, OL-OIL, P-PURE PRODUCT, O-OTHER

# OF CONTAINERS	TURNAROUND: 10 DAY (If Blank, Std. 3 weeks)
DELIVERABLES (check one)	STD REDUCED FULL OTHER ____

RELINQUISHED BY: PRINT	SIGN	RECEIVED BY: PRINT	SIGN	ORGANIZATION	DATE	TIME	
Byrd Watson		Kinacio	Kinacio	ALI	11/29	7:15	analytical

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: DAN CITICA SIGN: ____

COMMENTS	Temp 4°C Dropoff
ALI QUOTE #	
ALI CASE #	9671
FROM	1735

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1735

Lab Name: ACCREDITED LABS, INC. Contract

Lab Code: Case No.: 9671 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 0512105

Sample wt/vol: 5.0 (g/ml) G Lab File ID: D0507.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 10.2 Date Analyzed: 12/7/05

GC Column: Rtx-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
107028	Acrolein	28	U
107131	Acrylonitrile	6	U
67641	Acetone	5	JB
75718	Dichlorodifluoromethane	6	U
74873	Chloromethane	6	U
67-64-1	Vinyl Chloride	6	U
74839	Bromomethane	6	U
75003	Chloroethane	6	U
75694	Trichoroflouromethane	6	U
75354	1,1-Dichloroethene	6	U
75150	Carbon disulfide	6	U
75092	Methylene Chloride	5	JB
156605	trans-1,2-Dichloroethene	6	U
75343	1,1-Dichloroethane	6	U
108054	Vinyl acetate	6	U
590207	2,2-Dichloropropane	6	U
789333	2-Butanone	6	U
156592	cis-1,2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
74975	Bromochloromethane	6	U
71556	1,1,1-Trichloroethane	6	U
563586	1,1-Dichloropropene	6	U
56235	Carbon Tetrachloride	6	U
107062	1,2-Dichloroethane	6	U
71432	Benzene	6	U
79016	Trichloroethene	6	U
78875	1,2-Dichloropropane	6	U
75274	Bromodichloromethane	6	U
74953	Dibromomethane	6	U
110758	2-Chloroethylvinylether	6	U
10061015	cis-1,3-dichloropropene	6	U
108883	Toluene	6	U
10061026	trans-1,3-Dichloropropene	6	U
79-00 5	1,1,2-Trichloroethane	6	U
108101	4-Methyl-2-pentanone	6	U
106934	1,2-Dibromoethane	6	U
591786	2-Hexanone	6	U
142289	1,3-dichloropropane	6	U
127184	Totrachloroethene	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 1735

Lab Name: ACCREDITED LABS, INC. Contract

Lab Code: Case No.: 9671 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 0512105

Sample wt/vol: 5.0 (g/ml) G Lab File ID: D0507.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 10.2 Date Analyzed: 12/7/05

GC Column: Rtx-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
124481	Dibromochloromethane	6	U
100414	Ethylbenzene	6	U
108907	Chlorobenzene	6	U
630206	1,1,1,2-Tetrachloroethane	6	U
1330207	m,p-Xylene	11	U
95476	o-Xylene	6	U
100425	Styrene	6	U
75252	Bromoform	6	U
98828	Isopropylbenzene	6	U
79345	1,1,2,2-Tetrachloroethane	6	U
96184	1,2,3-Trichloropropane	6	U
103651	n-Propyl benzene	6	U
108861	Bromobenzene	6	U
108678	1,3,5-Trimethylbenzene	6	U
95498	2-Chlorotoluene	6	U
106434	4-Chlorotoluene	6	U
98066	tert-Butylbenzene	6	U
95636	1,2,4-Trimethylbenzene	6	U
135988	sec-Butylbenzene	6	U
99876	p-Isopropyltoluene	6	U
541731	1,3-Dichlorobenzene	6	U
106467	1,4-Dichlorobenzene	6	U
104518	n-Butylbenzene	6	U
95501	1,2-Dichlorobenzene	6	U
96128	1,2-Dibromo-3-Chloropropane	6	U
120821	1,2,4-Trichlorobenzene	6	U
87683	Hexachlorobutadiene	6	U
91203	Naphthalene	6	U
87616	1,2,3-Trichlorobenzene	6	U

ACCREDITED LABORATORIES, INC.
TPHC (OQA-QAM-025) BY GC-FID

CASE NUMBER 9671
CLIENT NAME EISCONJ
ANALYZED BY PHIL

MATRIX Soil
DATE RECEIVED 11/29/05
DATE EXTRACTED 12/01/05

Field ID	Sample #	% Solids	Dilution Factor	Date Analyzed	Result ug/g	MDL ug/g	Data File
	DBLK29		1	12/01/05	ND	10	>K2483
1735	0512105	89.8	1	12/07/05	48	11	>K2501

ND - Not Detected