Phase II Environmental Investigation Report

Franklin Street Site
Olean, New York

July 2009 0189-001-100

Prepared For: Scott Rotary Seals

TurnKey Environmental Restoration, LLC

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PHASE II ENVIRONMENTAL INVESTIGATION REPORT

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1.0 BACKGROUND AND SITE DESCRIPTION

TurnKey Environmental Restoration, LLC (TurnKey) performed a Phase II Environmental Site Investigation at a property owned by Scott Rotary Seals (SRS) located on Franklin Street in Olean, Cattaraugus County, New York (Site, see Figure 1).

1.1 Site Description

The subject Site is comprised of an approximate 2-acre parcel of vacant land located in a historic heavy industrial area of the City of Olean. The parcel is not currently improved with any buildings and is bound by railroad tracks to the south and east and former industrial properties to the north and west. Several debris piles containing brick, concrete, metal, and piping apparently associated with former aboveground storage tanks (ASTs), are currently present at the Site.

1.2 Environmental History

Based on a Phase I Environmental Site Assessment of the Site completed by others in September 2008, we understand that the Site was historically a portion of a larger petroleum refinery and petroleum bulk storage facility commonly known as the former Socony-Vacuum facility. Based on a 1938 aerial photograph reviewed by TurnKey, the Site historically contained at least eight aboveground storage tanks (ASTs). Review of additional aerial photographs circa 1940 show the Site and surrounding area are developed as an apparent petroleum refinery with numerous ASTs (see Appendix A). A November 2008 "Limited Subsurface Investigation" completed by others, noted field observations of petroleum odors and soil discoloration, attributable to the historic use of the Site as a refinery and petroleum bulk storage facility. During subsequent pre-construction intrusive activities at the Site, additional petroleum contamination was encountered that prompted the New York State Department of Environmental Conservation (NYSDEC) to open a NY Spill file.

1.3 Scope of Work

This soil and groundwater investigation was completed on behalf of SRS to assess potential site-wide environmental impacts associated with the historic use of the Site as a petroleum bulk storage facility and petroleum refinery. This investigation included

completion of test pits, soil borings, installation of groundwater monitoring wells, soil and groundwater sampling, and soil and groundwater sample analysis for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyhls (PCBs) and metals.

2.0 METHODS OF INVESTIGATION

2.1 Test Pit Excavation

The test pit investigation conducted on June 24, 2009, consisted of excavating twelve (12) test pits designated as test pits TP-1 through TP-12. Test pit locations were selected based on review of historic aerial photographs and site maps and/or selected based on by site accessibility. Test pit locations are shown on Figure 2.

The physical characteristics of all test pits were classified using the ASTM D2488 Visual-Manual Procedure Description. TurnKey personnel screened soils from each test pit via headspace screening using a MiniRae 2000 Photoionization Detector (PID) equipped with a 10.6 eV lamp and noted visual and/or olfactory observations. The PID is capable of detecting the presence of contaminants that emit volatile organic compounds such as petroleum products and solvents with ionization potentials less than 10.6 eV. All field observations, including lithology, depths, PID scan results, etc., at each test pit location are summarized in the test pit log sheets provided in Appendix B.

2.2 Soil Borings

The soil borings conducted on June 23, 2009 consisted of advancing three (3) direct push (Geoprobe®) boreholes designated as MW-1, MW-2 and MW-3. Locations of each soil boring are shown on Figure 2. Each borehole was advanced to an approximate depth of 30 feet below ground surface (fbgs). All direct-push boreholes were advanced using 1.5-inch diameter samplers 4-feet in length. Continuous 4-foot sample cores were retrieved from the boring locations in clear PVC sleeves to allow for field characterization of the subsurface lithology and collection of soil samples by TurnKey's Environmental Scientist. TurnKey personnel scanned each 4-foot core via headspace screening for total volatile organic vapors in the same manner as the soil screened from the test pits. Field Borehole Logs are provided in Appendix C.

2.3 Monitoring Well Installation and Groundwater Sampling

Following borehole advancement as described above, two-inch diameter monitoring wells were installed within soil borings MW-1, MW-2 and MW-3. Monitoring well MW-1 was installed to an approximate depth of 30 fbgs. The well was constructed with two-inch diameter, flush-joint Schedule 40 PVC, screened from approximately 20 to 30 fbgs. Monitoring wells MW-2 and MW-3 were each installed to an approximate depth of 28 fbgs. MW-2 and MW-3 were constructed of two-inch diameter, flush-joint Schedule 40 PVC, screened from approximately 18 to 28 fbgs. The well construction logs are provided in Appendix C.

2.4 Monitoring Well Survey

Following monitoring well installation, TurnKey personnel surveyed each monitoring well using an arbitrary reference elevation of 500.00 feet above mean sea level (fmsl) to estimate groundwater flow direction.

2.5 Soil and Groundwater Sampling and Analysis

Soil samples were collected test pits and soil borings using dedicated stainless steel sampling tools. Representative soil samples were placed in pre-cleaned sample bottles. Eight (8) soil samples were submitted under chain-of-custody to Test America Laboratories Inc., for analysis of Target Compound List (TCL) plus New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series (STARS) List VOCs, NYSDEC STARS List SVOCs, Resource Conservation and Recovery Act (RCRA) metals, and/or PCBs.

The newly installed monitoring wells were sampled on June 29, 2009. Groundwater grab samples were collected from each monitoring well using dedicated disposable polyethylene bailers. The samples were transferred into laboratory-provided pre-preserved sample vials for analysis of VOCs via USEPA TCL plus NYSDEC STARS List VOCs and NYSDEC STARS list SVOCs. The sample was cooled to 4 °C in the field, and transported under chain-of-custody to Test America Laboratories, Inc.

The soil and groundwater samples were analyzed via United States Environmental Protection Agency (USEPA) SW-846 methods with a Category B deliverable package. The laboratory analytical reports are provided in Appendix D.

3.0 INVESTIGATION FINDINGS

A summary of the qualitative soil screening, soil sample results, and groundwater sample results from the test pits, soil boring and monitoring wells are presented in Tables 1-3. Each compound that was analyzed and detected above the laboratory reporting limit is listed on the table with its associated result to provide a complete data summary. For comparison purposes, Table 2 presents NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 recommended soil cleanup objectives (RSCOs) and 6NYCRR Part 375 Restricted-Commercial soil cleanup objectives (SCOs). Similarly, Table 3 presents NYSDEC Class "GA" Groundwater Quality Standards (GWQS) for each of the detected parameters as published in NYSDEC Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998). Analytical results for soil and groundwater samples are discussed below.

3.1 Qualitative Soil Screening

During the test pits and soil borings, grey-stained soils and petroleum-like odors were observed in all test pits and soil borings, except TP-7. Most locations exhibited strong petroleum odors; impacts were apparent as shallow as 3 fbgs and as deep as 28 fbgs. Furthermore, during test pits excavation, various subsurface debris, including brick, concrete, metal, piping, and apparent former AST foundations, were encountered. Table 1 includes a summary of the qualitative soil screening summary.

Soil samples were screened for VOCs using a Photovac 2020 photoionization detector (PID). As shown on Table 1, PID measurements were as high as 1,989 ppm (MW-2, 12-14 fbgs). PID readings were over 1,000 ppm in TP-6 (3-11 fbgs), TP-9 (12-14 fbgs) and TP-10 (3-11 fbgs).

In TurnKey's experience, the visual/olfactory observations and PID measurements are indicative of significant petroleum-VOCs impacts Site-wide with grossly contaminated soils in some areas. Refer to the attached test pit logs and soil boring/monitoring well logs for soil classification for each sample interval, field observations, and PID measurements.

3.2 Soil Analytical Results

As shown on Table 2, elevated concentrations of VOC Tentatively Identified Compounds (TICs) were identified in soil samples from TP-2, TP-6, TP-9, TP-10, TP-12, and MW-2. Total VOCs in TP-6 (3-11 fbgs), TP-10 (3-11 fbgs) and MW-2 (16-20 fbgs) were

highest with detected concentrations of 29,200 ug/kg (29.2 ppm), 111,300 ug/kg (111.3 ppm) and 183,600 ug/kg (183.6 ppm), respectively.

Soil samples from sample locations TP-2, TP-6 and TP-12 detected concentrations of SVOCs chrysene (TP-2, TP-12), and benzo(a)anthracene (TP-6, TP-12) above NYSDEC TAGM 4046 RSCOs. Of note, soil samples from TP-2, TP-6, TP-9, TP-10, TP-12, and MW-2 detected high concentrations of SVOC TICs. Total SVOCs in TP-6 (3-11 fbgs), TP-12 (2.5-8.5 fbgs) and MW-2 (16-20 fbgs) were highest with detected concentrations of 320,100 ug/kg (320.1 ppm), 123,100 ug/kg (123.1 ppm) and 196,600 ug/kg (196.6 ppm), respectively.

Soil samples from TP-4 (4-10) and TP-5 (5-8) detected concentrations of mercury at 0.37 mg/kg and 0.59 mg/kg, respectively, above TAGM 4046 RSCO of 0.1 mg/kg. PCBs were not detected in the soil samples collected.

3.3 Groundwater Analytical Results

As shown on Table 3, the concentrations of acetone, sec-butylbenzene and phenanthrene were detected above NYSDEC GWQS in the groundwater sample collected from MW-2. VOC and SVOC TICs were elevated each of the three monitoring wells. Total VOCs concentrations in MW-1, MW-2 and MW-3 were 437 ug/L, 31,472 ug/L and 1,166 ug/L, respectively. The total SVOCs concentration in MW-1, MW-2 and MW-3 were 1,696 ug/L, 8,777 ug/L and 1,229 ug/L, respectively.

3.4 Site Geology/Hydrogeology

The geology at the site is generally described as fill materials overlying fine sand and gravel. The fill materials consist of sand and gravel with varying amounts of brick, concrete, metal, and abandoned piping at depths ranging from 0 to 5 fbgs. Native materials consists of fine sand and gravel to depths up to 30 fbgs.

The reference top of riser elevations, as well as groundwater elevations, obtained from the three monitoring wells installed during the investigation are summarized in Table 4. Based on the groundwater gauging, groundwater appears to generally flow in a southeastern direction (see Figure 3).

4.0 CONCLUSIONS

Based on the results of this soil and groundwater investigation, TurnKey offers the following conclusions and recommendations:

- During the completion of test pits and soil borings, stained soils and petroleum-like odors were observed in all but one of the sample locations; most locations exhibited strong petroleum odors. Furthermore, during test pit excavations, various subsurface debris, including brick, concrete, metal, and apparent former AST foundations and subsurface piping, were encountered. PID readings were over 1,000 ppm in TP-6 (3-11 fbgs), TP-9 (12-14 fbgs), TP-10 (3-11 fbgs) and MW-2 (12-14 fbgs).
- Based on the soil analytical results, benzo(a)anthracene, chrysene and mercury were detected above TAGM 4046 RSCOs. Elevated concentrations of VOC TICs (up to 183,600 ug/kg) and SVOC TICs (up to 320,100 ug/kg) were detected in each of the soil samples analyzed. The high concentration of TICs can be attributed to weathered petroleum that, based on field observations, is present in the subsurface.
- Based on the groundwater analytical results, acetone, sec-butylbenzene and phenanthrene were detected above NYSDEC GWQS in the groundwater samples collected from MW-2. Elevated concentrations of VOC TICs (up to 26,000 ug/L) and SVOC TICs (up to 8,640 ug/L) were detected in each of the groundwater samples. Similar to the groundwater results, the high concentration of TICs can be attributed to weathered petroleum that, based on field observations, is present in the subsurface.
- Based on the evidence of Site-wide petroleum-stained soils, petroleum odors and elevated PID measurements, as well as analytical results of this investigation, significant Site-wide petroleum-VOCs and -SVOCs impacts are evident, with grossly contaminated soils present in some areas. The environmental impacts can reasonably be attributed to the historical use of the Site as a petroleum refinery and petroleum bulk storage facility. Site remediation appears warranted.
- TurnKey understands that Scott Rotary Seals plans to redevelop the Site with a new commercial facility. Consideration should be given to applying for the New York Brownfield Cleanup Program (BCP) prior to Site redevelopment. The BCP

offers Site remediation and redevelopment tax credits, as well as release of certain environmental liabilities from New York State, for entities that remediate and redevelop contaminated and/or former idle industrial sites, such as the subject Site, into productive re-used properties.

5.0 LIMITATIONS

This report has been prepared for the exclusive use of Scott Rotary Seals. The contents of this report are limited to information available at the time of the site investigation activities and to data referenced herein, and assume all referenced information sources to be true and accurate. The findings herein may be relied upon only at the discretion of Scott Rotary Seals. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of TurnKey Environmental Restoration, LLC.

TABLES

TABLE 1

QUALITATIVE SOIL SCREENING SUMMARY

FRANKLIN STREET
OLEAN, NEW YORK

SAMPLE LOCATION	Highest PID Reading (ppm)	Highest PID Sample Interval (fbgs)	NOTES
TP-1	12	15-16	Grey-stained soils Petroleum-like odor (15-16)
TP-2	26	16-18	Grey-stained soils Petroleum-like odor (12-18)
TP-3	2	13-14	Grey-stained soils Petroleum-like odor (13-14)
TP-4	195	4-10	Grey-stained soils Sub-grade piping encountered (0-4) Strong petroleum-like odor (4-10)
TP-5	64	5-8	Grey-stained soils Sub-grade piping encountered (0-5) Strong petroleum-like odor (5-8)
TP-6	1195	3-11	Grey-stained soils Suspect AST foundation encountered Strong petroleum-like odor (3-11)
TP-7	0	NA	(none)
TP-8	42	12-14	Grey-stained soils Sub-grade piping encountered (0-1) Strong petroleum-like odor (12-14)
TP-9	1254	12-14	Grey-stained soils Sub-grade piping encountered (0-1) Strong petroleum-like odor (12-14)
TP-10	1094	3-11	Grey-stained soils Strong petroleum-like odor (3-11)
TP-11	540	4-13	Grey-stained soils Strong petroleum-like odor (4-13)
TP-12	805	4-8.5	Grey-stained soils Strong petroleum-like odor (2.5-8.5)
MW-1	456	24-26	Grey-stained soils Strong petroleum-like odor (8-28)
MW-2	1989	12-14	Grey-stained soils Strong petroleum-like odor (5-28)
MW-3	720	26-28	Grey-stained soils Strong petroleum-like odor (15-28)

Notes:

fbgs= feet below ground surface

NA = Not applicable

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS

FRANKLIN STREET
OLEAN, NEW YORK

Parameter [1]	TAGM 4046 (mg/kg)[2]	Commercial Restricted SCOs (mg/kg)[3]	SAMPLE LOCATION							
			TP-2 (16-18)	TP-4 (4-10)	TP-5 (5-8)	TP-6 (3-11)	TP-9 (12-14)	TP-10 (3-11)	TP-12 (2.5-8.5)	MW-2 (16-20)
TCL plus STARS Volatile Organic Compounds (VOCs) - mg/kg[4]										
Acetone	**0.2**	**500**	ND	NA	NA	0.079	ND	ND	0.0073 J	ND
2-Butanone (MEK)	**0.3**	**500**	ND	NA	NA	ND	ND	0.18	ND	0.2
Carbon disulfide	**2.7**	**--**	ND	NA	NA	0.0024	ND	ND	ND	ND
Isopropylbenzene (Cumene)	**2**	**--**	ND	NA	NA	0.014	ND	ND	ND	ND
Methylcyclohexane	**--**	**--**	ND	NA	NA	20	ND	ND	ND	9.3
Naphthalene	**13**	**500**	ND	NA	NA	ND	ND	0.2	ND	0.12
Toluene	**1.5**	**500**	ND	NA	NA	ND	ND	ND	0.0012 J	ND
1,2,4-Trichlorobenzene	**10**	**190**	ND	NA	NA	ND	ND	0.14	ND	ND
n-Propylbenzene	**3.7**	**500**	ND	NA	NA	0.0056	ND	ND	ND	ND
p-Cymene (p-isopropyltoluene)	**10**	**--**	ND	NA	NA	ND	ND	ND	0.042 J	ND
n-Butylbenzene	**10**	**500**	ND	NA	NA	0.036	ND	ND	0.031 J	ND
sec-Butylbenzene	**10**	**500**	0.0024	NA	NA	0.037	0.0074	0.094	0.022 J	ND
Tentatively Identified Compounds (TICs)	**10**	**--**	0.5	NA	NA	9.0	8.5	110.7	5.6	174.0
Total VOCs	**10**	**--**	***0.5***	***NA***	***NA***	***29.2***	***8.5***	***111.3***	***5.7***	***183.6***
STARS Semi-Volatile Organic Compounds (SVOCs) - mg/kg										
Benzo(a)anthracene	**0.061**	**5.6**	ND	NA	NA	0.068 DJ	ND	ND	0.16 DJ	0.048 DJ
Benzo(g,h,i)perylene	**50**	**500**	ND	NA	NA	ND	ND	ND	0.1 DJ	ND
Chrysene	**0.4**	**56**	2 D	NA	NA	0.14 DJ	ND	ND	0.43 DJ	0.085 DJ
Fluoranthene	**50**	**500**	0.17 DJ	NA	NA	ND	ND	ND	0.092 DJ	ND
Fluorene	**50**	**500**	0.076 DJ	NA	NA	ND	0.31 DJ	ND	0.17 DJ	0.54 DJ
Indeno(1,2,3-cd)pyrene	**3.2**	**5.6**	ND	NA	NA	ND	ND	ND	0.06 DJ	ND
Phenanthrene	**50**	**500**	ND	NA	NA	0.65 DJ	0.64 D	ND	0.52 DJ	0.87 DJ
Pyrene	**50**	**500**	ND	NA	NA	ND	ND	ND	0.2 DJ	ND
Tentatively Identified Compounds (TICs)	**500**	**--**	29	NA	NA	319.2	58.9	89.1	121.4	195.1
Total SVOCs	**500**	**--**	***31.2***	***NA***	***NA***	***320.1***	***59.9***	***89.1***	***123.1***	***196.6***
RCRA Metals - mg/kg										
Arsenic	**7.5**	**16**	NA	6	6.1	NA	NA	NA	NA	NA
Barium	**300**	**400**	NA	38.9	35.7	NA	NA	NA	NA	NA
Cadmium	**1**	**9.3**	NA	0.234	ND	NA	NA	NA	NA	NA
Chromium	**10**	**400**	NA	7.08	6.48	NA	NA	NA	NA	NA
Lead	**400**	**1000**	NA	26.3	23.6	NA	NA	NA	NA	NA
Mercury	**0.1**	**2.8**	NA	0.363	0.592	NA	NA	NA	NA	NA

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC TAGM 4046 Recommended Soil Cleanup Objectives (RSCOs).
3. Values per NYSDEC Part 375 Restricted-Commercial Soil Cleanup Objectives (SCOs).
4. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparison to SCOs.

Definitions:
mg/kg = milligrams per kilogram
ug/kg = micrograms per kilogram
ND = Parameter not detected above laboratory detection limit.
NA = Sample not analyzed for parameter.
"--" = No SCO available.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
D = All compounds were identified in an analyisis at the secondary dilution factor.
Sample Result exceeds NYSDEC TAGM 4046 RSCOs.

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

FRANKLIN STREET
OLEAN, NEW YORK

Parameter [1]	NYSDEC Class GA Groundwater Quality Standards[2]	Sample Locations		
		MW-1	MW-2	MW-3
TCL plus STARS Volatile Organic Compounds (VOCs) - ug/L				
Acetone	**50**	ND	200 DJ	ND
Carbon disulfide	**--**	27 D	29 D	ND
Methylcyclohexane	**--**	ND	5,200	44 D
sec-Butylbenzene	**5**	ND	43 D	ND
Tentatively Identified Compounds (TICs)[3]	**--**	410	26,000	1,122
Total VOCs		***437***	***31,472***	***1,166***
STARS Semi-Volatile Organic Compounds (SVOCs) - ug/L				
Fluorene	**50**	ND	50 DJ	ND
Phenanthrene	**50**	ND	87 DJ	7.1 DJ
Tentatively Identified Compounds (TICs)[3]	**--**	1,696	8,640	1,222
Total SVOCs		***1,696***	***8,777***	***1,229***

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards.
3. Excludes TICs identified in the laboratory blank.

Definitions:

ND = Parameter not detected above laboratory detection limit.
"--" = No SCO available.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
D= All compounds were identified in an analyisis at the secondary dilution factor.

Sample Result exceeds NYSDEC Groundwater Quality Standards.
Elevated TICs.

TABLE 4
SUMMARY OF GROUNDWATER ELEVATIONS

FRANKLIN STREET
OLEAN, NEW YORK

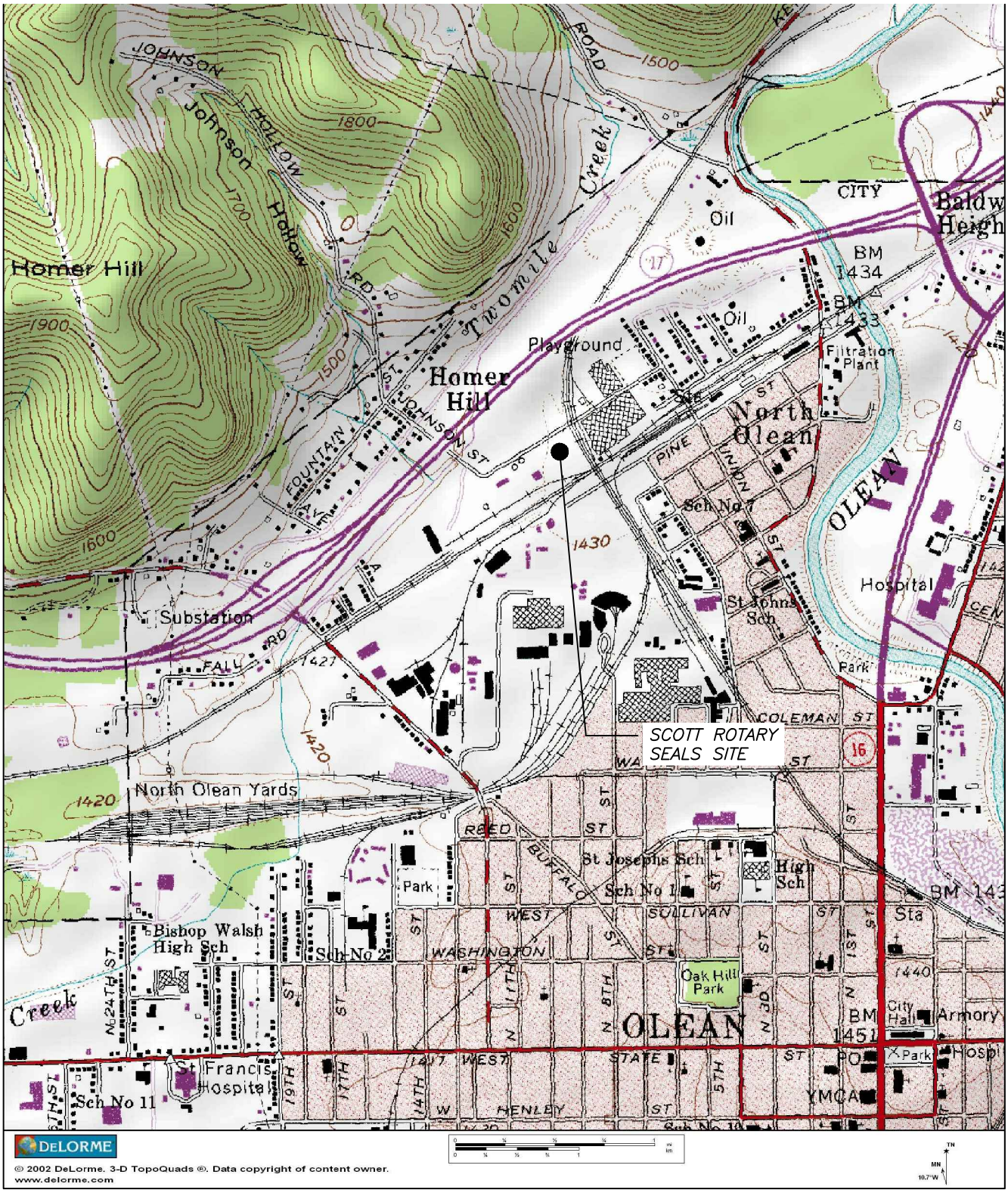
Monitoring Location	Grade	Top of PVC Riser Elev.	Water Level from Top of Riser	Groundwater Elevation
MW-1	503.69	506.08	27.58	478.50
MW-2	496.78	499.21	18.61	480.60
MW-3	497.25	499.29	18.79	480.50

Notes:

1. All wells were surveyed on 6/29/09 with site specific datum of 500 feet.
2. All elevations are feel above mean sea level.

FIGURES

FIGURE 1



TurnKey Environmental Restoration, LLC
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SUITE 300
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(716) 856-0635

PROJECT NO.: 0189-001-100

DATE: JULY 2009

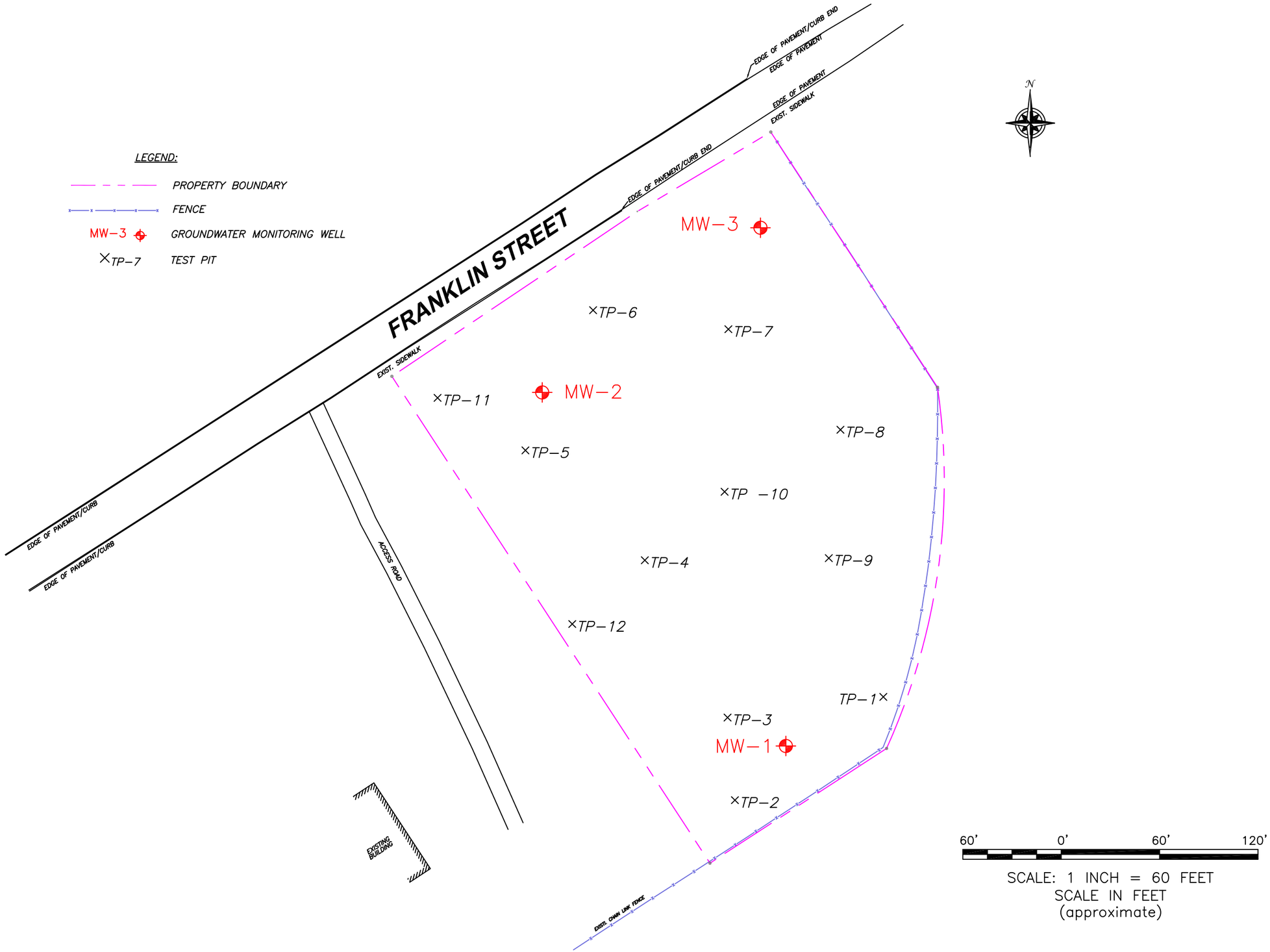
DRAFTED BY: AJZ

SITE VICINITY AND LOCATION MAP

PHASE II INVESTIGATION

SCOTT ROTARY SEALS SITE
OLEAN, NEW YORK

PREPARED FOR
SCOTT ROTARY SEALS



DATE: JULY 2009
DRAFTED BY: AJZ

2558 HAMBURG TURNPIKE
SUITE 300
LACKAWANNA, NY 14218
(716) 856-0635

TURNKEY ENVIRONMENTAL RESTORATION, LLC

JOB NO.: 0189-001-100

SITE PLAN
PHASE II INVESTIGATION
SCOTT ROTARY SEALS SITE
OLEAN, NEW YORK

PREPARED FOR
SCOTT ROTARY SEALS

FIGURE 2

LEGEND:

- PROPERTY BOUNDARY
- 495' ISOPOTENTIAL CONTOUR
- GROUNDWATER FLOW DIRECTION
- FENCE
- MW-3 480.6 GROUNDWATER MONITORING WELL WITH WATER ELEVATION

FRANKLIN STREET

EDGE OF PAVEMENT/CURB END

EDGE OF PAVEMENT

EDGE OF PAVEMENT

EXIST. SIDEWALK

EDGE OF PAVEMENT/CURB END

EXIST. SIDEWALK

EDGE OF PAVEMENT/CURB

EDGE OF PAVEMENT/CURB

ACCESS ROAD

EXISTING BUILDING

EXIST. CHAIN LINK FENCE

481'

480'

479'

478'

MW-3
480.5

MW-2
480.6

MW-1
478.5

N

60' 0' 60' 120'

SCALE: 1 INCH = 60 FEET
SCALE IN FEET
(approximate)

DATE: JULY 2009
DRAFTED BY: AJZ

2558 HAMBURG TURNPIKE
SUITE 300
LACKAWANNA, NY 14218
(716) 856-0635

TURNKEY ENVIRONMENTAL RESTORATION, LLC

JOB NO.: 0189-001-100

GROUNDWATER ISOPOTENTIAL MAP

PHASE II INVESTIGATION
SCOTT ROTARY SEALS SITE
OLEAN, NEW YORK

PREPARED FOR
SCOTT ROTARY SEALS

FIGURE 3

APPENDIX A

SITE PHOTOGRAPHS
(HISTORIC AND CURRENT)

HISTORIC AERIAL PHOTOGRAPHS

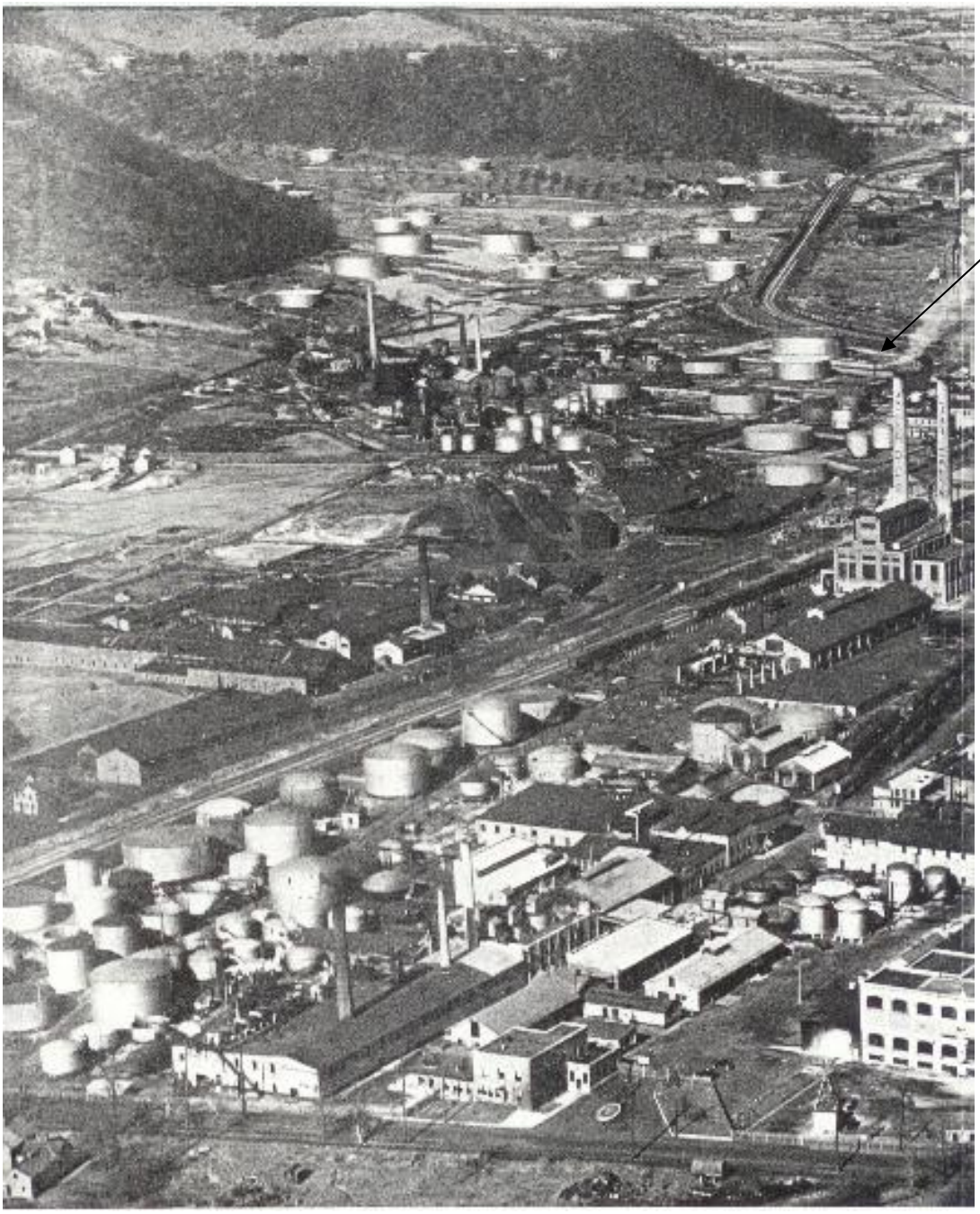


Photo 1: Site area circa 1940

Franklin Street Site **Olean, New York**	

HISTORIC AERIAL PHOTOGRAPHS

Photo 2: Site area circa 1940

SITE PHOTOGRAPHS

Photo 3:

Photo 4:

Photo 5:

Photo 6:

Photo 3: Site conditions (note brick and concrete debris)

Photo 4: Site conditions (note brick and concrete debris)

Photo 5: Site conditions (note miscellaneous debris)

Photo 6: Site conditions (note apparent AST foundation)

SITE PHOTOGRAPHS

Photo 7:

Photo 8:

Photo 9:

Photo 10:

Photo 7: TP-4 showing stained soil and piping

Photo 8: TP-4 showing stained soil and piping

Photo 9: TP-5 showing stained soil and debris

Photo 10: TP-5 showing stained soil and debris

SITE PHOTOGRAPHS

Photo 11:

Photo 12:

Photo 13:

Photo 14:

Photo 11: TP-6 excavation and stained soil

Photo 12: TP-6 stained soil

Photo 13: TP-9 excavation and stained soil

Photo 14: TP-9 stained soil

SITE PHOTOGRAPHS

Photo 15:

Photo 16:

Photo 17:

Photo 18:

Photo 15: TP-10 excavation and stained soil

Photo 16: TP-10 stained soil and debris

Photo 17: TP-11 excavation and stained soil

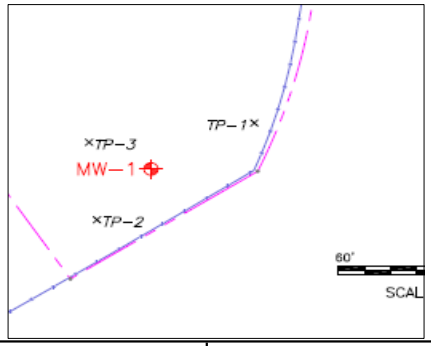
Photo 18: TP-12 excavation, stained soil, debris

APPENDIX B

FIELD TEST PIT LOGS

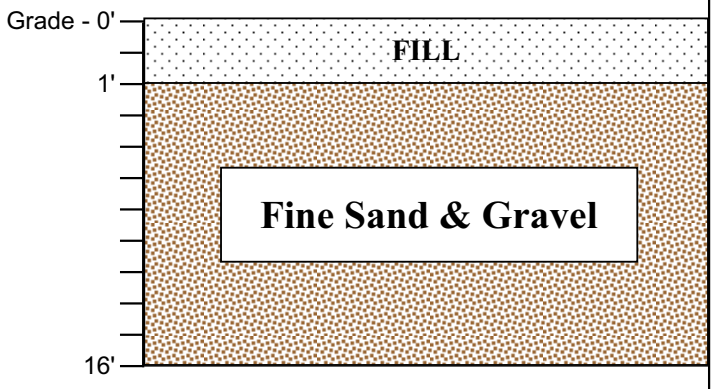
TEST PIT EXCAVATION LOG

Project:	Phase II Investigation	TEST PIT I.D.:	**TP-1**
Project No.:	0189-001-100	Excavation Date:	06/24/09
Client:	Scott Rotary Seals	Excavation Method:	CASE 9010B Excavator
Location:	350 Franklin Street, Olean, NY	Logged / Checked By:	TAB/BCH



TIME				
Start:	8:30	Length:	10.0 ft.	(approx.)
End:	9:30	Width:	7.0 ft.	(approx.)
		Depth:	16.0 ft.	(approx.)

Test Pit Cross Section:



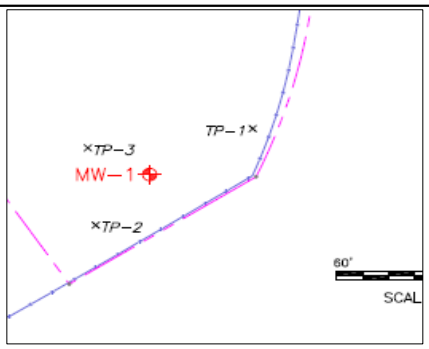
Depth (fbgs)	(ASTM D2488: Visual Manual Procedure) Description	PID Scan (ppm)	Photos Y / N	Samples Collected (fbgs)
0.0 - 1.0	Black, moist, Fill, fines, with some fine sand, coarse sand and cobbles 2 to 6-inch, with brick, concrete and steel debris, medium dense, loose when disturbed.	0.0	y	n
1.0 -15.0	Brown, moist, Fine Sand and Gravel, some cobbles with little non-plastic fines, medium dense, loose when disturbed.	0.0	y	n
15.0 - 16.0	As above, grey, slight petroleum like odor.	11.9	y	n

COMMENTS:

GROUNDWATER ENCOUNTERED:	☐ YES	☑ NO	If yes, depth to GW:	
VISUAL IMPACTS:	☑ YES	☐ NO	Describe:	Grey-stained soils
OLFACTORY OBSERVATIONS:	☑ YES	☐ NO	Describe:	Petroleum-like odor
NON-NATIVE FILL ENCOUNTERED:	☑ YES	☐ NO		
OTHER OBSERVATIONS:	☐ YES	☑ NO	Describe:	
SAMPLES COLLECTED:			Sample I.D.:	
			Sample I.D.:	
			Sample I.D.:	

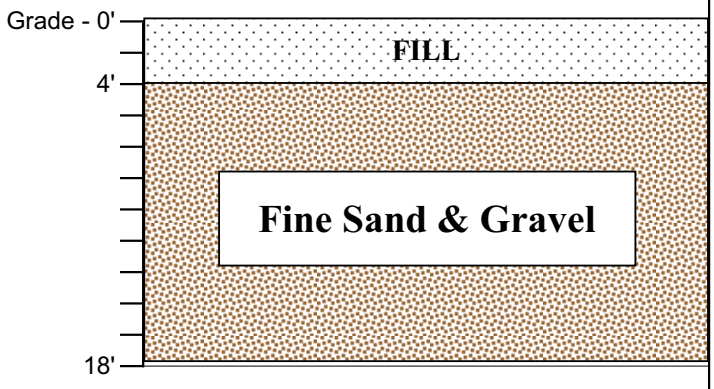
TEST PIT EXCAVATION LOG

Project:	Phase II Investigation	TEST PIT I.D.:	**TP-2**
Project No.:	0189-001-100	Excavation Date:	06/24/09
Client:	Scott Rotary Seals	Excavation Method:	CASE 9010B Excavator
Location:	350 Franklin Street, Olean, NY	Logged / Checked By:	TAB/BCH



TIME				
Start:	9:19	Length:	18.0 ft.	(approx.)
End:	9:45	Width:	3.5 ft.	(approx.)
		Depth:	18.0 ft.	(approx.)

Test Pit Cross Section:



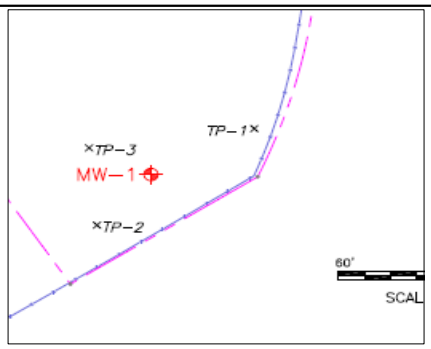
Depth (fbgs)	(ASTM D2488: Visual Manual Procedure) Description	PID Scan (ppm)	Photos Y / N	Samples Collected (fbgs)
0.0 - 4.0	Brown , moist, Fill with fine sand, some non-plastic fines, few coarse gravel and cobbles, with plastic, metal, wood and brick debris, medium dense, loose when disturbed.	0.0	y	n
4.0 - 16.0	Brown, moist, Fine Sand and Gravel, some cobbles with little non-plastic fines, medium dense, loose when disturbed, slight petroleum-like odor below 12.0 fbgs.	0.0	y	n
16.0-18.0	As above, grey, slight petroluem like odor.	25.8	y	y

COMMENTS:

GROUNDWATER ENCOUNTERED:	☐ YES	☑ NO	If yes, depth to GW:	
VISUAL IMPACTS:	☑ YES	☐ NO	Describe:	Grey stained soils
OLFACTORY OBSERVATIONS:	☑ YES	☐ NO	Describe:	Petrolum like odor
NON-NATIVE FILL ENCOUNTERED:	☑ YES	☐ NO		
OTHER OBSERVATIONS:	☐ YES	☑ NO	Describe:	
SAMPLES COLLECTED:			Sample I.D.:	TP-2 (16-18fbgs)
			Sample I.D.:	
			Sample I.D.:	

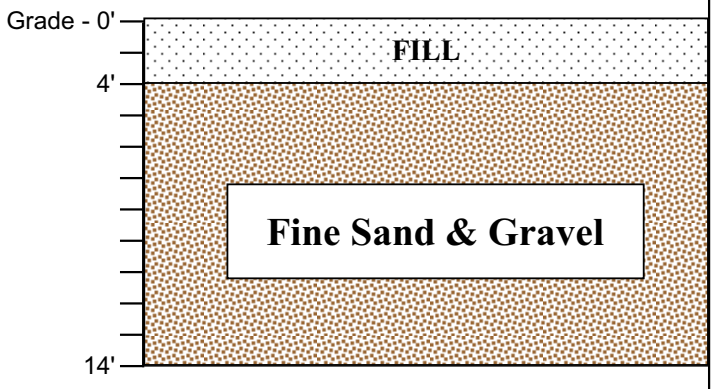
TEST PIT EXCAVATION LOG

Project:	Phase II Investigation	TEST PIT I.D.:	**TP-3**
Project No.:	0189-001-100	Excavation Date:	06/24/09
Client:	Scott Rotary Seals	Excavation Method:	CASE 9010B Excavator
Location:	350 Franklin Street, Olean, NY	Logged / Checked By:	TAB/BCH



TIME				
Start:	9:55	Length:	14.0 ft.	(approx.)
End:	10:18	Width:	3.5 ft.	(approx.)
		Depth:	14.0 ft.	(approx.)

Test Pit Cross Section:



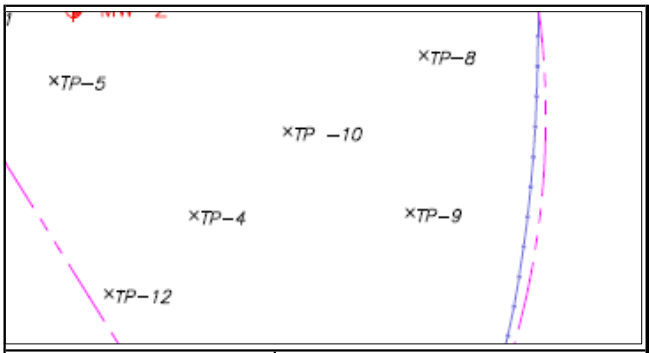
Depth (fbgs)	(ASTM D2488: Visual Manual Procedure) Description	PID Scan (ppm)	Photos Y / N	Samples Collected (fbgs)
0.0 - 4.0	Dark brown, moist, Fill, non-plastic fines, with some fine sand with brick, concrete and steel debris, medium dense, loose when disturbed.	0.0	y	n
4.0 -13.0	Brown, moist, Fine Sand and Gravel, some cobbles with little non-plastic fines, medium dense, loose when disturbed.	0.0	y	n
13.0 - 14.0	As above, grey, slight petroleum like odor.	1.9	y	n

COMMENTS:

GROUNDWATER ENCOUNTERED:	☐ YES	☑ NO	If yes, depth to GW:	
VISUAL IMPACTS:	☑ YES	☐ NO	Describe:	Grey-stained soils
OLFACTORY OBSERVATIONS:	☑ YES	☐ NO	Describe:	Petroleum-like odor
NON-NATIVE FILL ENCOUNTERED:	☑ YES	☐ NO		
OTHER OBSERVATIONS:	☐ YES	☑ NO	Describe:	
SAMPLES COLLECTED:			Sample I.D.:	
			Sample I.D.:	
			Sample I.D.:	

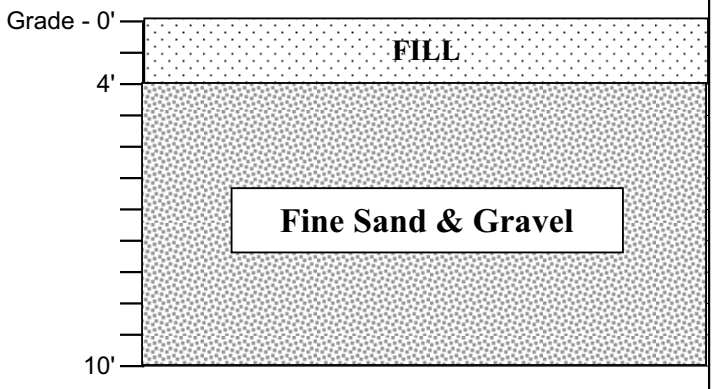
TEST PIT EXCAVATION LOG

Project:	Phase II Investigation	TEST PIT I.D.:	**TP-4**
Project No.:	0189-001-100	Excavation Date:	06/24/09
Client:	Scott Rotary Seals	Excavation Method:	CASE 9010B Excavator
Location:	350 Franklin Street, Olean, NY	Logged / Checked By:	TAB/BCH



TIME				
Start:	10:25	Length:	10.0 ft.	(approx.)
End:	10:50	Width:	3.5 ft.	(approx.)
		Depth:	10.0 ft.	(approx.)

Test Pit Cross Section:



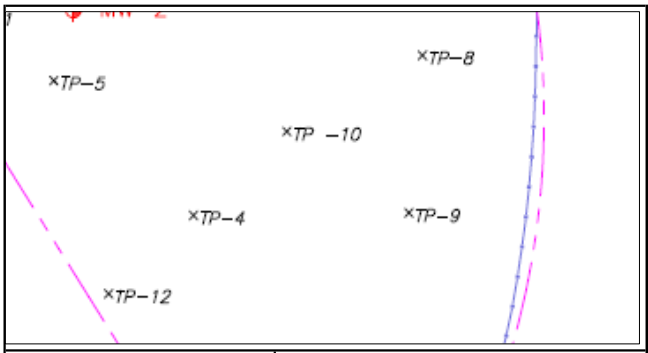
Depth (fbgs)	(ASTM D2488: Visual Manual Procedure) Description	PID Scan (ppm)	Photos Y / N	Samples Collected (fbgs)
0.0 - 4.0	Dark brown/black, moist, Fill, non-plastic fines, with some fine sand with brick, concrete footers, and steel piping, medium dense, loose when disturbed, petroleum-like odor.	0.0	y	n
4.0 -10.0	Black/dark grey, moist, Fine Sand and Gravel, some cobbles with little non-plastic fines, medium dense, loose when disturbed, strong petroleum odor.	195.0	y	y

COMMENTS:

GROUNDWATER ENCOUNTERED:	☐ YES	☑ NO	If yes, depth to GW:	
VISUAL IMPACTS:	☑ YES	☐ NO	Describe:	Grey-stained soils
OLFACTORY OBSERVATIONS:	☑ YES	☐ NO	Describe:	Petroleum like odor
NON-NATIVE FILL ENCOUNTERED:	☑ YES	☐ NO		
OTHER OBSERVATIONS:	☐ YES	☑ NO	Describe:	
SAMPLES COLLECTED:			Sample I.D.:	TP-4 (4-10 fbgs)
			Sample I.D.:	
			Sample I.D.:	

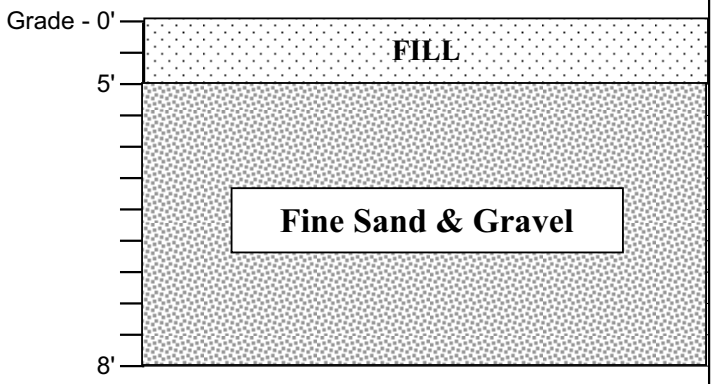
TEST PIT EXCAVATION LOG

Project:	Phase II Investigation	TEST PIT I.D.:	**TP-5**
Project No.:	0189-001-100	Excavation Date:	06/24/09
Client:	Scott Rotary Seals	Excavation Method:	CASE 9010B Excavator
Location:	350 Franklin Street, Olean, NY	Logged / Checked By:	TAB/BCH



TIME				
Start:	10:59	Length:	10.0 ft.	(approx.)
End:	11:25	Width:	5.0 ft.	(approx.)
		Depth:	8.0 ft.	(approx.)

Test Pit Cross Section:



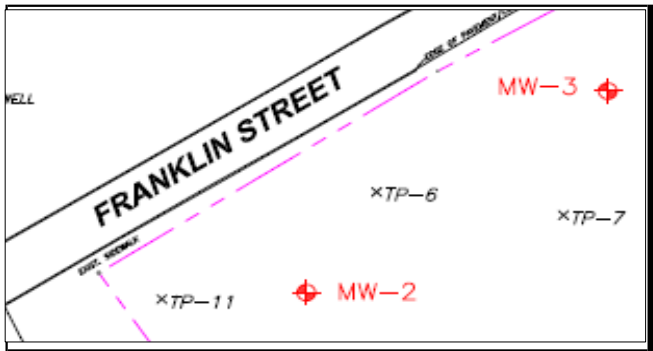
Depth (fbgs)	(ASTM D2488: Visual Manual Procedure) Description	PID Scan (ppm)	Photos Y / N	Samples Collected (fbgs)
0.0 - 5.0	Dark brown, Fill, non-plastic fines, with some fine sand and coarse gravel, with red brick, concrete rubble, and steel piping debris, medium dense, loose when disturbed, petroleum like odor, suspected perched water in rubble debris.	0.0	y	n
5.0 -8.0	Black/dark grey, moist, Fine Sand and Gravel, some cobbles with little non-plastic fines, medium dense, loose when disturbed, strong petroleum-like odor.	64.0	y	y

COMMENTS:

GROUNDWATER ENCOUNTERED:	☑ YES	☐ NO	If yes, depth to GW:	~5.0 fbgs
VISUAL IMPACTS:	☑ YES	☐ NO	Describe:	Grey-stained soils
OLFACTORY OBSERVATIONS:	☑ YES	☐ NO	Describe:	Petroleum like odor
NON-NATIVE FILL ENCOUNTERED:	☑ YES	☐ NO		
OTHER OBSERVATIONS:	☐ YES	☑ NO	Describe:	
SAMPLES COLLECTED:			Sample I.D.:	TP-5 (5-8 fbgs)
			Sample I.D.:	
			Sample I.D.:	

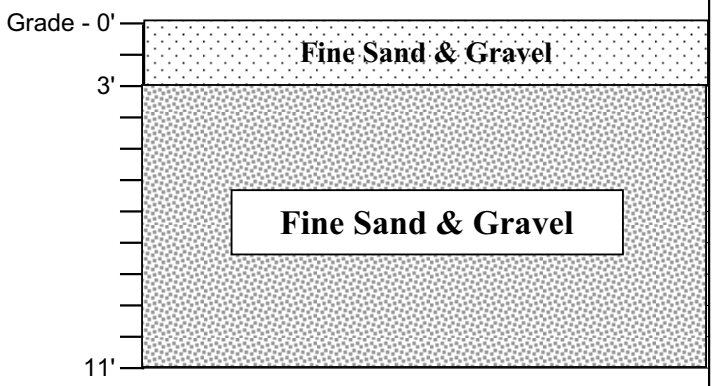
TEST PIT EXCAVATION LOG

Project:	Phase II Investigation	TEST PIT I.D.:	**TP-6**
Project No.:	0189-001-100	Excavation Date:	06/24/09
Client:	Scott Rotary Seals	Excavation Method:	CASE 9010B Excavator
Location:	350 Franklin Street, Olean, NY	Logged / Checked By:	TAB/BCH



TIME				
Start:	12:15	Length:	23.0 ft.	(approx.)
End:	12:40	Width:	3.5 ft.	(approx.)
		Depth:	11.0 ft.	(approx.)

Test Pit Cross Section:



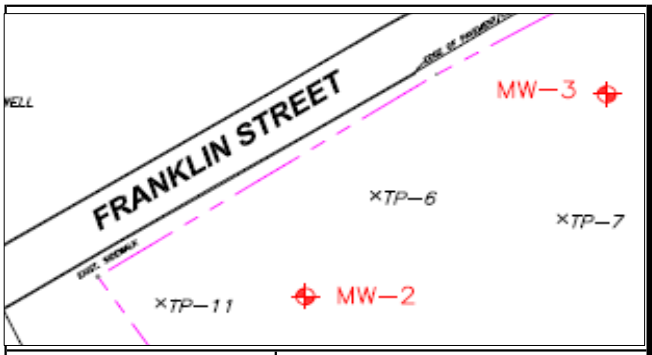
Depth (fbgs)	(ASTM D2488: Visual Manual Procedure) Description	PID Scan (ppm)	Photos Y / N	Samples Collected (fbgs)
0.0 - 3.0	Dark brown, moist, Fine Sand and Gravel, with some non-plastic fines, with few cobbles, medium dense, with former suspected former AST tank foundation.	0.0	y	n
3.0 -11.0	As above, dark grey, strong petroleum-like odor.	1195.0	y	y

COMMENTS:

GROUNDWATER ENCOUNTERED:	☐ YES	☑ NO	If yes, depth to GW:	
VISUAL IMPACTS:	☑ YES	☐ NO	Describe:	Grey-stained soils
OLFACTORY OBSERVATIONS:	☑ YES	☐ NO	Describe:	Petroleum like odor
NON-NATIVE FILL ENCOUNTERED:	☑ YES	☐ NO		
OTHER OBSERVATIONS:	☐ YES	☑ NO	Describe:	TP-6 (3-11 fbgs)
SAMPLES COLLECTED:			Sample I.D.:	
			Sample I.D.:	
			Sample I.D.:	

TEST PIT EXCAVATION LOG

Project:	Phase II Investigation	TEST PIT I.D.:	**TP-7**
Project No.:	0189-001-100	Excavation Date:	06/24/09
Client:	Scott Rotary Seals	Excavation Method:	CASE 9010B Excavator
Location:	350 Franklin Street, Olean, NY	Logged / Checked By:	TAB/BCH



TIME				
Start:	12:45	Length:	11.0 ft.	(approx.)
End:	13:05	Width:	3.5 ft.	(approx.)
		Depth:	13.0 ft.	(approx.)

Test Pit Cross Section:

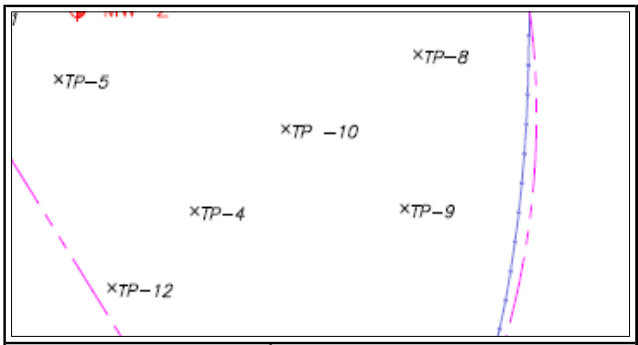
Depth (fbgs)	(ASTM D2488: Visual Manual Procedure) Description	PID Scan (ppm)	Photos Y / N	Samples Collected (fbgs)
0.0 - 13.0	Dark brown, moist, Fine Sand and Gravel, with some non-plastic fines, with few cobbles, medium dense.	0.0	y	n

COMMENTS:

GROUNDWATER ENCOUNTERED:	☐ YES	☑ NO	If yes, depth to GW:
VISUAL IMPACTS:	☐ YES	☑ NO	Describe:
OLFACTORY OBSERVATIONS:	☐ YES	☑ NO	Describe:
NON-NATIVE FILL ENCOUNTERED:	☐ YES	☑ NO	
OTHER OBSERVATIONS:	☐ YES	☑ NO	Describe:
SAMPLES COLLECTED:			Sample I.D.:
			Sample I.D.:
			Sample I.D.:

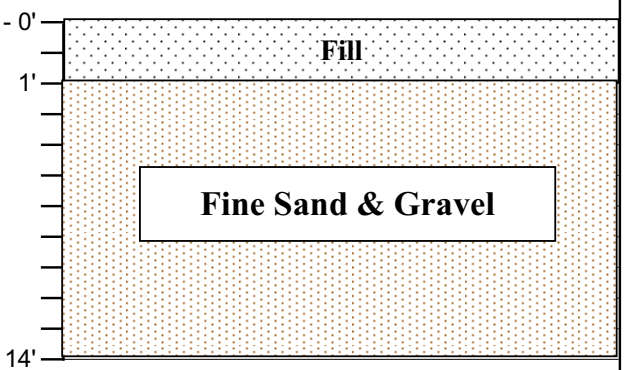
TEST PIT EXCAVATION LOG

Project:	Phase II Investigation	TEST PIT I.D.:	**TP-8**
Project No.:	0189-001-100	Excavation Date:	06/24/09
Client:	Scott Rotary Seals	Excavation Method:	CASE 9010B Excavator
Location:	350 Franklin Street, Olean, NY	Logged / Checked By:	TAB/BCH



TIME				
Start:	13:10	Length:	11.5 ft.	(approx.)
End:	14:00	Width:	3.5 ft.	(approx.)
		Depth:	14.0 ft.	(approx.)

Test Pit Cross Section:

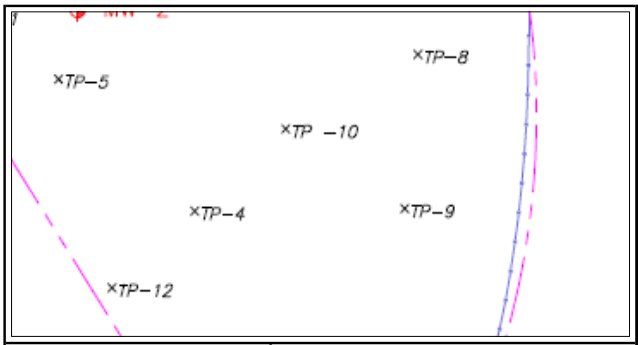


Depth (fbgs)	(ASTM D2488: Visual Manual Procedure) Description	PID Scan (ppm)	Photos Y / N	Samples Collected (fbgs)
0.0-1.0	Black/dark brown, fill, non-plastic fines with some fine sand, with piping and red and orange brick debris, medium dense, loose when disturbed.	0.0	y	n
1.0-12.0	Dark brown, moist, Fine Sand and Gravel, with some non-plastic fines, with few cobbles, medium dense, loose when disturbed.	0.0	y	n
12.0-14.0	As above, dark grey, strong petroleum-like odor.	42.0	y	n

COMMENTS:

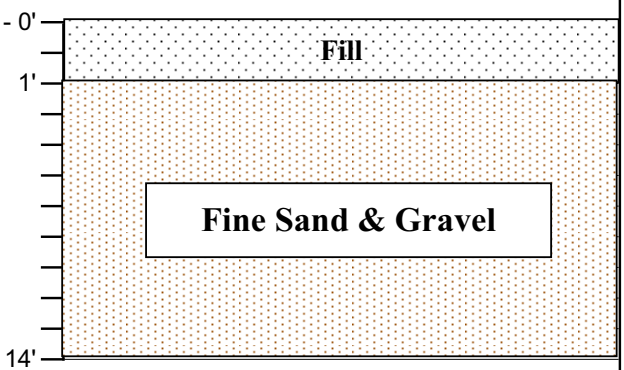
TEST PIT EXCAVATION LOG

Project:	Phase II Investigation	TEST PIT I.D.:	**TP-9**
Project No.:	0189-001-100	Excavation Date:	06/24/09
Client:	Scott Rotary Seals	Excavation Method:	CASE 9010B Excavator
Location:	350 Franklin Street, Olean, NY	Logged / Checked By:	TAB/BCH



TIME				
Start:	14:11	Length:	11.5 ft.	(approx.)
End:	14:35	Width:	3.5 ft.	(approx.)
		Depth:	14.0 ft.	(approx.)

Test Pit Cross Section:

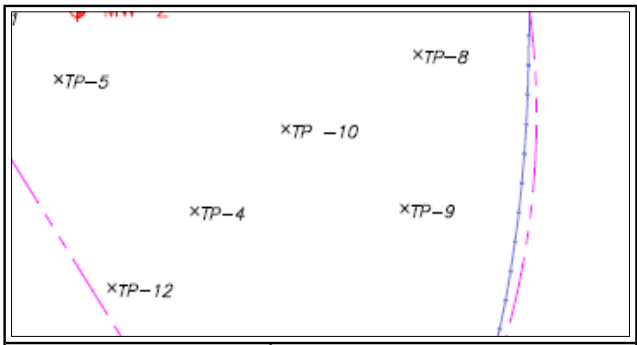


Depth (fbgs)	(ASTM D2488: Visual Manual Procedure) Description	PID Scan (ppm)	Photos Y / N	Samples Collected (fbgs)
0.0-1.0	Black/dark brown, moist, fill, non-plastic fines with some fine sand, with piping and red brick debris, medium dense, loose when disturbed.	0.0	y	n
1.0-12.0	Dark brown, moist, Fine Sand and Gravel, with some non-plastic fines, with few cobbles, medium dense, loosewhen disturbed.	0.0	y	n
12.0-14.0	As above, dark grey, strong petroleum-like odor.	1254.0	y	y

COMMENTS:

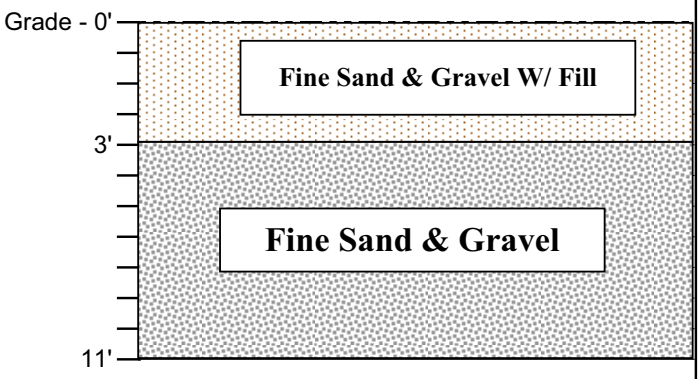
TEST PIT EXCAVATION LOG

Project:	Phase II Investigation	TEST PIT I.D.:	**TP-10**
Project No.:	0189-001-100	Excavation Date:	06/24/09
Client:	Scott Rotary Seals	Excavation Method:	CASE 9010B Excavator
Location:	350 Franklin Street, Olean, NY	Logged / Checked By:	TAB/BCH



TIME				
Start:	14:40	Length:	11.5 ft.	(approx.)
End:	15:15	Width:	3.5 ft.	(approx.)
		Depth:	11.0 ft.	(approx.)

Test Pit Cross Section:

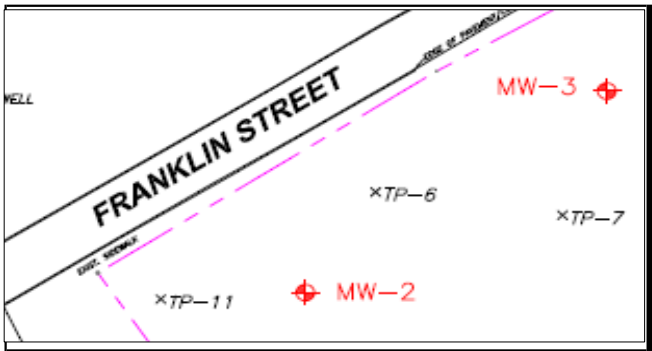


Depth (fbgs)	(ASTM D2488: Visual Manual Procedure) Description	PID Scan (ppm)	Photos Y / N	Samples Collected (fbgs)
0.0- 3.0	Dark brown, moist, Fine Sand and Gravel with, with some non-plastic fines, with few cobbles with orange brick debris, medium dense, loose when disturbed.	0.0	y	n
3.0-11.0	As above, dark grey, strong petroleum-like odor, with no orange bricks..	1094.0	y	y

COMMENTS:

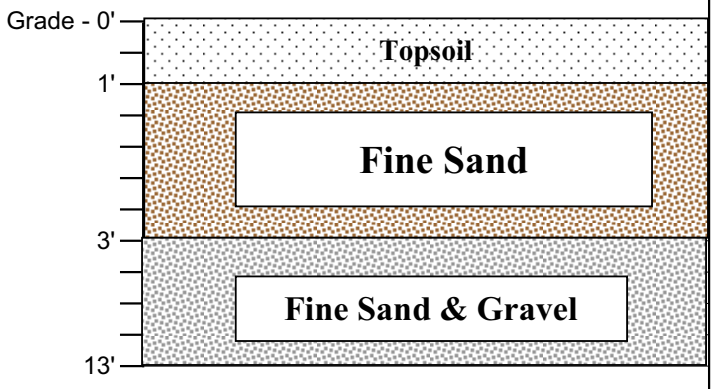
TEST PIT EXCAVATION LOG

Project:	Phase II Investigation	TEST PIT I.D.:	**TP-11**
Project No.:	0189-001-100	Excavation Date:	06/24/09
Client:	Scott Rotary Seals	Excavation Method:	CASE 9010B Excavator
Location:	350 Franklin Street, Olean, NY	Logged / Checked By:	TAB/BCH



TIME				
Start:	15:20	Length:	11.0 ft.	(approx.)
End:	15:55	Width:	3.5 ft.	(approx.)
		Depth:	13.0 ft.	(approx.)

Test Pit Cross Section:



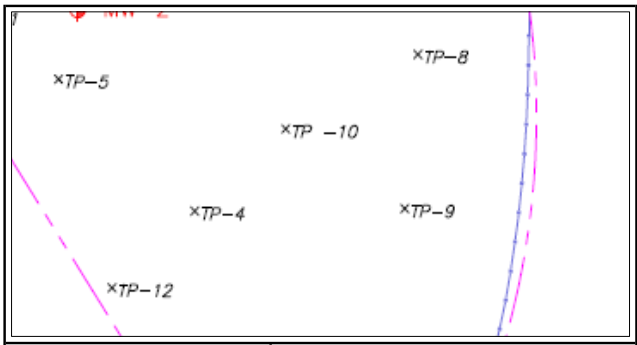
Depth (fbgs)	(ASTM D2488: Visual Manual Procedure) Description	PID Scan (ppm)	Photos Y / N	Samples Collected (fbgs)
0.0 - 1.0	Dark Brown, moist, Top Soil, low plasticity fines with some fine sand and few coarse sand, soft.	0.0	y	n
1.0 - 3.0	Brown, moist, Fine Sand with some non-plastic fines, few coarse gravel, trace cobbles, with lenses of clayey silt, medium dense, loose when disturbed.	0.0	y	n
3.0-4.0	As above, grey, slight petroluem-like odor.	25.8	y	n
4.0-13.0	Grey, moist, Fine Sand and Gravel with few cobbles, some coarse gravel, little non-plastic fines, medium dense, loose when disturbed, strong petroleum-like odor.	540.0	y	n

COMMENTS:

GROUNDWATER ENCOUNTERED:	☐ YES	☑ NO	If yes, depth to GW:	
VISUAL IMPACTS:	☑ YES	☐ NO	Describe:	Grey-stained soils
OLFACTORY OBSERVATIONS:	☑ YES	☐ NO	Describe:	Petroleum like odor
NON-NATIVE FILL ENCOUNTERED:	☑ YES	☐ NO		
OTHER OBSERVATIONS:	☐ YES	☑ NO	Describe:	
SAMPLES COLLECTED:			Sample I.D.:	
			Sample I.D.:	
			Sample I.D.:	

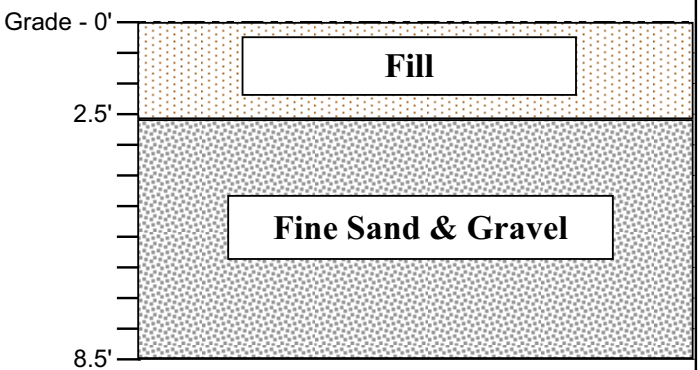
TEST PIT EXCAVATION LOG

Project:	Phase II Investigation	TEST PIT I.D.:	**TP-12**
Project No.:	0189-001-100	Excavation Date:	06/24/09
Client:	Scott Rotary Seals	Excavation Method:	CASE 9010B Excavator
Location:	350 Franklin Street, Olean, NY	Logged / Checked By:	TAB/BCH



TIME				
Start:	16:00	Length:	11.5 ft.	(approx.)
End:	16:30	Width:	4.0 ft.	(approx.)
		Depth:	8.5 ft.	(approx.)

Test Pit Cross Section:



Depth (fbgs)	(ASTM D2488: Visual Manual Procedure) Description	PID Scan (ppm)	Photos Y / N	Samples Collected (fbgs)
0.0-2.5	Dark brown, moist, Fill, non-plastic fines with some fine sand, concrete, brick and metal debris, non-plastic, medium dense, loose when disturbed, suspected brick footer at north wall.	0.0	y	n
2.5-4.0	As above, dark grey, with strong petroleum-like odor.	100.0	y	y
4.0-8.5	Dark grey/black, moist, Fine Sand and Gravel, with some non-plastic fines and few cobbles, medium dense, loose when disturbed, strong petroleum like odor.	805.0	y	y

COMMENTS:

APPENDIX C

FIELD BOREHOLE LOGS AND WELL COMPLETION DETAILS

Project No: 0189-001-100

Borehole Number: MW-1

Project: Phase II Investigation

Client: Scott Rotary Seals

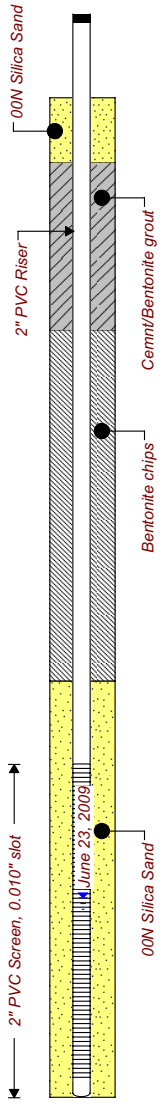
Logged By: TAB

Site Location: 350 Franklin St

Checked By: BCH

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol	PID VOCs ppm (0 – 250 – 500)	Lab Sample	Well Completion Details or Remarks
-3.0									
	0.0	Ground Surface							
	0.0	***Fill with Fine Sand and Gravel*** Dark brown, moist, fine sand with some coarse sand and fine gravel, little silt, with trace coarse gravel, brick fragments and wood chips medium dense, non-plastic, loose when disturbed.	1	NA	.8		96.0		
2.0									
	-5.0 5.0	As above, no fill.	2	NA	0.9		5.7		
7.0									
	-8.0 8.0	As above with grey, strong petroleum like odor.	3	NA	2.0		135		
12.0			4	NA	2.0		125		
17.0			5	NA	2.5		78.9		
22.0			6	NA	2.5		259		
	-24.0 24.0	As above, wet.	7	NA	1.5		465		
27.0			8	NA	1.5		230		
	-31.0 31.0	End of Borehole							
32.0									



Drilled By: Trec Environmental, Inc.
Drill Rig Type: 6620DT
Drill Method: Direct push/ 4 1/4 -inch augers

Drill Date(s): 6/23/09

Hole Size:
Stick-up: 2.5-foot
Datum:

Sheet: 1 of 1

Project No: 0189-001-100

Borehole Number: MW-2

Project: Phase II Investigation

Client: Scott Rotary Seals

Logged By: TAB

Site Location: 350 Franklin St

Checked By: BCH

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol	PID VOCs ppm (0 / 1000 / 2000)	Lab Sample	Well Completion Details or Remarks
-3.0									
	0.0	Ground Surface							
	0.0	***Fill*** Dark brown and Black, moist, fill, non-plastic fines with some fine sand, few coarse gravel, orange and yellow brick.	1	NA	2.3		4.3		00N Silica Sand
2.0									
	-5.0								2" PVC Riser
	5.0	***Fine Sand and Gravel*** Black, moist, fine sand with fine gravel, few coarse gravel, little silt, medium dense, non-plastic, loose when disturbed, strong petroleum like odor.	2	NA	1.5		20.7		Cemnt/Bentonite grout
7.0			3	NA	1.5		1336		
			4	NA	1.9		1782		Bentonite chips
12.0							1989		
			5	NA	1.5		1305	TCL + STARS 8260 VOC & 8270 SVOC	
17.0							1726		
	-20.0						1928		
	20.0	As above, wet.	6	NA	2.0		508		June 23, 2009
	-22.0								
22.0	22.0	As above, dark grey.					775		
			7	NA	2.5		314		2" PVC Screen, 0.010" slot
27.0							646		00N Silica Sand
	-28.0								
	28.0	End of Borehole							
32.0									

Drilled By: Trec Environmental, Inc.
Drill Rig Type: 6620DT
Drill Method: Direct push/ 4 1/4 -inch augers

Drill Date(s): 6/23/09

Hole Size: 9-inch
Stick-up: 2.5-foot
Datum: Mean Sea Level

Sheet: 1 of 1

Project No: 0189-001-100

Borehole Number: MW-3

Project: Phase II Investigation

Client: Scott Rotary

Logged By: TAB

Site Location: 350 Franklin St

Checked By: BCH

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol	PID VOCs ppm (0 / 500 / 1000)	Lab Sample	Well Completion Details or Remarks
-3.0									
	0.0	Ground Surface							
	0.0	***Fill*** Yellow and orange brick.	1	NA	2.3		13.3		
2.0									
	-5.0 5.0	***Fine Sand and Gravel*** Brown, moist, fine sand with fine gravel, few coarse gravel, little silt, medium dense, non-plastic, loose when disturbed, slight petroleum like odor.	2	NA	1.5		7.1, 9.0		
7.0									
			3	NA	1.5		6.1, 10.3		
12.0									
			4	NA	1.9		9.5, 180		
	-15.0 15.0	As above, grey, strong petroleum-like odor.							
17.0			5	NA	1.5		718, 488		
	-20.0 20.0	As above, dark grey, wet.							
22.0			6	NA	2.0		227, 137		
			7	NA	2.5		79.8, 720		
27.0									
	-28.0 28.0	End of Borehole							
32.0									

Well Completion Details: 00N Silica Sand; 2" PVC Riser; Cemnt/Bentonite grout; Bentonite chips; June 23, 2009; 2" PVC Screen, 0.010" slot; 00N Silica Sand

Drilled By: Trec Environmental, Inc.
Drill Rig Type: 6620DT
Drill Method: Direct push/ 4 1/4 -inch augers

Drill Date(s): 6/23/09

Hole Size: 9-inch
Stick-up: 2.5-foot
Datum: Mean Sea Level

Sheet: 1 of 1

APPENDIX D

LABORATORY ANALYTICAL DATA SUMMARY PACKAGE

Analytical Report

Work Order: RSF1074

Project Description

Benchmark-350 Franklin St./Olean, NY site

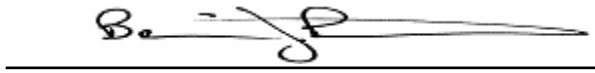
For:

Mike Lesakowski

Benchmark Environmental & Engineering Science

2558 Hamburg Turnpike, Suite 300

Lackawanna, NY 14218



Brian Fischer

Project Manager

Brian.Fischer@testamericainc.com

Monday, July 27, 2009

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THE LEADER IN ENVIRONMENTAL TESTING

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

TestAmerica Buffalo
Current Certifications

As of 1/27/2009

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

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

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

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Reported: 07/27/09 11:46

Case Narrative

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

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

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

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
D02	Dilution required due to sample matrix effects
D08	Dilution required due to high concentration of target analyte(s)
E	Concentration exceeds the calibration range and therefore result is semi-quantitative.
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
QSU	Sulfur (EPA 3660) clean-up performed on extract.
T7	Tentatively identified compound. Concentration is estimated based on the closest internal standard.
Z	Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

TIC Analyzed by MS T.I.C. (Tentatively Identified Compound)

ADDITIONAL COMMENTS

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

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-01 (TP-2 (16-18) - Solid)						**Sampled: 06/24/09 09:40**		**Recvd: 06/26/09 09:15**		
General Chemistry Parameters										
Percent Solids	**92**		0.010	NR	%	1.00	06/30/09 14:03	SRW	9F30019	Dry Weight
Semivolatile Organics by GC/MS										
Chrysene	**2000**	D02	1800	18	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Fluoranthene	**170**	D02,J	1800	26	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Fluorene	**76**	D02,J	1800	42	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Volatile Organic Compounds by EPA 8260B										
sec-Butylbenzene	**2.4**	J	5.1	0.45	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Sample ID: RSF1074-02 (TP-10 (3-11) - Solid)						**Sampled: 06/24/09 15:00**		**Recvd: 06/26/09 09:15**		
General Chemistry Parameters										
Percent Solids	**97**		0.010	NR	%	1.00	06/30/09 14:03	SRW	9F30019	Dry Weight
Volatile Organic Compounds by EPA 8260B										
1,2,4-Trichlorobenzene	**140**		100	6.3	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
2-Butanone	**180**	J, B	520	140	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Naphthalene	**200**		100	14	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
sec-Butylbenzene	**94**	J	100	9.0	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Sample ID: RSF1074-03 (TP-9 (12-14) - Solid)						**Sampled: 06/24/09 14:26**		**Recvd: 06/26/09 09:15**		
General Chemistry Parameters										
Percent Solids	**96**		0.010	NR	%	1.00	06/30/09 14:03	SRW	9F30019	Dry Weight
Semivolatile Organics by GC/MS										
Fluorene	**310**	D02,J	340	7.9	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Phenanthrene	**640**	D02	340	7.2	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Volatile Organic Compounds by EPA 8260B										
sec-Butylbenzene	**7.4**	J	24	2.1	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Sample ID: RSF1074-04 (TP-12 (2.5-8.5) - Solid)						**Sampled: 06/24/09 16:12**		**Recvd: 06/26/09 09:15**		
General Chemistry Parameters										
Percent Solids	**95**		0.010	NR	%	1.00	06/30/09 14:03	SRW	9F30019	Dry Weight
Semivolatile Organics by GC/MS										
Benzo(a)anthracene	**160**	D02,J	870	15	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Benzo(ghi)perylene	**100**	D02,J	870	10	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Chrysene	**430**	D02,J	870	8.6	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Fluoranthene	**92**	D02,J	870	13	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Fluorene	**170**	D02,J	870	20	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Indeno(1,2,3-cd)pyrene	**60**	D02,J	870	24	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Phenanthrene	**520**	D02,J	870	18	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Pyrene	**200**	D02,J	870	5.6	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Volatile Organic Compounds by EPA 8260B										
p-Cymene	**42**		5.1	0.41	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Acetone	**7.3**	J	25	1.1	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-04 (TP-12 (2.5-8.5) - Solid) - cont.						**Sampled: 06/24/09 16:12**		**Recvd: 06/26/09 09:15**		
Volatile Organic Compounds by EPA 8260B - cont.										
n-Butylbenzene	**31**		5.1	0.44	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
sec-Butylbenzene	**22**		5.1	0.44	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Toluene	**1.2**	J	5.1	0.86	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Sample ID: RSF1074-05 (TP-6 (3-11) - Solid)						**Sampled: 06/24/09 12:39**		**Recvd: 06/26/09 09:15**		
General Chemistry Parameters										
Percent Solids	**90**		0.010	NR	%	1.00	06/30/09 14:03	SRW	9F30019	Dry Weight
Semivolatile Organics by GC/MS										
Benzo(a)anthracene	**68**	D02,J	920	16	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Chrysene	**140**	D02,J	920	9.1	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Phenanthrene	**650**	D02,J	920	19	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Volatile Organic Compounds by EPA 8260B										
Acetone	**79**		26	1.1	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Carbon disulfide	**2.4**	J	5.2	0.45	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Isopropylbenzene	**14**		5.2	0.34	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Methylcyclohexane	**3100**	E	5.2	0.34	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
n-Butylbenzene	**36**		5.2	0.45	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
n-Propylbenzene	**5.6**		5.2	0.40	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
sec-Butylbenzene	**37**		5.2	0.45	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Sample ID: RSF1074-05RE1 (TP-6 (3-11) - Solid)						**Sampled: 06/24/09 12:39**		**Recvd: 06/26/09 09:15**		
Volatile Organic Compounds by EPA 8260B										
Acetone	**1000**	D08,J	2200	97	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Methylcyclohexane	**20000**	D08	440	29	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Methylene Chloride	**400**	D08,J	440	200	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Naphthalene	**640**	D08	440	60	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Sample ID: RSF1074-06 (SB-2/MW-2 (16-20) - Solid)						**Sampled: 06/23/09 15:30**		**Recvd: 06/26/09 09:15**		
General Chemistry Parameters										
Percent Solids	**94**		0.010	NR	%	1.00	06/30/09 14:03	SRW	9F30019	Dry Weight
Semivolatile Organics by GC/MS										
Benzo(a)anthracene	**48**	D02,J	900	15	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Chrysene	**85**	D02,J	900	8.9	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Fluorene	**540**	D02,J	900	21	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Phenanthrene	**870**	D02,J	900	19	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Volatile Organic Compounds by EPA 8260B										
2-Butanone	**200**	J, B	530	150	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Methylcyclohexane	**9300**		110	6.9	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Naphthalene	**120**		110	14	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Sample ID: RSF1074-07 (TP-4 (4-10) - Solid)						**Sampled: 06/24/09 10:52**		**Recvd: 06/26/09 09:15**		
General Chemistry Parameters										
Percent Solids	**84**		0.010	NR	%	1.00	06/29/09 09:13	JB	9F29018	Dry Weight

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-07 (TP-4 (4-10) - Solid) - cont.						**Sampled: 06/24/09 10:52**		**Recvd: 06/26/09 09:15**		
Total Metals by SW 846 Series Methods										
Arsenic	**6.0**		2.2	NR	mg/kg dry	1.00	07/01/09 03:58	LMH	9F29058	6010B
Barium	**38.9**		0.542	NR	mg/kg dry	1.00	07/01/09 03:58	LMH	9F29058	6010B
Cadmium	**0.234**		0.217	NR	mg/kg dry	1.00	07/01/09 03:58	LMH	9F29058	6010B
Chromium	**7.08**		0.542	NR	mg/kg dry	1.00	07/01/09 03:58	LMH	9F29058	6010B
Lead	**26.3**		1.1	NR	mg/kg dry	1.00	07/01/09 03:58	LMH	9F29058	6010B
Mercury	**0.363**		0.0223	NR	mg/kg dry	1.00	07/08/09 15:09	MM	9G07089	7471A
Sample ID: RSF1074-08 (TP-4 (5-8) - Solid)						**Sampled: 06/24/09 11:27**		**Recvd: 06/26/09 09:15**		
General Chemistry Parameters										
Percent Solids	**83**		0.010	NR	%	1.00	06/29/09 09:13	JB	9F29018	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**6.1**		2.3	NR	mg/kg dry	1.00	07/01/09 04:03	LMH	9F29058	6010B
Barium	**35.7**		0.583	NR	mg/kg dry	1.00	07/01/09 04:03	LMH	9F29058	6010B
Chromium	**6.48**		0.583	NR	mg/kg dry	1.00	07/01/09 04:03	LMH	9F29058	6010B
Lead	**23.6**		1.2	NR	mg/kg dry	1.00	07/01/09 04:03	LMH	9F29058	6010B
Mercury	**0.592**		0.0236	NR	mg/kg dry	1.00	07/08/09 15:10	MM	9G07089	7471A

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
TP-2 (16-18)	RSF1074-01	Solid	06/24/09 09:40	06/26/09 09:15	
TP-10 (3-11)	RSF1074-02	Solid	06/24/09 15:00	06/26/09 09:15	
TP-9 (12-14)	RSF1074-03	Solid	06/24/09 14:26	06/26/09 09:15	
TP-12 (2.5-8.5)	RSF1074-04	Solid	06/24/09 16:12	06/26/09 09:15	
TP-6 (3-11)	RSF1074-05	Solid	06/24/09 12:39	06/26/09 09:15	
SB-2/MW-2 (16-20)	RSF1074-06	Solid	06/23/09 15:30	06/26/09 09:15	
TP-4 (4-10)	RSF1074-07	Solid	06/24/09 10:52	06/26/09 09:15	
TP-4 (5-8)	RSF1074-08	Solid	06/24/09 11:27	06/26/09 09:15	

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Sample ID: RSF1074-01 (TP-2 (16-18) - Solid) **Sampled: 06/24/09 09:40** **Recvd: 06/26/09 09:15**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
General Chemistry Parameters										
Percent Solids	**92**		0.010	NR	%	1.00	06/30/09 14:03	SRW	9F30019	Dry Weight
Semivolatile Organics by GC/MS										
Acenaphthene	ND	D02	1800	21	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Acenaphthylene	ND	D02	1800	15	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Anthracene	ND	D02	1800	47	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Benzo(a)anthracene	ND	D02	1800	31	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Benzo(a)pyrene	ND	D02	1800	44	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Benzo(b)fluoranthene	ND	D02	1800	35	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Benzo(ghi)perylene	ND	D02	1800	22	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Benzo(k)fluoranthene	ND	D02	1800	20	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Chrysene	**2000**	D02	1800	18	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Dibenzo(a,h)anthracene	ND	D02	1800	21	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Fluoranthene	**170**	D02,J	1800	26	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Fluorene	**76**	D02,J	1800	42	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Indeno(1,2,3-cd)pyrene	ND	D02	1800	50	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Naphthalene	ND	D02	1800	30	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Phenanthrene	ND	D02	1800	38	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Pyrene	ND	D02	1800	12	ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
2,4,6-Tribromophenol	*91 %*	*D02*	*Surr Limits: (39-146%)*				*07/06/09 18:54*	*MKP*	*9F29046*	*8270C*
2-Fluorobiphenyl	*94 %*	*D02*	*Surr Limits: (37-120%)*				*07/06/09 18:54*	*MKP*	*9F29046*	*8270C*
2-Fluorophenol	*65 %*	*D02*	*Surr Limits: (18-120%)*				*07/06/09 18:54*	*MKP*	*9F29046*	*8270C*
Nitrobenzene-d5	*71 %*	*D02*	*Surr Limits: (34-132%)*				*07/06/09 18:54*	*MKP*	*9F29046*	*8270C*
Phenol-d5	*71 %*	*D02*	*Surr Limits: (11-120%)*				*07/06/09 18:54*	*MKP*	*9F29046*	*8270C*
p-Terphenyl-d14	*80 %*	*D02*	*Surr Limits: (58-147%)*				*07/06/09 18:54*	*MKP*	*9F29046*	*8270C*
Semivolatile Organics TICs by GC/MS										
Unknown1 (none)	**2900**	B	Ret Time: 12.712		ug/kg dry	10.0	07/06/09 18:54	MKP	9F29046	8270C
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		5.1	0.37	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
1,1,2,2-Tetrachloroethane	ND		5.1	0.83	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
1,1,2-Trichloroethane	ND		5.1	0.26	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.1	0.54	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
1,1-Dichloroethane	ND		5.1	0.25	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
1,1-Dichloroethene	ND		5.1	0.63	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
1,2,4-Trichlorobenzene	ND		5.1	0.31	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
1,2,4-Trimethylbenzene	ND		5.1	0.37	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
1,2-Dibromo-3-chloropropane	ND		5.1	1.0	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
1,2-Dibromoethane	ND		5.1	0.19	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
1,2-Dichlorobenzene	ND		5.1	0.77	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
1,2-Dichloroethane	ND		5.1	0.26	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
1,2-Dichloropropane	ND		5.1	0.26	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
1,3,5-Trimethylbenzene	ND		5.1	0.33	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
1,3-Dichlorobenzene	ND		5.1	0.72	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
1,4-Dichlorobenzene	ND		5.1	0.72	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
2-Butanone	ND		26	7.0	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
2-Hexanone	ND		26	1.8	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
p-Cymene	ND		5.1	0.41	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B

Benchmark Environmental & Engineering Science
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Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Sample ID: RSF1074-01 (TP-2 (16-18) - Solid) - cont. **Sampled: 06/24/09 09:40** **Recvd: 06/26/09 09:15**

Volatile Organic Compounds by EPA 8260B - cont.

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
4-Methyl-2-pentanone	ND		26	1.7	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Acetone	ND		26	1.1	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Benzene	ND		5.1	0.25	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Bromodichloromethane	ND		5.1	0.26	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Bromoform	ND		5.1	0.47	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Bromomethane	ND		5.1	0.47	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Carbon disulfide	ND		5.1	0.44	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Carbon Tetrachloride	ND		5.1	0.19	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Chlorobenzene	ND		5.1	0.22	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Dibromochloromethane	ND		5.1	0.28	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Chloroethane	ND		5.1	0.83	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Chloroform	ND		5.1	0.32	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Chloromethane	ND		5.1	0.31	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
cis-1,2-Dichloroethene	ND		5.1	0.25	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
cis-1,3-Dichloropropene	ND		5.1	0.29	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Cyclohexane	ND		5.1	0.24	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Dichlorodifluoromethane	ND		5.1	0.42	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Ethylbenzene	ND		5.1	0.35	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Isopropylbenzene	ND		5.1	0.34	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Methyl Acetate	ND		5.1	0.28	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Methyl-t-Butyl Ether (MTBE)	ND		5.1	0.50	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Methylcyclohexane	ND		5.1	0.33	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Methylene Chloride	ND		5.1	0.36	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
m-Xylene & p-Xylene	ND		10	0.86	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Naphthalene	ND		5.1	0.70	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
n-Butylbenzene	ND		5.1	0.45	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
n-Propylbenzene	ND		5.1	0.39	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
o-Xylene	ND		5.1	0.26	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
sec-Butylbenzene	**2.4**	J	5.1	0.45	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Styrene	ND		5.1	0.26	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Tetrachloroethene	ND		5.1	0.69	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Toluene	ND		5.1	0.87	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
trans-1,2-Dichloroethene	ND		5.1	0.53	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
trans-1,3-Dichloropropene	ND		5.1	0.25	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Trichloroethene	ND		5.1	0.35	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Trichlorofluoromethane	ND		5.1	1.6	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Vinyl chloride	ND		10	0.21	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Xylenes, total	ND		10	0.86	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
1,2-Dichloroethane-d4	*97 %*		*Surr Limits: (64-126%)*				*06/30/09 01:38*	*CDC*	*9F29090*	*8260B*
4-Bromofluorobenzene	*104 %*		*Surr Limits: (72-126%)*				*06/30/09 01:38*	*CDC*	*9F29090*	*8260B*
Toluene-d8	*114 %*		*Surr Limits: (71-125%)*				*06/30/09 01:38*	*CDC*	*9F29090*	*8260B*

Tentatively Identified Compounds by EPA 8260B

1-Ethyl-4-methylcyclohexane (003728-56-1)	**40**	Ret Time: 7.551	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Nonane, 2,6-dimethyl- (017302-28-2)	**45**	Ret Time: 8.975	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
trans-Decalin, 2-methyl- (1000152-47-3)	**70**	Ret Time: 10.374	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Unknown01 (none)	**49**	Ret Time: 8.342	ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B

Benchmark Environmental & Engineering Science
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Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-01 (TP-2 (16-18) - Solid) - cont.						**Sampled: 06/24/09 09:40**		**Recvd: 06/26/09 09:15**		
Tentatively Identified Compounds by EPA 8260B - cont.										
Unknown02 (none)	**59**		Ret Time: 10.094		ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Unknown03 (none)	**39**		Ret Time: 10.216		ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Unknown04 (none)	**60**		Ret Time: 10.459		ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Unknown05 (none)	**64**		Ret Time: 9.77		ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Unknown06 (none)	**56**		Ret Time: 10.56		ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B
Unknown07 (none)	**59**		Ret Time: 10.09		ug/kg dry	1.00	06/30/09 01:38	CDC	9F29090	8260B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-02 (TP-10 (3-11) - Solid)							**Sampled: 06/24/09 15:00**		**Recvd: 06/26/09 09:15**	
General Chemistry Parameters										
Percent Solids	**97**		0.010	NR	%	1.00	06/30/09 14:03	SRW	9F30019	Dry Weight
Semivolatile Organics by GC/MS										
Acenaphthene	ND	D02	1700	20	ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Acenaphthylene	ND	D02	1700	14	ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Anthracene	ND	D02	1700	44	ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Benzo(a)anthracene	ND	D02	1700	30	ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Benzo(a)pyrene	ND	D02	1700	41	ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Benzo(b)fluoranthene	ND	D02	1700	33	ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Benzo(ghi)perylene	ND	D02	1700	21	ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Benzo(k)fluoranthene	ND	D02	1700	19	ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Chrysene	ND	D02	1700	17	ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Dibenzo(a,h)anthracene	ND	D02	1700	20	ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Fluoranthene	ND	D02	1700	25	ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Fluorene	ND	D02	1700	39	ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Indeno(1,2,3-cd)pyrene	ND	D02	1700	47	ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Naphthalene	ND	D02	1700	28	ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Phenanthrene	ND	D02	1700	36	ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Pyrene	ND	D02	1700	11	ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
2,4,6-Tribromophenol	*111 %*	*D02*	*Surr Limits: (39-146%)*				*07/06/09 19:19*	*MKP*	*9F29046*	*8270C*
2-Fluorobiphenyl	*91 %*	*D02*	*Surr Limits: (37-120%)*				*07/06/09 19:19*	*MKP*	*9F29046*	*8270C*
2-Fluorophenol	*68 %*	*D02*	*Surr Limits: (18-120%)*				*07/06/09 19:19*	*MKP*	*9F29046*	*8270C*
Nitrobenzene-d5	*84 %*	*D02*	*Surr Limits: (34-132%)*				*07/06/09 19:19*	*MKP*	*9F29046*	*8270C*
Phenol-d5	*71 %*	*D02*	*Surr Limits: (11-120%)*				*07/06/09 19:19*	*MKP*	*9F29046*	*8270C*
p-Terphenyl-d14	*81 %*	*D02*	*Surr Limits: (58-147%)*				*07/06/09 19:19*	*MKP*	*9F29046*	*8270C*
Semivolatile Organics TICs by GC/MS										
Cyclohexane, octyl- (001795-15-9)	**3800**		Ret Time: 9.795		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Heptylcyclohexane (005617-41-4)	**5700**		Ret Time: 9.063		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Hexadecane, 2,6,10,14-tetramethyl- (000638-36-8)	**4400**		Ret Time: 11.702		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Naphthalene, 1,2,3,4-tetrahydro-1,4-dimethyl- (004175-54-6)	**5200**		Ret Time: 8.935		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Naphthalene, decahydro- (000091-17-8)	**2600**		Ret Time: 6.707		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Pentadecane, 2,6,10,14-tetramethyl- (001921-70-6)	**6900**		Ret Time: 11.216		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Tridecane, 7-methyl- (026730-14-3)	**11000**		Ret Time: 8.459		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Undecane, 3,6-dimethyl- (017301-28-9)	**3900**		Ret Time: 7.989		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Unknown1 (none)	**4500**	B	Ret Time: 7.252		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Unknown10 (none)	**3300**		Ret Time: 10.457		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Unknown11 (none)	**6000**		Ret Time: 10.922		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Unknown12 (none)	**2800**		Ret Time: 9.49		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Unknown2 (none)	**5100**		Ret Time: 7.396		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Unknown3 (none)	**5400**		Ret Time: 7.925		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C

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Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-02 (TP-10 (3-11) - Solid) - cont.							**Sampled: 06/24/09 15:00**		**Recvd: 06/26/09 09:15**	
Semivolatile Organics TICs by GC/MS - cont.										
Unknown4 (none)	**2900**		Ret Time: 8.117		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Unknown5 (none)	**3600**		Ret Time: 8.267		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Unknown6 (none)	**3700**		Ret Time: 9.41		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Unknown7 (none)	**2900**		Ret Time: 9.661		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Unknown8 (none)	**2800**		Ret Time: 9.752		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Unknown9 (none)	**2600**		Ret Time: 10.393		ug/kg dry	10.0	07/06/09 19:19	MKP	9F29046	8270C
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		100	7.5	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
1,1,2,2-Tetrachloroethane	ND		100	17	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
1,1,2-Trichloroethane	ND		100	5.2	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	11	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
1,1-Dichloroethane	ND		100	12	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
1,1-Dichloroethene	ND		100	13	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
1,2,4-Trichlorobenzene	**140**		100	6.3	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
1,2,4-Trimethylbenzene	ND		100	7.5	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
1,2-Dibromo-3-chloropropane	ND		100	21	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
1,2-Dibromoethane	ND		100	3.9	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
1,2-Dichlorobenzene	ND		100	16	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
1,2-Dichloroethane	ND		100	5.2	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
1,2-Dichloropropane	ND		100	5.3	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
1,3,5-Trimethylbenzene	ND		100	6.7	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
1,3-Dichlorobenzene	ND		100	15	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
1,4-Dichlorobenzene	ND		100	14	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
2-Butanone	**180**	J, B	520	140	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
2-Hexanone	ND		520	130	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
p-Cymene	ND		100	8.3	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
4-Methyl-2-pentanone	ND		520	160	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Acetone	ND		520	23	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Benzene	ND		100	11	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Bromodichloromethane	ND		100	5.3	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Bromoform	ND		100	8.7	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Bromomethane	ND		100	9.5	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Carbon disulfide	ND		100	8.8	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Carbon Tetrachloride	ND		100	14	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Chlorobenzene	ND		100	11	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Dibromochloromethane	ND		100	5.7	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Chloroethane	ND		100	17	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Chloroform	ND		100	6.4	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Chloromethane	ND		100	6.2	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
cis-1,2-Dichloroethene	ND		100	5.1	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
cis-1,3-Dichloropropene	ND		100	5.9	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Cyclohexane	ND		100	4.8	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Dichlorodifluoromethane	ND		100	8.6	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Ethylbenzene	ND		100	7.1	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Isopropylbenzene	ND		100	6.8	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Methyl Acetate	ND		100	26	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-02 (TP-10 (3-11) - Solid) - cont.							**Sampled: 06/24/09 15:00**		**Recvd: 06/26/09 09:15**	
Volatile Organic Compounds by EPA 8260B - cont.										
Methyl-t-Butyl Ether (MTBE)	ND		100	10	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Methylcyclohexane	ND		100	6.7	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Methylene Chloride	ND		100	45	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
m-Xylene & p-Xylene	ND		210	8.9	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Naphthalene	**200**		100	14	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
n-Butylbenzene	ND		100	9.0	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
n-Propylbenzene	ND		100	7.9	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
o-Xylene	ND		100	5.2	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
sec-Butylbenzene	**94**	J	100	9.0	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Styrene	ND		100	5.2	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Tetrachloroethene	ND		100	14	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Toluene	ND		100	18	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
trans-1,2-Dichloroethene	ND		100	11	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
trans-1,3-Dichloropropene	ND		100	13	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Trichloroethene	ND		100	32	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Trichlorofluoromethane	ND		100	32	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Vinyl chloride	ND		210	4.2	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Xylenes, total	ND		210	8.9	ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
1,2-Dichloroethane-d4	*127 %*		*Surr Limits: (10-190%)*				*07/01/09 07:51*	*NMD*	*9F30049*	*8260B*
4-Bromofluorobenzene	*102 %*		*Surr Limits: (10-190%)*				*07/01/09 07:51*	*NMD*	*9F30049*	*8260B*
Toluene-d8	*93 %*		*Surr Limits: (10-190%)*				*07/01/09 07:51*	*NMD*	*9F30049*	*8260B*
Tentatively Identified Compounds by EPA 8260B										
Cyclohexane, pentyl- (004292-92-6)	**8800**		Ret Time: 11.67		ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Napthalene derivative (NA)	**8400**		Ret Time: 11.79		ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Unknown01 (none)	**12000**		Ret Time: 9.25		ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Unknown02 (none)	**17000**		Ret Time: 9.415		ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Unknown03 (none)	**9400**		Ret Time: 9.683		ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Unknown04 (none)	**7700**		Ret Time: 11.134		ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Unknown05 (none)	**9700**		Ret Time: 11.189		ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Unknown06 (none)	**15000**		Ret Time: 11.305		ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Unknown07 (none)	**13000**		Ret Time: 11.02		ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B
Unknown08 (none)	**9700**		Ret Time: 11.6		ug/kg dry	1.00	07/01/09 07:51	NMD	9F30049	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-03 (TP-9 (12-14) - Solid)						**Sampled: 06/24/09 14:26**		**Recvd: 06/26/09 09:15**		
General Chemistry Parameters										
Percent Solids	**96**		0.010	NR	%	1.00	06/30/09 14:03	SRW	9F30019	Dry Weight
Semivolatile Organics by GC/MS										
Acenaphthene	ND	D02	340	4.0	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Acenaphthylene	ND	D02	340	2.8	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Anthracene	ND	D02	340	8.7	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Benzo(a)anthracene	ND	D02	340	5.9	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Benzo(a)pyrene	ND	D02	340	8.2	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Benzo(b)fluoranthene	ND	D02	340	6.6	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Benzo(ghi)perylene	ND	D02	340	4.1	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Benzo(k)fluoranthene	ND	D02	340	3.8	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Chrysene	ND	D02	340	3.4	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Dibenzo(a,h)anthracene	ND	D02	340	4.0	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Fluoranthene	ND	D02	340	5.0	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Fluorene	**310**	D02,J	340	7.9	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Indeno(1,2,3-cd)pyrene	ND	D02	340	9.5	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Naphthalene	ND	D02	340	5.7	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Phenanthrene	**640**	D02	340	7.2	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Pyrene	ND	D02	340	2.2	ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
2,4,6-Tribromophenol	*94 %*	*D02*	*Surr Limits: (39-146%)*				*07/06/09 19:44*	*MKP*	*9F29046*	*8270C*
2-Fluorobiphenyl	*76 %*	*D02*	*Surr Limits: (37-120%)*				*07/06/09 19:44*	*MKP*	*9F29046*	*8270C*
2-Fluorophenol	*69 %*	*D02*	*Surr Limits: (18-120%)*				*07/06/09 19:44*	*MKP*	*9F29046*	*8270C*
Nitrobenzene-d5	*73 %*	*D02*	*Surr Limits: (34-132%)*				*07/06/09 19:44*	*MKP*	*9F29046*	*8270C*
Phenol-d5	*73 %*	*D02*	*Surr Limits: (11-120%)*				*07/06/09 19:44*	*MKP*	*9F29046*	*8270C*
p-Terphenyl-d14	*77 %*	*D02*	*Surr Limits: (58-147%)*				*07/06/09 19:44*	*MKP*	*9F29046*	*8270C*
Semivolatile Organics TICs by GC/MS										
3-Methyl-4-(methoxycarbonyl)hexa-2,4-dienoic a (1000104-10-8)	**1000**		Ret Time: 12.754		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Azulene, 4,6,8-trimethyl- (000941-81-1)	**1900**		Ret Time: 10.415		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Cyclohexane, octyl- (001795-15-9)	**3700**		Ret Time: 9.806		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Cyclohexane, undecyl- (054105-66-7)	**1600**		Ret Time: 10.463		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Naphthalene, 1,2,3,4-tetrahydro-1,4-dimethyl- (004175-54-6)	**3700**		Ret Time: 8.935		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Tridecane, 7-methyl- (026730-14-3)	**4600**		Ret Time: 8.465		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Unknown1 (none)	**1200**	B	Ret Time: 8.123		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Unknown10 (none)	**1300**		Ret Time: 10.933		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Unknown11 (none)	**1000**		Ret Time: 10.51		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Unknown12 (none)	**16000**		Ret Time: 11.23		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
UNKNOWN13 (none)	**10000**		Ret Time: 11.72		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Unknown14 (none)	**3000**		Ret Time: 12.07		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Unknown2 (none)	**1200**		Ret Time: 8.662		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Unknown3 (none)	**1000**		Ret Time: 8.684		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Unknown4 (none)	**1100**		Ret Time: 9.416		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Sample ID: RSF1074-03 (TP-9 (12-14) - Solid) - cont. **Sampled: 06/24/09 14:26** **Recvd: 06/26/09 09:15**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Semivolatile Organics TICs by GC/MS - cont.										
Unknown5 (none)	**1300**		Ret Time: 9.656		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Unknown6 (none)	**1300**		Ret Time: 9.72		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Unknown7 (none)	**1100**		Ret Time: 9.757		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Unknown8 (none)	**1200**		Ret Time: 9.848		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Unknown9 (none)	**1700**		Ret Time: 10.35		ug/kg dry	2.00	07/06/09 19:44	MKP	9F29046	8270C
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		24	1.7	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
1,1,2,2-Tetrachloroethane	ND		24	3.9	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
1,1,2-Trichloroethane	ND		24	1.2	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		24	2.5	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
1,1-Dichloroethane	ND		24	1.2	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
1,1-Dichloroethene	ND		24	2.9	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
1,2,4-Trichlorobenzene	ND		24	1.5	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
1,2,4-Trimethylbenzene	ND		24	1.7	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
1,2-Dibromo-3-chloropropane	ND		24	4.8	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
1,2-Dibromoethane	ND		24	0.91	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
1,2-Dichlorobenzene	ND		24	3.6	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
1,2-Dichloroethane	ND		24	1.2	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
1,2-Dichloropropane	ND		24	1.2	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
1,3,5-Trimethylbenzene	ND		24	1.5	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
1,3-Dichlorobenzene	ND		24	3.4	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
1,4-Dichlorobenzene	ND		24	3.4	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
2-Butanone	ND		120	33	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
2-Hexanone	ND		120	8.3	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
p-Cymene	ND		24	1.9	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
4-Methyl-2-pentanone	ND		120	7.9	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Acetone	ND		120	5.3	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Benzene	ND		24	1.2	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Bromodichloromethane	ND		24	1.2	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Bromoform	ND		24	2.2	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Bromomethane	ND		24	2.2	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Carbon disulfide	ND		24	2.1	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Carbon Tetrachloride	ND		24	0.87	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Chlorobenzene	ND		24	1.0	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Dibromochloromethane	ND		24	1.3	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Chloroethane	ND		24	3.9	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Chloroform	ND		24	1.5	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Chloromethane	ND		24	1.4	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
cis-1,2-Dichloroethene	ND		24	1.2	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
cis-1,3-Dichloropropene	ND		24	1.4	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Cyclohexane	ND		24	1.1	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Dichlorodifluoromethane	ND		24	2.0	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Ethylbenzene	ND		24	1.7	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Isopropylbenzene	ND		24	1.6	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Methyl Acetate	ND		24	1.3	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Methyl-t-Butyl Ether (MTBE)	ND		24	2.4	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Methylcyclohexane	ND		24	1.6	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-03 (TP-9 (12-14) - Solid) - cont.						**Sampled: 06/24/09 14:26**		**Recvd: 06/26/09 09:15**		
Volatile Organic Compounds by EPA 8260B - cont.										
Methylene Chloride	ND		24	1.7	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
m-Xylene & p-Xylene	ND		48	4.0	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Naphthalene	ND		24	3.3	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
n-Butylbenzene	ND		24	2.1	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
n-Propylbenzene	ND		24	1.8	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
o-Xylene	ND		24	1.2	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
sec-Butylbenzene	**7.4**	J	24	2.1	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Styrene	ND		24	1.2	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Tetrachloroethene	ND		24	3.2	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Toluene	ND		24	4.1	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
trans-1,2-Dichloroethene	ND		24	2.5	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
trans-1,3-Dichloropropene	ND		24	1.2	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Trichloroethene	ND		24	1.7	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Trichlorofluoromethane	ND		24	7.5	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Vinyl chloride	ND		48	0.98	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Xylenes, total	ND		48	4.0	ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
1,2-Dichloroethane-d4	*89 %*		*Surr Limits: (64-126%)*				*06/30/09 02:28*	*CDC*	*9F29090*	*8260B*
4-Bromofluorobenzene	*95 %*		*Surr Limits: (72-126%)*				*06/30/09 02:28*	*CDC*	*9F29090*	*8260B*
Toluene-d8	*102 %*		*Surr Limits: (71-125%)*				*06/30/09 02:28*	*CDC*	*9F29090*	*8260B*
Tentatively Identified Compounds by EPA 8260B										
1-Ethyl-4-methylcyclohexane (003728-56-1)	**1100**		Ret Time: 7.557		ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Cyclohexane, 1,1,2,3-tetramethyl- (006783-92-2)	**740**		Ret Time: 8.348		ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
trans-Decalin, 2-methyl- (1000152-47-3)	**920**		Ret Time: 10.38		ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Unknown01 (none)	**960**		Ret Time: 7.904		ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Unknown02 (none)	**1100**		Ret Time: 8.062		ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Unknown03 (none)	**610**		Ret Time: 9.967		ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Unknown04 (none)	**600**		Ret Time: 10.569		ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Unknown05 (none)	**780**		Ret Time: 10.91		ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Unknown06 (none)	**640**		Ret Time: 9.78		ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B
Unknown07 (none)	**1000**		Ret Time: 11.04		ug/kg dry	1.00	06/30/09 02:28	CDC	9F29090	8260B

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-04 (TP-12 (2.5-8.5) - Solid)						**Sampled: 06/24/09 16:12**		**Recvd: 06/26/09 09:15**		
General Chemistry Parameters										
Percent Solids	**95**		0.010	NR	%	1.00	06/30/09 14:03	SRW	9F30019	Dry Weight
Semivolatile Organics by GC/MS										
Acenaphthene	ND	D02	870	10	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Acenaphthylene	ND	D02	870	7.1	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Anthracene	ND	D02	870	22	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Benzo(a)anthracene	**160**	D02,J	870	15	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Benzo(a)pyrene	ND	D02	870	21	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Benzo(b)fluoranthene	ND	D02	870	17	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Benzo(ghi)perylene	**100**	D02,J	870	10	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Benzo(k)fluoranthene	ND	D02	870	9.5	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Chrysene	**430**	D02,J	870	8.6	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Dibenzo(a,h)anthracene	ND	D02	870	10	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Fluoranthene	**92**	D02,J	870	13	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Fluorene	**170**	D02,J	870	20	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Indeno(1,2,3-cd)pyrene	**60**	D02,J	870	24	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Naphthalene	ND	D02	870	14	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Phenanthrene	**520**	D02,J	870	18	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Pyrene	**200**	D02,J	870	5.6	ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
2,4,6-Tribromophenol	*96 %*	*D02*	*Surr Limits: (39-146%)*				*07/06/09 20:09*	*MKP*	*9F29046*	*8270C*
2-Fluorobiphenyl	*77 %*	*D02*	*Surr Limits: (37-120%)*				*07/06/09 20:09*	*MKP*	*9F29046*	*8270C*
2-Fluorophenol	*66 %*	*D02*	*Surr Limits: (18-120%)*				*07/06/09 20:09*	*MKP*	*9F29046*	*8270C*
Nitrobenzene-d5	*84 %*	*D02*	*Surr Limits: (34-132%)*				*07/06/09 20:09*	*MKP*	*9F29046*	*8270C*
Phenol-d5	*71 %*	*D02*	*Surr Limits: (11-120%)*				*07/06/09 20:09*	*MKP*	*9F29046*	*8270C*
p-Terphenyl-d14	*72 %*	*D02*	*Surr Limits: (58-147%)*				*07/06/09 20:09*	*MKP*	*9F29046*	*8270C*
Semivolatile Organics TICs by GC/MS										
Dodecane (112-40-3)	**5400**		Ret Time: 11.445		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Pentadecane, 2,6,10,14-tetramethyl- (001921-70-6)	**35000**		Ret Time: 11.221		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Undecane, 2,6-dimethyl- (017301-23-4)	**4200**		Ret Time: 7.989		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Unknown1 (none)	**3100**	B	Ret Time: 5.478		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Unknown10 (none)	**11000**		Ret Time: 9.816		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Unknown11 (none)	**4700**		Ret Time: 10.457		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Unknown12 (none)	**2900**		Ret Time: 12.471		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
UNKNOWN13 (none)	**3100**		Ret Time: 8.27		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Unknown14 (none)	**12000**		Ret Time: 10.93		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Unknown15 (none)	**24000**		Ret Time: 11.71		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Unknown16 (none)	**9300**		Ret Time: 12.06		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Unknown17 (none)	**7300**		Ret Time: 12.76		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Unknown2 (none)	**2500**		Ret Time: 6.29		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Unknown3 (none)	**3800**		Ret Time: 6.402		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Unknown4 (none)	**3600**		Ret Time: 7.252		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Unknown5 (none)	**4000**		Ret Time: 7.391		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Unknown6 (none)	**8800**		Ret Time: 8.459		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Unknown7 (none)	**2800**		Ret Time: 8.935		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Sample ID: RSF1074-04 (TP-12 (2.5-8.5) - Solid) - cont. **Sampled: 06/24/09 16:12** **Recvd: 06/26/09 09:15**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Semivolatile Organics TICs by GC/MS - cont.										
Unknown8 (none)	**2800**		Ret Time: 9.063		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Unknown9 (none)	**2600**		Ret Time: 9.415		ug/kg dry	5.00	07/06/09 20:09	MKP	9F29046	8270C
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		5.1	0.37	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
1,1,2,2-Tetrachloroethane	ND		5.1	0.83	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
1,1,2-Trichloroethane	ND		5.1	0.26	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.1	0.54	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
1,1-Dichloroethane	ND		5.1	0.25	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
1,1-Dichloroethene	ND		5.1	0.62	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
1,2,4-Trichlorobenzene	ND		5.1	0.31	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
1,2,4-Trimethylbenzene	ND		5.1	0.37	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
1,2-Dibromo-3-chloropropane	ND		5.1	1.0	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
1,2-Dibromoethane	ND		5.1	0.19	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
1,2-Dichlorobenzene	ND		5.1	0.77	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
1,2-Dichloroethane	ND		5.1	0.26	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
1,2-Dichloropropane	ND		5.1	0.26	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
1,3,5-Trimethylbenzene	ND		5.1	0.33	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
1,3-Dichlorobenzene	ND		5.1	0.72	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
1,4-Dichlorobenzene	ND		5.1	0.71	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
2-Butanone	ND		25	6.9	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
2-Hexanone	ND		25	1.8	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
p-Cymene	**42**		5.1	0.41	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
4-Methyl-2-pentanone	ND		25	1.7	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Acetone	**7.3**	J	25	1.1	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Benzene	ND		5.1	0.25	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Bromodichloromethane	ND		5.1	0.26	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Bromoform	ND		5.1	0.47	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Bromomethane	ND		5.1	0.47	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Carbon disulfide	ND		5.1	0.44	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Carbon Tetrachloride	ND		5.1	0.18	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Chlorobenzene	ND		5.1	0.22	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Dibromochloromethane	ND		5.1	0.28	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Chloroethane	ND		5.1	0.82	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Chloroform	ND		5.1	0.32	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Chloromethane	ND		5.1	0.31	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
cis-1,2-Dichloroethene	ND		5.1	0.25	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
cis-1,3-Dichloropropene	ND		5.1	0.29	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Cyclohexane	ND		5.1	0.23	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Dichlorodifluoromethane	ND		5.1	0.42	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Ethylbenzene	ND		5.1	0.35	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Isopropylbenzene	ND		5.1	0.33	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Methyl Acetate	ND		5.1	0.28	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Methyl-t-Butyl Ether (MTBE)	ND		5.1	0.50	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Methylcyclohexane	ND		5.1	0.33	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Methylene Chloride	ND		5.1	0.36	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
m-Xylene & p-Xylene	ND		10	0.86	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Naphthalene	ND		5.1	0.69	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-04 (TP-12 (2.5-8.5) - Solid) - cont.							**Sampled: 06/24/09 16:12**		**Recvd: 06/26/09 09:15**	
Volatile Organic Compounds by EPA 8260B - cont.										
n-Butylbenzene	**31**		5.1	0.44	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
n-Propylbenzene	ND		5.1	0.39	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
o-Xylene	ND		5.1	0.25	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
sec-Butylbenzene	**22**		5.1	0.44	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Styrene	ND		5.1	0.25	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Tetrachloroethene	ND		5.1	0.68	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Toluene	**1.2**	J	5.1	0.86	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
trans-1,2-Dichloroethene	ND		5.1	0.53	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
trans-1,3-Dichloropropene	ND		5.1	0.25	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Trichloroethene	ND		5.1	0.35	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Trichlorofluoromethane	ND		5.1	1.6	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Vinyl chloride	ND		10	0.21	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Xylenes, total	ND		10	0.86	ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
1,2-Dichloroethane-d4	*90 %*		*Surr Limits: (64-126%)*				*06/30/09 02:53*	*CDC*	*9F29090*	*8260B*
4-Bromofluorobenzene	*96 %*		*Surr Limits: (72-126%)*				*06/30/09 02:53*	*CDC*	*9F29090*	*8260B*
Toluene-d8	*121 %*		*Surr Limits: (71-125%)*				*06/30/09 02:53*	*CDC*	*9F29090*	*8260B*
Tentatively Identified Compounds by EPA 8260B										
Cyclohexane,1,2,4-trimethyl-, (007667-60-9)	**620**		Ret Time: 6.718		ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Heptane, 2,5-dimethyl- (002216-30-0)	**340**		Ret Time: 6.316		ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Unknown (none)	**320**		Ret Time: 8.36		ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Unknown01 (none)	**280**		Ret Time: 6.395		ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Unknown02 (none)	**520**		Ret Time: 6.505		ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Unknown03 (none)	**320**		Ret Time: 7.46		ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Unknown04 (none)	**920**		Ret Time: 7.533		ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Unknown05 (none)	**310**		Ret Time: 7.995		ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Unknown06 (none)	**1100**		Ret Time: 8.087		ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B
Unknown07 (none)	**860**		Ret Time: 7.25		ug/kg dry	1.00	06/30/09 02:53	CDC	9F29090	8260B

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-05 (TP-6 (3-11) - Solid)						**Sampled: 06/24/09 12:39**		**Recvd: 06/26/09 09:15**		
General Chemistry Parameters										
Percent Solids	**90**		0.010	NR	%	1.00	06/30/09 14:03	SRW	9F30019	Dry Weight
Semivolatile Organics by GC/MS										
Acenaphthene	ND	D02	920	11	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Acenaphthylene	ND	D02	920	7.5	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Anthracene	ND	D02	920	23	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Benzo(a)anthracene	**68**	D02,J	920	16	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Benzo(a)pyrene	ND	D02	920	22	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Benzo(b)fluoranthene	ND	D02	920	18	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Benzo(ghi)perylene	ND	D02	920	11	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Benzo(k)fluoranthene	ND	D02	920	10	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Chrysene	**140**	D02,J	920	9.1	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Dibenzo(a,h)anthracene	ND	D02	920	11	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Fluoranthene	ND	D02	920	13	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Fluorene	ND	D02	920	21	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Indeno(1,2,3-cd)pyrene	ND	D02	920	25	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Naphthalene	ND	D02	920	15	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Phenanthrene	**650**	D02,J	920	19	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Pyrene	ND	D02	920	5.9	ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
2,4,6-Tribromophenol	*105 %*	*D02*	*Surr Limits: (39-146%)*				*07/06/09 20:33*	*MKP*	*9F29046*	*8270C*
2-Fluorobiphenyl	*83 %*	*D02*	*Surr Limits: (37-120%)*				*07/06/09 20:33*	*MKP*	*9F29046*	*8270C*
2-Fluorophenol	*72 %*	*D02*	*Surr Limits: (18-120%)*				*07/06/09 20:33*	*MKP*	*9F29046*	*8270C*
Nitrobenzene-d5	*80 %*	*D02*	*Surr Limits: (34-132%)*				*07/06/09 20:33*	*MKP*	*9F29046*	*8270C*
Phenol-d5	*76 %*	*D02*	*Surr Limits: (11-120%)*				*07/06/09 20:33*	*MKP*	*9F29046*	*8270C*
p-Terphenyl-d14	*86 %*	*D02*	*Surr Limits: (58-147%)*				*07/06/09 20:33*	*MKP*	*9F29046*	*8270C*
Semivolatile Organics TICs by GC/MS										
Heptadecane, 3-methyl- (006418-44-6)	**9300**		Ret Time: 12.76		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Tetradecane, 2,6,10-trimethyl- (014905-56-7)	**5400**		Ret Time: 10.398		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Unknown1 (none)	**4000**	B	Ret Time: 5.248		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Unknown10 (none)	**10000**		Ret Time: 11.451		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Unknown11 (none)	**6700**		Ret Time: 11.558		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Unknown12 (none)	**7200**		Ret Time: 11.648		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
UNKNOWN13 (none)	**7000**		Ret Time: 7.99		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Unknown14 (none)	**4200**		Ret Time: 10.61		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Unknown15 (none)	**20000**		Ret Time: 10.93		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Unknown16 (none)	**95000**		Ret Time: 11.23		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Unknown17 (none)	**61000**		Ret Time: 11.72		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Unknown18 (NA)	**19000**		Ret Time: 12.07		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Unknown2 (none)	**3800**		Ret Time: 8.267		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Unknown3 (none)	**15000**		Ret Time: 8.464		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Unknown4 (none)	**5800**		Ret Time: 8.801		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Unknown5 (none)	**4600**		Ret Time: 9.421		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Unknown6 (none)	**17000**		Ret Time: 9.821		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Unknown7 (none)	**7800**		Ret Time: 10.468		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Sample ID: RSF1074-05 (TP-6 (3-11) - Solid) - cont. **Sampled: 06/24/09 12:39** **Recvd: 06/26/09 09:15**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Semivolatile Organics TICs by GC/MS - cont.										
Unknown8 (none)	**5400**		Ret Time: 10.724		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Unknown9 (none)	**11000**		Ret Time: 11.419		ug/kg dry	5.00	07/06/09 20:33	MKP	9F29046	8270C
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		5.2	0.38	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
1,1,2,2-Tetrachloroethane	ND		5.2	0.84	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
1,1,2-Trichloroethane	ND		5.2	0.26	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.2	0.55	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
1,1-Dichloroethane	ND		5.2	0.26	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
1,1-Dichloroethene	ND		5.2	0.64	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
1,2,4-Trichlorobenzene	ND		5.2	0.32	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
1,2,4-Trimethylbenzene	ND		5.2	0.38	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
1,2-Dibromo-3-chloropropane	ND		5.2	1.0	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
1,2-Dibromoethane	ND		5.2	0.20	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
1,2-Dichlorobenzene	ND		5.2	0.78	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
1,2-Dichloroethane	ND		5.2	0.26	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
1,2-Dichloropropane	ND		5.2	0.27	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
1,3,5-Trimethylbenzene	ND		5.2	0.33	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
1,3-Dichlorobenzene	ND		5.2	0.74	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
1,4-Dichlorobenzene	ND		5.2	0.73	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
2-Butanone	ND		26	7.1	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
2-Hexanone	ND		26	1.8	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
p-Cymene	ND		5.2	0.42	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
4-Methyl-2-pentanone	ND		26	1.7	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Acetone	**79**		26	1.1	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Benzene	ND		5.2	0.25	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Bromodichloromethane	ND		5.2	0.27	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Bromoform	ND		5.2	0.48	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Bromomethane	ND		5.2	0.48	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Carbon disulfide	**2.4**	J	5.2	0.45	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Carbon Tetrachloride	ND		5.2	0.19	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Chlorobenzene	ND		5.2	0.23	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Dibromochloromethane	ND		5.2	0.29	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Chloroethane	ND		5.2	0.84	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Chloroform	ND		5.2	0.32	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Chloromethane	ND		5.2	0.31	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
cis-1,2-Dichloroethene	ND		5.2	0.26	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
cis-1,3-Dichloropropene	ND		5.2	0.30	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Cyclohexane	ND		5.2	0.24	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Dichlorodifluoromethane	ND		5.2	0.43	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Ethylbenzene	ND		5.2	0.36	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Isopropylbenzene	**14**		5.2	0.34	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Methyl Acetate	ND		5.2	0.28	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Methyl-t-Butyl Ether (MTBE)	ND		5.2	0.51	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Methylcyclohexane	**3100**	E	5.2	0.34	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Methylene Chloride	ND		5.2	0.36	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
m-Xylene & p-Xylene	ND		10	0.87	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Naphthalene	ND		5.2	0.71	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Sample ID: RSF1074-05 (TP-6 (3-11) - Solid) - cont. **Sampled: 06/24/09 12:39** **Recvd: 06/26/09 09:15**

Volatile Organic Compounds by EPA 8260B - cont.

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
n-Butylbenzene	**36**		5.2	0.45	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
n-Propylbenzene	**5.6**		5.2	0.40	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
o-Xylene	ND		5.2	0.26	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
sec-Butylbenzene	**37**		5.2	0.45	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Styrene	ND		5.2	0.26	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Tetrachloroethene	ND		5.2	0.70	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Toluene	ND		5.2	0.88	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
trans-1,2-Dichloroethene	ND		5.2	0.54	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
trans-1,3-Dichloropropene	ND		5.2	0.25	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Trichloroethene	ND		5.2	0.36	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Trichlorofluoromethane	ND		5.2	1.6	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Vinyl chloride	ND		10	0.21	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Xylenes, total	ND		10	0.87	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
1,2-Dichloroethane-d4	*95 %*		*Surr Limits: (64-126%)*				*06/30/09 03:18*	*CDC*	*9F29090*	*8260B*
4-Bromofluorobenzene	*65 %*	*Z*	*Surr Limits: (72-126%)*				*06/30/09 03:18*	*CDC*	*9F29090*	*8260B*
Toluene-d8	*336 %*	*ZX*	*Surr Limits: (71-125%)*				*06/30/09 03:18*	*CDC*	*9F29090*	*8260B*

Tentatively Identified Compounds by EPA 8260B

Cyclohexane, 1,1-dimethyl- (000590-66-9)	**730**	Ret Time: 5.744	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Cyclohexane, 1,2,4-trimethyl-, (1.alpha.,2.bet (007667-60-9)	**1100**	Ret Time: 6.724	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Cyclohexane, 1,2-dimethyl-, trans- (006876-23-9)	**1100**	Ret Time: 5.915	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Cyclohexane, 1,3-dimethyl-, trans- (002207-03-6)	**1100**	Ret Time: 6.018	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Cyclopentane, 1,2,4-trimethyl- (002815-58-9)	**650**	Ret Time: 4.96	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Unknown (none)	**770**	Ret Time: 8.08	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Unknown01 (none)	**680**	Ret Time: 6.328	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Unknown02 (none)	**660**	Ret Time: 6.456	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Unknown03 (none)	**1100**	Ret Time: 6.517	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B
Unknown04 (none)	**1100**	Ret Time: 7.898	ug/kg dry	1.00	06/30/09 03:18	CDC	9F29090	8260B

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Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-05RE1 (TP-6 (3-11) - Solid)							**Sampled: 06/24/09 12:39**		**Recvd: 06/26/09 09:15**	
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND	D08	440	32	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
1,1,2,2-Tetrachloroethane	ND	D08	440	72	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
1,1,2-Trichloroethane	ND	D08	440	22	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	D08	440	47	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
1,1-Dichloroethane	ND	D08	440	52	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
1,1-Dichloroethene	ND	D08	440	54	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
1,2,4-Trichlorobenzene	ND	D08	440	27	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
1,2,4-Trimethylbenzene	ND	D08	440	32	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
1,2-Dibromo-3-chloropropane	ND	D08	440	88	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
1,2-Dibromoethane	ND	D08	440	17	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
1,2-Dichlorobenzene	ND	D08	440	67	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
1,2-Dichloroethane	ND	D08	440	22	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
1,2-Dichloropropane	ND	D08	440	23	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
1,3,5-Trimethylbenzene	ND	D08	440	29	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
1,3-Dichlorobenzene	ND	D08	440	63	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
1,4-Dichlorobenzene	ND	D08	440	62	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
2-Butanone	ND	D08	2200	600	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
2-Hexanone	ND	D08	2200	560	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
p-Cymene	ND	D08	440	36	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
4-Methyl-2-pentanone	ND	D08	2200	690	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Acetone	**1000**	D08,J	2200	97	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Benzene	ND	D08	440	48	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Bromodichloromethane	ND	D08	440	23	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Bromoform	ND	D08	440	37	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Bromomethane	ND	D08	440	41	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Carbon disulfide	ND	D08	440	38	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Carbon Tetrachloride	ND	D08	440	61	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Chlorobenzene	ND	D08	440	46	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Dibromochloromethane	ND	D08	440	24	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Chloroethane	ND	D08	440	72	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Chloroform	ND	D08	440	27	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Chloromethane	ND	D08	440	27	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
cis-1,2-Dichloroethene	ND	D08	440	22	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
cis-1,3-Dichloropropene	ND	D08	440	25	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Cyclohexane	ND	D08	440	20	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Dichlorodifluoromethane	ND	D08	440	37	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Ethylbenzene	ND	D08	440	31	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Isopropylbenzene	ND	D08	440	29	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Methyl Acetate	ND	D08	440	110	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Methyl-t-Butyl Ether (MTBE)	ND	D08	440	44	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Methylcyclohexane	**20000**	D08	440	29	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Methylene Chloride	**400**	D08,J	440	200	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
m-Xylene & p-Xylene	ND	D08	890	38	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Naphthalene	**640**	D08	440	60	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
n-Butylbenzene	ND	D08	440	39	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
n-Propylbenzene	ND	D08	440	34	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
o-Xylene	ND	D08	440	22	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
sec-Butylbenzene	ND	D08	440	39	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Styrene	ND	D08	440	22	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-05RE1 (TP-6 (3-11) - Solid) - cont.							**Sampled: 06/24/09 12:39**		**Recvd: 06/26/09 09:15**	
Volatile Organic Compounds by EPA 8260B - cont.										
Tetrachloroethene	ND	D08	440	60	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Toluene	ND	D08	440	75	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
trans-1,2-Dichloroethene	ND	D08	440	46	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
trans-1,3-Dichloropropene	ND	D08	440	57	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Trichloroethene	ND	D08	440	140	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Trichlorofluoromethane	ND	D08	440	140	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Vinyl chloride	ND	D08	890	18	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Xylenes, total	ND	D08	890	38	ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
1,2-Dichloroethane-d4	*120 %*	*D08*	*Surr Limits: (10-190%)*				*07/02/09 07:02*	*NMD*	*9F30049*	*8260B*
4-Bromofluorobenzene	*114 %*	*D08*	*Surr Limits: (10-190%)*				*07/02/09 07:02*	*NMD*	*9F30049*	*8260B*
Toluene-d8	*113 %*	*D08*	*Surr Limits: (10-190%)*				*07/02/09 07:02*	*NMD*	*9F30049*	*8260B*
Tentatively Identified Compounds by EPA 8260B										
1-Ethyl-4-methylcyclohexane (003728-56-1)	**9600**		Ret Time: 8.561		ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Cyclohexane, 1,2,4-trimethyl-, (1.alpha.,2.bet (007667-60-9)	**9700**		Ret Time: 8		ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Cyclohexane, ethyl- (001678-91-7)	**10000**		Ret Time: 7.726		ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Unknown01 (none)	**9800**		Ret Time: 7.769		ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Unknown02 (none)	**9200**		Ret Time: 12.268		ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Unknown03 (none)	**43000**		Ret Time: 6.77		ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Unknown04 (none)	**12000**		Ret Time: 7.13		ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Unknown05 (none)	**8300**		Ret Time: 7.25		ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Unknown06 (none)	**11000**		Ret Time: 9.23		ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B
Unknown07 (none)	**8000**		Ret Time: 12.57		ug/kg dry	4.00	07/02/09 07:02	NMD	9F30049	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-06 (SB-2/MW-2 (16-20) - Solid)						**Sampled: 06/23/09 15:30**		**Recvd: 06/26/09 09:15**		
General Chemistry Parameters										
Percent Solids	**94**		0.010	NR	%	1.00	06/30/09 14:03	SRW	9F30019	Dry Weight
Semivolatile Organics by GC/MS										
Acenaphthene	ND	D02	900	10	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Acenaphthylene	ND	D02	900	7.3	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Anthracene	ND	D02	900	23	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Benzo(a)anthracene	**48**	D02,J	900	15	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Benzo(a)pyrene	ND	D02	900	21	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Benzo(b)fluoranthene	ND	D02	900	17	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Benzo(ghi)perylene	ND	D02	900	11	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Benzo(k)fluoranthene	ND	D02	900	9.8	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Chrysene	**85**	D02,J	900	8.9	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Dibenzo(a,h)anthracene	ND	D02	900	10	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Fluoranthene	ND	D02	900	13	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Fluorene	**540**	D02,J	900	21	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Indeno(1,2,3-cd)pyrene	ND	D02	900	25	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Naphthalene	ND	D02	900	15	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Phenanthrene	**870**	D02,J	900	19	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Pyrene	ND	D02	900	5.8	ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
2,4,6-Tribromophenol	*86 %*	*D02*	*Surr Limits: (39-146%)*				*07/06/09 20:58*	*MKP*	*9F29046*	*8270C*
2-Fluorobiphenyl	*88 %*	*D02*	*Surr Limits: (37-120%)*				*07/06/09 20:58*	*MKP*	*9F29046*	*8270C*
2-Fluorophenol	*65 %*	*D02*	*Surr Limits: (18-120%)*				*07/06/09 20:58*	*MKP*	*9F29046*	*8270C*
Nitrobenzene-d5	*99 %*	*D02*	*Surr Limits: (34-132%)*				*07/06/09 20:58*	*MKP*	*9F29046*	*8270C*
Phenol-d5	*76 %*	*D02*	*Surr Limits: (11-120%)*				*07/06/09 20:58*	*MKP*	*9F29046*	*8270C*
p-Terphenyl-d14	*77 %*	*D02*	*Surr Limits: (58-147%)*				*07/06/09 20:58*	*MKP*	*9F29046*	*8270C*
Semivolatile Organics TICs by GC/MS										
Cyclohexane, 1-methyl-3-propyl- (004291-80-9)	**4700**		Ret Time: 5.868		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Hexadecane, 2,6,10,14-tetramethyl- (000638-36-8)	**24000**		Ret Time: 11.707		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Naphthalene, 1,2,3,4-tetrahydro-5,7-dimeth yl- (021693-54-9)	**5300**		Ret Time: 9.463		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Naphthalene, decahydro-, trans- (000493-02-7)	**4800**		Ret Time: 6.712		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Pentadecane, 2,6,10,14-tetramethyl- (001921-70-6)	**36000**		Ret Time: 11.221		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Pentadecane, 4-methyl- (002801-87-8)	**19000**		Ret Time: 9.821		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Tridecane, 5-propyl- (055045-11-9)	**13000**		Ret Time: 10.927		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Undecane, 2,6-dimethyl- (017301-23-4)	**8400**		Ret Time: 7.994		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Unknown1 (none)	**6100**	B	Ret Time: 5.483		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Unknown10 (none)	**5500**		Ret Time: 10.462		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Unknown11 (none)	**4600**		Ret Time: 11.445		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Unknown12 (none)	**8000**		Ret Time: 12.06		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Unknown2 (none)	**5300**		Ret Time: 6.37		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Sample ID: RSF1074-06 (SB-2/MW-2 (16-20) - Solid) - cont. **Sampled: 06/23/09 15:30** **Recvd: 06/26/09 09:15**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Semivolatile Organics TICs by GC/MS - cont.										
Unknown3 (none)	**4800**		Ret Time: 6.408		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Unknown4 (none)	**5700**		Ret Time: 6.969		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Unknown5 (none)	**4900**		Ret Time: 7.396		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Unknown6 (none)	**16000**		Ret Time: 8.47		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Unknown7 (none)	**6300**		Ret Time: 8.94		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Unknown8 (none)	**7600**		Ret Time: 9.421		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Unknown9 (none)	**5100**		Ret Time: 9.72		ug/kg dry	5.00	07/06/09 20:58	MKP	9F29046	8270C
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		110	7.8	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
1,1,2,2-Tetrachloroethane	ND		110	17	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
1,1,2-Trichloroethane	ND		110	5.3	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		110	11	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
1,1-Dichloroethane	ND		110	12	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
1,1-Dichloroethene	ND		110	13	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
1,2,4-Trichlorobenzene	ND		110	6.5	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
1,2,4-Trimethylbenzene	ND		110	7.7	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
1,2-Dibromo-3-chloropropane	ND		110	21	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
1,2-Dibromoethane	ND		110	4.1	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
1,2-Dichlorobenzene	ND		110	16	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
1,2-Dichloroethane	ND		110	5.4	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
1,2-Dichloropropane	ND		110	5.5	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
1,3,5-Trimethylbenzene	ND		110	6.9	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
1,3-Dichlorobenzene	ND		110	15	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
1,4-Dichlorobenzene	ND		110	15	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
2-Butanone	**200**	J, B	530	150	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
2-Hexanone	ND		530	130	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
p-Cymene	ND		110	8.6	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
4-Methyl-2-pentanone	ND		530	170	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Acetone	ND		530	23	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Benzene	ND		110	12	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Bromodichloromethane	ND		110	5.5	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Bromoform	ND		110	9.0	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Bromomethane	ND		110	9.8	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Carbon disulfide	ND		110	9.1	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Carbon Tetrachloride	ND		110	15	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Chlorobenzene	ND		110	11	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Dibromochloromethane	ND		110	5.9	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Chloroethane	ND		110	17	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Chloroform	ND		110	6.6	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Chloromethane	ND		110	6.4	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
cis-1,2-Dichloroethene	ND		110	5.3	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
cis-1,3-Dichloropropene	ND		110	6.1	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Cyclohexane	ND		110	4.9	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Dichlorodifluoromethane	ND		110	8.8	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Ethylbenzene	ND		110	7.4	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Isopropylbenzene	ND		110	7.0	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Methyl Acetate	ND		110	27	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-06 (SB-2/MW-2 (16-20) - Solid) - cont.						**Sampled: 06/23/09 15:30**		**Recvd: 06/26/09 09:15**		
Volatile Organic Compounds by EPA 8260B - cont.										
Methyl-t-Butyl Ether (MTBE)	ND		110	11	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Methylcyclohexane	**9300**		110	6.9	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Methylene Chloride	ND		110	47	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
m-Xylene & p-Xylene	ND		210	9.2	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Naphthalene	**120**		110	14	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
n-Butylbenzene	ND		110	9.3	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
n-Propylbenzene	ND		110	8.1	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
o-Xylene	ND		110	5.3	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
sec-Butylbenzene	ND		110	9.3	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Styrene	ND		110	5.3	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Tetrachloroethene	ND		110	14	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Toluene	ND		110	18	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
trans-1,2-Dichloroethene	ND		110	11	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
trans-1,3-Dichloropropene	ND		110	14	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Trichloroethene	ND		110	33	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Trichlorofluoromethane	ND		110	33	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Vinyl chloride	ND		210	4.4	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Xylenes, total	ND		210	9.2	ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
1,2-Dichloroethane-d4	*128 %*		*Surr Limits: (10-190%)*				*07/01/09 08:37*	*NMD*	*9F30049*	*8260B*
4-Bromofluorobenzene	*115 %*		*Surr Limits: (10-190%)*				*07/01/09 08:37*	*NMD*	*9F30049*	*8260B*
Toluene-d8	*102 %*		*Surr Limits: (10-190%)*				*07/01/09 08:37*	*NMD*	*9F30049*	*8260B*
Tentatively Identified Compounds by EPA 8260B										
Naphthalene derviative (NA)	**14000**		Ret Time: 11.79		ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Naphthalene, decahydro-2-methyl- (002958-76-1)	**14000**		Ret Time: 11.603		ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Unknown (none)	**35000**		Ret Time: 6.77		ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Unknown01 (none)	**20000**		Ret Time: 9.415		ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Unknown02 (none)	**14000**		Ret Time: 9.683		ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Unknown03 (none)	**14000**		Ret Time: 11.189		ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Unknown04 (none)	**22000**		Ret Time: 11.298		ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Unknown05 (none)	**13000**		Ret Time: 12.17		ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Unknown06 (none)	**14000**		Ret Time: 11.02		ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B
Unknown07 (none)	**14000**		Ret Time: 12.27		ug/kg dry	1.00	07/01/09 08:37	NMD	9F30049	8260B

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-07 (TP-4 (4-10) - Solid)						**Sampled: 06/24/09 10:52**		**Recvd: 06/26/09 09:15**		
General Chemistry Parameters										
Percent Solids	**84**		0.010	NR	%	1.00	06/29/09 09:13	JB	9F29018	Dry Weight
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	20	3.8	ug/kg dry	1.00	06/30/09 11:52	SCH	9F27007	8082
Aroclor 1221	ND	QSU	20	3.8	ug/kg dry	1.00	06/30/09 11:52	SCH	9F27007	8082
Aroclor 1232	ND	QSU	20	3.8	ug/kg dry	1.00	06/30/09 11:52	SCH	9F27007	8082
Aroclor 1242	ND	QSU	20	4.3	ug/kg dry	1.00	06/30/09 11:52	SCH	9F27007	8082
Aroclor 1248	ND	QSU	20	3.9	ug/kg dry	1.00	06/30/09 11:52	SCH	9F27007	8082
Aroclor 1254	ND	QSU	20	4.1	ug/kg dry	1.00	06/30/09 11:52	SCH	9F27007	8082
Aroclor 1260	ND	QSU	20	4.1	ug/kg dry	1.00	06/30/09 11:52	SCH	9F27007	8082
Decachlorobiphenyl	*87 %*	*QSU*	*Surr Limits: (34-148%)*				*06/30/09 11:52*	*SCH*	*9F27007*	*8082*
Tetrachloro-m-xylene	*65 %*	*QSU*	*Surr Limits: (35-134%)*				*06/30/09 11:52*	*SCH*	*9F27007*	*8082*
Total Metals by SW 846 Series Methods										
Arsenic	**6.0**		2.2	NR	mg/kg dry	1.00	07/01/09 03:58	LMH	9F29058	6010B
Barium	**38.9**		0.542	NR	mg/kg dry	1.00	07/01/09 03:58	LMH	9F29058	6010B
Cadmium	**0.234**		0.217	NR	mg/kg dry	1.00	07/01/09 03:58	LMH	9F29058	6010B
Chromium	**7.08**		0.542	NR	mg/kg dry	1.00	07/01/09 03:58	LMH	9F29058	6010B
Lead	**26.3**		1.1	NR	mg/kg dry	1.00	07/01/09 03:58	LMH	9F29058	6010B
Selenium	ND		4.3	NR	mg/kg dry	1.00	07/01/09 03:58	LMH	9F29058	6010B
Silver	ND		0.542	NR	mg/kg dry	1.00	07/01/09 03:58	LMH	9F29058	6010B
Mercury	**0.363**		0.0223	NR	mg/kg dry	1.00	07/08/09 15:09	MM	9G07089	7471A

TestAmerica
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Benchmark Environmental & Engineering Science
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Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1074-08 (TP-4 (5-8) - Solid)							**Sampled: 06/24/09 11:27**		**Recvd: 06/26/09 09:15**	
General Chemistry Parameters										
Percent Solids	**83**		0.010	NR	%	1.00	06/29/09 09:13	JB	9F29018	Dry Weight
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	20	3.9	ug/kg dry	1.00	06/30/09 12:07	SCH	9F27007	8082
Aroclor 1221	ND	QSU	20	3.9	ug/kg dry	1.00	06/30/09 12:07	SCH	9F27007	8082
Aroclor 1232	ND	QSU	20	3.9	ug/kg dry	1.00	06/30/09 12:07	SCH	9F27007	8082
Aroclor 1242	ND	QSU	20	4.3	ug/kg dry	1.00	06/30/09 12:07	SCH	9F27007	8082
Aroclor 1248	ND	QSU	20	3.9	ug/kg dry	1.00	06/30/09 12:07	SCH	9F27007	8082
Aroclor 1254	ND	QSU	20	4.2	ug/kg dry	1.00	06/30/09 12:07	SCH	9F27007	8082
Aroclor 1260	ND	QSU	20	4.2	ug/kg dry	1.00	06/30/09 12:07	SCH	9F27007	8082
Decachlorobiphenyl	*81 %*	*QSU*	*Surr Limits: (34-148%)*				*06/30/09 12:07*	*SCH*	*9F27007*	*8082*
Tetrachloro-m-xylene	*65 %*	*QSU*	*Surr Limits: (35-134%)*				*06/30/09 12:07*	*SCH*	*9F27007*	*8082*
Total Metals by SW 846 Series Methods										
Arsenic	**6.1**		2.3	NR	mg/kg dry	1.00	07/01/09 04:03	LMH	9F29058	6010B
Barium	**35.7**		0.583	NR	mg/kg dry	1.00	07/01/09 04:03	LMH	9F29058	6010B
Cadmium	ND		0.233	NR	mg/kg dry	1.00	07/01/09 04:03	LMH	9F29058	6010B
Chromium	**6.48**		0.583	NR	mg/kg dry	1.00	07/01/09 04:03	LMH	9F29058	6010B
Lead	**23.6**		1.2	NR	mg/kg dry	1.00	07/01/09 04:03	LMH	9F29058	6010B
Selenium	ND		4.7	NR	mg/kg dry	1.00	07/01/09 04:03	LMH	9F29058	6010B
Silver	ND		0.583	NR	mg/kg dry	1.00	07/01/09 04:03	LMH	9F29058	6010B
Mercury	**0.592**		0.0236	NR	mg/kg dry	1.00	07/08/09 15:10	MM	9G07089	7471A

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Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
Dry Weight	9F29018	RSF1074-07	10.00	g	10.00	g	06/29/09 09:13	JB	Dry Weight
Dry Weight	9F29018	RSF1074-08	10.00	g	10.00	g	06/29/09 09:13	JB	Dry Weight
Dry Weight	9F30019	RSF1074-01	10.00	g	10.00	g	06/30/09 09:51	SRW	Dry Weight
Dry Weight	9F30019	RSF1074-02	10.00	g	10.00	g	06/30/09 09:51	SRW	Dry Weight
Dry Weight	9F30019	RSF1074-03	10.00	g	10.00	g	06/30/09 09:51	SRW	Dry Weight
Dry Weight	9F30019	RSF1074-04	10.00	g	10.00	g	06/30/09 09:51	SRW	Dry Weight
Dry Weight	9F30019	RSF1074-05	10.00	g	10.00	g	06/30/09 09:51	SRW	Dry Weight
Dry Weight	9F30019	RSF1074-06	10.00	g	10.00	g	06/30/09 09:51	SRW	Dry Weight
Polychlorinated Biphenyls by EPA Method 8082									
8082	9F27007	RSF1074-07	30.15	g	10.00	mL	06/29/09 08:00	KB	3550B GC
8082	9F27007	RSF1074-08	30.42	g	10.00	mL	06/29/09 08:00	KB	3550B GC
Semivolatile Organics by GC/MS									
8270C	9F29046	RSF1074-01	30.10	g	1.00	mL	06/29/09 15:00	LT	3550B MB
8270C	9F29046	RSF1074-06	30.24	g	1.00	mL	06/29/09 15:00	LT	3550B MB
8270C	9F29046	RSF1074-02	30.46	g	1.00	mL	06/29/09 15:00	LT	3550B MB
8270C	9F29046	RSF1074-04	30.68	g	1.00	mL	06/29/09 15:00	LT	3550B MB
8270C	9F29046	RSF1074-03	30.72	g	1.00	mL	06/29/09 15:00	LT	3550B MB
8270C	9F29046	RSF1074-05	30.93	g	1.00	mL	06/29/09 15:00	LT	3550B MB
Semivolatile Organics TICs by GC/MS									
8270C	9F29046	RSF1074-01	30.10	g	1.00	mL	06/29/09 15:00	JB	3550B MB
8270C	9F29046	RSF1074-06	30.24	g	1.00	mL	06/29/09 15:00	JB	3550B MB
8270C	9F29046	RSF1074-02	30.46	g	1.00	mL	06/29/09 15:00	JB	3550B MB
8270C	9F29046	RSF1074-04	30.68	g	1.00	mL	06/29/09 15:00	JB	3550B MB
8270C	9F29046	RSF1074-03	30.72	g	1.00	mL	06/29/09 15:00	JB	3550B MB
8270C	9F29046	RSF1074-05	30.93	g	1.00	mL	06/29/09 15:00	JB	3550B MB
Tentatively Identified Compounds by EPA 8260B									
8260B	9F29090	RSF1074-03	1.08	g	5.00	mL	06/29/09 18:07	RMJ	5030B MS
8260B	9F29090	RSF1074-04	5.14	g	5.00	mL	06/29/09 18:07	RMJ	5030B MS
8260B	9F29090	RSF1074-01	5.29	g	5.00	mL	06/29/09 18:07	RMJ	5030B MS
8260B	9F29090	RSF1074-05	5.35	g	5.00	mL	06/29/09 18:07	RMJ	5030B MS
8260B	9F30049	RSF1074-02	4.98	g	500.00	mL	06/30/09 13:03	RMJ	Methanol Prep
8260B	9F30049	RSF1074-06	4.99	g	500.00	mL	06/30/09 13:03	RMJ	Methanol Prep
8260B	9F30049	RSF1074-05RE1	5.02	g	500.00	mL	06/30/09 13:03	RMJ	Methanol Prep
Total Metals by SW 846 Series Methods									
6010B	9F29058	RSF1074-08	0.51	g	50.00	mL	06/30/09 10:15	MLD	3050B
6010B	9F29058	RSF1074-07	0.55	g	50.00	mL	06/30/09 10:15	MLD	3050B
7471A	9G07089	RSF1074-08	0.61	g	50.00	mL	07/08/09 13:45	MM	7471A_

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
7471A	9G07089	RSF1074-07	0.64	g	50.00	mL	07/08/09 13:45	MM	7471A_
Volatile Organic Compounds by EPA 8260B									
8260B	9F29090	RSF1074-03	1.08	g	5.00	mL	06/29/09 18:07	CDC	5030B MS
8260B	9F29090	RSF1074-04	5.14	g	5.00	mL	06/29/09 18:07	CDC	5030B MS
8260B	9F29090	RSF1074-01	5.29	g	5.00	mL	06/29/09 18:07	CDC	5030B MS
8260B	9F29090	RSF1074-05	5.35	g	5.00	mL	06/29/09 18:07	CDC	5030B MS
8260B	9F30049	RSF1074-02	4.98	g	500.00	mL	06/30/09 13:03	SRW	Methanol Prep
8260B	9F30049	RSF1074-06	4.99	g	500.00	mL	06/30/09 13:03	SRW	Methanol Prep
8260B	9F30049	RSF1074-05RE´	5.02	g	500.00	mL	06/30/09 13:03	SRW	Methanol Prep

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Received: 06/26/09
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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Polychlorinated Biphenyls by EPA Method 8082											
Blank Analyzed: 06/30/09 (Lab Number:9F27007-BLK1, Batch: 9F27007)											
Aroclor 1016			17	3.3	ug/kg wet	ND					QSU
Aroclor 1016 [2C]			17	3.3	ug/kg wet	ND					QSU
Aroclor 1221			17	3.3	ug/kg wet	ND					QSU
Aroclor 1221 [2C]			17	3.3	ug/kg wet	ND					QSU
Aroclor 1232			17	3.3	ug/kg wet	ND					QSU
Aroclor 1232 [2C]			17	3.3	ug/kg wet	ND					QSU
Aroclor 1242			17	3.6	ug/kg wet	ND					QSU
Aroclor 1242 [2C]			17	3.6	ug/kg wet	ND					QSU
Aroclor 1248			17	3.3	ug/kg wet	ND					QSU
Aroclor 1248 [2C]			17	3.3	ug/kg wet	ND					QSU
Aroclor 1254			17	3.5	ug/kg wet	ND					QSU
Aroclor 1254 [2C]			17	3.5	ug/kg wet	ND					QSU
Aroclor 1260			17	3.5	ug/kg wet	ND					QSU
Aroclor 1260 [2C]			17	3.5	ug/kg wet	ND					QSU
Surrogate: Decachlorobiphenyl					*ug/kg wet*		*107*	*34-148*			*QSU*
Surrogate: Decachlorobiphenyl [2C]					*ug/kg wet*		*91*	*34-148*			*QSU*
Surrogate: Tetrachloro-m-xylene					*ug/kg wet*		*90*	*35-134*			*QSU*
Surrogate: Tetrachloro-m-xylene					*ug/kg wet*		*80*	*35-134*			*QSU*
LCS Analyzed: 06/30/09 (Lab Number:9F27007-BS1, Batch: 9F27007)											
Aroclor 1016		160	16	3.2	ug/kg wet	151	92	59-154			QSU
Aroclor 1016 [2C]		160	16	3.2	ug/kg wet	122	74	59-154			QSU
Aroclor 1221			16	3.2	ug/kg wet	ND					QSU
Aroclor 1221 [2C]			16	3.2	ug/kg wet	ND					QSU
Aroclor 1232			16	3.2	ug/kg wet	ND					QSU
Aroclor 1232 [2C]			16	3.2	ug/kg wet	ND					QSU
Aroclor 1242			16	3.6	ug/kg wet	ND					QSU
Aroclor 1242 [2C]			16	3.6	ug/kg wet	ND					QSU
Aroclor 1248			16	3.2	ug/kg wet	ND					QSU
Aroclor 1248 [2C]			16	3.2	ug/kg wet	ND					QSU
Aroclor 1254			16	3.5	ug/kg wet	ND					QSU
Aroclor 1254 [2C]			16	3.5	ug/kg wet	ND					QSU
Aroclor 1260		160	16	3.5	ug/kg wet	187	113	51-179			QSU
Aroclor 1260 [2C]		160	16	3.5	ug/kg wet	146	89	51-179			QSU
Surrogate: Decachlorobiphenyl					*ug/kg wet*		*102*	*34-148*			*QSU*

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Polychlorinated Biphenyls by EPA Method 8082											
LCS Analyzed: 06/30/09 (Lab Number:9F27007-BS1, Batch: 9F27007)											
Surrogate: Decachlorobiphenyl [2C]					*ug/kg wet*		*89*	*34-148*			*QSU*
Surrogate: Tetrachloro-m-xylene					*ug/kg wet*		*110*	*35-134*			*QSU*
Surrogate: Tetrachloro-m-xylene					*ug/kg wet*		*78*	*35-134*			*QSU*
LCS Dup Analyzed: 06/30/09 (Lab Number:9F27007-BSD1, Batch: 9F27007)											
Aroclor 1016		160	16	3.2	ug/kg wet	147	90	59-154	3	50	QSU
Aroclor 1016 [2C]		160	16	3.2	ug/kg wet	112	69	59-154	8	50	QSU
Aroclor 1221			16	3.2	ug/kg wet	ND					QSU
Aroclor 1221 [2C]			16	3.2	ug/kg wet	ND					QSU
Aroclor 1232			16	3.2	ug/kg wet	ND					QSU
Aroclor 1232 [2C]			16	3.2	ug/kg wet	ND					QSU
Aroclor 1242			16	3.6	ug/kg wet	ND					QSU
Aroclor 1242 [2C]			16	3.6	ug/kg wet	ND					QSU
Aroclor 1248			16	3.2	ug/kg wet	ND					QSU
Aroclor 1248 [2C]			16	3.2	ug/kg wet	ND					QSU
Aroclor 1254			16	3.5	ug/kg wet	ND					QSU
Aroclor 1254 [2C]			16	3.5	ug/kg wet	ND					QSU
Aroclor 1260		160	16	3.5	ug/kg wet	188	115	51-179	0.6	50	QSU
Aroclor 1260 [2C]		160	16	3.5	ug/kg wet	142	87	51-179	3	50	QSU
Surrogate: Decachlorobiphenyl					*ug/kg wet*		*97*	*34-148*			*QSU*
Surrogate: Decachlorobiphenyl [2C]					*ug/kg wet*		*83*	*34-148*			*QSU*
Surrogate: Tetrachloro-m-xylene					*ug/kg wet*		*89*	*35-134*			*QSU*
Surrogate: Tetrachloro-m-xylene					*ug/kg wet*		*70*	*35-134*			*QSU*

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
Blank Analyzed: 07/06/09 (Lab Number:9F29046-BLK1, Batch: 9F29046)											
Acenaphthene			170	1.9	ug/kg wet	ND					
Acenaphthylene			170	1.4	ug/kg wet	ND					
Anthracene			170	4.2	ug/kg wet	ND					
Benzo[a]anthracene			170	2.9	ug/kg wet	ND					
Benzo[a]pyrene			170	4.0	ug/kg wet	ND					
Benzo[b]fluoranthene			170	3.2	ug/kg wet	ND					
Benzo[g,h,i]perylene			170	2.0	ug/kg wet	ND					
Benzo[k]fluoranthene			170	1.8	ug/kg wet	ND					
Chrysene			170	1.7	ug/kg wet	ND					
Dibenz[a,h]anthracene			170	1.9	ug/kg wet	ND					
Fluoranthene			170	2.4	ug/kg wet	ND					
Fluorene			170	3.8	ug/kg wet	ND					
Indeno[1,2,3-cd]pyrene			170	4.6	ug/kg wet	ND					
Naphthalene			170	2.8	ug/kg wet	ND					
Phenanthrene			170	3.5	ug/kg wet	ND					
Pyrene			170	1.1	ug/kg wet	ND					
Surrogate: 2,4,6-Tribromophenol					*ug/kg wet*		*72*	*39-146*			
Surrogate: 2-Fluorobiphenyl					*ug/kg wet*		*74*	*37-120*			
Surrogate: 2-Fluorophenol					*ug/kg wet*		*62*	*18-120*			
Surrogate: Nitrobenzene-d5					*ug/kg wet*		*69*	*34-132*			
Surrogate: Phenol-d5					*ug/kg wet*		*68*	*11-120*			
Surrogate: p-Terphenyl-d14					*ug/kg wet*		*77*	*58-147*			
LCS Analyzed: 07/06/09 (Lab Number:9F29046-BS1, Batch: 9F29046)											
Acenaphthene		3300	170	2.0	ug/kg wet	2720	82	53-120			
Acenaphthylene			170	1.4	ug/kg wet	ND		58-121			
Anthracene			170	4.3	ug/kg wet	ND		62-129			
Benzo[a]anthracene			170	2.9	ug/kg wet	ND		65-133			
Benzo[a]pyrene			170	4.0	ug/kg wet	ND		64-127			
Benzo[b]fluoranthene			170	3.3	ug/kg wet	ND		64-135			
Benzo[g,h,i]perylene			170	2.0	ug/kg wet	ND		50-152			
Benzo[k]fluoranthene			170	1.8	ug/kg wet	ND		58-138			
Chrysene			170	1.7	ug/kg wet	ND		64-131			
Dibenz[a,h]anthracene			170	2.0	ug/kg wet	ND		54-148			
Fluoranthene			170	2.4	ug/kg wet	ND		62-131			
Fluorene			170	3.9	ug/kg wet	ND		63-126			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
LCS Analyzed: 07/06/09 (Lab Number:9F29046-BS1, Batch: 9F29046)											
Indeno[1,2,3-cd]pyrene			170	4.6	ug/kg wet	ND		56-149			
Naphthalene			170	2.8	ug/kg wet	ND		46-120			
Phenanthrene			170	3.5	ug/kg wet	ND		60-130			
Pyrene		3300	170	1.1	ug/kg wet	3530	107	51-133			
Surrogate: 2,4,6-Tribromophenol					*ug/kg wet*		*80*	*39-146*			
Surrogate: 2-Fluorobiphenyl					*ug/kg wet*		*75*	*37-120*			
Surrogate: 2-Fluorophenol					*ug/kg wet*		*59*	*18-120*			
Surrogate: Nitrobenzene-d5					*ug/kg wet*		*71*	*34-132*			
Surrogate: Phenol-d5					*ug/kg wet*		*66*	*11-120*			
Surrogate: p-Terphenyl-d14					*ug/kg wet*		*86*	*58-147*			
LCS Dup Analyzed: 07/06/09 (Lab Number:9F29046-BSD1, Batch: 9F29046)											
Acenaphthene		3300	170	2.0	ug/kg wet	2800	84	53-120	3	35	
Acenaphthylene			170	1.4	ug/kg wet	ND		58-121		18	
Anthracene			170	4.3	ug/kg wet	ND		62-129		15	
Benzo[a]anthracene			170	2.9	ug/kg wet	ND		65-133		15	
Benzo[a]pyrene			170	4.1	ug/kg wet	ND		64-127		15	
Benzo[b]fluoranthene			170	3.3	ug/kg wet	ND		64-135		15	
Benzo[g,h,i]perylene			170	2.0	ug/kg wet	ND		50-152		15	
Benzo[k]fluoranthene			170	1.9	ug/kg wet	ND		58-138		22	
Chrysene			170	1.7	ug/kg wet	ND		64-131		15	
Dibenz[a,h]anthracene			170	2.0	ug/kg wet	ND		54-148		15	
Fluoranthene			170	2.4	ug/kg wet	ND		62-131		15	
Fluorene			170	3.9	ug/kg wet	ND		63-126		15	
Indeno[1,2,3-cd]pyrene			170	4.7	ug/kg wet	ND		56-149		15	
Naphthalene			170	2.8	ug/kg wet	ND		46-120		29	
Phenanthrene			170	3.5	ug/kg wet	ND		60-130		15	
Pyrene		3300	170	1.1	ug/kg wet	3400	102	51-133	4	35	
Surrogate: 2,4,6-Tribromophenol					*ug/kg wet*		*80*	*39-146*			
Surrogate: 2-Fluorobiphenyl					*ug/kg wet*		*76*	*37-120*			
Surrogate: 2-Fluorophenol					*ug/kg wet*		*61*	*18-120*			
Surrogate: Nitrobenzene-d5					*ug/kg wet*		*69*	*34-132*			
Surrogate: Phenol-d5					*ug/kg wet*		*65*	*11-120*			

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Semivolatile Organics by GC/MS

LCS Dup Analyzed: 07/06/09 (Lab Number:9F29046-BSD1, Batch: 9F29046)

Surrogate: p-Terphenyl-d14	*ug/kg wet*	*82*	*58-147*

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Semivolatile Organics TICs by GC/MS											
Blank Analyzed: 07/06/09 (Lab Number:9F29046-BLK1, Batch: 9F29046)											
Ethane, 1,1,2,2-tetrachloro-			NA		ug/kg wet	490					T7
Unknown1			NA		ug/kg wet	240					T7

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by SW 846 Series Methods											
Blank Analyzed: 07/01/09 (Lab Number:9F29058-BLK1, Batch: 9F29058)											
Arsenic			2.0	NR	mg/kg wet	ND					B
Barium			0.500	NR	mg/kg wet	ND					B
Cadmium			0.200	NR	mg/kg wet	ND					
Chromium			0.500	NR	mg/kg wet	ND					
Lead			1.0	NR	mg/kg wet	ND					B
Selenium			4.0	NR	mg/kg wet	ND					
Silver			0.500	NR	mg/kg wet	ND					
Reference Analyzed: 07/01/09 (Lab Number:9F29058-SRM1, Batch: 9F29058)											
Arsenic		123	2.0	NR	mg/kg wet	117	96	82.9-117.1			
Barium		256	0.499	NR	mg/kg wet	256	100	80.5-119.5			
Cadmium		258	0.200	NR	mg/kg wet	246	96	83.7-116.7			
Chromium		138	0.499	NR	mg/kg wet	137	99	81.9-118.1			
Lead		136	1.0	NR	mg/kg wet	128	94	80.9-119.9			
Selenium		199	4.0	NR	mg/kg wet	193	97	79.9-119.6			
Silver		62.3	0.499	NR	mg/kg wet	63.3	102	66.2-133.7			
Total Metals by SW 846 Series Methods											
Blank Analyzed: 07/08/09 (Lab Number:9G07089-BLK1, Batch: 9G07089)											
Mercury			0.0200	NR	mg/kg wet	ND					
Reference Analyzed: 07/08/09 (Lab Number:9G07089-SRM1, Batch: 9G07089)											
Mercury		1.76	0.106	NR	mg/kg wet	1.67	95	68.4-132.2			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 06/29/09 (Lab Number:9F29090-BLK1, Batch: 9F29090)											
1,1,1-Trichloroethane			5.0	0.36	ug/kg wet	ND					
1,1,2,2-Tetrachloroethane			5.0	0.81	ug/kg wet	ND					
1,1,2-Trichloroethane			5.0	0.25	ug/kg wet	ND					
1,1,2-Trichlorotrifluoroethane			5.0	0.53	ug/kg wet	ND					
1,1-Dichloroethane			5.0	0.25	ug/kg wet	ND					
1,1-Dichloroethene			5.0	0.61	ug/kg wet	ND					
1,2,4-Trichlorobenzene			5.0	0.30	ug/kg wet	ND					
1,2,4-Trimethylbenzene			5.0	0.36	ug/kg wet	ND					
1,2-Dibromo-3-chloropropane			5.0	1.0	ug/kg wet	ND					
1,2-Dibromoethane (EDB)			5.0	0.19	ug/kg wet	ND					
1,2-Dichlorobenzene			5.0	0.75	ug/kg wet	ND					
1,2-Dichloroethane			5.0	0.25	ug/kg wet	ND					
1,2-Dichloropropane			5.0	0.26	ug/kg wet	ND					
1,3,5-Trimethylbenzene			5.0	0.32	ug/kg wet	ND					
1,3-Dichlorobenzene			5.0	0.71	ug/kg wet	ND					
1,4-Dichlorobenzene			5.0	0.70	ug/kg wet	ND					
2-Butanone (MEK)			25	6.8	ug/kg wet	ND					
2-Hexanone			25	1.7	ug/kg wet	ND					
4-Isopropyltoluene			5.0	0.40	ug/kg wet	ND					
4-Methyl-2-pentanone (MIBK)			25	1.6	ug/kg wet	ND					
Acetone			25	1.1	ug/kg wet	ND					
Benzene			5.0	0.24	ug/kg wet	ND					
Bromodichloromethane			5.0	0.26	ug/kg wet	ND					
Bromoform			5.0	0.46	ug/kg wet	ND					
Bromomethane			5.0	0.46	ug/kg wet	ND					
Carbon disulfide			5.0	0.43	ug/kg wet	ND					
Carbon Tetrachloride			5.0	0.18	ug/kg wet	ND					
Chlorobenzene			5.0	0.22	ug/kg wet	ND					
Chlorodibromomethane			5.0	0.28	ug/kg wet	ND					
Chloroethane			5.0	0.81	ug/kg wet	ND					
Chloroform			5.0	0.31	ug/kg wet	ND					
Chloromethane			5.0	0.30	ug/kg wet	ND					
cis-1,2-Dichloroethene			5.0	0.25	ug/kg wet	ND					
cis-1,3-Dichloropropene			5.0	0.29	ug/kg wet	ND					
Cyclohexane			5.0	0.23	ug/kg wet	ND					

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 06/29/09 (Lab Number:9F29090-BLK1, Batch: 9F29090)											
Dichlorodifluoromethane			5.0	0.41	ug/kg wet	ND					
Ethylbenzene			5.0	0.35	ug/kg wet	ND					
Isopropylbenzene			5.0	0.33	ug/kg wet	ND					
Methyl Acetate			5.0	0.27	ug/kg wet	ND					
Methyl tert-Butyl Ether			5.0	0.49	ug/kg wet	ND					
Methylcyclohexane			5.0	0.32	ug/kg wet	ND					
Methylene Chloride			5.0	0.35	ug/kg wet	ND					
m-Xylene & p-Xylene			10	0.84	ug/kg wet	ND					
n-Butylbenzene			5.0	0.44	ug/kg wet	ND					
n-Propylbenzene			5.0	0.40	ug/kg wet	ND					
o-Xylene			5.0	0.25	ug/kg wet	ND					
sec-Butylbenzene			5.0	0.44	ug/kg wet	ND					
Styrene			5.0	0.25	ug/kg wet	ND					
Tetrachloroethene			5.0	0.67	ug/kg wet	ND					
Toluene			5.0	0.85	ug/kg wet	ND					
trans-1,2-Dichloroethene			5.0	0.52	ug/kg wet	ND					
trans-1,3-Dichloropropene			5.0	0.24	ug/kg wet	ND					
Trichloroethene			5.0	0.35	ug/kg wet	ND					
Trichlorofluoromethane			5.0	1.6	ug/kg wet	ND					
Vinyl chloride			10	0.20	ug/kg wet	ND					
Xylenes, total			10	0.84	ug/kg wet	ND					
Surrogate: 1,2-Dichloroethane-d4					*ug/kg wet*		*104*	*64-126*			
Surrogate: 4-Bromofluorobenzene					*ug/kg wet*		*112*	*72-126*			
Surrogate: Toluene-d8					*ug/kg wet*		*116*	*71-125*			
LCS Analyzed: 06/29/09 (Lab Number:9F29090-BS1, Batch: 9F29090)											
1,1,1,2-Tetrachloroethane			5.0	0.31	ug/kg wet	ND		74-127			
1,1,1-Trichloroethane			5.0	0.36	ug/kg wet	ND		77-121			
1,1,2,2-Tetrachloroethane			5.0	0.81	ug/kg wet	ND		80-120			
1,1,2-Trichloroethane			5.0	0.25	ug/kg wet	ND		78-122			
1,1,2-Trichlorotrifluoroethane			5.0	0.53	ug/kg wet	ND		60-140			
1,1-Dichloroethane			5.0	0.25	ug/kg wet	ND		79-126			
1,1-Dichloroethene		50	NA		ug/kg wet	47.7	95	65-153			
1,1-Dichloropropene			5.0	0.29	ug/kg wet	ND		72-128			
1,2,3-Trichlorobenzene			5.0	0.53	ug/kg wet	ND		60-120			
1,2,3-Trichloropropane			5.0	0.51	ug/kg wet	ND		73-128			

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
LCS Analyzed: 06/29/09 (Lab Number:9F29090-BS1, Batch: 9F29090)											
1,2,4-Trichlorobenzene			5.0	0.30	ug/kg wet	ND		64-120			
1,2,4-Trimethylbenzene			5.0	0.36	ug/kg wet	ND		74-120			
1,2-Dibromo-3-chloropropane			5.0	1.0	ug/kg wet	ND		63-124			
1,2-Dibromoethane (EDB)			5.0	0.19	ug/kg wet	ND		78-120			
1,2-Dichlorobenzene			5.0	0.75	ug/kg wet	ND		75-120			
1,2-Dichloroethane			5.0	0.25	ug/kg wet	ND		77-122			
1,2-Dichloroethene, Total			10	2.6	ug/kg wet	ND		82-120			
1,2-Dichloropropane			5.0	0.26	ug/kg wet	ND		75-124			
1,3,5-Trimethylbenzene			5.0	0.32	ug/kg wet	ND		74-120			
1,3-Dichlorobenzene			5.0	0.71	ug/kg wet	ND		74-120			
1,3-Dichloropropane			5.0	0.30	ug/kg wet	ND		72-127			
1,4-Dichlorobenzene			5.0	0.70	ug/kg wet	ND		73-120			
2-Butanone (MEK)			25	6.8	ug/kg wet	ND		70-134			
2-Hexanone			25	1.7	ug/kg wet	ND		59-130			
4-Isopropyltoluene			5.0	0.40	ug/kg wet	ND		74-120			
4-Methyl-2-pentanone (MIBK)			25	1.6	ug/kg wet	ND		65-133			
Acetone			25	1.1	ug/kg wet	ND		61-137			
Acrylonitrile			100	2.1	ug/kg wet	ND		65-134			
Benzene		50	NA		ug/kg wet	46.1	92	79-127			
Bromochloromethane			5.0	0.36	ug/kg wet	ND		75-134			
Bromodichloromethane			5.0	0.26	ug/kg wet	ND		80-122			
Bromoform			5.0	0.46	ug/kg wet	ND		68-126			
Bromomethane			5.0	0.46	ug/kg wet	ND		37-149			
Carbon disulfide			5.0	0.43	ug/kg wet	ND		64-131			
Carbon Tetrachloride			5.0	0.18	ug/kg wet	ND		75-135			
Chlorobenzene		50	NA		ug/kg wet	46.2	92	76-124			
Chlorodibromomethane			5.0	0.28	ug/kg wet	ND		76-125			
Chloroethane			5.0	0.81	ug/kg wet	ND		69-135			
Chloroform			5.0	0.31	ug/kg wet	ND		80-118			
Chloromethane			5.0	0.30	ug/kg wet	ND		63-127			
cis-1,2-Dichloroethene			5.0	0.25	ug/kg wet	ND		81-117			
cis-1,3-Dichloropropene			5.0	0.29	ug/kg wet	ND		82-120			
Cyclohexane			5.0	0.23	ug/kg wet	ND		70-130			
Dibromomethane			5.0	0.52	ug/kg wet	ND		73-130			
Dichlorodifluoromethane			5.0	0.41	ug/kg wet	ND		57-142			
Ethylbenzene			5.0	0.35	ug/kg wet	ND		80-120			

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
LCS Analyzed: 06/29/09 (Lab Number:9F29090-BS1, Batch: 9F29090)											
Iodomethane			5.0	0.24	ug/kg wet	ND		59-149			
Isopropylbenzene			5.0	0.33	ug/kg wet	ND		72-120			
Methyl Acetate			5.0	0.27	ug/kg wet	ND		60-140			
Methyl tert-Butyl Ether			5.0	0.49	ug/kg wet	ND		63-125			
Methylcyclohexane			5.0	0.32	ug/kg wet	ND		60-140			
Methylene Chloride			5.0	0.35	ug/kg wet	ND		61-127			
m-Xylene & p-Xylene			10	0.84	ug/kg wet	ND		70-130			
n-Butylbenzene			5.0	0.44	ug/kg wet	ND		70-120			
n-Propylbenzene			5.0	0.40	ug/kg wet	ND		70-130			
o-Xylene			5.0	0.25	ug/kg wet	ND		70-130			
sec-Butylbenzene			5.0	0.44	ug/kg wet	ND		74-120			
Styrene			5.0	0.25	ug/kg wet	ND		80-120			
tert-Butylbenzene			5.0	0.52	ug/kg wet	ND		73-120			
Tetrachloroethene			5.0	0.67	ug/kg wet	ND		74-122			
Toluene		50	NA		ug/kg wet	45.8	92	74-128			
trans-1,2-Dichloroethene			5.0	0.52	ug/kg wet	ND		78-126			
trans-1,3-Dichloropropene			5.0	0.24	ug/kg wet	ND		73-123			
trans-1,4-Dichloro-2-butene			25	1.4	ug/kg wet	ND		38-155			
Trichloroethene		50	NA		ug/kg wet	45.0	90	77-129			
Trichlorofluoromethane			5.0	1.6	ug/kg wet	ND		65-146			
Vinyl acetate			25	1.0	ug/kg wet	ND		53-134			
Vinyl chloride			10	0.20	ug/kg wet	ND		61-133			
Xylenes, total			10	0.84	ug/kg wet	ND		80-120			
Surrogate: 1,2-Dichloroethane-d4					*ug/kg wet*		*101*	*64-126*			
Surrogate: 4-Bromofluorobenzene					*ug/kg wet*		*112*	*72-126*			
Surrogate: Toluene-d8					*ug/kg wet*		*115*	*71-125*			
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 06/30/09 (Lab Number:9F30049-BLK1, Batch: 9F30049)											
1,1,1-Trichloroethane			95	6.9	ug/kg wet	ND					
1,1,2,2-Tetrachloroethane			95	15	ug/kg wet	ND					
1,1,2-Trichloroethane			95	4.8	ug/kg wet	ND					
1,1,2-Trichlorotrifluoroethane			95	10	ug/kg wet	ND					
1,1-Dichloroethane			95	11	ug/kg wet	ND					

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Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 06/30/09 (Lab Number:9F30049-BLK1, Batch: 9F30049)											
1,1-Dichloroethene			95	12	ug/kg wet	ND					
1,2,4-Trichlorobenzene			95	5.8	ug/kg wet	ND					
1,2,4-Trimethylbenzene			95	6.9	ug/kg wet	ND					
1,2-Dibromo-3-chloropropane			95	19	ug/kg wet	ND					
1,2-Dibromoethane (EDB)			95	3.6	ug/kg wet	ND					
1,2-Dichlorobenzene			95	14	ug/kg wet	ND					
1,2-Dichloroethane			95	4.8	ug/kg wet	ND					
1,2-Dichloropropane			95	4.9	ug/kg wet	ND					
1,3,5-Trimethylbenzene			95	6.1	ug/kg wet	ND					
1,3-Dichlorobenzene			95	14	ug/kg wet	ND					
1,4-Dichlorobenzene			95	13	ug/kg wet	ND					
2-Butanone (MEK)			480	130	ug/kg wet	240					J
2-Hexanone			480	120	ug/kg wet	ND					
4-Isopropyltoluene			95	7.7	ug/kg wet	ND					
4-Methyl-2-pentanone (MIBK)			480	150	ug/kg wet	ND					
Acetone			480	21	ug/kg wet	ND					
Benzene			95	10	ug/kg wet	ND					
Bromodichloromethane			95	4.9	ug/kg wet	ND					
Bromoform			95	8.0	ug/kg wet	ND					
Bromomethane			95	8.7	ug/kg wet	ND					
Carbon disulfide			95	8.2	ug/kg wet	ND					
Carbon Tetrachloride			95	13	ug/kg wet	ND					
Chlorobenzene			95	9.8	ug/kg wet	ND					
Chlorodibromomethane			95	5.3	ug/kg wet	ND					
Chloroethane			95	15	ug/kg wet	ND					
Chloroform			95	5.9	ug/kg wet	ND					
Chloromethane			95	5.8	ug/kg wet	ND					
cis-1,2-Dichloroethene			95	4.7	ug/kg wet	ND					
cis-1,3-Dichloropropene			95	5.5	ug/kg wet	ND					
Cyclohexane			95	4.4	ug/kg wet	ND					
Dichlorodifluoromethane			95	7.9	ug/kg wet	ND					
Ethylbenzene			95	6.6	ug/kg wet	ND					
Isopropylbenzene			95	6.3	ug/kg wet	ND					
Methyl Acetate			95	24	ug/kg wet	ND					
Methyl tert-Butyl Ether			95	9.4	ug/kg wet	ND					
Methylcyclohexane			95	6.2	ug/kg wet	ND					

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
Project Number: TURN-0016

Received: 06/26/09
Reported: 07/27/09 11:46

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 06/30/09 (Lab Number:9F30049-BLK1, Batch: 9F30049)											
Methylene Chloride			95	42	ug/kg wet	ND					
m-Xylene & p-Xylene			190	8.2	ug/kg wet	ND					
Naphthalene			95	13	ug/kg wet	ND					
n-Butylbenzene			95	8.3	ug/kg wet	ND					
n-Propylbenzene			95	7.3	ug/kg wet	ND					
o-Xylene			95	4.8	ug/kg wet	ND					
sec-Butylbenzene			95	8.3	ug/kg wet	ND					
Styrene			95	4.8	ug/kg wet	ND					
Tetrachloroethene			95	13	ug/kg wet	ND					
Toluene			95	16	ug/kg wet	ND					
trans-1,2-Dichloroethene			95	9.8	ug/kg wet	ND					
trans-1,3-Dichloropropene			95	12	ug/kg wet	ND					
Trichloroethene			95	30	ug/kg wet	ND					
Trichlorofluoromethane			95	30	ug/kg wet	ND					
Vinyl chloride			190	3.9	ug/kg wet	ND					
Xylenes, total			190	8.2	ug/kg wet	ND					
Surrogate: 1,2-Dichloroethane-d4					*ug/kg wet*		*126*	*10-190*			
Surrogate: 4-Bromofluorobenzene					*ug/kg wet*		*132*	*10-190*			
Surrogate: Toluene-d8					*ug/kg wet*		*140*	*10-190*			
LCS Analyzed: 06/30/09 (Lab Number:9F30049-BS1, Batch: 9F30049)											
1,1-Dichloroethene		2500	100	12	ug/kg wet	2970	119	10-190			
Benzene		2500	100	11	ug/kg wet	2590	104	10-190			
Chlorobenzene		2500	100	10	ug/kg wet	2560	103	10-190			
Toluene		2500	100	17	ug/kg wet	2600	104	10-190			
Trichloroethene		2500	100	31	ug/kg wet	2600	104	10-190			
Surrogate: 1,2-Dichloroethane-d4					*ug/kg wet*		*129*	*10-190*			
Surrogate: 4-Bromofluorobenzene					*ug/kg wet*		*141*	*10-190*			
Surrogate: Toluene-d8					*ug/kg wet*		*140*	*10-190*			

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1074

Project: Benchmark-350 Franklin St./Olean, NY site
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Received: 06/26/09
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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Tentatively Identified Compounds by EPA 8260B											
Blank Analyzed: 06/29/09 (Lab Number:9F29090-BLK1, Batch: 9F29090)											
No TICs found			NA	NR	ug/kg wet	ND					
Tentatively Identified Compounds by EPA 8260B											
Blank Analyzed: 06/30/09 (Lab Number:9F30049-BLK1, Batch: 9F30049)											
No TICs found			NA	NR	ug/kg wet	ND					

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Benchmark Eng	Project Manager: Mike Lesakowski	Date: 6/24/09	Chain of Custody Number: 099843
Address: 2558 Hamburg Turnpike	Telephone Number (Area Code)/Fax Number: (716) 856-0599	Lab Number	Page 1 of 1
City: Lackawanna / State: NY / Zip Code: 14218	Site Contact: T. Schmidt	Lab Contact: B. Fischer	
Project Name and Location (State): 550 Franklin ST Olean NY	Carrier/Waybill Number		

Contract/Purchase Order/Quote No.

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	H_2SO_4	HNO3	HCl	NaOH	ZnAc/NaOH	TCL+ STARS VOC 8260	8270 STARS	PCB/METALS	T. PCBS	Special Instructions/ Conditions of Receipt
TP-2 (16-18)	6/24/09	940				X							X	X			
TP-10 (3-11)		1500				X							X	X			
TP-8 (12-14)		1426				X							X	X			
TP-12 (2.5-8.5)		1612				X							X	X			
TP-6 (3-11)	↓	1239				X							X	X			
SB-2/MW-2 (16-20)	6/24/09	1530				X							X	X			
TP-4 (4-10)	6/24/09	1052				X									X	X	
TP-5 (5-8)	6/24/09	1127				X									X	X	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

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

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STD

QC Requirements (Specify) Cat B

	Date	Time		Date	Time
1. Relinquished By	6/25/09	900	1. Received By	06/26/09	09:15
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

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

Analytical Report

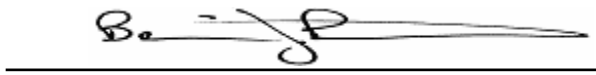
Work Order: RSF1170

Project Description
Benchmark

For:

Project Manager

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218



Brian Fischer

Project Manager

Brian.Fischer@testamericainc.com

Friday, July 24, 2009

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1170

Project: Benchmark
Project Number: TURN-0016

Received: 06/30/09
Reported: 07/24/09 16:02

TestAmerica Buffalo
Current Certifications

As of 1/27/2009

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

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

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
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Work Order: RSF1170

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Case Narrative

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

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

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

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1170

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Received: 06/30/09
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DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
D02	Dilution required due to sample matrix effects
D03	Dilution required due to excessive foaming
D08	Dilution required due to high concentration of target analyte(s)
E	Concentration exceeds the calibration range and therefore result is semi-quantitative.
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

TIC Analyzed by MS T.I.C. (Tentatively Identified Compound)

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1170

Project: Benchmark
Project Number: TURN-0016

Received: 06/30/09
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Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1170-01 (MW-1 - Water)					**Sampled: 06/29/09 14:22**		**Recvd: 06/30/09 10:15**			
Volatile Organic Compounds by EPA 8260B										
Carbon disulfide	**27**	D03	10	1.9	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Sample ID: RSF1170-02 (MW-2 - Water)					**Sampled: 06/29/09 14:00**		**Recvd: 06/30/09 10:15**			
Semivolatile Organics by GC/MS										
Fluorene	**50**	D02,J	97	17	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Phenanthrene	**87**	D02,J	97	14	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Volatile Organic Compounds by EPA 8260B										
Acetone	**24**	D03,J	50	13	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Carbon disulfide	**29**	D03	10	1.9	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Methylcyclohexane	**3400**	D03,E	10	5.0	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
sec-Butylbenzene	**43**	D03	10	3.0	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Sample ID: RSF1170-02RE1 (MW-2 - Water)					**Sampled: 06/29/09 14:00**		**Recvd: 06/30/09 10:15**			
Volatile Organic Compounds by EPA 8260B										
Acetone	**200**	D08,J	500	130	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Methylcyclohexane	**5200**	D08	100	50	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
sec-Butylbenzene	**140**	D08	100	30	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Sample ID: RSF1170-03 (MW-3 - Water)					**Sampled: 06/29/09 13:58**		**Recvd: 06/30/09 10:15**			
Semivolatile Organics by GC/MS										
Phenanthrene	**7.1**	D02,J	19	2.6	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Volatile Organic Compounds by EPA 8260B										
Methylcyclohexane	**44**	D03	10	5.0	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B

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Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1170

Project: Benchmark
Project Number: TURN-0016

Received: 06/30/09
Reported: 07/24/09 16:02

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
MW-1	RSF1170-01	Water	06/29/09 14:22	06/30/09 10:15	
MW-2	RSF1170-02	Water	06/29/09 14:00	06/30/09 10:15	
MW-3	RSF1170-03	Water	06/29/09 13:58	06/30/09 10:15	
TRIP BLANK	RSF1170-04	Water	06/29/09	06/30/09 10:15	

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1170

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Project Number: TURN-0016

Received: 06/30/09
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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1170-01 (MW-1 - Water)						**Sampled: 06/29/09 14:22**		**Recvd: 06/30/09 10:15**		
Semivolatile Organics by GC/MS										
Acenaphthene	ND	D02	47	6.6	ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Acenaphthylene	ND	D02	47	5.7	ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Anthracene	ND	D02	47	7.1	ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Benzo(a)anthracene	ND	D02	47	7.5	ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Benzo(a)pyrene	ND	D02	47	7.5	ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Benzo(b)fluoranthene	ND	D02	47	14	ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Benzo(ghi)perylene	ND	D02	47	14	ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Benzo(k)fluoranthene	ND	D02	47	6.6	ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Chrysene	ND	D02	47	8.0	ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Dibenzo(a,h)anthracene	ND	D02	47	8.5	ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Fluoranthene	ND	D02	47	9.4	ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Fluorene	ND	D02	47	8.5	ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Indeno(1,2,3-cd)pyrene	ND	D02	47	15	ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Naphthalene	ND	D02	47	6.1	ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Phenanthrene	ND	D02	47	6.6	ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Pyrene	ND	D02	47	9.0	ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
2,4,6-Tribromophenol	*81 %*	*D02*	*Surr Limits: (52-132%)*				*07/03/09 18:05*	*MKP*	*9F30087*	*8270C*
2-Fluorobiphenyl	*76 %*	*D02*	*Surr Limits: (48-120%)*				*07/03/09 18:05*	*MKP*	*9F30087*	*8270C*
2-Fluorophenol	*30 %*	*D02*	*Surr Limits: (20-120%)*				*07/03/09 18:05*	*MKP*	*9F30087*	*8270C*
Nitrobenzene-d5	*70 %*	*D02*	*Surr Limits: (46-120%)*				*07/03/09 18:05*	*MKP*	*9F30087*	*8270C*
Phenol-d5	*23 %*	*D02*	*Surr Limits: (16-120%)*				*07/03/09 18:05*	*MKP*	*9F30087*	*8270C*
p-Terphenyl-d14	*46 %*	*D02*	*Surr Limits: (24-136%)*				*07/03/09 18:05*	*MKP*	*9F30087*	*8270C*
Semivolatile Organics TICs by GC/MS										
Hexadecane, 2,6,10,14-tetramethyl- (000638-36-8)	**170**		Ret Time: 11.718		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Pentadecane, 2,6,10,14-tetramethyl- (001921-70-6)	**240**		Ret Time: 11.226		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Pentadecane, 2,6,10-trimethyl- (003892-00-0)	**120**		Ret Time: 10.933		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Tridecane, 7-methyl- (026730-14-3)	**350**		Ret Time: 8.475		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Unknown Silane (none)	**80**		Ret Time: 9.51		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Unknown1 (none)	**83**	B	Ret Time: 6.381		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Unknown10 (none)	**130**		Ret Time: 9.426		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Unknown11 (none)	**99**		Ret Time: 9.469		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Unknown12 (none)	**95**		Ret Time: 9.661		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
UNKNOWN13 (none)	**97**		Ret Time: 9.725		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Unknown14 (none)	**80**		Ret Time: 9.768		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Unknown15 (none)	**140**		Ret Time: 9.827		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Unknown2 (none)	**74**	B	Ret Time: 6.424		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Unknown3 (none)	**82**	B	Ret Time: 7.407		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Unknown4 (none)	**120**	B	Ret Time: 7.936		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Unknown5 (none)	**76**	B	Ret Time: 8.673		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Unknown6 (none)	**150**	B	Ret Time: 8.801		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Unknown7 (none)	**200**	B	Ret Time: 8.945		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1170

Project: Benchmark
Project Number: TURN-0016

Received: 06/30/09
Reported: 07/24/09 16:02

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1170-01 (MW-1 - Water) - cont.						**Sampled: 06/29/09 14:22**		**Recvd: 06/30/09 10:15**		
Semivolatile Organics TICs by GC/MS - cont.										
Unknown8 (none)	**88**		Ret Time: 9.164		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Unknown9 (none)	**87**		Ret Time: 9.373		ug/L	5.00	07/03/09 18:05	MKP	9F30087	8270C
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND	D03	10	2.6	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1,1,2,2-Tetrachloroethane	ND	D03	10	2.1	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1,1,2-Trichloroethane	ND	D03	10	2.3	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	D03	10	3.1	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1,1-Dichloroethane	ND	D03	10	7.5	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1,1-Dichloroethene	ND	D03	10	2.9	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1,2,4-Trichlorobenzene	ND	D03	10	4.1	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1,2,4-Trimethylbenzene	ND	D03	10	3.3	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1,2-Dibromo-3-chloropropane	ND	D03	10	10	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1,2-Dibromoethane	ND	D03	10	1.7	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1,2-Dichlorobenzene	ND	D03	10	2.0	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1,2-Dichloroethane	ND	D03	10	2.1	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1,2-Dichloropropane	ND	D03	10	1.4	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1,3,5-Trimethylbenzene	ND	D03	10	2.2	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1,3-Dichlorobenzene	ND	D03	10	1.6	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1,4-Dichlorobenzene	ND	D03	10	1.6	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
2-Butanone	ND	D03	50	13	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
2-Hexanone	ND	D03	50	12	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
p-Cymene	ND	D03	10	3.1	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
4-Methyl-2-pentanone	ND	D03	50	9.1	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Acetone	ND	D03	50	13	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Benzene	ND	D03	10	1.6	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Bromodichloromethane	ND	D03	10	3.9	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Bromoform	ND	D03	10	2.6	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Bromomethane	ND	D03	10	2.8	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Carbon disulfide	**27**	D03	10	1.9	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Carbon Tetrachloride	ND	D03	10	2.7	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Chlorobenzene	ND	D03	10	3.2	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Dibromochloromethane	ND	D03	10	3.2	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Chloroethane	ND	D03	10	3.2	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Chloroform	ND	D03	10	3.4	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Chloromethane	ND	D03	10	3.5	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
cis-1,2-Dichloroethene	ND	D03	10	1.6	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
cis-1,3-Dichloropropene	ND	D03	10	3.6	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Cyclohexane	ND	D03	10	5.3	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Dichlorofluoromethane	ND	D03	10	5.4	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Ethylbenzene	ND	D03	10	1.8	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Isopropylbenzene	ND	D03	10	1.9	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Methyl Acetate	ND	D03	10	1.7	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Methyl-t-Butyl Ether (MTBE)	ND	D03	10	1.6	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Methylcyclohexane	ND	D03	10	5.0	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Methylene Chloride	ND	D03	10	4.4	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
m-Xylene & p-Xylene	ND	D03	20	6.6	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Naphthalene	ND	D03	10	4.3	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1170

Project: Benchmark
Project Number: TURN-0016

Received: 06/30/09
Reported: 07/24/09 16:02

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1170-01 (MW-1 - Water) - cont.						**Sampled: 06/29/09 14:22**		**Recvd: 06/30/09 10:15**		
Volatile Organic Compounds by EPA 8260B - cont.										
n-Butylbenzene	ND	D03	10	2.8	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
n-Propylbenzene	ND	D03	10	1.8	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
o-Xylene	ND	D03	10	1.4	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
sec-Butylbenzene	ND	D03	10	3.0	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Styrene	ND	D03	10	1.8	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Tetrachloroethene	ND	D03	10	3.6	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Toluene	ND	D03	10	5.1	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
trans-1,2-Dichloroethene	ND	D03	10	1.3	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
trans-1,3-Dichloropropene	ND	D03	10	3.7	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Trichloroethene	ND	D03	10	1.8	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Trichlorofluoromethane	ND	D03	10	1.5	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Vinyl chloride	ND	D03	10	2.4	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Xylenes, total	ND	D03	20	6.6	ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1,2-Dichloroethane-d4	*117 %*	*D03*	*Surr Limits: (66-137%)*				*07/07/09 02:24*	*MF*	*9G06097*	*8260B*
4-Bromofluorobenzene	*102 %*	*D03*	*Surr Limits: (73-120%)*				*07/07/09 02:24*	*MF*	*9G06097*	*8260B*
Toluene-d8	*114 %*	*D03*	*Surr Limits: (71-126%)*				*07/07/09 02:24*	*MF*	*9G06097*	*8260B*
Tentatively Identified Compounds by EPA 8260B										
1H-Indene, 2,3-dihydro-1,1-dimethyl- (004912-92-9)	**40**		Ret Time: 12.329		ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
1H-Indene, 2,3-dihydro-4,7-dimethyl- (006682-71-9)	**32**		Ret Time: 12.925		ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Ethanone, 1-(1-methylcyclohexyl)- (002890-62-2)	**50**		Ret Time: 13.557		ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Naphthalene, 1,2,3,4-tetrahydro-2,6-dimethyl- (007524-63-2)	**40**		Ret Time: 13.351		ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Naphthalene, 1,2,3,4-tetrahydro-2-methyl- (003877-19-8)	**44**		Ret Time: 12.536		ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Naphthalene, 1,2,3,4-tetrahydro-5-methyl- (002809-64-5)	**56**		Ret Time: 13.217		ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Unknown01 (none)	**32**		Ret Time: 12.012		ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Unknown02 (none)	**34**		Ret Time: 12.231		ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Unknown03 (none)	**49**		Ret Time: 12.481		ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B
Unknown04 (none)	**33**		Ret Time: 13.302		ug/L	10.0	07/07/09 02:24	MF	9G06097	8260B

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1170

Project: Benchmark
Project Number: TURN-0016

Received: 06/30/09
Reported: 07/24/09 16:02

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1170-02 (MW-2 - Water)						**Sampled: 06/29/09 14:00**		**Recvd: 06/30/09 10:15**		
Semivolatile Organics by GC/MS										
Acenaphthene	ND	D02	97	14	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Acenaphthylene	ND	D02	97	12	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Anthracene	ND	D02	97	15	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Benzo(a)anthracene	ND	D02	97	16	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Benzo(a)pyrene	ND	D02	97	16	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Benzo(b)fluoranthene	ND	D02	97	29	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Benzo(ghi)perylene	ND	D02	97	29	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Benzo(k)fluoranthene	ND	D02	97	14	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Chrysene	ND	D02	97	17	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Dibenzo(a,h)anthracene	ND	D02	97	17	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Fluoranthene	ND	D02	97	19	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Fluorene	**50**	D02,J	97	17	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Indeno(1,2,3-cd)pyrene	ND	D02	97	31	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Naphthalene	ND	D02	97	13	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Phenanthrene	**87**	D02,J	97	14	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Pyrene	ND	D02	97	18	ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
2,4,6-Tribromophenol	*97 %*	*D02*	*Surr Limits: (52-132%)*				*07/03/09 18:30*	*MKP*	*9F30087*	*8270C*
2-Fluorobiphenyl	*79 %*	*D02*	*Surr Limits: (48-120%)*				*07/03/09 18:30*	*MKP*	*9F30087*	*8270C*
2-Fluorophenol	*29 %*	*D02*	*Surr Limits: (20-120%)*				*07/03/09 18:30*	*MKP*	*9F30087*	*8270C*
Nitrobenzene-d5	*258 %*	*D02,ZX*	*Surr Limits: (46-120%)*				*07/03/09 18:30*	*MKP*	*9F30087*	*8270C*
Phenol-d5	*31 %*	*D02*	*Surr Limits: (16-120%)*				*07/03/09 18:30*	*MKP*	*9F30087*	*8270C*
p-Terphenyl-d14	*51 %*	*D02*	*Surr Limits: (24-136%)*				*07/03/09 18:30*	*MKP*	*9F30087*	*8270C*
Semivolatile Organics TICs by GC/MS										
Cyclohexane, 1-methyl-3-propyl- (004291-80-9)	**480**		Ret Time: 5.89		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Naphthalene, decahydro-, trans- (000493-02-7)	**400**		Ret Time: 6.728		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Octadecane (593-45-3)	**780**		Ret Time: 12.076		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Pentadecane, 2,6,10,14-tetramethyl- (001921-70-6)	**4200**		Ret Time: 11.237		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Tridecane (000629-50-5)	**1000**		Ret Time: 9.837		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Tridecane, 7-hexyl- (007225-66-3)	**2500**		Ret Time: 11.723		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Tridecane, 7-methyl- (026730-14-3)	**1100**		Ret Time: 8.486		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Trimethylpentadecane derivative (NA)	**770**		Ret Time: 10.94		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Undecane, 2,6-dimethyl- (017301-23-4)	**460**		Ret Time: 8.016		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Unknown Alkane (none)	**590**		Ret Time: 11.46		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Unknown1 (none)	**680**	B	Ret Time: 5.505		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Unknown10 (none)	**530**		Ret Time: 12.77		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Unknown2 (none)	**440**	B	Ret Time: 6.386		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Unknown3 (none)	**420**	B	Ret Time: 6.424		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Unknown4 (none)	**360**	B	Ret Time: 6.541		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Unknown5 (none)	**430**	B	Ret Time: 6.985		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Unknown6 (none)	**370**	B	Ret Time: 8.956		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1170

Project: Benchmark
Project Number: TURN-0016

Received: 06/30/09
Reported: 07/24/09 16:02

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1170-02 (MW-2 - Water) - cont.						**Sampled: 06/29/09 14:00**		**Recvd: 06/30/09 10:15**		
Semivolatile Organics TICs by GC/MS - cont.										
Unknown7 (none)	**410**	B	Ret Time: 9.084		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Unknown8 (none)	**400**		Ret Time: 9.437		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Unknown9 (none)	**390**		Ret Time: 11.424		ug/L	10.0	07/03/09 18:30	MKP	9F30087	8270C
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND	D03	10	2.6	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
1,1,2,2-Tetrachloroethane	ND	D03	10	2.1	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
1,1,2-Trichloroethane	ND	D03	10	2.3	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	D03	10	3.1	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
1,1-Dichloroethane	ND	D03	10	7.5	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
1,1-Dichloroethene	ND	D03	10	2.9	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
1,2,4-Trichlorobenzene	ND	D03	10	4.1	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
1,2,4-Trimethylbenzene	ND	D03	10	3.3	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
1,2-Dibromo-3-chloropropane	ND	D03	10	10	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
1,2-Dibromoethane	ND	D03	10	1.7	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
1,2-Dichlorobenzene	ND	D03	10	2.0	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
1,2-Dichloroethane	ND	D03	10	2.1	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
1,2-Dichloropropane	ND	D03	10	1.4	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
1,3,5-Trimethylbenzene	ND	D03	10	2.2	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
1,3-Dichlorobenzene	ND	D03	10	1.6	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
1,4-Dichlorobenzene	ND	D03	10	1.6	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
2-Butanone	ND	D03	50	13	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
2-Hexanone	ND	D03	50	12	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
p-Cymene	ND	D03	10	3.1	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
4-Methyl-2-pentanone	ND	D03	50	9.1	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Acetone	**24**	D03,J	50	13	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Benzene	ND	D03	10	1.6	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Bromodichloromethane	ND	D03	10	3.9	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Bromoform	ND	D03	10	2.6	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Bromomethane	ND	D03	10	2.8	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Carbon disulfide	**29**	D03	10	1.9	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Carbon Tetrachloride	ND	D03	10	2.7	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Chlorobenzene	ND	D03	10	3.2	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Dibromochloromethane	ND	D03	10	3.2	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Chloroethane	ND	D03	10	3.2	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Chloroform	ND	D03	10	3.4	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Chloromethane	ND	D03	10	3.5	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
cis-1,2-Dichloroethene	ND	D03	10	1.6	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
cis-1,3-Dichloropropene	ND	D03	10	3.6	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Cyclohexane	ND	D03	10	5.3	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Dichlorofluoromethane	ND	D03	10	5.4	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Ethylbenzene	ND	D03	10	1.8	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Isopropylbenzene	ND	D03	10	1.9	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Methyl Acetate	ND	D03	10	1.7	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Methyl-t-Butyl Ether (MTBE)	ND	D03	10	1.6	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Methylcyclohexane	**3400**	D03,E	10	5.0	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Methylene Chloride	ND	D03	10	4.4	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
m-Xylene & p-Xylene	ND	D03	20	6.6	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1170

Project: Benchmark
Project Number: TURN-0016

Received: 06/30/09
Reported: 07/24/09 16:02

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1170-02 (MW-2 - Water) - cont.						**Sampled: 06/29/09 14:00**		**Recvd: 06/30/09 10:15**		
Volatile Organic Compounds by EPA 8260B - cont.										
Naphthalene	ND	D03	10	4.3	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
n-Butylbenzene	ND	D03	10	2.8	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
n-Propylbenzene	ND	D03	10	1.8	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
o-Xylene	ND	D03	10	1.4	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
sec-Butylbenzene	**43**	D03	10	3.0	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Styrene	ND	D03	10	1.8	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Tetrachloroethene	ND	D03	10	3.6	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Toluene	ND	D03	10	5.1	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
trans-1,2-Dichloroethene	ND	D03	10	1.3	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
trans-1,3-Dichloropropene	ND	D03	10	3.7	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Trichloroethene	ND	D03	10	1.8	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Trichlorofluoromethane	ND	D03	10	1.5	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Vinyl chloride	ND	D03	10	2.4	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Xylenes, total	ND	D03	20	6.6	ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
1,2-Dichloroethane-d4	*125 %*	*D03*	*Surr Limits: (66-137%)*				*07/07/09 02:48*	*MF*	*9G06097*	*8260B*
4-Bromofluorobenzene	*106 %*	*D03*	*Surr Limits: (73-120%)*				*07/07/09 02:48*	*MF*	*9G06097*	*8260B*
Toluene-d8	*114 %*	*D03*	*Surr Limits: (71-126%)*				*07/07/09 02:48*	*MF*	*9G06097*	*8260B*
Tentatively Identified Compounds by EPA 8260B										
Cyclohexane, 1,3-dimethyl-, cis- (000638-04-0)	**2600**		Ret Time: 6.47		ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Cyclopentane, 1,1-ethylidenebis- (004413-21-2)	**1100**		Ret Time: 12.767		ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Dodecane, 2,7,10-trimethyl- (074645-98-0)	**1300**		Ret Time: 13.302		ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Naphthalene, decahydro-2-methyl- (002958-76-1)	**1300**		Ret Time: 11.337		ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Octane, 2,6-dimethyl- (002051-30-1)	**1900**		Ret Time: 12.487		ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Unknown01 (none)	**1500**		Ret Time: 9.123		ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Unknown02 (none)	**1100**		Ret Time: 9.378		ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Unknown03 (none)	**1100**		Ret Time: 9.652		ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Unknown04 (none)	**1700**		Ret Time: 11.885		ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B
Unknown05 (none)	**1000**		Ret Time: 12.232		ug/L	10.0	07/07/09 02:48	MF	9G06097	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1170

Project: Benchmark
Project Number: TURN-0016

Received: 06/30/09
Reported: 07/24/09 16:02

Analytical Report

Sample ID: RSF1170-02RE1 (MW-2 - Water) **Sampled: 06/29/09 14:00** **Recvd: 06/30/09 10:15**

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND	D08	100	26	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
1,1,2,2-Tetrachloroethane	ND	D08	100	21	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
1,1,2-Trichloroethane	ND	D08	100	23	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	D08	100	31	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
1,1-Dichloroethane	ND	D08	100	75	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
1,1-Dichloroethene	ND	D08	100	29	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
1,2,4-Trichlorobenzene	ND	D08	100	41	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
1,2,4-Trimethylbenzene	ND	D08	100	33	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
1,2-Dibromo-3-chloropropane	ND	D08	100	100	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
1,2-Dibromoethane	ND	D08	100	17	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
1,2-Dichlorobenzene	ND	D08	100	20	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
1,2-Dichloroethane	ND	D08	100	21	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
1,2-Dichloropropane	ND	D08	100	14	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
1,3,5-Trimethylbenzene	ND	D08	100	22	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
1,3-Dichlorobenzene	ND	D08	100	16	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
1,4-Dichlorobenzene	ND	D08	100	16	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
2-Butanone	ND	D08	500	130	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
2-Hexanone	ND	D08	500	120	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
p-Cymene	ND	D08	100	31	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
4-Methyl-2-pentanone	ND	D08	500	91	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Acetone	**200**	D08,J	500	130	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Benzene	ND	D08	100	16	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Bromodichloromethane	ND	D08	100	39	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Bromoform	ND	D08	100	26	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Bromomethane	ND	D08	100	28	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Carbon disulfide	ND	D08	100	19	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Carbon Tetrachloride	ND	D08	100	27	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Chlorobenzene	ND	D08	100	32	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Dibromochloromethane	ND	D08	100	32	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Chloroethane	ND	D08	100	32	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Chloroform	ND	D08	100	34	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Chloromethane	ND	D08	100	35	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
cis-1,2-Dichloroethene	ND	D08	100	16	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
cis-1,3-Dichloropropene	ND	D08	100	36	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Cyclohexane	ND	D08	100	53	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Dichlorofluoromethane	ND	D08	100	54	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Ethylbenzene	ND	D08	100	18	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Isopropylbenzene	ND	D08	100	19	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Methyl Acetate	ND	D08	100	17	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Methyl-t-Butyl Ether (MTBE)	ND	D08	100	16	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Methylcyclohexane	**5200**	D08	100	50	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Methylene Chloride	ND	D08	100	44	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
m-Xylene & p-Xylene	ND	D08	200	66	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Naphthalene	ND	D08	100	43	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
n-Butylbenzene	ND	D08	100	28	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
n-Propylbenzene	ND	D08	100	18	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
o-Xylene	ND	D08	100	14	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
sec-Butylbenzene	**140**	D08	100	30	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Styrene	ND	D08	100	18	ug/L	100	07/08/09 23:04	MF	9G08094	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1170

Project: Benchmark
Project Number: TURN-0016

Received: 06/30/09
Reported: 07/24/09 16:02

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1170-02RE1 (MW-2 - Water) - cont.						**Sampled: 06/29/09 14:00**		**Recvd: 06/30/09 10:15**		
Volatile Organic Compounds by EPA 8260B - cont.										
Tetrachloroethene	ND	D08	100	36	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Toluene	ND	D08	100	51	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
trans-1,2-Dichloroethene	ND	D08	100	13	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
trans-1,3-Dichloropropene	ND	D08	100	37	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Trichloroethene	ND	D08	100	18	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Trichlorofluoromethane	ND	D08	100	15	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Vinyl chloride	ND	D08	100	24	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Xylenes, total	ND	D08	200	66	ug/L	100	07/08/09 23:04	MF	9G08094	8260B
1,2-Dichloroethane-d4	*117 %*	*D08*	*Surr Limits: (66-137%)*				*07/08/09 23:04*	*MF*	*9G08094*	*8260B*
4-Bromofluorobenzene	*103 %*	*D08*	*Surr Limits: (73-120%)*				*07/08/09 23:04*	*MF*	*9G08094*	*8260B*
Toluene-d8	*114 %*	*D08*	*Surr Limits: (71-126%)*				*07/08/09 23:04*	*MF*	*9G08094*	*8260B*
Tentatively Identified Compounds by EPA 8260B										
Benzene, 1,2,4,5-tetramethyl- (000095-93-2)	**2300**		Ret Time: 11.495		ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Benzene, 1-ethyl-2,3-dimethyl- (000933-98-2)	**2800**		Ret Time: 11.137		ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Benzene, 1-methyl-4-(1-methylpropyl)- (001595-16-0)	**3200**		Ret Time: 12		ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Cyclohexane, 1,3-dimethyl-, cis- (000638-04-0)	**4700**		Ret Time: 6.47		ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Naphthalene, 1,2,3,4-tetrahydro-2-methyl- (003877-19-8)	**1900**		Ret Time: 12.536		ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Naphthalene, 1,2,3,4-tetrahydro-6-methyl- (001680-51-9)	**2000**		Ret Time: 13.217		ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Octane, 2,6-dimethyl- (002051-30-1)	**2500**		Ret Time: 12.481		ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Unknown01 (none)	**2100**		Ret Time: 11.879		ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Unknown02 (none)	**2600**		Ret Time: 11.915		ug/L	100	07/08/09 23:04	MF	9G08094	8260B
Unknown03 (none)	**1900**		Ret Time: 12.329		ug/L	100	07/08/09 23:04	MF	9G08094	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
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Work Order: RSF1170

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1170-03 (MW-3 - Water)						**Sampled: 06/29/09 13:58**		**Recvd: 06/30/09 10:15**		
Semivolatile Organics by GC/MS										
Acenaphthene	ND	D02	19	2.6	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Acenaphthylene	ND	D02	19	2.3	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Anthracene	ND	D02	19	2.8	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Benzo(a)anthracene	ND	D02	19	3.0	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Benzo(a)pyrene	ND	D02	19	3.0	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Benzo(b)fluoranthene	ND	D02	19	5.7	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Benzo(ghi)perylene	ND	D02	19	5.7	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Benzo(k)fluoranthene	ND	D02	19	2.6	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Chrysene	ND	D02	19	3.2	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Dibenzo(a,h)anthracene	ND	D02	19	3.4	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Fluoranthene	ND	D02	19	3.8	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Fluorene	ND	D02	19	3.4	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Indeno(1,2,3-cd)pyrene	ND	D02	19	6.0	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Naphthalene	ND	D02	19	2.5	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Phenanthrene	**7.1**	D02,J	19	2.6	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Pyrene	ND	D02	19	3.6	ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
2,4,6-Tribromophenol	*99 %*	*D02*	*Surr Limits: (52-132%)*				*07/03/09 18:55*	*MKP*	*9F30087*	*8270C*
2-Fluorobiphenyl	*84 %*	*D02*	*Surr Limits: (48-120%)*				*07/03/09 18:55*	*MKP*	*9F30087*	*8270C*
2-Fluorophenol	*39 %*	*D02*	*Surr Limits: (20-120%)*				*07/03/09 18:55*	*MKP*	*9F30087*	*8270C*
Nitrobenzene-d5	*91 %*	*D02*	*Surr Limits: (46-120%)*				*07/03/09 18:55*	*MKP*	*9F30087*	*8270C*
Phenol-d5	*27 %*	*D02*	*Surr Limits: (16-120%)*				*07/03/09 18:55*	*MKP*	*9F30087*	*8270C*
p-Terphenyl-d14	*48 %*	*D02*	*Surr Limits: (24-136%)*				*07/03/09 18:55*	*MKP*	*9F30087*	*8270C*
Semivolatile Organics TICs by GC/MS										
1-Methyldecahydronaphthalene (002958-75-0)	**42**		Ret Time: 7.412		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
2-Bromo dodecane (013187-99-0)	**100**		Ret Time: 10.938		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Cyclohexane, 1-methyl-3-propyl- (004291-80-9)	**43**		Ret Time: 5.884		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Heptylcyclohexane (005617-41-4)	**49**		Ret Time: 9.079		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Hexadecane, 2,6,10,14-tetramethyl- (000638-36-8)	**190**		Ret Time: 11.718		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Hexadecane, 2,6,11,15-tetramethyl- (000504-44-9)	**130**		Ret Time: 8.475		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Naphthalene, decahydro-, trans- (000493-02-7)	**51**		Ret Time: 6.728		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Nonadecane (000629-92-5)	**42**		Ret Time: 12.562		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Pentadecane, 2,6,10,14-tetramethyl- (001921-70-6)	**280**		Ret Time: 11.232		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Tetradecane, 2,6,10-trimethyl- (014905-56-7)	**46**		Ret Time: 10.404		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Unknown1 (none)	**66**	B	Ret Time: 4.992		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Unknown10 (none)	**45**		Ret Time: 12.765		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Unknown2 (none)	**89**	B	Ret Time: 5.5		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Unknown3 (none)	**56**	B	Ret Time: 6.386		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
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Work Order: RSF1170

Project: Benchmark
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Received: 06/30/09
Reported: 07/24/09 16:02

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1170-03 (MW-3 - Water) - cont.						**Sampled: 06/29/09 13:58**		**Recvd: 06/30/09 10:15**		
Semivolatile Organics TICs by GC/MS - cont.										
Unknown4 (none)	**61**	B	Ret Time: 6.424		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Unknown5 (none)	**52**	B	Ret Time: 7.263		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Unknown6 (none)	**55**	B	Ret Time: 7.936		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Unknown7 (none)	**67**	B	Ret Time: 8.945		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Unknown8 (none)	**150**		Ret Time: 9.827		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Unknown9 (none)	**54**		Ret Time: 10.473		ug/L	2.00	07/03/09 18:55	MKP	9F30087	8270C
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND	D03	10	2.6	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
1,1,2,2-Tetrachloroethane	ND	D03	10	2.1	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
1,1,2-Trichloroethane	ND	D03	10	2.3	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	D03	10	3.1	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
1,1-Dichloroethane	ND	D03	10	7.5	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
1,1-Dichloroethene	ND	D03	10	2.9	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
1,2,4-Trichlorobenzene	ND	D03	10	4.1	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
1,2,4-Trimethylbenzene	ND	D03	10	3.3	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
1,2-Dibromo-3-chloropropane	ND	D03	10	10	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
1,2-Dibromoethane	ND	D03	10	1.7	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
1,2-Dichlorobenzene	ND	D03	10	2.0	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
1,2-Dichloroethane	ND	D03	10	2.1	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
1,2-Dichloropropane	ND	D03	10	1.4	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
1,3,5-Trimethylbenzene	ND	D03	10	2.2	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
1,3-Dichlorobenzene	ND	D03	10	1.6	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
1,4-Dichlorobenzene	ND	D03	10	1.6	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
2-Butanone	ND	D03	50	13	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
2-Hexanone	ND	D03	50	12	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
p-Cymene	ND	D03	10	3.1	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
4-Methyl-2-pentanone	ND	D03	50	9.1	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Acetone	ND	D03	50	13	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Benzene	ND	D03	10	1.6	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Bromodichloromethane	ND	D03	10	3.9	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Bromoform	ND	D03	10	2.6	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Bromomethane	ND	D03	10	2.8	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Carbon disulfide	ND	D03	10	1.9	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Carbon Tetrachloride	ND	D03	10	2.7	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Chlorobenzene	ND	D03	10	3.2	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Dibromochloromethane	ND	D03	10	3.2	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Chloroethane	ND	D03	10	3.2	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Chloroform	ND	D03	10	3.4	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Chloromethane	ND	D03	10	3.5	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
cis-1,2-Dichloroethene	ND	D03	10	1.6	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
cis-1,3-Dichloropropene	ND	D03	10	3.6	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Cyclohexane	ND	D03	10	5.3	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Dichlorofluoromethane	ND	D03	10	5.4	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Ethylbenzene	ND	D03	10	1.8	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Isopropylbenzene	ND	D03	10	1.9	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Methyl Acetate	ND	D03	10	1.7	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1170

Project: Benchmark
Project Number: TURN-0016

Received: 06/30/09
Reported: 07/24/09 16:02

Analytical Report

Sample ID: RSF1170-03 (MW-3 - Water) - cont. **Sampled: 06/29/09 13:58** **Recvd: 06/30/09 10:15**

Volatile Organic Compounds by EPA 8260B - cont.

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Methyl-t-Butyl Ether (MTBE)	ND	D03	10	1.6	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Methylcyclohexane	**44**	D03	10	5.0	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Methylene Chloride	ND	D03	10	4.4	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
m-Xylene & p-Xylene	ND	D03	20	6.6	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Naphthalene	ND	D03	10	4.3	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
n-Butylbenzene	ND	D03	10	2.8	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
n-Propylbenzene	ND	D03	10	1.8	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
o-Xylene	ND	D03	10	1.4	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
sec-Butylbenzene	ND	D03	10	3.0	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Styrene	ND	D03	10	1.8	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Tetrachloroethene	ND	D03	10	3.6	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Toluene	ND	D03	10	5.1	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
trans-1,2-Dichloroethene	ND	D03	10	1.3	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
trans-1,3-Dichloropropene	ND	D03	10	3.7	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Trichloroethene	ND	D03	10	1.8	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Trichlorofluoromethane	ND	D03	10	1.5	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Vinyl chloride	ND	D03	10	2.4	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Xylenes, total	ND	D03	20	6.6	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
1,2-Dichloroethane-d4	*114 %*	*D03*	*Surr Limits: (66-137%)*				*07/07/09 03:12*	*MF*	*9G06097*	*8260B*
4-Bromofluorobenzene	*103 %*	*D03*	*Surr Limits: (73-120%)*				*07/07/09 03:12*	*MF*	*9G06097*	*8260B*
Toluene-d8	*114 %*	*D03*	*Surr Limits: (71-126%)*				*07/07/09 03:12*	*MF*	*9G06097*	*8260B*

Tentatively Identified Compounds by EPA 8260B

Cyclohexane, 1,2-dimethyl-, trans- (006876-23-9)	**170**	Ret Time: 6.823	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Cyclohexane, 1,3-dimethyl-, cis- (000638-04-0)	**190**	Ret Time: 6.471	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Cyclohexane, 1,4-dimethyl-, trans- (002207-04-7)	**88**	Ret Time: 6.945	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Cyclopentane, 1,2,4-trimethyl- (002815-58-9)	**110**	Ret Time: 5.771	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Heptane, 3-ethyl-5-methyl- (052896-90-9)	**89**	Ret Time: 12.481	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Naphthalene, 1,2,3,4-tetrahydro-6-methyl- (001680-51-9)	**97**	Ret Time: 13.211	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Pentadecane, 7-methyl- (006165-40-8)	**92**	Ret Time: 13.899	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Unknown01 (none)	**86**	Ret Time: 7.699	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Unknown02 (none)	**100**	Ret Time: 8.253	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B
Unknown03 (none)	**100**	Ret Time: 9.117	ug/L	10.0	07/07/09 03:12	MF	9G06097	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1170

Project: Benchmark
Project Number: TURN-0016

Received: 06/30/09
Reported: 07/24/09 16:02

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1170-04 (TRIP BLANK - Water)						**Sampled: 06/29/09**			**Recvd: 06/30/09 10:15**	
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		1.0	0.26	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
1,1-Dichloroethane	ND		1.0	0.75	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
1,1-Dichloroethene	ND		1.0	0.29	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
1,2,4-Trimethylbenzene	ND		1.0	0.33	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
1,2-Dibromo-3-chloropropane	ND		1.0	1.0	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
1,2-Dibromoethane	ND		1.0	0.17	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
1,2-Dichloroethane	ND		1.0	0.21	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
1,2-Dichloropropane	ND		1.0	0.14	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
1,3,5-Trimethylbenzene	ND		1.0	0.22	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
2-Butanone	ND		5.0	1.3	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
2-Hexanone	ND		5.0	1.2	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
p-Cymene	ND		1.0	0.31	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
4-Methyl-2-pentanone	ND		5.0	0.91	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Acetone	ND		5.0	1.3	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Benzene	ND		1.0	0.16	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Bromodichloromethane	ND		1.0	0.39	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Bromoform	ND		1.0	0.26	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Bromomethane	ND		1.0	0.28	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Carbon disulfide	ND		1.0	0.19	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Carbon Tetrachloride	ND		1.0	0.27	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Chlorobenzene	ND		1.0	0.32	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Dibromochloromethane	ND		1.0	0.32	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Chloroethane	ND		1.0	0.32	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Chloroform	ND		1.0	0.34	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Chloromethane	ND		1.0	0.35	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Cyclohexane	ND		1.0	0.53	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Dichlorofluoromethane	ND		1.0	0.54	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Ethylbenzene	ND		1.0	0.18	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Isopropylbenzene	ND		1.0	0.19	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Methyl Acetate	ND		1.0	0.17	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.16	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Methylcyclohexane	ND		1.0	0.50	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Methylene Chloride	ND		1.0	0.44	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Naphthalene	ND		1.0	0.43	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
n-Butylbenzene	ND		1.0	0.28	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
n-Propylbenzene	ND		1.0	0.18	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
o-Xylene	ND		1.0	0.14	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
sec-Butylbenzene	ND		1.0	0.30	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Styrene	ND		1.0	0.18	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1170

Project: Benchmark
Project Number: TURN-0016

Received: 06/30/09
Reported: 07/24/09 16:02

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF1170-04 (TRIP BLANK - Water) - cont.						**Sampled: 06/29/09**			**Recvd: 06/30/09 10:15**	
Volatile Organic Compounds by EPA 8260B - cont.										
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Toluene	ND		1.0	0.51	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
trans-1,2-Dichloroethene	ND		1.0	0.13	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Trichloroethene	ND		1.0	0.18	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Trichlorofluoromethane	ND		1.0	0.15	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Vinyl chloride	ND		1.0	0.24	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
Xylenes, total	ND		2.0	0.66	ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B
1,2-Dichloroethane-d4	*115 %*		*Surr Limits: (66-137%)*				*07/07/09 03:37*	*MF*	*9G06097*	*8260B*
4-Bromofluorobenzene	*99 %*		*Surr Limits: (73-120%)*				*07/07/09 03:37*	*MF*	*9G06097*	*8260B*
Toluene-d8	*114 %*		*Surr Limits: (71-126%)*				*07/07/09 03:37*	*MF*	*9G06097*	*8260B*
Tentatively Identified Compounds by EPA 8260B										
No TICs found (NOTICS)	ND				ug/L	1.00	07/07/09 03:37	MF	9G06097	8260B

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Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RSF1170

Project: Benchmark
Project Number: TURN-0016

Received: 06/30/09
Reported: 07/24/09 16:02

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
Semivolatile Organics by GC/MS									
8270C	9F30087	RSF1170-02	1,030.00	mL	1.00	mL	07/01/09 08:00	KB	3510C MB
8270C	9F30087	RSF1170-01	1,060.00	mL	1.00	mL	07/01/09 08:00	KB	3510C MB
8270C	9F30087	RSF1170-03	1,060.00	mL	1.00	mL	07/01/09 08:00	KB	3510C MB
Semivolatile Organics TICs by GC/MS									
8270C	9F30087	RSF1170-02	1,030.00	mL	1.00	mL	07/01/09 08:00	JB	3510C MB
8270C	9F30087	RSF1170-01	1,060.00	mL	1.00	mL	07/01/09 08:00	JB	3510C MB
8270C	9F30087	RSF1170-03	1,060.00	mL	1.00	mL	07/01/09 08:00	JB	3510C MB
Tentatively Identified Compounds by EPA 8260B									
8260B	9G06097	RSF1170-01	5.00	mL	5.00	mL	07/06/09 19:24	RMJ	5030B MS
8260B	9G06097	RSF1170-02	5.00	mL	5.00	mL	07/06/09 19:24	RMJ	5030B MS
8260B	9G06097	RSF1170-03	5.00	mL	5.00	mL	07/06/09 19:24	RMJ	5030B MS
8260B	9G06097	RSF1170-04	5.00	mL	5.00	mL	07/06/09 19:24	RMJ	5030B MS
8260B	9G08094	RSF1170-02RE´	5.00	mL	5.00	mL	07/08/09 18:01	RMJ	5030B MS
Volatile Organic Compounds by EPA 8260B									
8260B	9G06097	RSF1170-01	5.00	mL	5.00	mL	07/06/09 19:24	MAF	5030B MS
8260B	9G06097	RSF1170-02	5.00	mL	5.00	mL	07/06/09 19:24	MAF	5030B MS
8260B	9G06097	RSF1170-03	5.00	mL	5.00	mL	07/06/09 19:24	MAF	5030B MS
8260B	9G06097	RSF1170-04	5.00	mL	5.00	mL	07/06/09 19:24	MAF	5030B MS
8260B	9G08094	RSF1170-02RE´	5.00	mL	5.00	mL	07/08/09 18:01	MAF	5030B MS

Benchmark Environmental & Engineering Science
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Project Number: TURN-0016

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
Blank Analyzed: 07/03/09 (Lab Number:9F30087-BLK1, Batch: 9F30087)											
Acenaphthene			5.0	0.11	ug/L	ND					
Acenaphthylene			5.0	0.047	ug/L	ND					
Anthracene			5.0	0.056	ug/L	ND					
Benzo[a]anthracene			5.0	0.064	ug/L	ND					
Benzo[a]pyrene			5.0	0.091	ug/L	ND					
Benzo[b]fluoranthene			5.0	0.063	ug/L	ND					
Benzo[g,h,i]perylene			5.0	0.078	ug/L	ND					
Benzo[k]fluoranthene			5.0	0.066	ug/L	ND					
Chrysene			5.0	0.27	ug/L	ND					
Dibenz[a,h]anthracene			5.0	0.20	ug/L	ND					
Fluoranthene			5.0	0.098	ug/L	ND					
Fluorene			5.0	0.074	ug/L	ND					
Indeno[1,2,3-cd]pyrene			5.0	0.15	ug/L	ND					
Naphthalene			5.0	0.12	ug/L	ND					
Phenanthrene			5.0	0.11	ug/L	ND					
Pyrene			5.0	0.068	ug/L	ND					
Surrogate: 2,4,6-Tribromophenol					*ug/L*		*93*	*52-132*			
Surrogate: 2-Fluorobiphenyl					*ug/L*		*89*	*48-120*			
Surrogate: 2-Fluorophenol					*ug/L*		*44*	*20-120*			
Surrogate: Phenol-d5					*ug/L*		*32*	*16-120*			
LCS Analyzed: 07/03/09 (Lab Number:9F30087-BS1, Batch: 9F30087)											
1,2,4-Trichlorobenzene		100	10	0.11	ug/L	78.7	79	40-120			
1,2-Dichlorobenzene			10	1.5	ug/L	ND		33-120			
1,3-Dichlorobenzene			10	0.14	ug/L	ND		28-120			
1,4-Dichlorobenzene		100	10	0.16	ug/L	67.3	67	32-120			
1,4-Dioxane			10	0.63	ug/L	ND		11-120			
Acenaphthene		100	5.0	0.11	ug/L	93.9	94	60-120			
Acenaphthylene			5.0	0.047	ug/L	ND		63-120			
Anthracene			5.0	0.056	ug/L	ND		69-131			
Benzo[a]anthracene			5.0	0.064	ug/L	ND		73-138			
Benzo[a]pyrene			5.0	0.091	ug/L	ND		74-126			
Benzo[b]fluoranthene			5.0	0.063	ug/L	ND		75-133			
Benzo[g,h,i]perylene			5.0	0.078	ug/L	ND		66-152			
Benzo[k]fluoranthene			5.0	0.066	ug/L	ND		75-133			
Chrysene			5.0	0.27	ug/L	ND		69-140			
Dibenz[a,h]anthracene			5.0	0.20	ug/L	ND		67-144			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
LCS Analyzed: 07/03/09 (Lab Number:9F30087-BS1, Batch: 9F30087)											
Fluoranthene			5.0	0.098	ug/L	ND		67-133			
Fluorene			5.0	0.074	ug/L	ND		66-129			
Hexachlorobutadiene			5.0	2.6	ug/L	ND		30-120			
Indeno[1,2,3-cd]pyrene			5.0	0.15	ug/L	ND		69-146			
Naphthalene			5.0	0.12	ug/L	ND		48-120			
Pentachloroethane			10	2.9	ug/L	ND					
Phenanthrene			5.0	0.11	ug/L	ND		67-130			
Pyrene		100	5.0	0.068	ug/L	116	116	58-136			
Surrogate: 2,4,6-Tribromophenol					*ug/L*		*104*	*52-132*			
Surrogate: 2-Fluorobiphenyl					*ug/L*		*83*	*48-120*			
Surrogate: 2-Fluorophenol					*ug/L*		*38*	*20-120*			
Surrogate: Phenol-d5					*ug/L*		*28*	*16-120*			
LCS Dup Analyzed: 07/03/09 (Lab Number:9F30087-BSD1, Batch: 9F30087)											
1,2,4-Trichlorobenzene		100	10	0.11	ug/L	72.4	72	40-120	8	30	
1,2-Dichlorobenzene			10	1.5	ug/L	ND		33-120		29	
1,3-Dichlorobenzene			10	0.14	ug/L	ND		28-120		37	
1,4-Dichlorobenzene		100	10	0.16	ug/L	63.7	64	32-120	5	36	
1,4-Dioxane			10	0.63	ug/L	ND		11-120		50	
Acenaphthene		100	5.0	0.11	ug/L	95.0	95	60-120	1	24	
Acenaphthylene			5.0	0.047	ug/L	ND		63-120		18	
Anthracene			5.0	0.056	ug/L	ND		69-131		15	
Benzo[a]anthracene			5.0	0.064	ug/L	ND		73-138		15	
Benzo[a]pyrene			5.0	0.091	ug/L	ND		74-126		15	
Benzo[b]fluoranthene			5.0	0.063	ug/L	ND		75-133		15	
Benzo[g,h,i]perylene			5.0	0.078	ug/L	ND		66-152		15	
Benzo[k]fluoranthene			5.0	0.066	ug/L	ND		75-133		22	
Chrysene			5.0	0.27	ug/L	ND		69-140		15	
Dibenz[a,h]anthracene			5.0	0.20	ug/L	ND		67-144		15	
Fluoranthene			5.0	0.098	ug/L	ND		67-133		15	
Fluorene			5.0	0.074	ug/L	ND		66-129		15	
Hexachlorobutadiene			5.0	2.6	ug/L	ND		30-120		44	
Indeno[1,2,3-cd]pyrene			5.0	0.15	ug/L	ND		69-146		15	
Naphthalene			5.0	0.12	ug/L	ND		48-120		29	
Pentachloroethane			10	2.9	ug/L	ND					
Phenanthrene			5.0	0.11	ug/L	ND		67-130		15	
Pyrene		100	5.0	0.068	ug/L	114	114	58-136	2	19	

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
LCS Dup Analyzed: 07/03/09 (Lab Number:9F30087-BSD1, Batch: 9F30087)											
Surrogate: 2,4,6-Tribromophenol					*ug/L*		*101*	*52-132*			
Surrogate: 2-Fluorobiphenyl					*ug/L*		*86*	*48-120*			
Surrogate: 2-Fluorophenol					*ug/L*		*42*	*20-120*			
Surrogate: Phenol-d5					*ug/L*		*31*	*16-120*			

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics TICs by GC/MS											
Blank Analyzed: 07/03/09 (Lab Number:9F30087-BLK1, Batch: 9F30087)											
Unknown1			NA		ug/L	4.2					
Unknown2			NA		ug/L	8.6					
Unknown3			NA		ug/L	7.9					
Unknown4			NA		ug/L	5.7					
Unknown5			NA		ug/L	12					
Unknown6			NA		ug/L	7.5					
Unknown7			NA		ug/L	6.1					

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 07/06/09 (Lab Number:9G06097-BLK1, Batch: 9G06097)											
1,1,1-Trichloroethane			1.0	0.26	ug/L	ND					
1,1,2,2-Tetrachloroethane			1.0	0.21	ug/L	ND					
1,1,2-Trichloroethane			1.0	0.23	ug/L	ND					
1,1,2-Trichlorotrifluoroethane			1.0	0.31	ug/L	ND					
1,1-Dichloroethane			1.0	0.38	ug/L	ND					
1,1-Dichloroethene			1.0	0.29	ug/L	ND					
1,2,4-Trichlorobenzene			1.0	0.41	ug/L	ND					
1,2,4-Trimethylbenzene			1.0	0.33	ug/L	ND					
1,2-Dibromo-3-chloropropane			1.0	0.39	ug/L	ND					
1,2-Dibromoethane (EDB)			1.0	0.17	ug/L	ND					
1,2-Dichlorobenzene			1.0	0.20	ug/L	ND					
1,2-Dichloroethane			1.0	0.21	ug/L	ND					
1,2-Dichloropropane			1.0	0.32	ug/L	ND					
1,3,5-Trimethylbenzene			1.0	0.22	ug/L	ND					
1,3-Dichlorobenzene			1.0	0.36	ug/L	ND					
1,4-Dichlorobenzene			1.0	0.39	ug/L	ND					
2-Butanone (MEK)			5.0	1.3	ug/L	ND					
2-Hexanone			5.0	1.2	ug/L	ND					
4-Isopropyltoluene			1.0	0.31	ug/L	ND					
4-Methyl-2-pentanone (MIBK)			5.0	0.91	ug/L	ND					
Acetone			5.0	1.3	ug/L	ND					
Benzene			1.0	0.41	ug/L	ND					
Bromodichloromethane			1.0	0.39	ug/L	ND					
Bromoform			1.0	0.26	ug/L	ND					
Bromomethane			1.0	0.28	ug/L	ND					
Carbon disulfide			1.0	0.19	ug/L	ND					
Carbon Tetrachloride			1.0	0.27	ug/L	ND					
Chlorobenzene			1.0	0.32	ug/L	ND					
Chlorodibromomethane			1.0	0.32	ug/L	ND					
Chloroethane			1.0	0.32	ug/L	ND					
Chloroform			1.0	0.34	ug/L	ND					
Chloromethane			1.0	0.35	ug/L	ND					
cis-1,2-Dichloroethene			1.0	0.38	ug/L	ND					
cis-1,3-Dichloropropene			1.0	0.36	ug/L	ND					
Cyclohexane			1.0	0.53	ug/L	ND					

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 07/06/09 (Lab Number:9G06097-BLK1, Batch: 9G06097)											
Dichlorofluoromethane			1.0	0.34	ug/L	ND					
Ethylbenzene			1.0	0.18	ug/L	ND					
Isopropylbenzene			1.0	0.19	ug/L	ND					
Methyl Acetate			1.0	0.50	ug/L	ND					
Methyl tert-Butyl Ether			1.0	0.16	ug/L	ND					
Methylcyclohexane			1.0	0.50	ug/L	ND					
Methylene Chloride			1.0	0.44	ug/L	ND					
m-Xylene & p-Xylene			2.0	0.66	ug/L	ND					
n-Butylbenzene			1.0	0.28	ug/L	ND					
n-Propylbenzene			1.0	0.18	ug/L	ND					
o-Xylene			1.0	0.36	ug/L	ND					
sec-Butylbenzene			1.0	0.30	ug/L	ND					
Styrene			1.0	0.18	ug/L	ND					
Tetrachloroethene			1.0	0.36	ug/L	ND					
Toluene			1.0	0.51	ug/L	ND					
trans-1,2-Dichloroethene			1.0	0.42	ug/L	ND					
trans-1,3-Dichloropropene			1.0	0.37	ug/L	ND					
Trichloroethene			1.0	0.46	ug/L	ND					
Trichlorofluoromethane			1.0	0.15	ug/L	ND					
Vinyl chloride			1.0	0.24	ug/L	ND					
Xylenes, total			2.0	0.66	ug/L	ND					
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*119*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*99*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*115*	*71-126*			
LCS Analyzed: 07/06/09 (Lab Number:9G06097-BS1, Batch: 9G06097)											
1,1,1-Trichloroethane		25	1.0	0.26	ug/L	25.9	104	73-126			
1,1,2,2-Tetrachloroethane		25	1.0	0.21	ug/L	22.8	91	70-126			
1,1,2-Trichloroethane		25	1.0	0.23	ug/L	23.0	92	76-122			
1,1,2-Trichlorotrifluoroethane		25	1.0	0.31	ug/L	19.9	80	60-140			
1,1-Dichloroethane		25	1.0	0.38	ug/L	23.1	92	71-129			
1,1-Dichloroethene		25	1.0	0.29	ug/L	17.9	72	65-138			
1,2,4-Trichlorobenzene		25	1.0	0.41	ug/L	21.1	84	70-122			
1,2,4-Trimethylbenzene		25	1.0	0.33	ug/L	24.5	98	76-121			
1,2-Dibromo-3-chloropropane		25	1.0	0.39	ug/L	20.2	81	56-134			

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
LCS Analyzed: 07/06/09 (Lab Number:9G06097-BS1, Batch: 9G06097)											
1,2-Dibromoethane (EDB)		25	1.0	0.17	ug/L	22.9	92	77-120			
1,2-Dichlorobenzene		25	1.0	0.20	ug/L	22.0	88	77-120			
1,2-Dichloroethane		25	1.0	0.21	ug/L	23.3	93	75-127			
1,2-Dichloropropane		25	1.0	0.32	ug/L	24.3	97	76-120			
1,3,5-Trimethylbenzene		25	1.0	0.22	ug/L	24.0	96	77-121			
1,3-Dichlorobenzene		25	1.0	0.36	ug/L	22.5	90	77-120			
1,4-Dichlorobenzene		25	1.0	0.39	ug/L	21.9	88	75-120			
2-Butanone (MEK)		120	5.0	1.3	ug/L	112	90	57-140			
2-Hexanone		120	5.0	1.2	ug/L	128	102	65-127			
4-Isopropyltoluene		25	1.0	0.31	ug/L	24.2	97	73-120			
4-Methyl-2-pentanone (MIBK)		120	5.0	0.91	ug/L	123	98	71-125			
Acetone		120	5.0	1.3	ug/L	86.0	69	56-142			
Benzene		25	1.0	0.41	ug/L	23.4	94	71-124			
Bromodichloromethane		25	1.0	0.39	ug/L	23.2	93	80-122			
Bromoform		25	1.0	0.26	ug/L	24.4	98	66-128			
Bromomethane		25	1.0	0.28	ug/L	24.6	98	36-150			
Carbon disulfide		25	1.0	0.19	ug/L	18.1	72	59-134			
Carbon Tetrachloride		25	1.0	0.27	ug/L	22.9	92	72-134			
Chlorobenzene		25	1.0	0.32	ug/L	22.9	91	72-120			
Chlorodibromomethane		25	1.0	0.32	ug/L	21.6	86	75-125			
Chloroethane		25	1.0	0.32	ug/L	23.7	95	69-136			
Chloroform		25	1.0	0.34	ug/L	23.8	95	73-127			
Chloromethane		25	1.0	0.35	ug/L	26.6	107	49-142			
cis-1,2-Dichloroethene		25	1.0	0.38	ug/L	22.3	89	74-124			
cis-1,3-Dichloropropene		25	1.0	0.36	ug/L	23.4	94	74-124			
Cyclohexane		25	1.0	0.53	ug/L	24.2	97	70-130			
Ethylbenzene		25	1.0	0.18	ug/L	23.8	95	77-123			
Isopropylbenzene		25	1.0	0.19	ug/L	23.8	95	77-122			
Methyl Acetate		25	1.0	0.50	ug/L	24.9	99	60-140			
Methyl tert-Butyl Ether		25	1.0	0.16	ug/L	22.2	89	64-127			
Methylcyclohexane		25	1.0	0.50	ug/L	24.8	99	60-140			
Methylene Chloride		25	1.0	0.44	ug/L	20.7	83	57-132			
m-Xylene & p-Xylene		50	2.0	0.66	ug/L	45.6	91	76-122			
n-Butylbenzene		25	1.0	0.28	ug/L	24.6	99	71-128			
n-Propylbenzene		25	1.0	0.18	ug/L	24.8	99	77-120			
o-Xylene		25	1.0	0.36	ug/L	23.0	92	76-122			
sec-Butylbenzene		25	1.0	0.30	ug/L	24.1	96	74-127			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
LCS Analyzed: 07/06/09 (Lab Number:9G06097-BS1, Batch: 9G06097)											
Styrene		25	1.0	0.18	ug/L	23.7	95	70-130			
Tetrachloroethene		25	1.0	0.36	ug/L	21.0	84	74-122			
Toluene		25	1.0	0.51	ug/L	22.6	91	70-122			
trans-1,2-Dichloroethene		25	1.0	0.42	ug/L	19.1	76	73-127			
trans-1,3-Dichloropropene		25	1.0	0.37	ug/L	22.4	90	72-123			
Trichloroethene		25	1.0	0.46	ug/L	23.3	93	74-123			
Trichlorofluoromethane		25	1.0	0.15	ug/L	25.4	102	62-152			
Vinyl chloride		25	1.0	0.24	ug/L	24.3	97	65-133			
Xylenes, total		75	2.0	0.66	ug/L	68.6	92	76-122			
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*115*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*104*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*114*	*71-126*			
Matrix Spike Analyzed: 07/07/09 (Lab Number:9G06097-MS1, Batch: 9G06097)											
QC Source Sample: RSF1170-01											
1,1,1-Trichloroethane	ND		10	2.6	ug/L	ND		73-126			D03
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L	ND		70-126			D03
1,1,2-Trichloroethane	ND		10	2.3	ug/L	ND		76-122			D03
1,1,2-Trichlorotrifluoroethane	ND		10	3.1	ug/L	ND		60-140			D03
1,1-Dichloroethane	ND		10	3.8	ug/L	ND		71-129			D03
1,1-Dichloroethene	ND	250	10	2.9	ug/L	244	98	65-138			D03
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L	ND		70-122			D03
1,2,4-Trimethylbenzene	ND		10	3.3	ug/L	ND		76-121			D03
1,2-Dibromo-3-chloropropane	ND		10	3.9	ug/L	ND		56-134			D03
1,2-Dibromoethane (EDB)	ND		10	1.7	ug/L	ND		77-120			D03
1,2-Dichlorobenzene	ND		10	2.0	ug/L	ND		77-120			D03
1,2-Dichloroethane	ND		10	2.1	ug/L	ND		75-127			D03
1,2-Dichloropropane	ND		10	3.2	ug/L	ND		76-120			D03
1,3,5-Trimethylbenzene	ND		10	2.2	ug/L	ND		77-121			D03
1,3-Dichlorobenzene	ND		10	3.6	ug/L	ND		77-120			D03
1,4-Dichlorobenzene	ND		10	3.9	ug/L	ND		75-120			D03
2-Butanone (MEK)	ND		50	13	ug/L	ND		57-140			D03
2-Hexanone	ND		50	12	ug/L	ND		65-127			D03
4-Isopropyltoluene	ND		10	3.1	ug/L	ND		73-120			D03

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Matrix Spike Analyzed: 07/07/09 (Lab Number:9G06097-MS1, Batch: 9G06097)											
QC Source Sample: RSF1170-01											
4-Methyl-2-pentanone (MIBK)	ND		50	9.1	ug/L	ND		71-125			D03
Acetone	ND		50	13	ug/L	ND		56-142			D03
Benzene	ND	250	10	4.1	ug/L	271	109	71-124			D03
Bromodichloromethane	ND		10	3.9	ug/L	ND		80-122			D03
Bromoform	ND		10	2.6	ug/L	ND		66-128			D03
Bromomethane	ND		10	2.8	ug/L	ND		36-150			D03
Carbon disulfide	27.1		10	1.9	ug/L	ND		59-134			D03
Carbon Tetrachloride	ND		10	2.7	ug/L	ND		72-134			D03
Chlorobenzene	ND	250	10	3.2	ug/L	259	104	72-120			D03
Chlorodibromomethane	ND		10	3.2	ug/L	ND		75-125			D03
Chloroethane	ND		10	3.2	ug/L	ND		69-136			D03
Chloroform	ND		10	3.4	ug/L	ND		73-127			D03
Chloromethane	ND		10	3.5	ug/L	ND		49-142			D03
cis-1,2-Dichloroethene	ND		10	3.8	ug/L	ND		74-124			D03
cis-1,3-Dichloropropene	ND		10	3.6	ug/L	ND		74-124			D03
Cyclohexane	ND		10	5.3	ug/L	ND		70-130			D03
Ethylbenzene	ND		10	1.8	ug/L	ND		77-123			D03
Isopropylbenzene	ND		10	1.9	ug/L	ND		77-122			D03
Methyl Acetate	ND		10	5.0	ug/L	ND		60-140			D03
Methyl tert-Butyl Ether	ND		10	1.6	ug/L	ND		64-127			D03
Methylcyclohexane	ND		10	5.0	ug/L	ND		60-140			D03
Methylene Chloride	ND		10	4.4	ug/L	ND		57-132			D03
m-Xylene & p-Xylene	ND		20	6.6	ug/L	ND		76-122			D03
n-Butylbenzene	ND		10	2.8	ug/L	ND		71-128			D03
n-Propylbenzene	ND		10	1.8	ug/L	ND		77-120			D03
o-Xylene	ND		10	3.6	ug/L	ND		76-122			D03
sec-Butylbenzene	ND		10	3.0	ug/L	ND		74-127			D03
Styrene	ND		10	1.8	ug/L	ND		70-130			D03
Tetrachloroethene	ND		10	3.6	ug/L	ND		74-122			D03
Toluene	ND	250	10	5.1	ug/L	266	106	70-122			D03
trans-1,2-Dichloroethene	ND		10	4.2	ug/L	ND		73-127			D03
trans-1,3-Dichloropropene	ND		10	3.7	ug/L	ND		72-123			D03
Trichloroethene	ND	250	10	4.6	ug/L	276	110	74-123			D03
Trichlorofluoromethane	ND		10	1.5	ug/L	ND		62-152			D03
Vinyl chloride	ND		10	2.4	ug/L	ND		65-133			D03
Xylenes, total	ND		20	6.6	ug/L	ND		76-122			D03

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Matrix Spike Analyzed: 07/07/09 (Lab Number:9G06097-MS1, Batch: 9G06097)											
QC Source Sample: RSF1170-01											
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*113*	*66-137*			*D03*
Surrogate: 4-Bromofluorobenzene					*ug/L*		*102*	*73-120*			*D03*
Surrogate: Toluene-d8					*ug/L*		*115*	*71-126*			*D03*
Matrix Spike Dup Analyzed: 07/07/09 (Lab Number:9G06097-MSD1, Batch: 9G06097)											
QC Source Sample: RSF1170-01											
1,1,1-Trichloroethane	ND		10	2.6	ug/L	ND		73-126		15	D03
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L	ND		70-126		15	D03
1,1,2-Trichloroethane	ND		10	2.3	ug/L	ND		76-122		15	D03
1,1,2-Trichlorotrifluoroethane	ND		10	3.1	ug/L	ND		60-140		20	D03
1,1-Dichloroethane	ND		10	3.8	ug/L	ND		71-129		20	D03
1,1-Dichloroethene	ND	250	10	2.9	ug/L	232	93	65-138	5	16	D03
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L	ND		70-122		20	D03
1,2,4-Trimethylbenzene	ND		10	3.3	ug/L	ND		76-121		20	D03
1,2-Dibromo-3-chloropropane	ND		10	3.9	ug/L	ND		56-134		15	D03
1,2-Dibromoethane (EDB)	ND		10	1.7	ug/L	ND		77-120		15	D03
1,2-Dichlorobenzene	ND		10	2.0	ug/L	ND		77-120		20	D03
1,2-Dichloroethane	ND		10	2.1	ug/L	ND		75-127		20	D03
1,2-Dichloropropane	ND		10	3.2	ug/L	ND		76-120		20	D03
1,3,5-Trimethylbenzene	ND		10	2.2	ug/L	ND		77-121		20	D03
1,3-Dichlorobenzene	ND		10	3.6	ug/L	ND		77-120		20	D03
1,4-Dichlorobenzene	ND		10	3.9	ug/L	ND		75-120		20	D03
2-Butanone (MEK)	ND		50	13	ug/L	ND		57-140		20	D03
2-Hexanone	ND		50	12	ug/L	ND		65-127		15	D03
4-Isopropyltoluene	ND		10	3.1	ug/L	ND		73-120		20	D03
4-Methyl-2-pentanone (MIBK)	ND		50	9.1	ug/L	ND		71-125		35	D03
Acetone	ND		50	13	ug/L	ND		56-142		15	D03
Benzene	ND	250	10	4.1	ug/L	260	104	71-124	4	13	D03
Bromodichloromethane	ND		10	3.9	ug/L	ND		80-122		15	D03
Bromoform	ND		10	2.6	ug/L	ND		66-128		15	D03
Bromomethane	ND		10	2.8	ug/L	ND		36-150		15	D03
Carbon disulfide	27.1		10	1.9	ug/L	27.2		59-134		15	D03
Carbon Tetrachloride	ND		10	2.7	ug/L	ND		72-134		15	D03
Chlorobenzene	ND	250	10	3.2	ug/L	244	98	72-120	6	25	D03

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Matrix Spike Dup Analyzed: 07/07/09 (Lab Number:9G06097-MSD1, Batch: 9G06097)											
QC Source Sample: RSF1170-01											
Chlorodibromomethane	ND		10	3.2	ug/L	ND		75-125		15	D03
Chloroethane	ND		10	3.2	ug/L	ND		69-136		15	D03
Chloroform	ND		10	3.4	ug/L	ND		73-127		20	D03
Chloromethane	ND		10	3.5	ug/L	ND		49-142		15	D03
cis-1,2-Dichloroethene	ND		10	3.8	ug/L	ND		74-124		15	D03
cis-1,3-Dichloropropene	ND		10	3.6	ug/L	ND		74-124		15	D03
Cyclohexane	ND		10	5.3	ug/L	ND		70-130		20	D03
Ethylbenzene	ND		10	1.8	ug/L	ND		77-123		15	D03
Isopropylbenzene	ND		10	1.9	ug/L	ND		77-122		20	D03
Methyl Acetate	ND		10	5.0	ug/L	ND		60-140		20	D03
Methyl tert-Butyl Ether	ND		10	1.6	ug/L	ND		64-127		37	D03
Methylcyclohexane	ND		10	5.0	ug/L	ND		60-140		20	D03
Methylene Chloride	ND		10	4.4	ug/L	ND		57-132		15	D03
m-Xylene & p-Xylene	ND		20	6.6	ug/L	ND		76-122		16	D03
n-Butylbenzene	ND		10	2.8	ug/L	ND		71-128		15	D03
n-Propylbenzene	ND		10	1.8	ug/L	ND		77-120		15	D03
o-Xylene	ND		10	3.6	ug/L	ND		76-122		16	D03
sec-Butylbenzene	ND		10	3.0	ug/L	ND		74-127		15	D03
Styrene	ND		10	1.8	ug/L	ND		70-130		20	D03
Tetrachloroethene	ND		10	3.6	ug/L	ND		74-122		20	D03
Toluene	ND	250	10	5.1	ug/L	252	101	70-122	5	15	D03
trans-1,2-Dichloroethene	ND		10	4.2	ug/L	ND		73-127		20	D03
trans-1,3-Dichloropropene	ND		10	3.7	ug/L	ND		72-123		15	D03
Trichloroethene	ND	250	10	4.6	ug/L	261	104	74-123	6	16	D03
Trichlorofluoromethane	ND		10	1.5	ug/L	ND		62-152		20	D03
Vinyl chloride	ND		10	2.4	ug/L	ND		65-133		15	D03
Xylenes, total	ND		20	6.6	ug/L	ND		76-122		16	D03
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*114*	*66-137*			*D03*
Surrogate: 4-Bromofluorobenzene					*ug/L*		*96*	*73-120*			*D03*
Surrogate: Toluene-d8					*ug/L*		*116*	*71-126*			*D03*
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 07/08/09 (Lab Number:9G08094-BLK1, Batch: 9G08094)											
1,1,1-Trichloroethane			1.0	0.26	ug/L	ND					
1,1,2,2-Tetrachloroethane			1.0	0.21	ug/L	ND					

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 07/08/09 (Lab Number:9G08094-BLK1, Batch: 9G08094)											
1,1,2-Trichloroethane			1.0	0.23	ug/L	ND					
1,1,2-Trichlorotrifluoroethane			1.0	0.31	ug/L	ND					
1,1-Dichloroethane			1.0	0.38	ug/L	ND					
1,1-Dichloroethene			1.0	0.29	ug/L	ND					
1,2,4-Trichlorobenzene			1.0	0.41	ug/L	ND					
1,2,4-Trimethylbenzene			1.0	0.33	ug/L	ND					
1,2-Dibromo-3-chloropropane			1.0	0.39	ug/L	ND					
1,2-Dibromoethane (EDB)			1.0	0.17	ug/L	ND					
1,2-Dichlorobenzene			1.0	0.20	ug/L	ND					
1,2-Dichloroethane			1.0	0.21	ug/L	ND					
1,2-Dichloropropane			1.0	0.32	ug/L	ND					
1,3,5-Trimethylbenzene			1.0	0.22	ug/L	ND					
1,3-Dichlorobenzene			1.0	0.36	ug/L	ND					
1,4-Dichlorobenzene			1.0	0.39	ug/L	ND					
2-Butanone (MEK)			5.0	1.3	ug/L	ND					
2-Hexanone			5.0	1.2	ug/L	ND					
4-Isopropyltoluene			1.0	0.31	ug/L	ND					
4-Methyl-2-pentanone (MIBK)			5.0	0.91	ug/L	ND					
Acetone			5.0	1.3	ug/L	ND					
Benzene			1.0	0.41	ug/L	ND					
Bromodichloromethane			1.0	0.39	ug/L	ND					
Bromoform			1.0	0.26	ug/L	ND					
Bromomethane			1.0	0.28	ug/L	ND					
Carbon disulfide			1.0	0.19	ug/L	ND					
Carbon Tetrachloride			1.0	0.27	ug/L	ND					
Chlorobenzene			1.0	0.32	ug/L	ND					
Chlorodibromomethane			1.0	0.32	ug/L	ND					
Chloroethane			1.0	0.32	ug/L	ND					
Chloroform			1.0	0.34	ug/L	ND					
Chloromethane			1.0	0.35	ug/L	ND					
cis-1,2-Dichloroethene			1.0	0.38	ug/L	ND					
cis-1,3-Dichloropropene			1.0	0.36	ug/L	ND					
Cyclohexane			1.0	0.53	ug/L	ND					
Dichlorofluoromethane			1.0	0.34	ug/L	ND					
Ethylbenzene			1.0	0.18	ug/L	ND					

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 07/08/09 (Lab Number:9G08094-BLK1, Batch: 9G08094)											
Isopropylbenzene			1.0	0.19	ug/L	ND					
Methyl Acetate			1.0	0.50	ug/L	ND					
Methyl tert-Butyl Ether			1.0	0.16	ug/L	ND					
Methylcyclohexane			1.0	0.50	ug/L	ND					
Methylene Chloride			1.0	0.44	ug/L	ND					
m-Xylene & p-Xylene			2.0	0.66	ug/L	ND					
n-Butylbenzene			1.0	0.28	ug/L	ND					
n-Propylbenzene			1.0	0.18	ug/L	ND					
o-Xylene			1.0	0.36	ug/L	ND					
sec-Butylbenzene			1.0	0.30	ug/L	ND					
Styrene			1.0	0.18	ug/L	ND					
Tetrachloroethene			1.0	0.36	ug/L	ND					
Toluene			1.0	0.51	ug/L	ND					
trans-1,2-Dichloroethene			1.0	0.42	ug/L	ND					
trans-1,3-Dichloropropene			1.0	0.37	ug/L	ND					
Trichloroethene			1.0	0.46	ug/L	ND					
Trichlorofluoromethane			1.0	0.15	ug/L	ND					
Vinyl chloride			1.0	0.24	ug/L	ND					
Xylenes, total			2.0	0.66	ug/L	ND					
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*120*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*96*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*116*	*71-126*			
LCS Analyzed: 07/08/09 (Lab Number:9G08094-BS1, Batch: 9G08094)											
1,1,1-Trichloroethane		25	1.0	0.26	ug/L	29.0	116	73-126			
1,1,2,2-Tetrachloroethane		25	1.0	0.21	ug/L	25.2	101	70-126			
1,1,2-Trichloroethane		25	1.0	0.23	ug/L	24.9	100	76-122			
1,1,2-Trichlorotrifluoroethane		25	1.0	0.31	ug/L	22.2	89	60-140			
1,1-Dichloroethane		25	1.0	0.38	ug/L	26.0	104	71-129			
1,1-Dichloroethene		25	1.0	0.29	ug/L	23.2	93	65-138			
1,2,4-Trichlorobenzene		25	1.0	0.41	ug/L	22.7	91	70-122			
1,2,4-Trimethylbenzene		25	1.0	0.33	ug/L	26.4	106	76-121			
1,2-Dibromo-3-chloropropane		25	1.0	0.39	ug/L	20.4	81	56-134			
1,2-Dibromoethane (EDB)		25	1.0	0.17	ug/L	23.9	95	77-120			
1,2-Dichlorobenzene		25	1.0	0.20	ug/L	23.6	95	77-120			

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
LCS Analyzed: 07/08/09 (Lab Number:9G08094-BS1, Batch: 9G08094)											
1,2-Dichloroethane		25	1.0	0.21	ug/L	25.4	102	75-127			
1,2-Dichloropropane		25	1.0	0.32	ug/L	26.3	105	76-120			
1,3,5-Trimethylbenzene		25	1.0	0.22	ug/L	26.5	106	77-121			
1,3-Dichlorobenzene		25	1.0	0.36	ug/L	24.2	97	77-120			
1,4-Dichlorobenzene		25	1.0	0.39	ug/L	24.0	96	75-120			
2-Butanone (MEK)		120	5.0	1.3	ug/L	114	91	57-140			
2-Hexanone		120	5.0	1.2	ug/L	127	102	65-127			
4-Isopropyltoluene		25	1.0	0.31	ug/L	26.0	104	73-120			
4-Methyl-2-pentanone (MIBK)		120	5.0	0.91	ug/L	124	99	71-125			
Acetone		120	5.0	1.3	ug/L	89.7	72	56-142			
Benzene		25	1.0	0.41	ug/L	25.9	103	71-124			
Bromodichloromethane		25	1.0	0.39	ug/L	24.4	98	80-122			
Bromoform		25	1.0	0.26	ug/L	24.9	100	66-128			
Bromomethane		25	1.0	0.28	ug/L	25.1	100	36-150			
Carbon disulfide		25	1.0	0.19	ug/L	22.4	90	59-134			
Carbon Tetrachloride		25	1.0	0.27	ug/L	24.8	99	72-134			
Chlorobenzene		25	1.0	0.32	ug/L	23.9	96	72-120			
Chlorodibromomethane		25	1.0	0.32	ug/L	22.6	90	75-125			
Chloroethane		25	1.0	0.32	ug/L	21.1	84	69-136			
Chloroform		25	1.0	0.34	ug/L	26.4	105	73-127			
Chloromethane		25	1.0	0.35	ug/L	25.7	103	49-142			
cis-1,2-Dichloroethene		25	1.0	0.38	ug/L	24.4	98	74-124			
cis-1,3-Dichloropropene		25	1.0	0.36	ug/L	23.9	96	74-124			
Cyclohexane		25	1.0	0.53	ug/L	26.8	107	70-130			
Ethylbenzene		25	1.0	0.18	ug/L	25.9	103	77-123			
Isopropylbenzene		25	1.0	0.19	ug/L	28.0	112	77-122			
Methyl Acetate		25	1.0	0.50	ug/L	20.8	83	60-140			
Methyl tert-Butyl Ether		25	1.0	0.16	ug/L	23.5	94	64-127			
Methylcyclohexane		25	1.0	0.50	ug/L	27.6	110	60-140			
Methylene Chloride		25	1.0	0.44	ug/L	22.8	91	57-132			
m-Xylene & p-Xylene		50	2.0	0.66	ug/L	49.7	99	76-122			
n-Butylbenzene		25	1.0	0.28	ug/L	26.6	107	71-128			
n-Propylbenzene		25	1.0	0.18	ug/L	25.8	103	77-120			
o-Xylene		25	1.0	0.36	ug/L	24.7	99	76-122			
sec-Butylbenzene		25	1.0	0.30	ug/L	27.0	108	74-127			
Styrene		25	1.0	0.18	ug/L	25.2	101	70-130			
Tetrachloroethene		25	1.0	0.36	ug/L	22.8	91	74-122			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
LCS Analyzed: 07/08/09 (Lab Number:9G08094-BS1, Batch: 9G08094)											
Toluene		25	1.0	0.51	ug/L	24.4	98	70-122			
trans-1,2-Dichloroethene		25	1.0	0.42	ug/L	21.7	87	73-127			
trans-1,3-Dichloropropene		25	1.0	0.37	ug/L	22.5	90	72-123			
Trichloroethene		25	1.0	0.46	ug/L	26.4	106	74-123			
Trichlorofluoromethane		25	1.0	0.15	ug/L	24.0	96	62-152			
Vinyl chloride		25	1.0	0.24	ug/L	23.0	92	65-133			
Xylenes, total		75	2.0	0.66	ug/L	74.4	99	76-122			
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*115*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*101*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*115*	*71-126*			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Tentatively Identified Compounds by EPA 8260B											
Blank Analyzed: 07/06/09 (Lab Number:9G06097-BLK1, Batch: 9G06097)											
No TICs found			NA		ug/L	ND					
Tentatively Identified Compounds by EPA 8260B											
Blank Analyzed: 07/08/09 (Lab Number:9G08094-BLK1, Batch: 9G08094)											
No TICs found			NA		ug/L	ND					

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt ______

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: Turnkey	Project Manager: Mike Lesakowski	Date: 6/29/09	Chain of Custody Number: 160988
Address: 2558 Hamburg Turnpike Suite 360	Telephone Number (Area Code)/Fax Number: (716) 856-0599 / (716) 851-0505	Lab Number:	Page 1 of 1
City: Lackawanna · State: NY · Zip Code: 14218	Site Contact: Tom Behrendt · Lab Contact: B Fischer	Analysis (Attach list if more space is needed)	
Project Name and Location (State): Scott Rotary Seals	Carrier/Waybill Number:		Special Instructions/ Conditions of Receipt
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260 TCL + stars	8270 stars base neutrals	Special Instructions/ Conditions of Receipt
MW-1	6/29/09	14:22		X			X			X			3	2	
MW-2	↓	14:00		X			X			X			3	2	
MW-3	↓	13:58		X			X			X			3	2	
Trip Blank				X						X					

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

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

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify): Cat B

	Date	Time		Date	Time
1. Relinquished By: Paul W Watts	6/29/09		1. Received By: [signature]	06-30-09	10:15
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: 5.2°C

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