NYSEG

New York State Electric & Gas Corporation

Bridge Street Former Manufactured Gas Plant
Plattsburgh, New York

2005 ANNUAL OPERATION, MAINTENANCE, AND MONITORING SUMMARY REPORT

OCTOBER 28, 2005

Prepared For:
New York State Electric & Gas Corporation
Kirkwood Industrial Park
Binghamton, New York

URS

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1.0 INTRODUCTION

On behalf of NYSEG (New York State Electric and Gas Corporation), URS Corporation – New York (URS) has prepared this *2005 Annual Operation, Maintenance, and Monitoring Summary Report (2005 OM&M Report)* for NYSEG's former Manufactured Gas Plant (MGP) on Bridge Street in the City of Plattsburgh, Clinton County, New York (site ID #5-10-016). The site location is shown on Figure 1.

The New York State Department of Environmental Conservation (NYSDEC) and NYSEG entered into an Order on Consent (D0-0002-9309) on March 30, 1994 (the Order). Under this Order, NYSEG agreed to investigate and remediate 33 former MGP sites in New York State. The remedial investigation (RI) of the Plattsburgh-Bridge Street former MGP site has been completed under the Order. The *Remedial Investigation Report (RIR)*, dated January 15, 2004 presented the findings of the RI. In 2001, during the RI, NYSEG conducted an interim remedial measure (IRM) to locate the former gas holder and remove it and impacted soil at and near the site. The NYSDEC approved the *RIR* on January 20, 2004 and prepared a *Proposed Remedial Action Plan (PRAP)* for public review and comment. Following the public comment period, the NYSDEC issued its *Record of Decision (ROD)* in March 2004 that outlined the remedial plan for the site. NYSEG prepared an *Operation, Maintenance, & Monitoring Plan (OM&M Plan),* which the NYSDEC approved on August 17, 2004.

The activities summarized in this *2005 OM&M Report* were conducted in accordance with the approved *OM&M Plan*. Activities include well inspections, water level measurements, NAPL observations, and bedrock groundwater sampling.

This *2005 OM&M Report* has six sections. The scope of field activities is summarized in Section 2.0. A summary of the laboratory analytical result is in Section 3.0. A summary of findings is in Section 4.0. Recommendations are in Section 5.0. Section 6.0 list the references used to prepare this report.

2.0 SCOPE OF WORK

This section describes the activities that were completed during the September 2005 annual site inspection and sampling event at the site in accordance with the March 2004 *ROD* and the *OM&M Plan*. The tasks completed in September 2005 include:

- Task 1 - Annual Well Inspection and NAPL Monitoring
- Task 2 - Annual Groundwater Monitoring

The following subsections describe each of these tasks.

2.1 ANNUAL WELL INSPECTION AND NAPL MONITORING

On September 20, 2005, URS measured water levels in each well using an electronic water level indicator and checked for the presence of NAPL. The observations are summarized on Table 1. The monitoring wells and general site conditions were inspected for damage. No physical damage was observed at any of the monitoring wells and site conditions were generally unchanged since URS' previous annual site visit on September 16, 2004.

2.2 ANNUAL GROUNDWATER MONITORING

On September 21, 2005 URS collected groundwater samples from nine bedrock groundwater monitoring wells (MW-1B, MW-2B, MW-3B, MW-6B, MW-7BS, MW-7BD, MW-9B, MW-10B, and MW-11B).

The monitoring wells were purged on September 20, 2005 using disposable bailers. Field parameters, including pH, specific conductivity, temperature, and turbidity, were monitored during purging. The field parameters were recorded on the groundwater purging and sampling forms (Appendix A). The monitoring wells were purged until dry or the field parameters had stabilized to within $\pm$ 0.1 pH unit, $\pm$ 0.2 degree Celsius (^{o}C), and $\pm$ 10 percent on the remaining parameters over three consecutive readings. Monitoring well purge data are summarized on Table 1.

The samples were collected on September 21, 2005 within 24 hours of purging using disposable bailers. The samples were placed into laboratory provided sampling containers in the following order: benzene, toluene ethylbenzene, and xylenes (BTEX); polycyclic aromatic hydrocarbons (PAHs); total phenols; and total cyanide. The samples were placed in coolers with sufficient ice to maintain a temperature of 4^{o}C.

The nine groundwater samples, one field duplicate sample collected from monitoring well MW-02B, and one trip blank were shipped by Federal Express to Lancaster Laboratories, Inc. (Lancaster) in Lancaster, Pennsylvania. Five (MW-03B, MW-11B, MW-10B, MW-02B, and MW-7BS) of the nine groundwater samples and one field duplicate were analyzed for BTEX by USEPA SW-846 Method 8260B, PAHs by USEPA SW-846 Method 8270C, total phenol by USEPA SW-846 Method 9065M, and total cyanide by USEPA SW-846 Method 335.3. One groundwater sample (MW-01B) was

analyzed for BTEX, total phenol, and total cyanide. Two groundwater samples (MW-06B and MW-07BD) were analyzed for BTEX and total cyanide. The remaining groundwater sample (MW-09B) was analyzed for BTEX only. Insufficient water volume in the monitoring wells resulted in limited analyses for monitoring wells MW-01B, 09B, 06B, and 07BD. The trip blank was analyzed for BTEX only. Lancaster provided standard analytical summary deliverable package (Appendix B). The laboratory analytical results are discussed in Section 3.0.

3.0 LABORATORY ANALYTICAL RESULTS

The groundwater analytical results for the bedrock groundwater samples collected on September 2005 are summarized in Table 2. The well locations are shown on Figure 2.

Benzene, Toluene, Ethybenzene, and Xylene

Concentrations of total BTEX ranged from not detected at MW-9B to 5,210 µg/L at MW-7BD. The following BTEX compounds were detected in one or more bedrock groundwater sample.

Summary of BTEX Compounds Detected in Bedrock Groundwater (September 2005)

Compound	Number of Detects (out of 9)	NYSDEC GW Standard[(a)] (µg/L)	Number of Exceedences (out of 9)	Maximum Concentration (µg/L)
Benzene	8	1	7	870 at MW-2B (duplicate)*
Ethylbenzene	6	5	6	1,000 at MW-2B (duplicate)*
Toluene	6	5	6	1,400 at MW-2B (duplicate)*
Xylene, total	6	5	6	2,100 at MW-7BD*

Notes:
(a) NYSDEC Ambient Water Quality Standard (TOGS 1.1.1, NYSDEC, 1998)
*- NAPL has been detected in the monitoring well. The concentration may not be representative of groundwater quality.

The maximum concentrations of BTEX compounds were detected at MW-2B and MW-7BD. Traces of NAPL was detected in these two wells. Therefore, the reported concentrations may not be representative of actual groundwater concentrations. As shown in Appendix C, concentrations of BTEX compounds detected in September 2005 were comparable to the concentrations detected during previous sampling events.

Polyaromatic Hydrocarbons

PAHs were found in four of the five bedrock groundwater samples. Where detected, concentrations of total SVOCs ranged from 33 µg/L at MW-11B to 1,166,000 µg/L at MW-2B (duplicate sample). No PAHs were detected in the sample from MW-10B. The following compounds were detected in one or more bedrock groundwater sample.

Summary of PAHs Detected in Bedrock Groundwater (September 2005)

Compound	Number of Detects (out of 5)	NYSDEC GW Standard[(a)] (µg/L)	Number of Exceedences (out of 5)	Maximum Concentration (µg/L)
Acenaphthene	4	[20]	3	19,000** at MW-2B (duplicate)*
Acenaphthylene	4	NS	0	120,000** at MW-2B (duplicate)*
Anthracene	2	[50]	1	43,000** at MW-2B (duplicate)*
Benzo(a)anthracene	2	[0.002]	2	31,000** at MW-2B (duplicate)*
Benzo(a)pyrene	2	[0.002]	2	30,000** at MW-2B (duplicate)*
Benzo(b)fluoranthene	2	[0.002]	2	21,000** at MW-2B (duplicate)*
Benzo(k)fluoranthene	2	[0.002]	2	7,500** at MW-2B (duplicate)*
Benzo(g,h,i)perylene	2	NS	0	17,000** at MW-2B (duplicate)*
Chrysene	2	[0.002]	2	28,000** at MW-2B (duplicate)*
Dibenzo(a,h)anthrancene	1	NS	0	2,500** at MW-2B (duplicate)*

Compound	Number of Detects (out of 5)	NYSDEC GW Standard[(a)] (µg/L)	Number of Exceedences (out of 5)	Maximum Concentration (µg/L)
Fluoranthene	2	[50]	1	85,000** at MW-2B (duplicate)*
Fluorene	3	[50]	1	50,000** at MW-2B (duplicate)*
Indeno(1,2,3-cd)pyrene	2	[0.002]	2	12,000** at MW-2B (duplicate)*
Naphthalene	4	[10]	4	380,000** at MW-2B (duplicate)*
Phenanthrene	4	[50]	2	200,000** at MW-2B (duplicate)*
Pyrene	2	[50]	2	120,000** at MW-2B (duplicate)*

Notes:
(a) – NYSDEC Ambient Water Quality Standard (TOGS 1.1.1, NYSDEC, 1998)
NS – No standard
[ ] indicates guidance value
* - NAPL has been detected in the monitoring well. The concentration may not be representative of groundwater quality.
** - Maximum detected concentration is greater than reported solubility in water.

PAHs were detected at concentrations that exceed the NYSDEC's groundwater standards at four locations (MW-2B, MW-3B, MW-7BS, and MW-11B). Concentrations of all PAHs detected in monitoring well MW-2B where NAPL was observed, exceed solubility limits in water and are likely not representative of groundwater quality. As shown in Appendix C, concentrations of PAHs detected in September 2005 were generally higher than concentrations detected during previous sampling events.

Cyanide

Cyanide was not detected in any of the eight bedrock wells from which samples were collected and analyzed. As shown in Appendix C, the concentrations of cyanide detected in samples collected in September 2005 are similar to or less than concentrations detected during previous sampling events.

Phenol

Phenols were detected in three of the six wells from which samples were collected and analyzed for phenols. Detected concentrations of total phenol ranged from 15 µg/L at MW-10B to 250 µg/L at MW-11B. The NYSDEC groundwater standard for phenols is 1.0 µg/L. As shown in Appendix C, the concentrations of phenols detected in samples collected in September 2005 are consistent with concentrations detected in during previous sampling events.

4.0 SUMMARY AND CONCLUSIONS

General Site Conditions

- No physical damage was observed at any of the monitoring wells and site conditions were generally unchanged since URS' previous annual site visit on September 16, 2004.

- During the September 2005 site inspection, no indications of NAPL were observed in monitoring wells MW-1B, MW-9B, MW-10B, or MW-11B. A strong tar-like odor was detected in MW-3B. Trace amounts of NAPL were observed in purge water from monitoring wells MW-2B, MW-6B, MW-7BS and MW-7BD. Recoverable amounts of NAPL were not found in any of the monitoring wells. The locations and amounts of NAPL observed is consistent with previous observations.

Bedrock Groundwater Samples

- Concentrations of BTEX compounds detected in September 2005 were generally consistent with concentrations detected during previous sampling events.

- Concentrations of PAH compounds detected were generally higher than concentrations detected during previous sampling events. Concentrations of all PAHs detected in monitoring well MW-2B where NAPL was observed exceed the solubility limits in water and are likely not representative of groundwater quality.

- Concentrations of cyanide and phenols detected in samples collected in September 2005 are consistent with or less than concentrations detected during previous sampling events.

5.0 RECOMMENDATIONS

Based on the results prescribed in this *2005 OM&M Report,* URS makes the following recommendations.

- NYSEG will continue to perform annual site inspection and collect groundwater samples in accordance with the ROD and the OM&M Plan. The next event will be in September 2006.

6.0 REFERENCES

New York State Department of Environmental Conservation, March 2004. *Record of Decision – NYSEG Bridge Street Former MGP Site, Plattsburgh, Clinton County, New York – Site Number 5-10-016*.

URS Corporation, 2005. *2004 Annual Operation, Maintenance, & Monitoring Summary Report*. June 3, 2005.

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USEPA, 1987. *A Compendium of Superfund Field Operations Methods*, EPA/540/P-87-001, (OSWER Directive 9355.0-14). December. Cincinnati, OH: USEPA.

USEPA SW-846. *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods.*

TABLES

TABLE 1
SUMMARY OF WATER LEVELS, NAPL CHECKS, AND PURGING DATA
SEPTEMBER 2005

NYSEG BRIDGE STREET
FORMER MGP SITE
PLATTSBURGH, NEW YORK

Well Number	Date	Depth to Water (ft bgs)	Water Elevation (ft msl)	Total Volume Purged (Liters)	NAPL Observations	Specific Conductivity (umhos/cm)	Temperature (^{o}C)	pH	Turbidity	Notes
MW-1B	9/20/2005	7.87	114.93	85	ND	1,620	10.9	7.78	132	Purged dry
MW-2B	9/20/2005	4.92	117.40	79	odor, trace NAPL	-	-	-	-	No parameters collected due to NAPL in water
MW-3B	9/20/2005	18.52	101.59	104	odor	1,390	10.6	8.5	325	Purged dry
MW-6B	9/20/2005	14.26	107.64	64	odor, trace NAPL	1,280	12.9	8.82	342	Purged dry
MW-7BD	9/20/2005	12.52	108.54	97	odor, trace NAPL	840	11.0	9.32	>1,000	Purged dry
MW-7BS	9/21/2005	2.96	117.76	87	odor, trace NAPL	-	-	-	-	No parameters collected due to NAPL in water
MW-9B	9/20/2005	28.26	92.80	18	ND	1,750	11.2	8.04	>1,000	Purged dry
MW-10B	9/20/2005	7.60	114.55	136	ND	1,390	13.4	6.82	975	Purged dry
MW-11B	9/20/2005	4.42	115.39	117	ND	890	12.0	9.63	>1,000	Purged dry

ND - No indications of NAPL detected.

TABLE 2

DRAFT

SUMMARY OF BEDROCK GROUNDWATER ANALYTICAL RESULTS
SEPTEMBER 2005

NYSEG FORMER MGP SITE
BRIDGE STREET PLATTSBURGH, NEW YORK

Sample Location Sample Date	NYSDEC GW Standard [(a)]	MW-1B 9/21/2005	MW-2B 9/21/2005	MW-2B 9/21/2005 Duplicate	MW-3B 9/21/2005	MW-6B 9/21/2005	MW-7BS 9/21/2005	MW-7BD 9/21/2005	MW-9B 9/21/2005	MW-10B 9/21/2005	MW-11B 9/21/2005
Benzene, Toluene, Ethylbenzene, and Xylenes (ug/L)											
Benzene	1	**0.9J**	**850**	**870**	**310**	**3J**	**35**	**830**	<0.5	**2J**	**10**
Ethylbenzene	5	<0.8	**970**	**1,000**	**97**	**22**	**18**	**980**	<0.8	<0.8	**5J**
Toluene	5	<0.7	**1,300**	**1,400**	**50**	**11**	**5J**	**1,300**	<0.7	<0.7	**14**
Xylene, total	5	<0.8	**1,600**	**1,700**	**81**	**57**	**17**	**2,100**	<0.8	<0.8	**12**
Total BTEX	-	*0.9*	*4,720*	*4,970*	*538*	*93*	*75*	*5,210*	*ND*	*2.0*	*41*
Polyaromatic Hydrocarbons (ug/L)											
Acenaphthene	[20]	NA	**7,100**	**19,000**	**23**	NA	**130**	NA	NA	<1	**2J**
Acenaphthylene	-	NA	**45,000**	**120,000**	**3J**	NA	**39**	NA	NA	<1	**6**
Anthracene	[50]	NA	**16,000**	**43,000**	<1	NA	**25**	NA	NA	<1	<1
Benzo(a)anthracene	[0.002]	NA	**11,000**	**31,000**	<1	NA	**11**	NA	NA	<1	<1
Benzo(a)pyrene	[0.002]	NA	**11,000**	**30,000**	<1	NA	**13**	NA	NA	<1	<1
Benzo(b)fluoranthene	[0.002]	NA	**8,700**	**21,000**	<1	NA	**11**	NA	NA	<1	<1
Benzo(g,h,i)perylene	-	NA	**6,600**	**17,000**	<1	NA	**9**	NA	NA	<1	<1
Benzo(k)fluoranthene	[0.002]	NA	**4,200**	**7,500**	<1	NA	**4J**	NA	NA	<1	<1
Chrysene	[0.002]	NA	**9,800**	**28,000**	<1	NA	**11**	NA	NA	<1	<1
Dibenzo(a,h)anthracene	-	NA	**1,000**	**2,500**	<1	NA	<1	NA	NA	<1	<1
Fluoranthene	[50]	NA	**33,000**	**85,000**	<1	NA	**44**	NA	NA	<1	<1
Fluorene	[50]	NA	**18,000**	**50,000**	**2J**	NA	**40**	NA	NA	<1	<1
Indeno(1,2,3-cd)pyrene	[0.002]	NA	**4,500**	**12,000**	<1	NA	**6**	NA	NA	<1	<1
Naphthalene	[10]	NA	**150,000**	**380,000**	**440**	NA	**150**	NA	NA	<1	**24**
Phenanthrene	[50]	NA	**79,000**	**200,000**	**1J**	NA	**140**	NA	NA	<1	**1J**
Pyrene	[50]	NA	**45,000**	**120,000**	<1	NA	**56**	NA	NA	<1	<1
Total PAHs	-	NA	449,900	*1,166,000*	*469*	NA	*689*	NA	NA	*ND*	*33*
General Chemistry Parameters (ug/L)											
Total Phenols	1	<24	<12	<12	**27J**	NA	<12	NA	NA	**15J**	**250**
Total Cyanide	-	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5

Notes:

Samples analyzed by Lancaster Laboratories in Lancaster, PA.

(a) New York State Groundwater Quality Standard from Division of Water Technical and Operational Guidance Series (NYSDEC, TOGS 1.1.1).

NA: Indicates the parameter was not analyzed for.

ND: Indicates parameter was not detected.

<: Indicates the parameter was not detected above the PQL shown.

J: Indicates an estimated concentration between the MDL and PQL.

[ ]: Indicates a Guidance Value.

Bold indicates parameter was detected.

Shading indicates parameter exceeds standard.

FIGURES

GRAPHIC SCALE

0 30 60 90 Feet

SOURCE:
USGS 7 1/2 Minute Series Topographic Map
Plattsburgh, New York 1966

Title: SITE LOCATION MAP

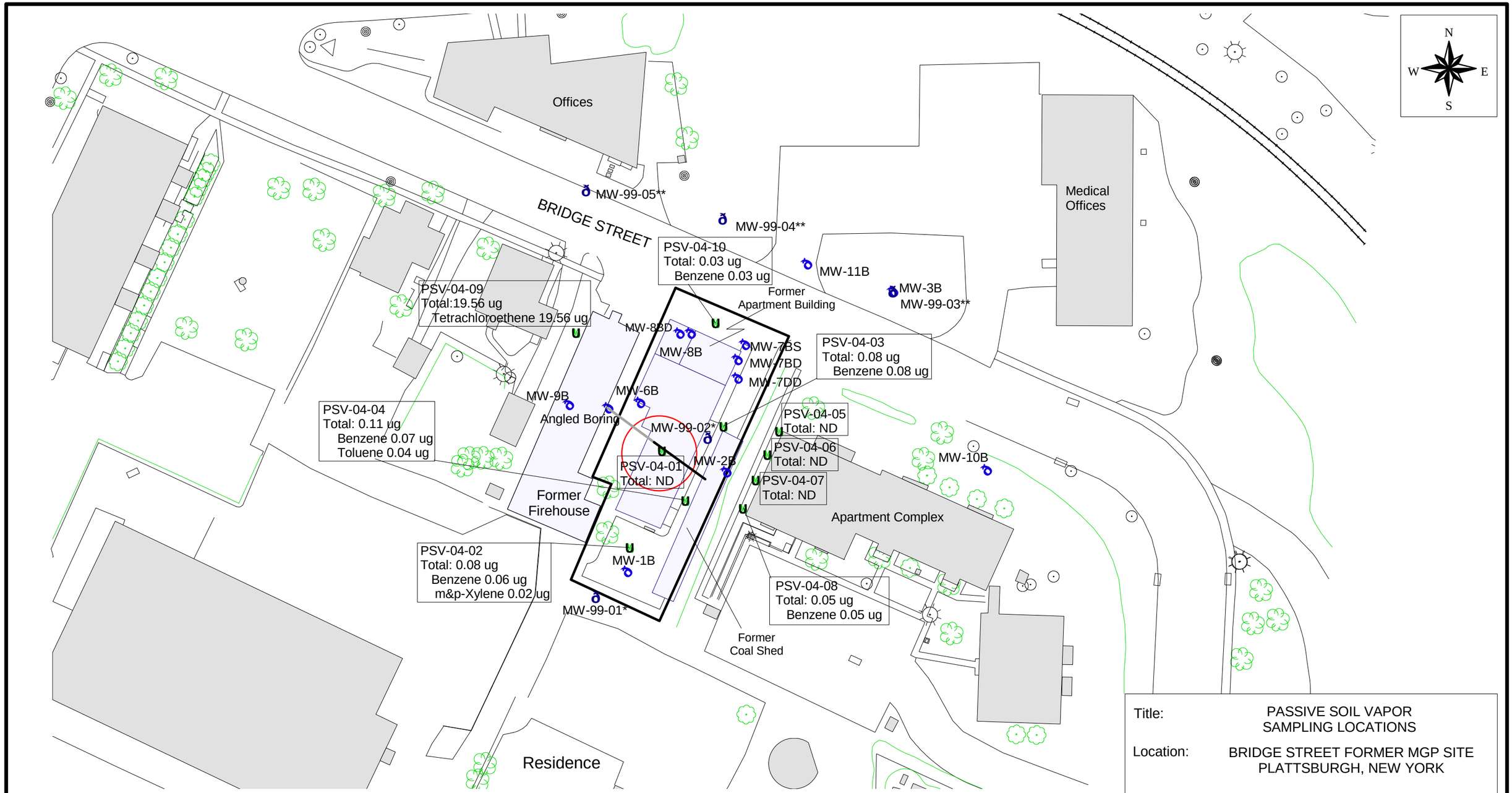
Location: BRIDGE STREET FORMER MGP SITE
PLATTSBURGH, NEW YORK

Client: NYSEG NEW YORK STATE ELECTRIC AND GAS

URS Corporation
28 Corporate Drive, Suite 200
Clifton Park, New York 12065

Drafter:	Date:
DAD	October 2005
Drg. Size:	Job No.:
8.5X11	38394376

FIGURE 1



LEGEND

- Passive Soil Vapor Sampling Location
- Overburden Monitoring Well
- Bedrock Monitoring Well
- Property Boundary (approx.)
- Former Gas Holder
- Former Structures (approx.)
- Buildings

GRAPHIC SCALE

0 30 60 90 Feet

Title: PASSIVE SOIL VAPOR SAMPLING LOCATIONS

Location: BRIDGE STREET FORMER MGP SITE
PLATTSBURGH, NEW YORK

Client: NYSEG NEW YORK STATE ELECTRIC AND GAS

URS Corporation
28 Corporate Drive, Suite 200
Clifton Park, New York 12065

Drafter:	Date:
DAD	October 2004
Drg. Size: 8.5X11	Job No.: 38394199

FIGURE 2

p:\database\nyseg\bridge street\arcview\bridge st - gmp.apr/Fig. 2 - Passive Soil Vapor Sampling Locations

APPENDIX A
GROUNDWATER SAMPLE FIELD DATA SHEETS

GROUNDWATER SAMPLING DATA SHEET

NYSEG- Bridge St former MGP
Plattsburgh, New York

WELL NO: MW-01

Field Personnel:
ERIC LOCKWOOD

Date: 09/20/05
Job No.:
Location: Plattsburgh, NY

Total Well Depth (from top of casing): 40.25 ~~35.05~~ feet

Depth to Water Surface Before Purging (from top of casing): 7.87 feet

Height of Water Column: = ~~27.87~~ feet

Well Diameter (d): 4 inches Gals per ft: (d^2 x 0.0408) = x 0.653

Volume of Water Column Before Purging: = ~~17.75~~ gallons

Volume of Water Equal to three Well Volumes: (Volume of Column by 3.0) _____ gallons

Purging Method: (Bailer/Waterra Pump/Submersible Pump/Peristaltic Pump)

	Time	Well Volumes (Gallons)	Specific Conduct. (mmhos/cm or µmhos)	Temp. (°F or °C)	pH (SU)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Redox Potential (mV)
	0818	1.0	1.93	55.9	7.49	195	—	—
	0822	6.0	1.62	57.6	7.86	122	—	—
		11.0	1.59	55.3	7.85	129	—	—
		16.0	1.57	53.2	7.81	139	—	—
	0831	21.0	1.62	51.6	7.78	132	—	—
1			DRY @ 22.5 gal					
2								

Total Volume of Water Purged: 22.5 gallons

Sampling Data:
- Sampling Method: (Bailer) or Pump
- Depth of Pump intake or bailer: ~70 feet
- Sample Date/Time: 9/21/05 0930
- Color: cloudy grey
- Odor: NO
- Sheen/Appearance: NP/cloudy

Notes:
1 - Field parameters obtained before sampling
2 - Field papameters obtained after sampling

"BSGUD0101" 3 vials w/HCl for BTEX
1-1L clear glass w/ H_2SO_4 for Phenols
1-500ml poly w/ NaOH + Ascorbic Acid for Cyanide
unable to fill remaining bottles (PAH) the well is dry.
return @ end of day, well still dry.

GWSamplingForms/gw sample sheet

URS

GROUNDWATER SAMPLING DATA SHEET

NYSEG · Bridge St former MGP
Plattsburgh, New York

WELL NO: MW-02B

Field Personnel: ERIC Co-Environmental

Date: 9/20/05
Job No.:
Location: Plattsburgh, NY

Total Well Depth (from top of casing): 36.75 feet

Depth to Water Surface Before Purging (from top of casing): 4.92 feet

Height of Water Column: = 31.83 feet

Well Diameter (d): 4 inches Gals per ft: (d^2 x 0.0408) = x 0.653

Volume of Water Column Before Purging: = 20.8 gallons

Volume of Water Equal to three Well Volumes: _____ gallons
(Volume of Column by 3.0)

Purging Method: (Bailer/Waterra Pump/Submersible Pump/Peristaltic Pump)

	Time	Well Volumes (Gallons)	Specific Conduct. (mmhos/cm or µmhos)	Temp. (°F or °C)	pH (SU)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Redox Potential (mV)
		NO PARAMETERS ~~FOR~~ B/C						
		TAR ON WATER.						
1								
2								

Total Volume of Water Purged: 21 gallons

Sampling Data:
- Sampling Method: (Bailer) or Pump
- Depth of Pump intake or bailer: ~35 feet
- Sample Date/Time: 9/21/05 1330
- Color: Cloudy gray/brown
- Odor: TAR
- Sheen/Appearance: TAR BLEBS

Notes:
1 - Field parameters obtained before sampling
2 - Field papameters obtained after sampling

"BSGDD0102" 3 VOAs w/HCl for BTEX
FIELD DUP "DUP 09/21/05" 2 1L amber w/ $Na_2S_2O_3$ for PAH
1 1L clear glass w/ H_2SO_4 for Phenols
1 500ml poly w/ NaOH+Asc. Acid for Cyanide

GROUNDWATER SAMPLING DATA SHEET

NYSEG Bridge St former MGP
Plattsburgh, New York

WELL NO: MW-03B

Field Personnel:
ERIC Lovejoy/

Date: ~~6-8~~ 9/20/05
Job No.:
Location: Plattsburgh, NY

Total Well Depth (from top of casing): 60.87' feet

Depth to Water Surface Before Purging (from top of casing): - 18.52 feet

Height of Water Column: = 42.29 feet

Well Diameter (d): 4 inches Gals per ft: $(d^2 \times 0.0408)$ = x 0.653

Volume of Water Column Before Purging: = 27.6 gallons

Volume of Water Equal to three Well Volumes: _____ gallons
(Volume of Column by 3.0)

Purging Method: (Bailer/Waterra Pump/Submersible Pump/Peristaltic Pump)

	Time	Well Volumes (Gallons)	Specific Conduct. (mmhos/cm or µmhos)	Temp. (°F or °C)	pH (SU)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Redox Potential (mV)
		1.0	1.26	54.1	8.36	53.9	—	—
		6.0	1.29	55.4	8.40	511	—	—
		11.0	1.29	54.5	8.43	378	—	—
		16.0	1.30	53.7	8.49	279	—	—
		21.0	1.34	52.7	8.50	295	—	—
		26.0	1.39	51.1	8.50	325	—	—
1								
2			DRY @ 30 gal					

Total Volume of Water Purged: 30 gallons

Sampling Data:
- Sampling Method: (Bailer or Pump)
- Depth of Pump intake or bailer: ~57 feet
- Sample Date/Time: 9/21/05 1030
- Color: Sl. cloudy grey
- Odor: Sulfur type odor
- Sheen/Appearance: ND / sl. cloudy

Notes:
1 - Field parameters obtained before sampling
2 - Field papameters obtained after sampling

"BSGDD0203" BTEX
PAH
Phenols
Cyanide

GROUNDWATER SAMPLING DATA SHEET

NYSEG - Bridge St former MGP
Plattsburgh, New York

WELL NO: MW-06B

Field Personnel
Eric Conklin

Date: 9/20/05
Job No.:
Location: Plattsburgh, NY

Total Well Depth (from top of casing): 39.0 feet

Depth to Water Surface Before Purging (from top of casing): -14.26 feet

Height of Water Column: = 24.74 feet

Well Diameter (d): 4 inches Gals per ft: (d^2 x 0.0408) = x 0.653

Volume of Water Column Before Purging: = 16.15 gallons

Volume of Water Equal to three Well Volumes: _____ gallons
(Volume of Column by 3.0)

Purging Method: (Bailer/Waterra Pump/Submersible Pump/Peristaltic Pump)

	Time	Well Volumes (Gallons)	Specific Conduct. (µmhos/cm or µmhos)	Temp. (°F or °C)	pH (SU)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Redox Potential (mV)
		1.0	1.14	55.3	9.14	72.6	—	—
		6.0	1.17	54.6	9.05	55.9	—	—
		11.0	1.21	55.3	8.95	39.2	—	—
		16.0	1.28	55.2	8.82	34.2	—	—
		D-2 @ 17.0	9/					
1								
2								

Total Volume of Water Purged: 2/17 gallons

Sampling Data:
- Sampling Method: (Bailer or Pump)
- Depth of Pump intake or bailer: 39 feet
- Sample Date/Time: 9/21/05 1230
- Color: Cloudy grey
- Odor: TAR
- Sheen/Appearance: TAR BLEBS + Heavy sheen

Notes:
1 - Field parameters obtained before sampling
2 - Field papameters obtained after sampling

"BSGDD0106"
3 - VOAs w/HCl for BTEX
1 - 500 ml poly w/ NaOH + Asc Acid for cyanide
unable to fill remaining bottles (PAH+Phenols) b/c well is dry.
Returned @ end of day, still dry

SG

GROUNDWATER SAMPLING DATA SHEET

NYSEG - Bridge St former MGP
Plattsburgh, New York

WELL NO: MW-07BS

Field Personnel:
ERIC LINDVALL

Date: 9/21/05
Job No.:
Location: Plattsburgh, NY

Total Well Depth (from top of casing): 14.90 feet

Depth to Water Surface Before Purging (from top of casing): 7.96 feet

Height of Water Column: = 11.44 feet

Well Diameter (d): 4 inches Gals per ft: (d^2 x 0.0408) = x 0.653

Volume of Water Column Before Purging: = 7.5 gallons

Volume of Water Equal to three Well Volumes: 22.4 gallons
(Volume of Column by 3.0)

Purging Method: (Bailer/Waterra Pump/Submersible Pump/Peristaltic Pump)

	Time	Well Volumes (Gallons)	Specific Conduct. (mmhos/cm or µmhos)	Temp. (°F or °C)	pH (SU)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Redox Potential (mV)
	NO PARAMETERS TAKEN B/C of tar mixed w/ water.							
1								
2								

Total Volume of Water Purged: 23 gallons

Sampling Data:
- Sampling Method: (Bailer) or Pump
- Depth of Pump intake or (bailer): ~12 feet
- Sample Date/Time: 9/21/05 1430
- Color: cloudy brown
- Odor: TAR
- Sheen/Appearance: sheen w/ tar blebs

Notes:
1 - Field parameters obtained before sampling
2 - Field papameters obtained after sampling

3 vons w/ HCl for BTEX
2-1L amber w/ $Na_2S_2O_3$ f. PAH
1-1L clear glass w/ H_2SO_4 for Phenols
500ml poly w/ NaOH + Asc. Acid f. Cyanide

GROUNDWATER SAMPLING DATA SHEET

NYSEG - Bridge St former MGP
Plattsburgh, New York

WELL NO: MW-7BD

Field Personnel:
ERIC CO-ENVIRON/

Date: 9/20/05
Job No.:
Location: Plattsburgh, NY

Total Well Depth (from top of casing): 49.24 feet

Depth to Water Surface Before Purging (from top of casing): - 12.52 feet

Height of Water Column: = 36.72 feet

Well Diameter (d): 4 inches Gals per ft: (d^2 x 0.0408) = x 0.653

Volume of Water Column Before Purging: = 24.0 gallons

Volume of Water Equal to three Well Volumes: _____ gallons
(Volume of Column by 3.0)

Purging Method: (Bailer/Waterra Pump/Submersible Pump/Peristaltic Pump)

	Time	Well Volumes (Gallons)	Specific Conduct. (mmhos/cm or µmhos)	Temp. (°F or °C)	pH (SU)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Redox Potential (mV)
		1.0	0.85	55.3	9.58	925	—	—
		6.0	0.86	54.4	9.39	900	—	—
		11.0	0.87	53.7	9.35	825	—	—
		16.0	0.86	52.1	9.31	975	—	—
		21.0	0.84	51.9	9.32	1100	—	—
		Dry @ 25.5 gal						
1								
2								

Total Volume of Water Purged: ~25.5 gallons

Sampling Data:

- Sampling Method: (Bailer) or Pump
- Depth of Pump intake or bailer: 47 feet
- Sample Date/Time: 9/21/05 1300
- Color: Cloudy grey/brown
- Odor: TAR
- Sheen/Appearance: Heavy sheen + tar blebs

Notes:
1 - Field parameters obtained before sampling
2 - Field papameters obtained after sampling

"BSGDD0107"
3 VOAs w/HCl for BTEX
1-500ml poly w/NaOH + ascAcid for Cyanide
unable to fill remaining bottles (PAH+Phenols)
b/c no water.
Returned end of day - still dry.

GROUNDWATER SAMPLING DATA SHEET

NYSEG - Bridge St former MGP
Plattsburgh, New York

WELL NO: MW-09B

Field Personnel:
ERIC LONDQUIST

Date: 9/20/05
Job No.:
Location: Plattsburgh, NY

Total Well Depth (from top of casing): 35.05 feet

Depth to Water Surface Before Purging (from top of casing): -29.26 feet

Height of Water Column: =6.79 feet

Well Diameter (d): 4 inches Gals per ft: (d^2 x 0.0408) = x 0.653

Volume of Water Column Before Purging: = 4.4 gallons

Volume of Water Equal to three Well Volumes: _____ gallons
(Volume of Column by 3.0)

Purging Method: (Bailer/Waterra Pump/Submersible Pump/Peristaltic Pump)

	Time	Well Volumes (Gallons)	Specific Conduct. (mmhos/cm or µmhos)	Temp. (°F or °C)	pH (SU)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Redox Potential (mV)
		1.0	1.69	53.0	7.99	521	—	—
		4.5	1.75	52.1	8.04	710>>	~	~
			DRY @ 4.7 gal					
1								
2								

Total Volume of Water Purged: 4.7 gallons

Sampling Data:
- Sampling Method: (Bailer) or Pump
- Depth of Pump intake or (Bailer): 35 feet
- Sample Date/Time: 9/21/05 1000
- Color: Cloudy grey
- Odor: ND
- Sheen/Appearance: ND/Cloudy

Notes:
1 - Field parameters obtained before sampling
2 - Field papameters obtained after sampling

"BSGDD0109" 3 VOAs w/ HCl for BTEX
Unable to fill remaining bottles b/c well is dry.
Returned end of day, well is still dry.

GROUNDWATER SAMPLING DATA SHEET

NYSEG - Bridge St former MGP
Plattsburgh, New York

WELL NO: MW-10B

Field Personnel: ERIC Co-Insp

Date: 9/2/05
Job No.:
Location: Plattsburgh, NY

Total Well Depth (from top of casing): 61.60 feet

Depth to Water Surface Before Purging (from top of casing): -7.60 feet

Height of Water Column: = 54.0 feet

Well Diameter (d): 4 inches Gals per ft: (d^2 x 0.0408) = x 0.653

Volume of Water Column Before Purging: = 35.3 gallons

Volume of Water Equal to three Well Volumes: _____ gallons
(Volume of Column by 3.0)

Purging Method: (Bailer/Waterra Pump/Submersible Pump/Peristaltic Pump)

	Time	Well Volumes (Gallons)	Specific Conduct. (mmhos/cm or µmhos)	Temp. (°F or °C)	pH (SU)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Redox Potential (mV)
		1.0	1.44	57.4	7.67	352	—	—
		6.0	1.44	57.2	6.79	110	—	—
		11.0	~~1.35~~ 1.45	56.1	6.82	128	—	—
		16.0	1.44	57.9	6.82	120	—	—
		21.0	1.42	57.9	6.82	151	—	—
		26.0	1.42	57.5	6.82	487	—	—
1		31.0	1.39	56.1	6.82	975	—	—
2		DRY @ 36 gal						

Total Volume of Water Purged: 36 gallons

Sampling Data:
- Sampling Method: (Bailer or Pump)
- Depth of Pump intake or bailer: ~60 feet
- Sample Date/Time: 9/2/05 1130
- Color: Sl. cloudy brown
- Odor: Sulfur
- Sheen/Appearance: ND/Cloudy

Notes:
1 - Field parameters obtained before sampling
2 - Field papameters obtained after sampling

BTEX
PAH
Phenols
Cyanide

GROUNDWATER SAMPLING DATA SHEET

NYSEG-Bridge St Former MGP
Plattsburgh, New York

WELL NO: MW-11B

Field Personnel: ERIC LOLINOWSKI

Date: 9/20/05
Job No.:
Location: Plattsburgh, NY

Total Well Depth (from top of casing): 39.10 feet

Depth to Water Surface Before Purging (from top of casing): - 4.42 feet

Height of Water Column: = 34.68 feet

Well Diameter (d): 4 inches   Gals per ft: (d^2 x 0.0408) = x 0.653

Volume of Water Column Before Purging: = 22.6 gallons

Volume of Water Equal to three Well Volumes: ______ gallons
(Volume of Column by 3.0)

Purging Method: (Bailer)/Waterra Pump/Submersible Pump/Peristaltic Pump

	Time	Well Volumes (Gallons)	Specific Conduct. (mmhos/cm or µmhos)	Temp. (°F or °C)	pH (SU)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Redox Potential (mV)
		1.0	0.84	56.3	9.70	43.1	–	–
		6.0	0.85	58.2	9.69	129	–	–
		11.0	0.85	59.9	9.43	230	–	–
		16.0	0.86	57.4	9.52	410	–	–
		21.0	0.87	56.0	9.60	540	–	–
		26.0	0.87	55.1	9.63	875	–	–
1		30.0	0.89	53.7	9.63	71100	–	–
2			DRY @ 31 gal					

Total Volume of Water Purged: 31 gallons

Sampling Data:

- Sampling Method: (Bailer) or Pump
- Depth of Pump intake or bailer: ~37 feet
- Sample Date/Time: 9/21/05 @ 1100
- Color: Sl. Cloudy br.
- Odor: ND
- Sheen/Appearance: ND/cloudy

Notes:
1 - Field parameters obtained before sampling
2 - Field papameters obtained after sampling

"BSGDD0111" BTEX
PAH
~~SVO~~ Phenols
Cyanide

APPENDIX B
GROUNDWATER SAMPLES LABORATORY ANALYTICAL REPORT

Data Package

NYSDEC ASP Category A Data Package

Analytical Data Report Package
for
URS Corporation

Plattsburgh, NY
Water Samples
Collected on 09/21/05
Sample No. 4608587-4608599

SDG# PNY01

PA Cert. # 36-037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521

Prepared by Carolyn A Schwarz

Quality Assurance Review Ragi I. Doss

Date 10/12/05

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories, Inc. * 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 * 717-656-2300 Fax: 717-656-2681

TABLE OF CONTENTS

Sample Reference List for SDG Number PNY01
with a Data Package Type of NYSDEC A

08371 - URS Corporation
Plattsburgh, NY

Lab Sample Number	Lab Sample Code	Client Sample Description
4608587	MW01B	MW-01B_BSGUD0101 Grab Water Sample
4608588	MW09B	MW-09B_BSGDD0109 Grab Water Sample
4608589	MW03B	MW-03B_BSGDD0203 Grab Water Sample
4608590	MW11B	MW-11B_BSGDD0111 Grab Water Sample
4608591	MW10B	MW-10B_BSGDD0210 Grab Water Sample
4608592	MW06B	MW-06B_BSGDD0106 Grab Water Sample
4608593	MW07B	MW-07BD_BSGDD0107 Grab Water Sample
4608594	MW02B	MW-02B_BSGDD0102 Grab Water Sample
4608595	MW07S	MW-07BS_BSGDIM0107 Grab Water Sample
4608596	FD921	DUPLICATE_DUP09/21/05 Grab Water Sample
4608597	TB921	TRIP_BLANK_TB050921 Water Sample
4608598	DRUM1	DRUM1 Grab Water Sample
4608599	DRUM2	DRUM2 Grab Water Sample

acct 8371 grp 960341 #460858-99

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 38394376.10000

SITE NAME NYSEG-Bridge St. MGP - Plattsburgh, NY

SAMPLERS (PRINT/SIGNATURE) Eric Lovendusk: / E J Lovendusk

LAB Lancaster Laboratories

COOLER 1, 2, 3 of 3

PAGE 1 of 1

DELIVERY SERVICE: FED EX AIRBILL NO.: 8526 3824 8190

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TESTS: BTEX 8260B	PAH 8270C	Phenols 9065/420.2	Total Cyanide 335.3	Total Benzene	BOTTLE TYPE AND PRESERVATIVE: 40ml glass vial w/HCl	1 L amber w/ NaOH/Asc Acid	2 glass w/ H2SO4	Second poly NaOH/Asc Acid	4oz glass w/ HCl	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
MW-01B	9/21/05	0930	GRAB	BSGUD0101	WG	5	3		1	1								N1	—	—	
MW-09B	9/21/05	1000	GRAB	BSGDD0109	WG	3	3											N1	—	—	
MW-03B	9/21/05	~~1030~~ 1130	GRAB	BSGDD0203	WG	7	3	2	1	1								N1	—	—	
MW-11B	9/21/05	1100	GRAB	BSGDD0111	WG	7	3	2	1	1								N1	—	—	
MW-10B	9/21/05	~~1230~~ 1200	GRAB	BSGDD0210	WG	7	3	2	1	1								N1	—	—	
MW-06B	9/21/05	1230	GRAB	BSGDD0106	WG	4	3			1								N1	—	—	
MW-07BD	9/21/05	1300	GRAB	BSGDD0107	WG	4	3			1								N1	—	—	
MW-02B	9/21/05	1330	GRAB	BSGDD0102	WG	7	3	2	1	1								N1	—	—	
MW-07BS	9/21/05	1430	GRAB	BSGDIM0107	WG	7	3	2	1	1								N1	—	—	
DUPLICATE	9/21/05	—	GRAB	DUP 09/21/05	WG	7	3	2	1	1								FR1	—	—	
TRIP BLANK	9/21/05	—	GRAB	TB 050921	WQ	2	2											TB1	—	—	
DRUM 1	9/21/05	1500	GRAB	DRUM-1	WG	2	~~2~~									2					
DRUM 2	9/21/05	1510	GRAB	DRUM-2	WG	2	~~2~~									2					

MATRIX CODES

AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE.

SAMPLE TYPE CODES

TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	9/21/05	1515			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
				9/22/05	0905

SPECIAL INSTRUCTIONS

Contact Scott Halsapple w/ questions

1-518-688-0015

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CoICR/GCM

69

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2425 New Holland Pike • Lancaster, PA 17601

Environmental Sample Administration
Receipt Documentation Log

Client/Project: URS Corp. (NY)

Date of Receipt: 9/22/05

Time of Receipt: 0905

Source Code: 50-1

Shipping Container Sealed: (Y) / N (BW 9/19/05)

Custody Seal Present: (Y) / N

Custody Seal Intact: (Y) / N / NA

Package: (Chilled) / Not Chilled

Unpacker Emp. No.: 1696

Temperature of Shipping Containers	
#1	#2
Thermometer ID: 429983	Thermometer ID: 429983
Temp.: 5.6°	Temp.: 5.3°
(Temp. Bottle) / Surface Temp.	(Temp. Bottle) / Surface Temp.
(Wet Ice) / Dry Ice / Ice Packs	(Wet Ice) / Dry Ice / Ice Packs
Ice Present? (Y) N Loose (Bagged)	Ice Present? (Y) N Loose (Bagged)
#3	#4
Thermometer ID: 429985	Thermometer ID:
Temp.: 5.2°	Temp.:
(Temp. Bottle) / Surface Temp.	Temp. Bottle / Surface Temp.
(Wet Ice) / Dry Ice / Ice Packs	Wet Ice / Dry Ice / Ice Packs
Ice Present? (Y) / N Loose / (Bagged)	Ice Present? Y / N Loose / Bagged

Paperwork Discrepancy/Unpacking Problems: Missing all containers for location MW-038 @ 1000 (7 Total)

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
Jayson Tkach	9/22/05	1420	Unpacking to Storage
Trudy Bedard	9/22/05	1919	Place in Storage or (Entry)
			Remove from Storage
			Place in Storage or Entry
			Entry

Chain-of-Custody Record

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Secure Storage Chain of Custody
Original Sample

Client/Project: URS Corporation/Plattsburgh, NY _____

Preservative: HCl _____ Matrix: WW _____ SDG: PNY01 _____

Sample # Range of Entry Group: 4608587-99 Bottle Type: (38) 40mL vial

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody	Dist., Extr., or Digest Chain Created (X)
4608587-99	391 TJBedard	VOA Refrig.	9/22/05	2035 TJB	Entry to Storage	
4608587-99	VOA Refrig.	SUB/1551	09/23/05	08:15	transfer	
4608587-99	SUB/1551	DEPT. 21 Refrig.	09/23/05	08:30	STORAGE	
4608587-99	DP21 Refrig.	L492 Amdale	9/26/05	09:00	prepare for analysis (dilutions)	
4608587-99	L492 Amdale	HP07159 Archon	9/26/05	09:30	VOA analysis 2305/1163	
4608587-99	HP07159 Archon	SML 1693	9/26/05	15:15	continuation of analysis	
4608587-99	~~HP0715~~ Archon	Dept21 Storage	9/26/05	18:00	analysis complete	
4608597	Dept21 Storage	L492 Amdale	9/30/05	6:00	re analysis	
4608597	L492 Amdale	HP07159 Archon	9/30/05	6:00	re analysis	
4608597	HP07159 Archon	L492 Amdale	9/30/05	11:00	pH	
4608597	L492 Amdale	Dept21 Storage	9/30/05	11:00	re analysis complete	
						0885

SML 1693 9/26/05

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Secure Storage Chain of Custody
Original Sample

Client/Project: URS Corporation/Plattsburgh, NY

Preservative: Na2S2O3 _____ Matrix: WW _____ SDG: PNY01 _____

Sample # Range of Entry Group: 4608587-99 Bottle Type: (45) 1000mL amber

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody	Dist., Extr., or Digest Chain Created (X)
4608589-91,94-96	391 TJBedard	SA Storage	9/22/05	2035 TJB	Entry to Storage	
4608589-91,94-96	[illegible]	[illegible]	9.23.05	1215	[illegible]	
4608589-91,94-96	Main Storage	D Trimble 277	9.26-05	0745	PAN No PNP	X
4608589-91, 9496	D Trimble 277	Main Storage	9/26/05	1305	Storage	
						0006

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Secure Storage Chain of Custody
Original Sample

Client/Project: URS Corporation/Plattsburgh, NY

Preservative: NaOH/Ascorbic Acid___ Matrix: WW _____ SDG: PNY01 _____

Sample # Range of Entry Group: 4608587-99 Bottle Type: (02) 500mL plastic

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody	Dist., Extr., or Digest Chain Created (X)
4608587,89-96	391 TJBidard	SA Storage	9/22/05	2035 TJB	Entry to Storage	
4608587,89-96	SA Storage	S. Sandon	9.23.05	1200	pinchock	
4608587,89-96	S. Sandon	main Storage	9.23.05	1210	storage	
4608587 89-96	Main Storage	CYTian 1242	09-27-05 07:00	7:00 10:45	CN prep	X
4608567,89-96	CYTian 1242	Main Storage	09-27-05	10:45	storage	
						9997

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Secure Storage Chain of Custody
Original Sample

Client/Project: URS Corporation/Plattsburgh, NY

Preservative: H2SO4 _____ Matrix: WW _____ SDG: PNY01 _____

Sample # Range of Entry Group: 4608587-99 Bottle Type: (03) 1000mL glass

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody	Dist., Extr., or Digest Chain Created (X)
4608587,89-91,94-96	391 TBerdard	SA Storage	9/22/05	2035 TB	Entry to Storage	
4608587,89-91,94-96	SA Storage	391 TBerdard	9-23-05	1200	Archive	
4608587,89-91,94-96	391 TBerdard	Main Storage	9-23-05	1210	Storage	
4608587, 89, 90, 91, 94-96	main Storage	NJ Shop 120	9-27-05	1220	phenol prep	x
4608587, 89, 90, 91, 94-96	NJ Shop 120	main Storage	9-27-05	1515	Storage	
						0000

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Secure Storage Chain of Custody
Original Sample

Client/Project: URS Corporation/Plattsburgh, NY

Preservative: HCl _____ Matrix: WW _____ SDG: PNY01 _____

Sample # Range of Entry Group: 4608587-99 Bottle Type: (38c) 40mL vial-prescreen

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody	Dist., Extr., or Digest Chain Created (X)
4608587-96	391 TJBedard	VOA Refrig.	9/22/05	2035 TJB	Entry to Storage	
4608587-96	voa refrig	JM1532	9-23-05	00:10	for Prescreening	
4608587-96	JM1532	voa Storage	9-23-05	02:45	entry to voa storage (8)	
						8889

2016.01

documented 9-29-05 06:40

Lancaster Laboratories

Organic Extraction
Secure Storage Chain of Custody
Extract

BATCH NO. 05267WAA026

Client URS Corporation

SDG: PNY01

Analysis: PAH by GC/MS - Water

Sample IDs

4608589	4608590	4608591	4608594	4608595	4608596

Sample Number(s)	Released by	Received by	Date	Time	Reason for Change of Custody
4608589, 90-94-96	D. Trimmer 277	Dept 26 Storage	9/26/05	1430	Storage
4608589-91,94-96	Dept 26 Storage	C68 Ahahaim	9/26/05	21:45	Internalization
4608589-91,94-96	C68 Ahahaim	HP09910	9/26/05	21:50	Analysis
4608589-91,94-96	HP09910	C68 Ahahaim	9/27/05	19:30	Re Cap
4608589-91,94-96	C68 Ahahaim	Dept 26 Storage	9/27/05	19:35	Storage
					0010

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601-5994

Department Storage Chain of Custody
Water Quality

Digest **Distillate** **Extract** **Filtrate** **Subsample**

Client/Project: URS Corporation / Plattsburgh, NY

Sample # Range for Entry Group: 460857 - 99

SDG: PNY 01 Bottle Type: 83

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody
09-27-05 460857, 89-96	CYTian 1242	Dept 27 Storage	09-27-05	11:50	CN distillation Completed / Storage
3) 9.28.05 460857, 89-96	Dept 27 Storage	Richard Lee	9.28.05	18:00	CN Analysis
460857, 89-96	Richard Lee	Dept 27 Storage	9.28.05	2130	CN Analysis Complete Storage

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2425 New Holland Pike • Lancaster, PA 17601-5994

Department Storage Chain of Custody
Water Quality

Digest | (Distillate) | Extract | Filtrate | Subsample

Client/Project: URS Corp. / Plattsburgh, Ny.

Sample # Range for Entry Group: 4608587-99

SDG: PNY01 Bottle Type: 03 (40ml vial)

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody
4608587, 89, 90, 91 94-96	NJ Shoop 1203	Dept 21	9-27-05	1835	Prep complete / Storage
4608587, 89-91, 94-96	Dept Storage	McFadden	9.27.05	1630	Phenol Analysis
③9.27.05 Limited 4608587, 89-91, 94-96	McFadden	Dept Storage	9.27.05	00.00	Phenol Analysis Complete/Storage
					8812

2237 Rev. 09/18/95

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METHODOLOGY SUMMARY/REFERENCE

1163 GC/MS Volatiles Water Preparation

An undiluted aliquot of the water sample is purged and the volatile compounds are collected on a sorbent trap that is subsequently desorbed onto a gas chromatographic column.

Reference: Test Methods for Evaluating Solid Waste, SW-846, Method 5030B, Revision 2, December 1996.

****

2300 UST - Unleaded Waters by 8260B

The water sample is purged and the volatile compounds are collected on a sorbent trap that is subsequently desorbed onto the GC/MS system for chromatographic and mass spectral analysis.

Reference: Test Methods for Evaluating Solid Waste, SW-846, Method 8260B, Revision 2, December 1996

****

7805 PAH's in Water by GC/MS

The sample is solvent extracted and then analyzed by GC/MS.

Reference: Test Methods for Evaluating Solid Waste SW-846, Method 8270C, December 1996

****

0492 Cyanide Water Distillation

The sample is acidified and distilled. Cyanide is released as hydrogen cyanide and is absorbed in a sodium hydroxide solution.

Reference: Methods for Chemical Analysis of Water and Wastes, USEPA 600/4-79-020, Method 335.4

****

0491 Phenol Distillation (water)

The sample is acidified and the phenols distilled from nonvolatile impurities. 0013

Reference: Methods for Chemical Analysis of Water and Wastes USEPA 600/4-79-020, Method 420.1

0434 Phenols (water) USEPA

This method is based on automated distillation of phenol and the subsequent reaction with 4-aminoantipyrine in basic buffer to produce a red-colored complex. The absorbance is read at 505 nm and is compared to a standard curve. An Autoanalyzer is used.

Reference: Methods for Chemical Analysis of Water and Wastes, USEPA 600/4-79-020, Method 420.2

****

0237 Total Cyanide (water)

Digestion and flash distillation of the sample aid in breaking down the complex cyanides to HCN. Simple cyanides are converted to cyanogen chloride by reaction with Chloramine T. This reacts with pyridine and barbituric acid reagent to give a red-colored complex. The absorbance is read at 570 nm and is compared to a standard curve. An Alpkem Autoanalyzer is used.

Reference: Methods for Chemical Analysis of Water and Wastes USEPA 600/4-79-020, Method 335.4

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Lancaster Laboratories

ANALYTICAL RESULTS

Prepared for:

URS Corporation
28 Corporate Drive
Suite 200
Clifton Park NY 12065

518-688-0015

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 960341. Samples arrived at the laboratory on Thursday, September 22, 2005. The PO# for this group is 38394376.100000 and the release number is 38374376.10000.

Client Description	Lancaster Labs Number
MW-01B_BSGUD0101 Grab Water Sample	4608587
MW-09B_BSGDD0109 Grab Water Sample	4608588
MW-03B_BSGDD0203 Grab Water Sample	4608589
MW-11B_BSGDD0111 Grab Water Sample	4608590
MW-10B_BSGDD0210 Grab Water Sample	4608591
MW-06B_BSGDD0106 Grab Water Sample	4608592
MW-07BD_BSGDD0107 Grab Water Sample	4608593
MW-02B_BSGDD0102 Grab Water Sample	4608594
MW-07BS_BSGDIM0107 Grab Water Sample	4608595
DUPLICATE_DUP09/21/05 Grab Water Sample	4608596
TRIP_BLANK_TB050921 Water Sample	4608597
DRUM1 Grab Water Sample	4608598
DRUM2 Grab Water Sample	4608599

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO	URS Corporation	Attn: Scott M. Hulseapple
1 COPY TO	URS Corporation	Attn: Scott M. Hulseapple
1 COPY TO	Data Package Group	

0015

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Questions? Contact Environmental Client Services

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

0016

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PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4608587

MW-01B_BSGUD0101 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 09:30 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/06/2005 at 14:40
Discard: 10/14/2005

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28 Corporate Drive
Suite 200
Clifton Park NY 12065

MW01B SDG#: PNY01-01

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00237	Total Cyanide (water)	57-12-5	N.D.		0.0050	mg/l	1
00434	Phenols (water)	n.a.	N.D.		0.024	mg/l	1
	The quantitation limit for phenols was increased due to the nature of the sample matrix.						
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	0.9	J	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.8	ug/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00237	Total Cyanide (water)	EPA 335.4	1	09/28/2005 19:48	Venia B McFadden	1
00434	Phenols (water)	EPA 420.2	1	09/28/2005 02:42	Venia B McFadden	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/26/2005 11:34	Anita M Dale	1
00491	Phenol Distillation (water)	EPA 420.1	1	09/27/2005 14:25	Nancy J Shoop	1
00492	Cyanide Water Distillation	EPA 335.4	1	09/27/2005 09:25	Choon Y Tian	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/26/2005 11:34	Anita M Dale	n.a.

0817

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Lancaster Laboratories Sample No. WW 4608588

MW-09B_BSGDD0109 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 10:00 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/06/2005 at 14:40
Discard: 10/14/2005

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Suite 200
Clifton Park NY 12065

MW09B SDG#: PNY01-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02300	UST-Unleaded Waters by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/26/2005 13:52	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/26/2005 13:52	Anita M Dale	n.a.

0019

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4608589

MW-03B_BSGDD0203 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 11:30 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/06/2005 at 14:40
Discard: 10/14/2005

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28 Corporate Drive
Suite 200
Clifton Park NY 12065

MW03B SDG#: PNY01-03

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00237	Total Cyanide (water)	57-12-5	N.D.		0.0050	mg/l	1
00434	Phenols (water)	n.a.	0.027	J	0.012	mg/l	1
07805	PAHs in Water by GC/MS						
03947	Naphthalene	91-20-3	440.		10.	ug/l	10
03951	Acenaphthylene	208-96-8	3.	J	1.	ug/l	1
03954	Acenaphthene	83-32-9	23.		1.	ug/l	1
03956	Fluorene	86-73-7	2.	J	1.	ug/l	1
03963	Phenanthrene	85-01-8	1.	J	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.		1.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.		1.	ug/l	1
03967	Pyrene	129-00-0	N.D.		1.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.		1.	ug/l	1
03971	Chrysene	218-01-9	N.D.		1.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.		1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.		1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.		1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.		1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.		1.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	310.		5.	ug/l	10
05407	Toluene	108-88-3	50.		0.7	ug/l	1
05415	Ethylbenzene	100-41-4	97.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	81.		0.8	ug/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00237	Total Cyanide (water)	EPA 335.4	1	09/28/2005 19:49	Venia B McFadden	1
00434	Phenols (water)	EPA 420.2	1	09/28/2005 02:43	Venia B McFadden	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/27/2005 01:42	Jolene M Graham	1

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Lancaster Laboratories Sample No. WW 4608589

MW-03B_BSGDD0203 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 11:30 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/06/2005 at 14:40
Discard: 10/14/2005

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MW03B SDG#: PNY01-03

07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/27/2005 16:33	Jolene M Graham	10
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/26/2005 12:43	Anita M Dale	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/26/2005 13:06	Anita M Dale	10
00491	Phenol Distillation (water)	EPA 420.1	1	09/27/2005 14:25	Nancy J Shoop	1
00492	Cyanide Water Distillation	EPA 335.4	1	09/27/2005 09:25	Choon Y Tian	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/26/2005 12:43	Anita M Dale	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	2	09/26/2005 13:06	Anita M Dale	n.a.
07807	BNA Water Extraction	SW-846 3510C	1	09/26/2005 06:30	Denise L Trimby	1

0828

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Lancaster Laboratories Sample No. WW 4608590

MW-11B_BSGDD0111 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 11:00 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/06/2005 at 14:40
Discard: 10/14/2005

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MW11B SDG#: PNY01-04

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00237	Total Cyanide (water)	57-12-5	N.D.		0.0050	mg/l	1
00434	Phenols (water)	n.a.	0.25		0.012	mg/l	1
07805	PAHs in Water by GC/MS						
03947	Naphthalene	91-20-3	24.		1.	ug/l	1
03951	Acenaphthylene	208-96-8	6.		1.	ug/l	1
03954	Acenaphthene	83-32-9	2.	J	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.		1.	ug/l	1
03963	Phenanthrene	85-01-8	1.	J	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.		1.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.		1.	ug/l	1
03967	Pyrene	129-00-0	N.D.		1.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.		1.	ug/l	1
03971	Chrysene	218-01-9	N.D.		1.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.		1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.		1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.		1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.		1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.		1.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	10.		0.5	ug/l	1
05407	Toluene	108-88-3	14.		0.7	ug/l	1
05415	Ethylbenzene	100-41-4	5.	J	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	12.		0.8	ug/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
00237	Total Cyanide (water)	EPA 335.4	1	09/28/2005 19:51	Venia B McFadden	1
00434	Phenols (water)	EPA 420.2	1	09/28/2005 02:47	Venia B McFadden	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/27/2005 02:03	Jolene M Graham	1

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Lancaster Laboratories Sample No. WW 4608590

MW-11B_BSGDD0111 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 11:00 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/06/2005 at 14:40
Discard: 10/14/2005

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28 Corporate Drive
Suite 200
Clifton Park NY 12065

MW11B SDG#: PNY01-04

02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/26/2005 13:29	Anita M Dale	1
00491	Phenol Distillation (water)	EPA 420.1	1	09/27/2005 14:25	Nancy J Shoop	1
00492	Cyanide Water Distillation	EPA 335.4	1	09/27/2005 09:25	Choon Y Tian	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/26/2005 13:29	Anita M Dale	n.a.
07807	BNA Water Extraction	SW-846 3510C	1	09/26/2005 06:30	Denise L Trimby	1

0022

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Lancaster Laboratories Sample No. WW 4608591

MW-10B_BSGDD0210 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 12:00 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/06/2005 at 14:40
Discard: 10/14/2005

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28 Corporate Drive
Suite 200
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MW10B SDG#: PNY01-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00237	Total Cyanide (water)	57-12-5	N.D.	0.0050	mg/l	1
00434	Phenols (water)	n.a.	0.015 J	0.012	mg/l	1
07805	PAHs in Water by GC/MS					
03947	Naphthalene	91-20-3	N.D.	1.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	ug/l	1
02300	UST-Unleaded Waters by 8260B					
05401	Benzene	71-43-2	2. J	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00237	Total Cyanide (water)	EPA 335.4	1	09/28/2005 19:52	Venia B McFadden	1
00434	Phenols (water)	EPA 420.2	1	09/28/2005 02:48	Venia B McFadden	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/27/2005 02:24	Jolene M Graham	1

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4608591

MW-10B_BSGDD0210 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 12:00 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/06/2005 at 14:40
Discard: 10/14/2005

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Suite 200
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MW10B SDG#: PNY01-05

02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/26/2005 11:57	Anita M Dale	1
00491	Phenol Distillation (water)	EPA 420.1	1	09/27/2005 14:25	Nancy J Shoop	1
00492	Cyanide Water Distillation	EPA 335.4	1	09/27/2005 09:25	Choon Y Tian	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/26/2005 11:57	Anita M Dale	n.a.
07807	BNA Water Extraction	SW-846 3510C	1	09/26/2005 06:30	Denise L Trimby	1

0024

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Lancaster Laboratories Sample No. WW 4608592

MW-06B_BSGDD0106 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 12:30 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/06/2005 at 14:40
Discard: 10/14/2005

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MW06B SDG#: PNY01-06

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00237	Total Cyanide (water)	57-12-5	N.D.		0.0050	mg/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	3.	J	0.5	ug/l	1
05407	Toluene	108-88-3	11.		0.7	ug/l	1
05415	Ethylbenzene	100-41-4	22.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	57.		0.8	ug/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00237	Total Cyanide (water)	EPA 335.4	1	09/28/2005 19:53	Venia B McFadden	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/26/2005 14:15	Anita M Dale	1
00492	Cyanide Water Distillation	EPA 335.4	1	09/27/2005 09:25	Choon Y Tian	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/26/2005 14:15	Anita M Dale	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	2	09/26/2005 14:39	Anita M Dale	n.a.

0025

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4608593

MW-07BD_BSGDD0107 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 13:00 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/10/2005 at 08:27
Discard: 10/18/2005

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28 Corporate Drive
Suite 200
Clifton Park NY 12065

MW07B SDG#: PNY01-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00237	Total Cyanide (water)	57-12-5	N.D.	0.0050	mg/l	1
02300	UST-Unleaded Waters by 8260B					
05401	Benzene	71-43-2	830.	5.	ug/l	10
05407	Toluene	108-88-3	1,300.	7.	ug/l	10
05415	Ethylbenzene	100-41-4	980.	8.	ug/l	10
06310	Xylene (Total)	1330-20-7	2,100.	8.	ug/l	10

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00237	Total Cyanide (water)	EPA 335.4	1	09/28/2005 19:54	Venia B McFadden	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/26/2005 15:02	Anita M Dale	10
00492	Cyanide Water Distillation	EPA 335.4	1	09/27/2005 09:25	Choon Y Tian	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/26/2005 15:02	Anita M Dale	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	2	09/26/2005 15:25	Anita M Dale	n.a.

0026

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4608594

MW-02B_BSGDD0102 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 13:30 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/10/2005 at 08:27
Discard: 10/18/2005

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Clifton Park NY 12065

MW02B SDG#: PNY01-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00237	Total Cyanide (water)	57-12-5	N.D.	0.0050	mg/l	1
00434	Phenols (water)	n.a.	N.D.	0.012	mg/l	1
07805	PAHs in Water by GC/MS					
03947	Naphthalene	91-20-3	150,000.	1,700.	ug/l	200
03951	Acenaphthylene	208-96-8	45,000.	830.	ug/l	100
03954	Acenaphthene	83-32-9	7,100.	83.	ug/l	10
03956	Fluorene	86-73-7	18,000.	830.	ug/l	100
03963	Phenanthrene	85-01-8	79,000.	830.	ug/l	100
03964	Anthracene	120-12-7	16,000.	830.	ug/l	100
03966	Fluoranthene	206-44-0	33,000.	830.	ug/l	100
03967	Pyrene	129-00-0	45,000.	830.	ug/l	100
03970	Benzo(a)anthracene	56-55-3	11,000.	830.	ug/l	100
03971	Chrysene	218-01-9	9,800.	830.	ug/l	100
03975	Benzo(b)fluoranthene	205-99-2	8,700.	83.	ug/l	10
03976	Benzo(k)fluoranthene	207-08-9	4,200.	83.	ug/l	10
03977	Benzo(a)pyrene	50-32-8	11,000.	830.	ug/l	100
03978	Indeno(1,2,3-cd)pyrene	193-39-5	4,500.	83.	ug/l	10
03979	Dibenz(a,h)anthracene	53-70-3	1,000.	83.	ug/l	10
03980	Benzo(g,h,i)perylene	191-24-2	6,600.	83.	ug/l	10

Due to sample matrix interferences observed during the extraction, the normal reporting limits could not be obtained.

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.

02300	UST-Unleaded Waters by 8260B					
05401	Benzene	71-43-2	850.	5.	ug/l	10
05407	Toluene	108-88-3	1,300.	7.	ug/l	10
05415	Ethylbenzene	100-41-4	970.	8.	ug/l	10
06310	Xylene (Total)	1330-20-7	1,600.	8.	ug/l	10

8827

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4608594

MW-02B_BSGDD0102 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 13:30 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/10/2005 at 08:27
Discard: 10/18/2005

URS Corporation
28 Corporate Drive
Suite 200
Clifton Park NY 12065

MW02B SDG#: PNY01-08

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00237	Total Cyanide (water)	EPA 335.4	1	09/28/2005 19:55	Venia B McFadden	1
00434	Phenols (water)	EPA 420.2	1	09/28/2005 02:49	Venia B McFadden	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/27/2005 16:54	Jolene M Graham	10
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/27/2005 17:16	Jolene M Graham	100
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/27/2005 18:41	Jolene M Graham	200
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/26/2005 15:48	Anita M Dale	10
00491	Phenol Distillation (water)	EPA 420.1	1	09/27/2005 14:25	Nancy J Shoop	1
00492	Cyanide Water Distillation	EPA 335.4	1	09/27/2005 09:25	Choon Y Tian	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/26/2005 15:48	Anita M Dale	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	2	09/26/2005 16:11	Anita M Dale	n.a.
07807	BNA Water Extraction	SW-846 3510C	1	09/26/2005 06:30	Denise L Trimby	1

0020

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4608595

MW-07BS_BSGDIM0107 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 14:30 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/10/2005 at 08:28
Discard: 10/18/2005

URS Corporation
28 Corporate Drive
Suite 200
Clifton Park NY 12065

MW07S SDG#: PNY01-09

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00237	Total Cyanide (water)	57-12-5	N.D.		0.0050	mg/l	1
00434	Phenols (water)	n.a.	N.D.		0.012	mg/l	1
07805	PAHs in Water by GC/MS						
03947	Naphthalene	91-20-3	150.		5.	ug/l	5
03951	Acenaphthylene	208-96-8	39.		1.	ug/l	1
03954	Acenaphthene	83-32-9	130.		5.	ug/l	5
03956	Fluorene	86-73-7	40.		1.	ug/l	1
03963	Phenanthrene	85-01-8	140.		5.	ug/l	5
03964	Anthracene	120-12-7	25.		1.	ug/l	1
03966	Fluoranthene	206-44-0	44.		1.	ug/l	1
03967	Pyrene	129-00-0	56.		1.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	11.		1.	ug/l	1
03971	Chrysene	218-01-9	11.		1.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	11.		1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	4.	J	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	13.		1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	6.		1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.		1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	9.		1.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	35.		0.5	ug/l	1
05407	Toluene	108-88-3	5.	J	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	18.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	17.		0.8	ug/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00237	Total Cyanide (water)	EPA 335.4	1	09/28/2005 19:56	Venia B McFadden	1
00434	Phenols (water)	EPA 420.2	1	09/28/2005 02:51	Venia B McFadden	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/27/2005 03:07	Jolene M Graham	1

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4608595

MW-07BS_BSGDIM0107 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 14:30 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/10/2005 at 08:28
Discard: 10/18/2005

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Suite 200
Clifton Park NY 12065

MW07S SDG#: PNY01-09

07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/27/2005 17:37	Jolene M Graham	5
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/26/2005 16:34	Anita M Dale	1
00491	Phenol Distillation (water)	EPA 420.1	1	09/27/2005 14:25	Nancy J Shoop	1
00492	Cyanide Water Distillation	EPA 335.4	1	09/27/2005 09:25	Choon Y Tian	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/26/2005 16:34	Anita M Dale	n.a.
07807	BNA Water Extraction	SW-846 3510C	1	09/26/2005 06:30	Denise L Trimby	1

0038

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4608596

DUPLICATE_DUP09/21/05 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/10/2005 at 08:28
Discard: 10/18/2005

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28 Corporate Drive
Suite 200
Clifton Park NY 12065

FD921 SDG#: PNY01-10FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00237	Total Cyanide (water)	57-12-5	N.D.	0.0050	mg/l	1
00434	Phenols (water)	n.a.	N.D.	0.012	mg/l	1
07805	PAHs in Water by GC/MS					
03947	Naphthalene	91-20-3	380,000.	5,000.	ug/l	50
03951	Acenaphthylene	208-96-8	120,000.	5,000.	ug/l	50
03954	Acenaphthene	83-32-9	19,000.	1,000.	ug/l	10
03956	Fluorene	86-73-7	50,000.	1,000.	ug/l	10
03963	Phenanthrene	85-01-8	200,000.	5,000.	ug/l	50
03964	Anthracene	120-12-7	43,000.	1,000.	ug/l	10
03966	Fluoranthene	206-44-0	85,000.	1,000.	ug/l	10
03967	Pyrene	129-00-0	120,000.	1,000.	ug/l	10
03970	Benzo(a)anthracene	56-55-3	31,000.	1,000.	ug/l	10
03971	Chrysene	218-01-9	28,000.	1,000.	ug/l	10
03975	Benzo(b)fluoranthene	205-99-2	21,000.	1,000.	ug/l	10
03976	Benzo(k)fluoranthene	207-08-9	7,500.	100.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	30,000.	1,000.	ug/l	10
03978	Indeno(1,2,3-cd)pyrene	193-39-5	12,000.	100.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	2,500.	100.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	17,000.	1,000.	ug/l	10
	Due to sample matrix interferences observed during the extraction, the normal reporting limits could not be obtained.					
02300	UST-Unleaded Waters by 8260B					
05401	Benzene	71-43-2	870.	5.	ug/l	10
05407	Toluene	108-88-3	1,400.	7.	ug/l	10
05415	Ethylbenzene	100-41-4	1,000.	8.	ug/l	10
06310	Xylene (Total)	1330-20-7	1,700.	8.	ug/l	10

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4608596

DUPLICATE_DUP09/21/05 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/10/2005 at 08:28
Discard: 10/18/2005

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Suite 200
Clifton Park NY 12065

FD921 SDG#: PNY01-10FD

00237	Total Cyanide (water)	EPA 335.4	1	09/28/2005 20:00	Venia B McFadden	1
00434	Phenols (water)	EPA 420.2	1	09/28/2005 02:52	Venia B McFadden	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/27/2005 03:28	Jolene M Graham	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/27/2005 17:58	Jolene M Graham	10
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/27/2005 18:20	Jolene M Graham	50
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/26/2005 16:56	Anita M Dale	10
00491	Phenol Distillation (water)	EPA 420.1	1	09/27/2005 14:25	Nancy J Shoop	1
00492	Cyanide Water Distillation	EPA 335.4	1	09/27/2005 09:25	Choon Y Tian	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/26/2005 16:56	Anita M Dale	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	2	09/26/2005 17:19	Anita M Dale	n.a.
07807	BNA Water Extraction	SW-846 3510C	1	09/26/2005 06:30	Denise L Trimby	1

0032

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4608597

TRIP_BLANK_TB050921 Water Sample
Plattsburgh, NY

Collected:09/21/2005

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/06/2005 at 14:41
Discard: 10/14/2005

URS Corporation
28 Corporate Drive
Suite 200
Clifton Park NY 12065

TB921 SDG#: PNY01-11TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02300	UST-Unleaded Waters by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/30/2005 10:45	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/30/2005 10:45	Anita M Dale	n.a.

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4608598

DRUM1 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 15:00 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/06/2005 at 14:41
Discard: 10/14/2005

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28 Corporate Drive
Suite 200
Clifton Park NY 12065

DRUM1 SDG#: PNY01-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02300	UST-Unleaded Waters by 8260B					
05401	Benzene	71-43-2	610.	10.	ug/l	20

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	10/05/2005 21:51	Susan McMahon-Luu	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/05/2005 21:51	Susan McMahon-Luu	n.a.

0034

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Lancaster, PA 17605-2425
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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4608599

DRUM2 Grab Water Sample
Plattsburgh, NY

Collected:09/21/2005 15:10 by EL

Account Number: 08371

Submitted: 09/22/2005 09:05
Reported: 10/06/2005 at 14:41
Discard: 10/14/2005

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28 Corporate Drive
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DRUM2 SDG#: PNY01-13*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02300	UST-Unleaded Waters by 8260B					
05401	Benzene	71-43-2	200.	3.	ug/l	5

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	10/05/2005 22:14	Susan McMahon-Luu	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/05/2005 22:14	Susan McMahon-Luu	n.a.

0035

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Volatiles by GC/MS Data

Case Narrative
Conformance/Nonconformance Summary

CASE NARRATIVE

Client: URS Corporation
SDG#: PNY01

LANCASTER LABORATORIES
VOLATILES BY GC/MS

SAMPLE NUMBER(S) :

LL #'s	Sample Code	Matrix Water	Comments
4608587	MW01B	X	
4608588	MW09B	X	
4608589	MW03B	X	
4608589	MW03BDL	X	10 X Dilution
4608590	MW11B	X	
4608591	MW10B	X	Unspiked
4608591	MW10BMS	X	Matrix Spike
4608592	MW06B	X	
4608592	MW06BDL	X	10 X Dilution
4608593	MW07B	X	10 X Dilution
4608593	MW07BDL	X	100 X Dilution
4608594	MW02B	X	10 X Dilution
4608594	MW02BDL	X	100 X Dilution
4608595	MW07S	X	
4608596	FD921	X	10 X Dilution
4608596	FD921DL	X	100 X Dilution
4608597	TB921	X	Client Blank
4608598	DRUM1	X	20 X Dilution
4608599	DRUM2	X	5 X Dilution

LABORATORY SUBMITTED QC:

VBLKL31	VBLKL31	X	Method Blank
VBLKN09	VBLKN09	X	Method Blank
VBLKN20	VBLKN20	X	Method Blank
LCSL31	LCSL31	X	Lab Control Sample
LCSN09	LCSN09	X	Lab Control Sample
LCDN09	LCDN09	X	Lab Control Sample Dup
LCSN20	LCSN20	X	Lab Control Sample

0038

SAMPLE PREPARATION:

No sample preparation was necessary for the VOA fraction.

ANALYSIS:

The method used for analysis was EPA SW846 Method 8260B, following NYSDEC Method 95-1 (10/95).

The vials submitted for several samples did not have a pH< 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.

The reporting limits for several samples were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

No problems were encountered during the analysis of these samples.

QUALITY CONTROL and NONCONFORMANCE SUMMARY:

Only client requested compounds are addressed in this narrative.

Sufficient sample was not available to perform an MSD for this SDG. However, an MS was performed. In addition, an LCS/LCD was performed to demonstrate precision and accuracy at a batch level.

All QC was within specifications.

DATA INTERPRETATION:

The instrument performance check using 4-bromofluorobenzene was evaluated using the criteria in the NYSDEC method.

No further interpretation is necessary for the data submitted.

CALCULATIONS:

1. Relative response factor (RRF)

$$RRF = \frac{Ax}{Ais} \times \frac{Cis}{Cx}$$

Where :
Ax = Area of the characteristic ion for the compound to be measured.
Ais = Area of the characteristic ion for the specific internal standard to be measured.
Cis = Concentration of the internal standard.
Cx = Concentration of the compound to be measured.

0039

2. % Relative Standard Deviation (%RSD)

$$\%RSD = \frac{\text{Standard deviation}}{\text{mean}} \times 100$$

3. % Difference (%D)

$$\%D = \frac{RRFc - RRFi}{RRFi} \times 100$$

Where:
RRFc=Relative response factor from continuing calibration standard.
RRFi = Mean relative response factor from the initial calibration.

4. Concentration

$$\text{Concentration (ug/l)} = \frac{(Ax)\ (Is)\ (Df)}{(Ais)\ (RRF)}$$

Where:
Ax , Ais, RRF are as given in 1. above.
Is = Concentration of internal standard added in parts per billion (ug/l)
Df = Dilution factor

5. % Recovery (%Rec)

$$\%Rec = \frac{SSR - SR}{SA} \times 100$$

Where:
SSR = Spiked sample result
SR = Sample result
SA = Spike added

6. Relative Percent Difference (RPD)

$$RPD = \frac{|\ MSR - MSDR\ |}{(1/2)\ (MSR+MSDR)} \times 100$$

Where:
MSR = Matrix spike recovery
MSDR = Matrix spike duplicate recovery

Case Narrative reviewed and approved by:

John F. Morton Date 10/12/05
John F. Morton, M.S., GC/MS Volatiles

Lancaster Laboratories ♦ 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425
♦ Phone: 717-656-2300 ♦ Fax: 717-656-2681 ♦ http:// www.LancasterLabs.com

Sample Data

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW01B

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608587

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s06.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	0.9	J
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
98-82-8	Isopropylbenzene	5	U
91-20-3	Naphthalene	5	U

0043

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW09B

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608588

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s12.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
98-82-8	Isopropylbenzene	5	U
91-20-3	Naphthalene	5	U

8844

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW03B

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608589

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s09.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	360	E
108-88-3	Toluene	50	
100-41-4	Ethylbenzene	97	
1330-20-7	Xylene (Total)	81	
98-82-8	Isopropylbenzene	5	J

0045

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW03BDL

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608589

Sample wt/vol: 0.50 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s10.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	50	U
71-43-2	Benzene	310	D
108-88-3	Toluene	40	J D
100-41-4	Ethylbenzene	79	D
1330-20-7	Xylene (Total)	64	D
98-82-8	Isopropylbenzene	50	U
91-20-3	Naphthalene	360	D

0046

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW11B

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608590

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s11.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	10	
108-88-3	Toluene	14	
100-41-4	Ethylbenzene	5	J
1330-20-7	Xylene (Total)	12	
98-82-8	Isopropylbenzene	1	J
91-20-3	Naphthalene	26	

0047

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10B

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608591

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s07.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	2	J
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
98-82-8	Isopropylbenzene	5	U
91-20-3	Naphthalene	5	U

0648

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW06B

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608592

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s13.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	3	J
108-88-3	Toluene	11	
100-41-4	Ethylbenzene	22	
1330-20-7	Xylene (Total)	57	
98-82-8	Isopropylbenzene	3	J
91-20-3	Naphthalene	430	E

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FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW06BDL

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608592

Sample wt/vol: 0.50 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s14.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	50	U
71-43-2	Benzene	50	U
108-88-3	Toluene	9	J D
100-41-4	Ethylbenzene	21	J D
1330-20-7	Xylene (Total)	52	D
98-82-8	Isopropylbenzene	50	U
91-20-3	Naphthalene	880	D

0059

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW07B

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608593

Sample wt/vol: 0.50 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s15.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	50	U
71-43-2	Benzene	830	
108-88-3	Toluene	1300	
100-41-4	Ethylbenzene	980	
1330-20-7	Xylene (Total)	2100	
98-82-8	Isopropylbenzene	44	J
91-20-3	Naphthalene	4800	E

0051

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW07BDL

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608593

Sample wt/vol: 0.05 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s16.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 100.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	500	U
71-43-2	Benzene	900	D
108-88-3	Toluene	1400	D
100-41-4	Ethylbenzene	1000	D
1330-20-7	Xylene (Total)	2300	D
98-82-8	Isopropylbenzene	500	U
91-20-3	Naphthalene	9600	D

0052

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW02B

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608594

Sample wt/vol: 0.50 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s17.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	50	U
71-43-2	Benzene	850	
108-88-3	Toluene	1300	
100-41-4	Ethylbenzene	970	
1330-20-7	Xylene (Total)	1600	
98-82-8	Isopropylbenzene	49	J
91-20-3	Naphthalene	4200	E

0053

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW02BDL

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608594

Sample wt/vol: 0.05 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s18.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 100.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	500	U
71-43-2	Benzene	930	D
108-88-3	Toluene	1400	D
100-41-4	Ethylbenzene	1000	D
1330-20-7	Xylene (Total)	1700	D
98-82-8	Isopropylbenzene	500	U
91-20-3	Naphthalene	6900	D

0054

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW07S

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608595

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s19.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	35	
108-88-3	Toluene	5	J
100-41-4	Ethylbenzene	18	
1330-20-7	Xylene (Total)	17	
98-82-8	Isopropylbenzene	5	J
91-20-3	Naphthalene	210	

0055

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD921

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608596

Sample wt/vol: 0.50 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s20.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	50	U
71-43-2	Benzene	870	
108-88-3	Toluene	1400	
100-41-4	Ethylbenzene	1000	
1330-20-7	Xylene (Total)	1700	
98-82-8	Isopropylbenzene	54	
91-20-3	Naphthalene	4200	E

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD921DL

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608596

Sample wt/vol: 0.05 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s21.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 100.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	500	U
71-43-2	Benzene	960	D
108-88-3	Toluene	1500	D
100-41-4	Ethylbenzene	1100	D
1330-20-7	Xylene (Total)	1900	D
98-82-8	Isopropylbenzene	500	U
91-20-3	Naphthalene	6700	D

9857

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB921

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608597

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep30a.b/ns30s04.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/30/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
98-82-8	Isopropylbenzene	5	U
91-20-3	Naphthalene	5	U

0050

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DRUM1

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608598

Sample wt/vol: 0.25 (g/mL) mL Lab File ID: HP09915.i/05oct05a.b/lc05s31.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 10/05/05

Column: (pack/cap) CAP Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-43-2	Benzene	610	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DRUM2

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608599

Sample wt/vol: 1.00 (g/mL) mL Lab File ID: HP09915.i/05oct05a.b/lc05s29.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 10/05/05

Column: (pack/cap) CAP Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-43-2	Benzene	200	

0060

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10BMS

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608591

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s08.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	22	
74-87-3	Chloromethane	16	
75-01-4	Vinyl Chloride	19	
74-83-9	Bromomethane	16	
75-00-3	Chloroethane	13	
75-69-4	Trichlorofluoromethane	19	
64-17-5	Ethanol	480	
107-02-8	Acrolein	100	
75-35-4	1,1-Dichloroethene	24	
76-13-1	Freon 113	23	
67-64-1	Acetone	120	
67-63-0	2-Propanol	120	
74-88-4	Methyl Iodide	22	
75-15-0	Carbon Disulfide	24	
79-20-9	Methyl Acetate	16	
107-05-1	Allyl Chloride	19	
75-09-2	Methylene Chloride	21	
75-65-0	t-Butyl Alcohol	190	
107-13-1	Acrylonitrile	80	
156-60-5	trans-1,2-Dichloroethene	22	
1634-04-4	Methyl Tertiary Butyl Ether	19	
540-59-0	1,2-Dichloroethene (total)	43	
110-54-3	n-Hexane	21	
75-34-3	1,1-Dichloroethane	20	
108-20-3	di-Isopropyl Ether	18	
126-99-8	2-Chloro-1,3-Butadiene	17	
637-92-3	Ethyl t-Butyl Ether	18	
78-93-3	2-Butanone	120	
156-59-2	cis-1,2-Dichloroethene	21	
594-20-7	2,2-Dichloropropane	20	

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FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10BMS

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608591

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s08.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
107-12-0	Propionitrile	130	
126-98-7	Methacrylonitrile	130	
74-97-5	Bromochloromethane	21	
109-99-9	Tetrahydrofuran	71	
67-66-3	Chloroform	20	
71-55-6	1,1,1-Trichloroethane	21	
110-82-7	Cyclohexane	22	
563-58-6	1,1-Dichloropropene	21	
56-23-5	Carbon Tetrachloride	21	
78-83-1	Isobutyl Alcohol	400	
71-43-2	Benzene	23	
107-06-2	1,2-Dichloroethane	19	
994-05-8	t-Amyl Methyl Ether	19	
142-82-5	n-Heptane	22	
71-36-3	n-Butanol	830	
79-01-6	Trichloroethene	20	
108-87-2	Methylcyclohexane	22	
78-87-5	1,2-Dichloropropane	19	
80-62-6	Methyl Methacrylate	17	
74-95-3	Dibromomethane	20	
123-91-1	1,4-Dioxane	440	
75-27-4	Bromodichloromethane	19	
79-46-9	2-Nitropropane	14	
110-75-8	2-Chloroethyl Vinyl Ether	10	U
10061-01-5	cis-1,3-Dichloropropene	19	
108-10-1	4-Methyl-2-Pentanone	75	
108-88-3	Toluene	19	
10061-02-6	trans-1,3-Dichloropropene	17	
97-63-2	Ethyl Methacrylate	17	
79-00-5	1,1,2-Trichloroethane	19	

0862

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10BMS

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608591

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s08.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	20	
142-28-9	1,3-Dichloropropane	18	
591-78-6	2-Hexanone	68	
124-48-1	Dibromochloromethane	18	
106-93-4	1,2-Dibromoethane	18	
108-90-7	Chlorobenzene	19	
630-20-6	1,1,1,2-Tetrachloroethane	19	
100-41-4	Ethylbenzene	19	
1330-20-7	m+p-Xylene	39	
1330-20-7	Xylene (Total)	59	
95-47-6	o-Xylene	20	
100-42-5	Styrene	19	
75-25-2	Bromoform	18	
98-82-8	Isopropylbenzene	20	
108-94-1	Cyclohexanone	230	J
79-34-5	1,1,2,2-Tetrachloroethane	17	
108-86-1	Bromobenzene	19	
110-57-6	trans-1,4-Dichloro-2-Butene	86	
96-18-4	1,2,3-Trichloropropane	17	
103-65-1	n-Propylbenzene	19	
95-49-8	2-Chlorotoluene	19	
108-67-8	1,3,5-Trimethylbenzene	18	
106-43-4	4-Chlorotoluene	19	
98-06-6	tert-Butylbenzene	19	
76-01-7	Pentachloroethane	18	
95-63-6	1,2,4-Trimethylbenzene	19	
135-98-8	sec-Butylbenzene	19	
99-87-6	p-Isopropyltoluene	19	
541-73-1	1,3-Dichlorobenzene	19	
106-46-7	1,4-Dichlorobenzene	19	

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FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10BMS

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608591

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s08.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
526-73-8	1,2,3-Trimethylbenzene	18	
100-44-7	Benzyl Chloride	17	
104-51-8	n-Butylbenzene	18	
95-50-1	1,2-Dichlorobenzene	19	
96-12-8	1,2-Dibromo-3-Chloropropane	15	
120-82-1	1,2,4-Trichlorobenzene	18	
87-68-3	Hexachlorobutadiene	17	
91-20-3	Naphthalene	16	
87-61-6	1,2,3-Trichlorobenzene	18	

0064

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKN09

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKN09

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
75-71-8	Dichlorodifluoromethane		2	U
74-87-3	Chloromethane		1	U
75-01-4	Vinyl Chloride		1	U
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	U
75-69-4	Trichlorofluoromethane		2	U
64-17-5	Ethanol		50	U
107-02-8	Acrolein		40	U
75-35-4	1,1-Dichloroethene		0.8	U
76-13-1	Freon 113		2	U
67-64-1	Acetone		6	U
67-63-0	2-Propanol		50	U
74-88-4	Methyl Iodide		1	U
75-15-0	Carbon Disulfide		1	U
79-20-9	Methyl Acetate		1	U
107-05-1	Allyl Chloride		1	U
75-09-2	Methylene Chloride		2	U
75-65-0	t-Butyl Alcohol		10	U
107-13-1	Acrylonitrile		4	U
156-60-5	trans-1,2-Dichloroethene		0.8	U
1634-04-4	Methyl Tertiary Butyl Ether		0.5	U
540-59-0	1,2-Dichloroethene (total)		0.8	U
110-54-3	n-Hexane		2	U
75-34-3	1,1-Dichloroethane		1	U
108-20-3	di-Isopropyl Ether		0.8	U
126-99-8	2-Chloro-1,3-Butadiene		1	U
637-92-3	Ethyl t-Butyl Ether		0.8	U
78-93-3	2-Butanone		3	U
156-59-2	cis-1,2-Dichloroethene		0.8	U
594-20-7	2,2-Dichloropropane		1	U

8865

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKN09

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKN09

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
107-12-0	Propionitrile		30	U
126-98-7	Methacrylonitrile		10	U
74-97-5	Bromochloromethane		1	U
109-99-9	Tetrahydrofuran		4	U
67-66-3	Chloroform		0.8	U
71-55-6	1,1,1-Trichloroethane		0.8	U
110-82-7	Cyclohexane		2	U
563-58-6	1,1-Dichloropropene		1	U
56-23-5	Carbon Tetrachloride		1	U
78-83-1	Isobutyl Alcohol		100	U
71-43-2	Benzene		0.5	U
107-06-2	1,2-Dichloroethane		1	U
994-05-8	t-Amyl Methyl Ether		0.8	U
142-82-5	n-Heptane		2	U
71-36-3	n-Butanol		100	U
79-01-6	Trichloroethene		1	U
108-87-2	Methylcyclohexane		1	U
78-87-5	1,2-Dichloropropane		1	U
80-62-6	Methyl Methacrylate		1	U
74-95-3	Dibromomethane		1	U
123-91-1	1,4-Dioxane		70	U
75-27-4	Bromodichloromethane		1	U
79-46-9	2-Nitropropane		2	U
110-75-8	2-Chloroethyl Vinyl Ether		2	U
10061-01-5	cis-1,3-Dichloropropene		1	U
108-10-1	4-Methyl-2-Pentanone		3	U
108-88-3	Toluene		0.7	U
10061-02-6	trans-1,3-Dichloropropene		1	U
97-63-2	Ethyl Methacrylate		1	U
79-00-5	1,1,2-Trichloroethane		0.8	U

0866

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKN09

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKN09

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
127-18-4	Tetrachloroethene		0.8	U
142-28-9	1,3-Dichloropropane		1	U
591-78-6	2-Hexanone		3	U
124-48-1	Dibromochloromethane		1	U
106-93-4	1,2-Dibromoethane		1	U
108-90-7	Chlorobenzene		0.8	U
630-20-6	1,1,1,2-Tetrachloroethane		1	U
100-41-4	Ethylbenzene		0.8	U
1330-20-7	m+p-Xylene		0.8	U
1330-20-7	Xylene (Total)		0.8	U
95-47-6	o-Xylene		0.8	U
100-42-5	Styrene		1	U
75-25-2	Bromoform		1	U
98-82-8	Isopropylbenzene		1	U
108-94-1	Cyclohexanone		55	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
108-86-1	Bromobenzene		1	U
110-57-6	trans-1,4-Dichloro-2-Butene		15	U
96-18-4	1,2,3-Trichloropropane		1	U
103-65-1	n-Propylbenzene		1	U
95-49-8	2-Chlorotoluene		1	U
108-67-8	1,3,5-Trimethylbenzene		1	U
106-43-4	4-Chlorotoluene		1	U
98-06-6	tert-Butylbenzene		1	U
76-01-7	Pentachloroethane		1	U
95-63-6	1,2,4-Trimethylbenzene		1	U
135-98-8	sec-Butylbenzene		1	U
99-87-6	p-Isopropyltoluene		1	U
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U

0867

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKN09

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKN09

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
526-73-8	1,2,3-Trimethylbenzene		1	U
100-44-7	Benzyl Chloride		1	U
104-51-8	n-Butylbenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U
96-12-8	1,2-Dibromo-3-Chloropropane		2	U
120-82-1	1,2,4-Trichlorobenzene		1	U
87-68-3	Hexachlorobutadiene		2	U
91-20-3	Naphthalene		1	U
87-61-6	1,2,3-Trichlorobenzene		1	U

8868

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKN20

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKN20

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep30a.b/ns30b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/30/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
75-71-8	Dichlorodifluoromethane		2	U
74-87-3	Chloromethane		1	U
75-01-4	Vinyl Chloride		1	U
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	U
75-69-4	Trichlorofluoromethane		2	U
64-17-5	Ethanol		50	U
107-02-8	Acrolein		40	U
75-35-4	1,1-Dichloroethene		0.8	U
76-13-1	Freon 113		2	U
67-64-1	Acetone		6	U
67-63-0	2-Propanol		50	U
74-88-4	Methyl Iodide		1	U
75-15-0	Carbon Disulfide		1	U
79-20-9	Methyl Acetate		1	U
107-05-1	Allyl Chloride		1	U
75-09-2	Methylene Chloride		2	U
75-65-0	t-Butyl Alcohol		10	U
107-13-1	Acrylonitrile		4	U
156-60-5	trans-1,2-Dichloroethene		0.8	U
1634-04-4	Methyl Tertiary Butyl Ether		0.5	U
540-59-0	1,2-Dichloroethene (total)		0.8	U
110-54-3	n-Hexane		2	U
75-34-3	1,1-Dichloroethane		1	U
108-20-3	di-Isopropyl Ether		0.8	U
126-99-8	2-Chloro-1,3-Butadiene		1	U
637-92-3	Ethyl t-Butyl Ether		0.8	U
78-93-3	2-Butanone		3	U
156-59-2	cis-1,2-Dichloroethene		0.8	U
594-20-7	2,2-Dichloropropane		1	U

0069

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKN20

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKN20

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep30a.b/ns30b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/30/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
107-12-0	Propionitrile		30	U
126-98-7	Methacrylonitrile		10	U
74-97-5	Bromochloromethane		1	U
109-99-9	Tetrahydrofuran		4	U
67-66-3	Chloroform		0.8	U
71-55-6	1,1,1-Trichloroethane		0.8	U
110-82-7	Cyclohexane		2	U
563-58-6	1,1-Dichloropropene		1	U
56-23-5	Carbon Tetrachloride		1	U
78-83-1	Isobutyl Alcohol		100	U
71-43-2	Benzene		0.5	U
107-06-2	1,2-Dichloroethane		1	U
994-05-8	t-Amyl Methyl Ether		0.8	U
142-82-5	n-Heptane		2	U
71-36-3	n-Butanol		100	U
79-01-6	Trichloroethene		1	U
108-87-2	Methylcyclohexane		1	U
78-87-5	1,2-Dichloropropane		1	U
80-62-6	Methyl Methacrylate		1	U
74-95-3	Dibromomethane		1	U
123-91-1	1,4-Dioxane		70	U
75-27-4	Bromodichloromethane		1	U
79-46-9	2-Nitropropane		2	U
110-75-8	2-Chloroethyl Vinyl Ether		2	U
10061-01-5	cis-1,3-Dichloropropene		1	U
108-10-1	4-Methyl-2-Pentanone		3	U
108-88-3	Toluene		0.7	U
10061-02-6	trans-1,3-Dichloropropene		1	U
97-63-2	Ethyl Methacrylate		1	U
79-00-5	1,1,2-Trichloroethane		0.8	U

0078

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKN20

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKN20

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep30a.b/ns30b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/30/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
127-18-4	Tetrachloroethene		0.8	U
142-28-9	1,3-Dichloropropane		1	U
591-78-6	2-Hexanone		3	U
124-48-1	Dibromochloromethane		1	U
106-93-4	1,2-Dibromoethane		1	U
108-90-7	Chlorobenzene		0.8	U
630-20-6	1,1,1,2-Tetrachloroethane		1	U
100-41-4	Ethylbenzene		0.8	U
1330-20-7	m+p-Xylene		0.8	U
1330-20-7	Xylene (Total)		0.8	U
95-47-6	o-Xylene		0.8	U
100-42-5	Styrene		1	U
75-25-2	Bromoform		1	U
98-82-8	Isopropylbenzene		1	U
108-94-1	Cyclohexanone		55	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
108-86-1	Bromobenzene		1	U
110-57-6	trans-1,4-Dichloro-2-Butene		15	U
96-18-4	1,2,3-Trichloropropane		1	U
103-65-1	n-Propylbenzene		1	U
95-49-8	2-Chlorotoluene		1	U
108-67-8	1,3,5-Trimethylbenzene		1	U
106-43-4	4-Chlorotoluene		1	U
98-06-6	tert-Butylbenzene		1	U
76-01-7	Pentachloroethane		1	U
95-63-6	1,2,4-Trimethylbenzene		1	U
135-98-8	sec-Butylbenzene		1	U
99-87-6	p-Isopropyltoluene		1	U
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U

2071

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLKN20

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKN20

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep30a.b/ns30b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/30/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
526-73-8	1,2,3-Trimethylbenzene		1	U
100-44-7	Benzyl Chloride		1	U
104-51-8	n-Butylbenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U
96-12-8	1,2-Dibromo-3-Chloropropane		2	U
120-82-1	1,2,4-Trichlorobenzene		1	U
87-68-3	Hexachlorobutadiene		2	U
91-20-3	Naphthalene		1	U
87-61-6	1,2,3-Trichlorobenzene		1	J

0872

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKL31

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKL31

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/05oct05a.b/lc05b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/05/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
75-71-8	Dichlorodifluoromethane		2	U
74-87-3	Chloromethane		1	U
75-01-4	Vinyl Chloride		1	U
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	U
75-69-4	Trichlorofluoromethane		2	U
60-29-7	Ethyl Ether		2	U
107-02-8	Acrolein		40	U
75-35-4	1,1-Dichloroethene		0.8	U
76-13-1	Freon 113		2	U
67-64-1	Acetone		6	U
74-88-4	Methyl Iodide		1	U
67-63-0	2-Propanol		50	U
75-15-0	Carbon Disulfide		1	U
107-05-1	Allyl Chloride		1	U
79-20-9	Methyl Acetate		1	U
75-09-2	Methylene Chloride		2	U
75-65-0	t-Butyl Alcohol		10	U
107-13-1	Acrylonitrile		4	U
156-60-5	trans-1,2-Dichloroethene		0.8	U
1634-04-4	Methyl Tertiary Butyl Ether		0.5	U
110-54-3	n-Hexane		2	U
75-34-3	1,1-Dichloroethane		1	U
108-20-3	di-Isopropyl Ether		0.8	U
126-99-8	2-Chloro-1,3-Butadiene		1	U
540-59-0	1,2-Dichloroethene (total)		0.8	U
637-92-3	Ethyl t-Butyl Ether		0.8	U
156-59-2	cis-1,2-Dichloroethene		0.8	U
78-93-3	2-Butanone		3	U
594-20-7	2,2-Dichloropropane		1	U

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FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKL31

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKL31

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/05oct05a.b/lc05b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/05/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
107-12-0	Propionitrile		30	U
126-98-7	Methacrylonitrile		10	U
74-97-5	Bromochloromethane		1	U
67-66-3	Chloroform		0.8	U
71-55-6	1,1,1-Trichloroethane		0.8	U
110-82-7	Cyclohexane		2	U
563-58-6	1,1-Dichloropropene		1	U
56-23-5	Carbon Tetrachloride		1	U
78-83-1	Isobutyl Alcohol		100	U
71-43-2	Benzene		0.5	U
107-06-2	1,2-Dichloroethane		1	U
994-05-8	t-Amyl Methyl Ether		0.8	U
142-82-5	n-Heptane		2	U
71-36-3	n-Butanol		100	U
79-01-6	Trichloroethene		1	U
108-87-2	Methylcyclohexane		1	U
78-87-5	1,2-Dichloropropane		1	U
74-95-3	Dibromomethane		1	U
80-62-6	Methyl Methacrylate		1	U
123-91-1	1,4-Dioxane		70	U
75-27-4	Bromodichloromethane		1	U
79-46-9	2-Nitropropane		2	U
110-75-8	2-Chloroethyl Vinyl Ether		2	U
10061-01-5	cis-1,3-Dichloropropene		1	U
108-10-1	4-Methyl-2-Pentanone		3	U
108-88-3	Toluene		0.7	U
10061-02-6	trans-1,3-Dichloropropene		1	U
97-63-2	Ethyl Methacrylate		1	U
79-00-5	1,1,2-Trichloroethane		0.8	U
127-18-4	Tetrachloroethene		0.8	U

0874

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKL31

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKL31

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/05oct05a.b/lc05b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/05/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
142-28-9	1,3-Dichloropropane		1	U
591-78-6	2-Hexanone		3	U
124-48-1	Dibromochloromethane		1	U
106-93-4	1,2-Dibromoethane		1	U
108-90-7	Chlorobenzene		0.8	U
630-20-6	1,1,1,2-Tetrachloroethane		1	U
100-41-4	Ethylbenzene		0.8	U
1330-20-7	m+p-Xylene		0.8	U
1330-20-7	Xylene (Total)		0.8	U
95-47-6	o-Xylene		0.8	U
100-42-5	Styrene		1	U
75-25-2	Bromoform		1	U
98-82-8	Isopropylbenzene		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
108-86-1	Bromobenzene		1	U
110-57-6	trans-1,4-Dichloro-2-Butene		15	U
96-18-4	1,2,3-Trichloropropane		1	U
103-65-1	n-Propylbenzene		1	U
95-49-8	2-Chlorotoluene		1	U
108-67-8	1,3,5-Trimethylbenzene		1	U
106-43-4	4-Chlorotoluene		1	U
98-06-6	tert-Butylbenzene		1	U
76-01-7	Pentachloroethane		1	U
95-63-6	1,2,4-Trimethylbenzene		1	U
135-98-8	sec-Butylbenzene		1	U
99-87-6	p-Isopropyltoluene		1	U
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U
526-73-8	1,2,3-Trimethylbenzene		1	U
100-44-7	Benzyl Chloride		1	U

0075

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKL31

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKL31

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/05oct05a.b/lc05b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/05/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
141-93-5	1,3-Diethylbenzene		1	U
105-05-5	1,4-Diethylbenzene		1	U
104-51-8	n-Butylbenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U
135-01-3	1,2-Diethylbenzene		1	U
96-12-8	1,2-Dibromo-3-Chloropropane		2	U
120-82-1	1,2,4-Trichlorobenzene		1	U
87-68-3	Hexachlorobutadiene		2	U
91-20-3	Naphthalene		1	U
87-61-6	1,2,3-Trichlorobenzene		1	U
91-57-6	2-Methylnaphthalene		2	U
25340-17-4	Diethylbenzene (total)		1	U

0076

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10BMS

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608591

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s08.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	22	
74-87-3	Chloromethane	16	
75-01-4	Vinyl Chloride	19	
74-83-9	Bromomethane	16	
75-00-3	Chloroethane	13	
75-69-4	Trichlorofluoromethane	19	
64-17-5	Ethanol	480	
107-02-8	Acrolein	100	
75-35-4	1,1-Dichloroethene	24	
76-13-1	Freon 113	23	
67-64-1	Acetone	120	
67-63-0	2-Propanol	120	
74-88-4	Methyl Iodide	22	
75-15-0	Carbon Disulfide	24	
79-20-9	Methyl Acetate	16	
107-05-1	Allyl Chloride	19	
75-09-2	Methylene Chloride	21	
75-65-0	t-Butyl Alcohol	190	
107-13-1	Acrylonitrile	80	
156-60-5	trans-1,2-Dichloroethene	22	
1634-04-4	Methyl Tertiary Butyl Ether	19	
540-59-0	1,2-Dichloroethene (total)	43	
110-54-3	n-Hexane	21	
75-34-3	1,1-Dichloroethane	20	
108-20-3	di-Isopropyl Ether	18	
126-99-8	2-Chloro-1,3-Butadiene	17	
637-92-3	Ethyl t-Butyl Ether	18	
78-93-3	2-Butanone	120	
156-59-2	cis-1,2-Dichloroethene	21	
594-20-7	2,2-Dichloropropane	20	

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FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10BMS

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608591

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s08.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
107-12-0	Propionitrile	130	
126-98-7	Methacrylonitrile	130	
74-97-5	Bromochloromethane	21	
109-99-9	Tetrahydrofuran	71	
67-66-3	Chloroform	20	
71-55-6	1,1,1-Trichloroethane	21	
110-82-7	Cyclohexane	22	
563-58-6	1,1-Dichloropropene	21	
56-23-5	Carbon Tetrachloride	21	
78-83-1	Isobutyl Alcohol	400	
71-43-2	Benzene	23	
107-06-2	1,2-Dichloroethane	19	
994-05-8	t-Amyl Methyl Ether	19	
142-82-5	n-Heptane	22	
71-36-3	n-Butanol	830	
79-01-6	Trichloroethene	20	
108-87-2	Methylcyclohexane	22	
78-87-5	1,2-Dichloropropane	19	
80-62-6	Methyl Methacrylate	17	
74-95-3	Dibromomethane	20	
123-91-1	1,4-Dioxane	440	
75-27-4	Bromodichloromethane	19	
79-46-9	2-Nitropropane	14	
110-75-8	2-Chloroethyl Vinyl Ether	10	U
10061-01-5	cis-1,3-Dichloropropene	19	
108-10-1	4-Methyl-2-Pentanone	75	
108-88-3	Toluene	19	
10061-02-6	trans-1,3-Dichloropropene	17	
97-63-2	Ethyl Methacrylate	17	
79-00-5	1,1,2-Trichloroethane	19	

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10BMS

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608591

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s08.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	20	
142-28-9	1,3-Dichloropropane	18	
591-78-6	2-Hexanone	68	
124-48-1	Dibromochloromethane	18	
106-93-4	1,2-Dibromoethane	18	
108-90-7	Chlorobenzene	19	
630-20-6	1,1,1,2-Tetrachloroethane	19	
100-41-4	Ethylbenzene	19	
1330-20-7	m+p-Xylene	39	
1330-20-7	Xylene (Total)	59	
95-47-6	o-Xylene	20	
100-42-5	Styrene	19	
75-25-2	Bromoform	18	
98-82-8	Isopropylbenzene	20	
108-94-1	Cyclohexanone	230	J
79-34-5	1,1,2,2-Tetrachloroethane	17	
108-86-1	Bromobenzene	19	
110-57-6	trans-1,4-Dichloro-2-Butene	86	
96-18-4	1,2,3-Trichloropropane	17	
103-65-1	n-Propylbenzene	19	
95-49-8	2-Chlorotoluene	19	
108-67-8	1,3,5-Trimethylbenzene	18	
106-43-4	4-Chlorotoluene	19	
98-06-6	tert-Butylbenzene	19	
76-01-7	Pentachloroethane	18	
95-63-6	1,2,4-Trimethylbenzene	19	
135-98-8	sec-Butylbenzene	19	
99-87-6	p-Isopropyltoluene	19	
541-73-1	1,3-Dichlorobenzene	19	
106-46-7	1,4-Dichlorobenzene	19	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10BMS

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608591

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26s08.d

Level: (low/med) LOW Date Received: 09/22/05

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
526-73-8	1,2,3-Trimethylbenzene	18	
100-44-7	Benzyl Chloride	17	
104-51-8	n-Butylbenzene	18	
95-50-1	1,2-Dichlorobenzene	19	
96-12-8	1,2-Dibromo-3-Chloropropane	15	
120-82-1	1,2,4-Trichlorobenzene	18	
87-68-3	Hexachlorobutadiene	17	
91-20-3	Naphthalene	16	
87-61-6	1,2,3-Trichlorobenzene	18	

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FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSN09

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: LCSN09

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26l01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	19	
74-87-3	Chloromethane	16	
75-01-4	Vinyl Chloride	17	
74-83-9	Bromomethane	13	
75-00-3	Chloroethane	13	
75-69-4	Trichlorofluoromethane	18	
64-17-5	Ethanol	600	
107-02-8	Acrolein	110	
75-35-4	1,1-Dichloroethene	22	
76-13-1	Freon 113	19	
67-64-1	Acetone	140	
67-63-0	2-Propanol	100	
74-88-4	Methyl Iodide	22	
75-15-0	Carbon Disulfide	21	
79-20-9	Methyl Acetate	16	
107-05-1	Allyl Chloride	18	
75-09-2	Methylene Chloride	21	
75-65-0	t-Butyl Alcohol	190	
107-13-1	Acrylonitrile	78	
156-60-5	trans-1,2-Dichloroethene	21	
1634-04-4	Methyl Tertiary Butyl Ether	19	
540-59-0	1,2-Dichloroethene (total)	41	
110-54-3	n-Hexane	18	
75-34-3	1,1-Dichloroethane	20	
108-20-3	di-Isopropyl Ether	18	
126-99-8	2-Chloro-1,3-Butadiene	16	
637-92-3	Ethyl t-Butyl Ether	18	
78-93-3	2-Butanone	120	
156-59-2	cis-1,2-Dichloroethene	20	
594-20-7	2,2-Dichloropropane	19	

0091

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSN09

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: LCSN09

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26l01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
107-12-0	Propionitrile	120	
126-98-7	Methacrylonitrile	130	
74-97-5	Bromochloromethane	21	
109-99-9	Tetrahydrofuran	68	
67-66-3	Chloroform	19	
71-55-6	1,1,1-Trichloroethane	19	
110-82-7	Cyclohexane	19	
563-58-6	1,1-Dichloropropene	19	
56-23-5	Carbon Tetrachloride	20	
78-83-1	Isobutyl Alcohol	370	
71-43-2	Benzene	20	
107-06-2	1,2-Dichloroethane	18	
994-05-8	t-Amyl Methyl Ether	19	
142-82-5	n-Heptane	18	
71-36-3	n-Butanol	790	
79-01-6	Trichloroethene	20	
108-87-2	Methylcyclohexane	19	
78-87-5	1,2-Dichloropropane	19	
80-62-6	Methyl Methacrylate	17	
74-95-3	Dibromomethane	20	
123-91-1	1,4-Dioxane	490	
75-27-4	Bromodichloromethane	19	
79-46-9	2-Nitropropane	13	
110-75-8	2-Chloroethyl Vinyl Ether	17	
10061-01-5	cis-1,3-Dichloropropene	19	
108-10-1	4-Methyl-2-Pentanone	73	
108-88-3	Toluene	19	
10061-02-6	trans-1,3-Dichloropropene	18	
97-63-2	Ethyl Methacrylate	17	
79-00-5	1,1,2-Trichloroethane	19	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSN09

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: LCSN09

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26l01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	21	
142-28-9	1,3-Dichloropropane	18	
591-78-6	2-Hexanone	69	
124-48-1	Dibromochloromethane	18	
106-93-4	1,2-Dibromoethane	18	
108-90-7	Chlorobenzene	19	
630-20-6	1,1,1,2-Tetrachloroethane	19	
100-41-4	Ethylbenzene	19	
1330-20-7	m+p-Xylene	39	
1330-20-7	Xylene (Total)	58	
95-47-6	o-Xylene	19	
100-42-5	Styrene	19	
75-25-2	Bromoform	19	
98-82-8	Isopropylbenzene	19	
108-94-1	Cyclohexanone	370	
79-34-5	1,1,2,2-Tetrachloroethane	17	
108-86-1	Bromobenzene	19	
110-57-6	trans-1,4-Dichloro-2-Butene	96	
96-18-4	1,2,3-Trichloropropane	17	
103-65-1	n-Propylbenzene	18	
95-49-8	2-Chlorotoluene	19	
108-67-8	1,3,5-Trimethylbenzene	18	
106-43-4	4-Chlorotoluene	19	
98-06-6	tert-Butylbenzene	19	
76-01-7	Pentachloroethane	18	
95-63-6	1,2,4-Trimethylbenzene	18	
135-98-8	sec-Butylbenzene	18	
99-87-6	p-Isopropyltoluene	18	
541-73-1	1,3-Dichlorobenzene	19	
106-46-7	1,4-Dichlorobenzene	19	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSN09

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: LCSN09

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26l01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
526-73-8	1,2,3-Trimethylbenzene	18	
100-44-7	Benzyl Chloride	17	
104-51-8	n-Butylbenzene	18	
95-50-1	1,2-Dichlorobenzene	19	
96-12-8	1,2-Dibromo-3-Chloropropane	14	
120-82-1	1,2,4-Trichlorobenzene	19	
87-68-3	Hexachlorobutadiene	17	
91-20-3	Naphthalene	17	
87-61-6	1,2,3-Trichlorobenzene	18	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCDN09

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: LCDN09

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26l02.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	17	
74-87-3	Chloromethane	17	
75-01-4	Vinyl Chloride	17	
74-83-9	Bromomethane	13	
75-00-3	Chloroethane	13	
75-69-4	Trichlorofluoromethane	17	
64-17-5	Ethanol	610	
107-02-8	Acrolein	110	
75-35-4	1,1-Dichloroethene	21	
76-13-1	Freon 113	18	
67-64-1	Acetone	130	
67-63-0	2-Propanol	110	
74-88-4	Methyl Iodide	21	
75-15-0	Carbon Disulfide	20	
79-20-9	Methyl Acetate	17	
107-05-1	Allyl Chloride	17	
75-09-2	Methylene Chloride	20	
75-65-0	t-Butyl Alcohol	190	
107-13-1	Acrylonitrile	77	
156-60-5	trans-1,2-Dichloroethene	19	
1634-04-4	Methyl Tertiary Butyl Ether	18	
540-59-0	1,2-Dichloroethene (total)	39	
110-54-3	n-Hexane	16	
75-34-3	1,1-Dichloroethane	18	
108-20-3	di-Isopropyl Ether	17	
126-99-8	2-Chloro-1,3-Butadiene	15	
637-92-3	Ethyl t-Butyl Ether	18	
78-93-3	2-Butanone	120	
156-59-2	cis-1,2-Dichloroethene	19	
594-20-7	2,2-Dichloropropane	18	

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FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCDN09

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: LCDN09

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26l02.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
107-12-0	Propionitrile	120	
126-98-7	Methacrylonitrile	130	
74-97-5	Bromochloromethane	20	
109-99-9	Tetrahydrofuran	67	
67-66-3	Chloroform	18	
71-55-6	1,1,1-Trichloroethane	18	
110-82-7	Cyclohexane	17	
563-58-6	1,1-Dichloropropene	18	
56-23-5	Carbon Tetrachloride	18	
78-83-1	Isobutyl Alcohol	370	
71-43-2	Benzene	19	
107-06-2	1,2-Dichloroethane	18	
994-05-8	t-Amyl Methyl Ether	19	
142-82-5	n-Heptane	17	
71-36-3	n-Butanol	770	
79-01-6	Trichloroethene	19	
108-87-2	Methylcyclohexane	18	
78-87-5	1,2-Dichloropropane	18	
80-62-6	Methyl Methacrylate	17	
74-95-3	Dibromomethane	19	
123-91-1	1,4-Dioxane	490	
75-27-4	Bromodichloromethane	18	
79-46-9	2-Nitropropane	13	
110-75-8	2-Chloroethyl Vinyl Ether	17	
10061-01-5	cis-1,3-Dichloropropene	18	
108-10-1	4-Methyl-2-Pentanone	73	
108-88-3	Toluene	18	
10061-02-6	trans-1,3-Dichloropropene	17	
97-63-2	Ethyl Methacrylate	17	
79-00-5	1,1,2-Trichloroethane	18	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCDN09

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: LCDN09

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26l02.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	19	
142-28-9	1,3-Dichloropropane	18	
591-78-6	2-Hexanone	68	
124-48-1	Dibromochloromethane	18	
106-93-4	1,2-Dibromoethane	18	
108-90-7	Chlorobenzene	19	
630-20-6	1,1,1,2-Tetrachloroethane	19	
100-41-4	Ethylbenzene	18	
1330-20-7	m+p-Xylene	37	
1330-20-7	Xylene (Total)	56	
95-47-6	o-Xylene	19	
100-42-5	Styrene	19	
75-25-2	Bromoform	18	
98-82-8	Isopropylbenzene	18	
108-94-1	Cyclohexanone	350	
79-34-5	1,1,2,2-Tetrachloroethane	17	
108-86-1	Bromobenzene	18	
110-57-6	trans-1,4-Dichloro-2-Butene	95	
96-18-4	1,2,3-Trichloropropane	17	
103-65-1	n-Propylbenzene	17	
95-49-8	2-Chlorotoluene	18	
108-67-8	1,3,5-Trimethylbenzene	17	
106-43-4	4-Chlorotoluene	18	
98-06-6	tert-Butylbenzene	18	
76-01-7	Pentachloroethane	18	
95-63-6	1,2,4-Trimethylbenzene	17	
135-98-8	sec-Butylbenzene	17	
99-87-6	p-Isopropyltoluene	17	
541-73-1	1,3-Dichlorobenzene	18	
106-46-7	1,4-Dichlorobenzene	18	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCDN09

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: LCDN09

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep26a.b/ns26l02.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/26/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
526-73-8	1,2,3-Trimethylbenzene	18	
100-44-7	Benzyl Chloride	17	
104-51-8	n-Butylbenzene	17	
95-50-1	1,2-Dichlorobenzene	18	
96-12-8	1,2-Dibromo-3-Chloropropane	14	
120-82-1	1,2,4-Trichlorobenzene	18	
87-68-3	Hexachlorobutadiene	16	
91-20-3	Naphthalene	17	
87-61-6	1,2,3-Trichlorobenzene	18	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSN20

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: LCSN20

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP07159.i/05sep30a.b/ns30101.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 09/30/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	19	
71-43-2	Benzene	20	
108-88-3	Toluene	20	
100-41-4	Ethylbenzene	20	
1330-20-7	m+p-Xylene	41	
1330-20-7	Xylene (Total)	61	
95-47-6	o-Xylene	20	
91-20-3	Naphthalene	16	

0009

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSL31

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: LCSL31

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/05oct05a.b/lc05l01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/05/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	16	
74-87-3	Chloromethane	15	
75-01-4	Vinyl Chloride	16	
74-83-9	Bromomethane	15	
75-00-3	Chloroethane	15	
75-69-4	Trichlorofluoromethane	17	
60-29-7	Ethyl Ether	18	
107-02-8	Acrolein	130	
75-35-4	1,1-Dichloroethene	18	
76-13-1	Freon 113	17	
67-64-1	Acetone	150	
74-88-4	Methyl Iodide	17	
67-63-0	2-Propanol	160	
75-15-0	Carbon Disulfide	16	
107-05-1	Allyl Chloride	19	
79-20-9	Methyl Acetate	20	
75-09-2	Methylene Chloride	18	
75-65-0	t-Butyl Alcohol	190	
107-13-1	Acrylonitrile	87	
156-60-5	trans-1,2-Dichloroethene	18	
1634-04-4	Methyl Tertiary Butyl Ether	18	
110-54-3	n-Hexane	15	
75-34-3	1,1-Dichloroethane	18	
108-20-3	di-Isopropyl Ether	17	
126-99-8	2-Chloro-1,3-Butadiene	16	
540-59-0	1,2-Dichloroethene (total)	36	
637-92-3	Ethyl t-Butyl Ether	17	
156-59-2	cis-1,2-Dichloroethene	18	
78-93-3	2-Butanone	140	
594-20-7	2,2-Dichloropropane	19	

8090

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSL31

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: LCSL31

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/05oct05a.b/lc05l01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/05/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
107-12-0	Propionitrile	140	
126-98-7	Methacrylonitrile	140	
74-97-5	Bromochloromethane	20	
67-66-3	Chloroform	19	
71-55-6	1,1,1-Trichloroethane	19	
110-82-7	Cyclohexane	16	
563-58-6	1,1-Dichloropropene	18	
56-23-5	Carbon Tetrachloride	18	
78-83-1	Isobutyl Alcohol	490	
71-43-2	Benzene	19	
107-06-2	1,2-Dichloroethane	19	
994-05-8	t-Amyl Methyl Ether	17	
142-82-5	n-Heptane	17	
71-36-3	n-Butanol	910	
79-01-6	Trichloroethene	18	
108-87-2	Methylcyclohexane	19	
78-87-5	1,2-Dichloropropane	18	
74-95-3	Dibromomethane	18	
80-62-6	Methyl Methacrylate	17	
123-91-1	1,4-Dioxane	500	
75-27-4	Bromodichloromethane	18	
79-46-9	2-Nitropropane	16	
110-75-8	2-Chloroethyl Vinyl Ether	17	
10061-01-5	cis-1,3-Dichloropropene	17	
108-10-1	4-Methyl-2-Pentanone	88	
108-88-3	Toluene	18	
10061-02-6	trans-1,3-Dichloropropene	17	
97-63-2	Ethyl Methacrylate	17	
79-00-5	1,1,2-Trichloroethane	18	
127-18-4	Tetrachloroethene	18	

0891

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSL31

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: LCSL31

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/05oct05a.b/lc05l01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/05/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
142-28-9	1,3-Dichloropropane	18	
591-78-6	2-Hexanone	88	
124-48-1	Dibromochloromethane	17	
106-93-4	1,2-Dibromoethane	18	
108-90-7	Chlorobenzene	18	
630-20-6	1,1,1,2-Tetrachloroethane	18	
100-41-4	Ethylbenzene	18	
1330-20-7	m+p-Xylene	37	
1330-20-7	Xylene (Total)	55	
95-47-6	o-Xylene	18	
100-42-5	Styrene	18	
75-25-2	Bromoform	16	
98-82-8	Isopropylbenzene	18	
79-34-5	1,1,2,2-Tetrachloroethane	18	
108-86-1	Bromobenzene	17	
110-57-6	trans-1,4-Dichloro-2-Butene	76	
96-18-4	1,2,3-Trichloropropane	19	
103-65-1	n-Propylbenzene	18	
95-49-8	2-Chlorotoluene	17	
108-67-8	1,3,5-Trimethylbenzene	18	
106-43-4	4-Chlorotoluene	18	
98-06-6	tert-Butylbenzene	18	
76-01-7	Pentachloroethane	19	
95-63-6	1,2,4-Trimethylbenzene	18	
135-98-8	sec-Butylbenzene	17	
99-87-6	p-Isopropyltoluene	17	
541-73-1	1,3-Dichlorobenzene	18	
106-46-7	1,4-Dichlorobenzene	18	
526-73-8	1,2,3-Trimethylbenzene	19	
100-44-7	Benzyl Chloride	17	

0892

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSL31

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: LCSL31

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/05oct05a.b/lc05l01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/05/05

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
141-93-5	1,3-Diethylbenzene	19	
105-05-5	1,4-Diethylbenzene	19	
104-51-8	n-Butylbenzene	18	
95-50-1	1,2-Dichlorobenzene	18	
135-01-3	1,2-Diethylbenzene	19	
96-12-8	1,2-Dibromo-3-Chloropropane	16	
120-82-1	1,2,4-Trichlorobenzene	17	
87-68-3	Hexachlorobutadiene	17	
91-20-3	Naphthalene	17	
87-61-6	1,2,3-Trichlorobenzene	18	
91-57-6	2-Methylnaphthalene	17	
25340-17-4	Diethylbenzene (total)	56	

0893

Semivolatiles by GC/MS Data

Case Narrative
Conformance/Nonconformance
Summary

Lancaster Laboratories
Where quality is a science.

CASE NARRATIVE

Client: URS Corporation
SDG #: PNY01

LANCASTER LABORATORIES
SEMIVOLATILES BY GC/MS

SAMPLE NUMBER(S) :

LL #'s	Sample Code	Matrix Water	Comments
4608589	MW03B	X	
4608589DL	MW03BDL	X	10X Dilution
4608590	MW11B	X	
4608591	MW10B	X	
4608594	MW02B	X	10X Dilution
4608594DL	MW02BDL	X	100X Dilution
4608594DL2	MW02BDL2	X	200X Dilution
4608595	MW07S	X	
4608595DL	MW07SDL	X	5X Dilution
4608596	FD921	X	
4608596DL	FD921DL	X	10X Dilution
4608596DL2	FD921DL2	X	50X Dilution

LABORATORY SUBMITTED QC:

SBLKWA267	SBLKWA267O	X	Method Blank
267WALCS	267WALCSO	X	Lab Control Sample
267WALCSD	267WALCSDO	X	Lab Control Sample Dup

SAMPLE PREPARATION:

Reduced volumes were used in the extraction of the following samples.

Sample Code	Volume
MW11B	861 mls

Case Narrative (continued)
SDG: PNY01

Sample Code	Volume
MW02B	599 mls
FD921	100 mls

Due to the nature of the sample matrix, the following samples were concentrated to final volumes greater than 1.0 ml.

Sample Code	Final Volume
MW02B	5 mls
FD921	10 mls

No other problems were encountered during the extraction of these samples.

ANALYSIS:

The method used for analysis was SW-846 8270C.

Sufficient sample volume was not available to perform a MS/MSD for this analysis. Therefore, a LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

MW02B was analyzed at an initial 10X dilution due to the nature of the sample matrix.

No other problems were encountered during the analysis of these samples.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

All QC was within specifications.

DATA INTERPRETATION:

Only non-conformances for client requested compounds are addressed in this case narrative.

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Case Narrative (continued)
SDG: PNY01

No further interpretation is necessary for the data submitted.

Case Narrative Reviewed and Approved by:

Date: 10-12-05

Charles J. Neslund
Manager, GC/MS Semivolatiles

0898

GC/MS Semivolatiles CALCULATIONS:

1. Relative response factor (RRF)

$$RRF = \frac{AX}{Ais} \times \frac{Cis}{Cx}$$

Where:
Ax = Area of the characteristic ion for the compound to be measured
Ais = Area of the characteristic ion for the specific internal standard to be measured
Cis = Concentration of the internal standard
Cx = Concentration of the compound to be measured

2. % Relative Standard Deviation (%RPD)

$$\%RSD = \frac{\text{standard deviation}}{\text{mean}} \times 100$$

3. % Difference (%D)

$$\%D = \frac{RRFc - RRFi}{RRFi} \times 100$$

Where:
RRFc = Relative response factor from continuing calibration standard
RRFi = Mean relative response factor form the initial calibration

4. Concentration

$$\text{Concentration (ug/l)} = \frac{(Ax)\ (Is)\ (Df)\ (Vt)}{(Ais)\ (RRF)\ (Vo)\ (Vi)}$$

Where:
Ax, Ais, and RRF are as given in 1. above
Is = Amount of internal standard added in parts per billion (ng)
Df = Dilution factor
Vt = volume of the concentrated extract (ul)
Vo = volume of water extracted (ml)
Vi = volume of extract injected (ul)

5. % Recovery

$$\%Rec = \frac{SSR - SR}{SA} \times 100$$

Where:
SSR = Spiked sample result
SR = Sample result
SA = Spike added

GC/MS Semivolatiles CALCULATIONS (continued):

6. Relative Percent Difference (RPD)

$$RPD = \frac{|\ MSR - MSDR\ |}{(1/2)\ \ (MSR + MSDR)}$$

Where:
MSR = Matrix spike recovery
MSDR = Matrix spike duplicate recovery

Sample Data

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW03B

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608589

Sample wt/vol: 1040 (g/mL)ML Lab File ID: oi0603.d

Level: (low/med) LOW Date Received: 09/22/05

% Moisture: not dec: dec: Date Extracted: 09/26/05

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/05

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ UG/L	Q
91-20-3	Naphthalene		440	E
208-96-8	Acenaphthylene		3	J
83-32-9	Acenaphthene		23	
86-73-7	Fluorene		2	J
85-01-8	Phenanthrene		1	J
120-12-7	Anthracene		5	U
206-44-0	Fluoranthene		5	U
129-00-0	Pyrene		5	U
56-55-3	Benzo(a)anthracene		5	U
218-01-9	Chrysene		5	U
205-99-2	Benzo(b)fluoranthene		5	U
207-08-9	Benzo(k)fluoranthene		5	U
50-32-8	Benzo(a)pyrene		5	U
193-39-5	Indeno(1,2,3-cd)pyrene		5	U
53-70-3	Dibenz(a,h)anthracene		5	U
191-24-2	Benzo(g,h,i)perylene		5	U

8102

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW03BDL

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608589DL

Sample wt/vol: 1040 (g/mL)ML Lab File ID: oi0622.d

Level: (low/med) LOW Date Received: 09/22/05

% Moisture: not dec: dec: Date Extracted: 09/26/05

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/05

Injection Volume: 1 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			440	D
208-96-8	Acenaphthylene			48	U
83-32-9	Acenaphthene			20	J D
86-73-7	Fluorene			48	U
85-01-8	Phenanthrene			48	U
120-12-7	Anthracene			48	U
206-44-0	Fluoranthene			48	U
129-00-0	Pyrene			48	U
56-55-3	Benzo(a)anthracene			48	U
218-01-9	Chrysene			48	U
205-99-2	Benzo(b)fluoranthene			48	U
207-08-9	Benzo(k)fluoranthene			48	U
50-32-8	Benzo(a)pyrene			48	U
193-39-5	Indeno(1,2,3-cd)pyrene			48	U
53-70-3	Dibenz(a,h)anthracene			48	U
191-24-2	Benzo(g,h,i)perylene			48	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW11B

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608590

Sample wt/vol: 861 (g/mL)ML Lab File ID: oi0604.d

Level: (low/med) LOW Date Received: 09/22/05

% Moisture: not dec: dec: Date Extracted: 09/26/05

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/05

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			24	
208-96-8	Acenaphthylene			6	
83-32-9	Acenaphthene			2	J
86-73-7	Fluorene			6	U
85-01-8	Phenanthrene			1	J
120-12-7	Anthracene			6	U
206-44-0	Fluoranthene			6	U
129-00-0	Pyrene			6	U
56-55-3	Benzo(a)anthracene			6	U
218-01-9	Chrysene			6	U
205-99-2	Benzo(b)fluoranthene			6	U
207-08-9	Benzo(k)fluoranthene			6	U
50-32-8	Benzo(a)pyrene			6	U
193-39-5	Indeno(1,2,3-cd)pyrene			6	U
53-70-3	Dibenz(a,h)anthracene			6	U
191-24-2	Benzo(g,h,i)perylene			6	U

0104

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10B

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608591

Sample wt/vol: 1044 (g/mL)ML Lab File ID: oi0605.d

Level: (low/med) LOW Date Received: 09/22/05

% Moisture: not dec: dec: Date Extracted: 09/26/05

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/05

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			5	U
208-96-8	Acenaphthylene			5	U
83-32-9	Acenaphthene			5	U
86-73-7	Fluorene			5	U
85-01-8	Phenanthrene			5	U
120-12-7	Anthracene			5	U
206-44-0	Fluoranthene			5	U
129-00-0	Pyrene			5	U
56-55-3	Benzo(a)anthracene			5	U
218-01-9	Chrysene			5	U
205-99-2	Benzo(b)fluoranthene			5	U
207-08-9	Benzo(k)fluoranthene			5	U
50-32-8	Benzo(a)pyrene			5	U
193-39-5	Indeno(1,2,3-cd)pyrene			5	U
53-70-3	Dibenz(a,h)anthracene			5	U
191-24-2	Benzo(g,h,i)perylene			5	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW02B

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608594

Sample wt/vol: 599 (g/mL)ML Lab File ID: oi0623.d

Level: (low/med) LOW Date Received: 09/22/05

% Moisture: not dec: dec: Date Extracted: 09/26/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/27/05

Injection Volume: 1 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			72000	E
208-96-8	Acenaphthylene			37000	E
83-32-9	Acenaphthene			7100	
86-73-7	Fluorene			17000	E
85-01-8	Phenanthrene			45000	E
120-12-7	Anthracene			16000	E
206-44-0	Fluoranthene			25000	E
129-00-0	Pyrene			36000	E
56-55-3	Benzo(a)anthracene			12000	E
218-01-9	Chrysene			10000	E
205-99-2	Benzo(b)fluoranthene			8700	
207-08-9	Benzo(k)fluoranthene			4200	
50-32-8	Benzo(a)pyrene			11000	E
193-39-5	Indeno(1,2,3-cd)pyrene			4500	
53-70-3	Dibenz(a,h)anthracene			1000	
191-24-2	Benzo(g,h,i)perylene			6600	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW02BDL

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608594DL

Sample wt/vol: 599 (g/mL)ML Lab File ID: oi0624.d

Level: (low/med) LOW Date Received: 09/22/05

% Moisture: not dec: dec: Date Extracted: 09/26/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/27/05

Injection Volume: 1 (uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) LOQ UG/L	Q
91-20-3	Naphthalene	150000	E
208-96-8	Acenaphthylene	45000	D
83-32-9	Acenaphthene	7200	D
86-73-7	Fluorene	18000	D
85-01-8	Phenanthrene	79000	D
120-12-7	Anthracene	16000	D
206-44-0	Fluoranthene	33000	D
129-00-0	Pyrene	45000	D
56-55-3	Benzo(a)anthracene	11000	D
218-01-9	Chrysene	9800	D
205-99-2	Benzo(b)fluoranthene	8400	D
207-08-9	Benzo(k)fluoranthene	3900	J D
50-32-8	Benzo(a)pyrene	11000	D
193-39-5	Indeno(1,2,3-cd)pyrene	4600	D
53-70-3	Dibenz(a,h)anthracene	1000	J D
191-24-2	Benzo(g,h,i)perylene	6300	D

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW02BDL2

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608594DL2

Sample wt/vol: 599 (g/mL)ML Lab File ID: oi0628.d

Level: (low/med) LOW Date Received: 09/22/05

% Moisture: not dec: dec: Date Extracted: 09/26/05

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/27/05

Injection Volume: 1 (uL) Dilution Factor: 200.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			150000	D
208-96-8	Acenaphthylene			45000	D
83-32-9	Acenaphthene			7100	J D
86-73-7	Fluorene			17000	D
85-01-8	Phenanthrene			75000	D
120-12-7	Anthracene			15000	D
206-44-0	Fluoranthene			31000	D
129-00-0	Pyrene			42000	D
56-55-3	Benzo(a)anthracene			11000	D
218-01-9	Chrysene			9300	D
205-99-2	Benzo(b)fluoranthene			7300	J D
207-08-9	Benzo(k)fluoranthene			3900	J D
50-32-8	Benzo(a)pyrene			11000	D
193-39-5	Indeno(1,2,3-cd)pyrene			4000	J D
53-70-3	Dibenz(a,h)anthracene			8300	U
191-24-2	Benzo(g,h,i)perylene			5900	J D

0108

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW07S

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608595

Sample wt/vol: 1035 (g/mL)ML Lab File ID: oi0607.d

Level: (low/med) LOW Date Received: 09/22/05

% Moisture: not dec: dec: Date Extracted: 09/26/05

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/05

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			150	E
208-96-8	Acenaphthylene			39	
83-32-9	Acenaphthene			130	E
86-73-7	Fluorene			40	
85-01-8	Phenanthrene			130	E
120-12-7	Anthracene			25	
206-44-0	Fluoranthene			44	
129-00-0	Pyrene			56	
56-55-3	Benzo(a)anthracene			11	
218-01-9	Chrysene			11	
205-99-2	Benzo(b)fluoranthene			11	
207-08-9	Benzo(k)fluoranthene			4	J
50-32-8	Benzo(a)pyrene			13	
193-39-5	Indeno(1,2,3-cd)pyrene			6	
53-70-3	Dibenz(a,h)anthracene			5	U
191-24-2	Benzo(g,h,i)perylene			9	

0189

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW07SDL

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608595DL

Sample wt/vol: 1035 (g/mL)ML Lab File ID: oi0625.d

Level: (low/med) LOW Date Received: 09/22/05

% Moisture: not dec: dec: Date Extracted: 09/26/05

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/05

Injection Volume: 1 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			150	D
208-96-8	Acenaphthylene			34	D
83-32-9	Acenaphthene			130	D
86-73-7	Fluorene			39	D
85-01-8	Phenanthrene			140	D
120-12-7	Anthracene			24	J D
206-44-0	Fluoranthene			43	D
129-00-0	Pyrene			55	D
56-55-3	Benzo(a)anthracene			12	J D
218-01-9	Chrysene			10	J D
205-99-2	Benzo(b)fluoranthene			9	J D
207-08-9	Benzo(k)fluoranthene			24	U
50-32-8	Benzo(a)pyrene			11	J D
193-39-5	Indeno(1,2,3-cd)pyrene			5	J D
53-70-3	Dibenz(a,h)anthracene			24	U
191-24-2	Benzo(g,h,i)perylene			8	J D

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD921

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608596

Sample wt/vol: 100 (g/mL)ML Lab File ID: oi0608.d

Level: (low/med) LOW Date Received: 09/22/05

% Moisture: not dec: dec: Date Extracted: 09/26/05

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/27/05

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			150000	E
208-96-8	Acenaphthylene			76000	E
83-32-9	Acenaphthene			19000	E
86-73-7	Fluorene			40000	E
85-01-8	Phenanthrene			110000	E
120-12-7	Anthracene			38000	E
206-44-0	Fluoranthene			57000	E
129-00-0	Pyrene			81000	E
56-55-3	Benzo(a)anthracene			27000	E
218-01-9	Chrysene			30000	E
205-99-2	Benzo(b)fluoranthene			22000	E
207-08-9	Benzo(k)fluoranthene			7500	
50-32-8	Benzo(a)pyrene			25000	E
193-39-5	Indeno(1,2,3-cd)pyrene			12000	
53-70-3	Dibenz(a,h)anthracene			2500	
191-24-2	Benzo(g,h,i)perylene			17000	E

9111

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FD921DL

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608596DL

Sample wt/vol: 100 (g/mL)ML Lab File ID: oi0626.d

Level: (low/med) LOW Date Received: 09/22/05

% Moisture: not dec: dec: Date Extracted: 09/26/05

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/27/05

Injection Volume: 1 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			370000	E
208-96-8	Acenaphthylene			120000	E
83-32-9	Acenaphthene			19000	D
86-73-7	Fluorene			50000	D
85-01-8	Phenanthrene			200000	E
120-12-7	Anthracene			43000	D
206-44-0	Fluoranthene			85000	D
129-00-0	Pyrene			120000	D
56-55-3	Benzo(a)anthracene			31000	D
218-01-9	Chrysene			28000	D
205-99-2	Benzo(b)fluoranthene			21000	D
207-08-9	Benzo(k)fluoranthene			12000	D
50-32-8	Benzo(a)pyrene			30000	D
193-39-5	Indeno(1,2,3-cd)pyrene			11000	D
53-70-3	Dibenz(a,h)anthracene			2700	J D
191-24-2	Benzo(g,h,i)perylene			17000	D

0112

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FD921DL2

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 4608596DL2

Sample wt/vol: 100 (g/mL)ML Lab File ID: oi0627.d

Level: (low/med) LOW Date Received: 09/22/05

% Moisture: not dec: dec: Date Extracted: 09/26/05

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/27/05

Injection Volume: 1 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			380000	D
208-96-8	Acenaphthylene			120000	D
83-32-9	Acenaphthene			19000	J D
86-73-7	Fluorene			47000	D
85-01-8	Phenanthrene			200000	D
120-12-7	Anthracene			40000	D
206-44-0	Fluoranthene			83000	D
129-00-0	Pyrene			110000	D
56-55-3	Benzo(a)anthracene			29000	D
218-01-9	Chrysene			25000	J D
205-99-2	Benzo(b)fluoranthene			21000	J D
207-08-9	Benzo(k)fluoranthene			10000	J D
50-32-8	Benzo(a)pyrene			28000	D
193-39-5	Indeno(1,2,3-cd)pyrene			12000	J D
53-70-3	Dibenz(a,h)anthracene			25000	U
191-24-2	Benzo(g,h,i)perylene			16000	J D

0113

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKWA267O

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: SBLKWA267

Sample wt/vol: 1000 (g/mL)ML Lab File ID: oi0599.d

Level: (low/med) LOW Date Received:

% Moisture: not dec: dec: Date Extracted: 09/26/05

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/05

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL	UG/L	Q
91-20-3	Naphthalene			1	U
208-96-8	Acenaphthylene			1	U
83-32-9	Acenaphthene			1	U
86-73-7	Fluorene			1	U
85-01-8	Phenanthrene			1	U
120-12-7	Anthracene			1	U
206-44-0	Fluoranthene			1	U
129-00-0	Pyrene			1	U
56-55-3	Benzo(a)anthracene			1	U
218-01-9	Chrysene			1	U
205-99-2	Benzo(b)fluoranthene			1	U
207-08-9	Benzo(k)fluoranthene			1	U
50-32-8	Benzo(a)pyrene			1	U
193-39-5	Indeno(1,2,3-cd)pyrene			1	U
53-70-3	Dibenz(a,h)anthracene			1	U
191-24-2	Benzo(g,h,i)perylene			1	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

267WALCSO

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 267WALCS

Sample wt/vol: 1000 (g/mL)ML Lab File ID: oi0600.d

Level: (low/med) LOW Date Received:

% Moisture: not dec: dec: Date Extracted: 09/26/05

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/05

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			83	
208-96-8	Acenaphthylene			100	
83-32-9	Acenaphthene			91	
86-73-7	Fluorene			87	
85-01-8	Phenanthrene			95	
120-12-7	Anthracene			91	
206-44-0	Fluoranthene			90	
129-00-0	Pyrene			95	
56-55-3	Benzo(a)anthracene			88	
218-01-9	Chrysene			92	
205-99-2	Benzo(b)fluoranthene			82	
207-08-9	Benzo(k)fluoranthene			95	
50-32-8	Benzo(a)pyrene			92	
193-39-5	Indeno(1,2,3-cd)pyrene			87	
53-70-3	Dibenz(a,h)anthracene			92	
191-24-2	Benzo(g,h,i)perylene			91	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

267WALCSDO

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 267WALCSD

Sample wt/vol: 1000 (g/mL)ML Lab File ID: oi0601.d

Level: (low/med) LOW Date Received:

% Moisture: not dec: dec: Date Extracted: 09/26/05

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/05

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			72	
208-96-8	Acenaphthylene			100	
83-32-9	Acenaphthene			91	
86-73-7	Fluorene			90	
85-01-8	Phenanthrene			99	
120-12-7	Anthracene			94	
206-44-0	Fluoranthene			93	
129-00-0	Pyrene			100	
56-55-3	Benzo(a)anthracene			93	
218-01-9	Chrysene			98	
205-99-2	Benzo(b)fluoranthene			84	
207-08-9	Benzo(k)fluoranthene			94	
50-32-8	Benzo(a)pyrene			94	
193-39-5	Indeno(1,2,3-cd)pyrene			90	
53-70-3	Dibenz(a,h)anthracene			96	
191-24-2	Benzo(g,h,i)perylene			93	

Instrumental Analysis Data

Case Narrative
Conformance/Nonconformance
Summary

Lancaster Laboratories

Where quality is a science.

CLIENT: URS Corporation
SDG: PNY01

LANCASTER LABORATORIES

INSTRUMENTAL WET CHEMISTRY

SAMPLE NUMBERS:

Sample #	Sample Code	Comments
4608587	MW01B	
4608589	MW03B	
4608590	MW11B	
4608591	MW10B	
4608592	MW06B	
4608593	MW07B	
4608594	MW02B	
4608595	MW07S	
4608596	FD921	

ANALYSIS:
No problems were encountered during analysis.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:
QC was within specifications.

DATA INTERPRETATION:
Due to the limitations of the data package software, form I's are not available for the Instrumental Analysis data. Please refer to the analysis reports for this information.

Total Cyanide (water) = result X dilution factor X 50 ml / volume of sample (ml)

Phenols water (mg/l) = result X dilution factor X 500 ml / volume of sample

Case Narrative Reviewed and Approved by:

Date: 10-19-05

Sandra J. Miller
Specialist

0119

APPENDIX C
SUMMARY OF HISTORIC BEDROCK GROUNDWATER ANALYTICAL RESULTS

APPENDIX C
HISTORIC BEDROCK GROUNDWATER ANALYTICAL RESULTS

NYSEG-BRIDGE STREET FORMER MGP SITE
PLATTSBURGH, NEW YORK

Parameter	MW-1B			MW-2B				MW-3B		
	1/28/2002	9/16/2004	9/21/2005	1/30/2002	9/16/2004	9/21/2005	9/21/2005 Duplicate	10/4/2002	9/16/2004	9/21/2005
	Benzene, Toluene, Ethylbenzene, Xylenes (µg/L)									
Benzene	4	0.643J	0.9J	1,300	910	850	870	64	6.59	310
Ethylbenzene	<1	<1	<0.8	1,500	1,520	970	1,000	<1	0.317J	97
Toluene	<1	0.382J	<0.7	2,600	1,790	1,300	1,400	4	0.768J	50
Xylene, total	<1	<2	<0.8	2,800	2,800	1,600	1,700	<1	<2	81
Total BTEX	*4*	*1.03*	*0.9*	*8,200*	*7,020*	*4,720*	*4,970*	*68*	*7.68*	*538*
	Polyaromatic Hydrocarbons (µg/L)									
2-Methylnaphthalene	<10	<9.43	NA	170J	457	NA	NA	<10	<9.52	NA
Acenaphthene	<10	<9.43	NA	26J	94.2J	7,100	19,000	<10	<9.52	23
Acenaphthylene	<10	<9.43	NA	280	497	45,000	120,000	<10	<9.52	3J
Anthracene	<10	<9.43	NA	<200	190J	16,000	43,000	<10	<9.52	<1
Benzo(a)anthracene	<10	<9.43	NA	<200	122J	11,000	31,000	<10	<9.52	<1
Benzo(a)pyrene	<10	<9.43	NA	<200	128J	11,000	30,000	<10	<9.52	<1
Benzo(b)fluoranthene	<10	<9.43	NA	<200	31.6J	8,700	21,000	<10	<9.52	<1
Benzo(g,h,i)perylene	<10	<9.43	NA	<200	92.9J	6,600	17,000	<10	<9.52	<1
Benzo(k)fluoranthene	<10	<9.43	NA	<200	37.4J	4,200	7,500	<10	<9.52	<1
Chrysene	<10	<9.43	NA	<200	117J	9,800	28,000	<10	<9.52	<1
Dibenz(a,h)anthracene	<10	<9.43	NA	<200	<243	1,000	2,500	<10	<9.52	<1
Fluoranthene	<10	<9.43	NA	<200	208	33,000	85,000	<10	<9.52	<1
Fluorene	<10	<9.43	NA	34J	161	18,000	50,000	<10	<9.52	2J
Indeno(1,2,3-cd)pyrene	<10	<9.43	NA	<200	55.5J	4,500	12,000	<10	<9.52	<1
Naphthalene	<10	<9.43	NA	3,000	4,030	150,000	380,000	<10	<9.52	440
Phenanthrene	<10	<9.43	NA	68J	30J	79,000	200,000	<10	<9.52	1J
Pyrene	<10	<9.43	NA	<200	299	45,000	120,000	<10	<9.52	<1
Total PAHs	*ND*	*ND*	*NA*	*3,578*	*6,550*	*449,900*	*1,166,000*	*ND*	*ND*	*469*
	General Chemistry (µg/L)									
Total Phenols	<2	7.13	<24	36	118	<12	<12	NA	23.4	27J
Free Cyanide	<10	NA	NA	<10	NA	NA	NA	NA	NA	NA
Total Cyanide	<10	<10	<5	<10	<10	<5	<5	110	<10	<5

Notes:
NA - Not Analyzed
ND - Not Detected
< - Indicates the parameter was not detected above the PQL shown
J - Indicates an estimated concentration between the MDL and PQL

APPENDIX C
HISTORIC BEDROCK GROUNDWATER ANALYTICAL RESULTS

NYSEG-BRIDGE STREET FORMER MGP SITE
PLATTSBURGH, NEW YORK

Parameter	MW-6B			MW-7BD			MW-7BS			MW-7DD	MW-8B
	1/28/2002	9/16/2004	9/21/2005	1/30/2002	9/16/2004	9/21/2005	1/29/2002	9/16/2004	9/21/2005	10/16/2002	12/28/2001
	Benzene, Toluene, Ethylbenzene, Xylenes (µg/L)										
Benzene	1.00	1.58	3J	1,300	464	830	86	29.1	35	<0.5	<0.5
Ethylbenzene	<1	1.71	22	930	279	980	79	20.8	18	<1	<1
Toluene	<1	1.61	11	1,900	581	1,300	45	6.1	5J	<1	<1
Xylene, total	<1	4.22	57	2,300	855	2,100	111	19.6	17	<1	<1
Total BTEX	*1.00*	*9.12*	*93*	*6,430*	*2,179*	*5,210*	*321*	*75.6*	*75*	*ND*	*ND*
	Polyaromatic Hydrocarbons (µg/L)										
2-Methylnaphthalene	<10	5.51J	NA	640	222J	NA	69	13.1	NA	<10	<10
Acenaphthene	<10	<9.8	NA	160J	39.4	NA	114	66	130	<10	<10
Acenaphthylene	<10	4.89J	NA	920	230J	NA	35	21.8	39	<10	<10
Anthracene	<10	<9.8	NA	240J	26.6	NA	23	8.3J	25	<10	<10
Benzo(a)anthracene	<10	<9.8	NA	100J	11.9	NA	<10	1.29J	11	<10	<10
Benzo(a)pyrene	<10	<9.8	NA	40J	10.6	NA	<10	0.982J	13	<10	<10
Benzo(b)fluoranthene	<10	<9.8	NA	44J	4.94J	NA	<10	<9.52	11	<10	<10
Benzo(g,h,i)perylene	<10	<9.8	NA	<400	8.08J	NA	<10	<9.52	9	<10	<10
Benzo(k)fluoranthene	<10	<9.8	NA	48J	5.8J	NA	<10	<9.52	4J	<10	<10
Chrysene	<10	<9.8	NA	100J	11.2	NA	<10	1.2J	11	<10	<10
Dibenz(a,h)anthracene	<10	<9.8	NA	<400	1.31J	NA	<10	<9.52	<1	<10	<10
Fluoranthene	<10	<9.8	NA	300J	46.9	NA	6J	8.69J	44	<10	<10
Fluorene	<10	<9.8	NA	300J	62.6	NA	33	17.7	40	<10	<10
Indeno(1,2,3-cd)pyrene	<10	<9.8	NA	<400	12.4	NA	<10	<9.52	6	<10	<10
Naphthalene	<10	11.1	NA	6,400	2,420	NA	380	147	150	<10	<10
Phenanthrene	<10	2.79J	NA	1,000	6.06J	NA	61	52.9	140	<10	<10
Pyrene	<10	<9.8	NA	560	56	NA	6J	11	56	<10	<10
Total PAHs	*ND*	*24.3*	*NA*	*10,852*	*3,176*	*NA*	*727*	*350*	*689*	*ND*	*ND*
	General Chemistry (µg/L)										
Total Phenols	234	42.5	NA	207	31.1	NA	28	167	<12	NA	<2
Free Cyanide	<10	NA	NA	<10	NA	NA	<10	NA	NA	NA	<10
Total Cyanide	<10	<10	<5	<10	<10	<5	40	7.97J	<5	20	<10

Notes:
NA - Not Analyzed
ND - Not Detected
< - Indicates the parameter was not detected above the PQL shown
J - Indicates an estimated concentration between the MDL and PQL

APPENDIX C
HISTORIC BEDROCK GROUNDWATER ANALYTICAL RESULTS

NYSEG-BRIDGE STREET FORMER MGP SITE
PLATTSBURGH, NEW YORK

Parameter	MW-8BD	MW-9B			MW-10B			MW-11B		
	2/27/2002	1/30/2002	9/16/2004	9/21/2005	10/4/2002	9/16/2004	9/21/2005	1/28/2002	9/16/2004	9/21/2005
	Benzene, Toluene, Ethylbenzene, Xylenes (µg/L)									
Benzene	<0.5	3	0.434J	<0.5	6.00	1.68	2J	<0.5	2.82	10
Ethylbenzene	<1	<1	<1	<0.8	<1	0.292J	<0.8	<1	1.93	5J
Toluene	<1	<1	0.357J	<0.7	<1	0.475J	<0.7	<1	5.32	14
Xylene, total	<1	8	<2	<0.8	<1	<2	<0.8	<1	5.58	12
Total BTEX	*ND*	*11*	*0.791*	*ND*	*6.00*	*2.45*	*2.0*	*ND*	*15.7*	*41*
	Polyaromatic Hydrocarbons (µg/L)									
2-Methylnaphthalene	<17	<10	<9.62	NA	<10	<9.8	NA	<10	<9.71	NA
Acenaphthene	<17	<10	<9.62	NA	<10	<9.8	<1	<10	<9.71	2J
Acenaphthylene	<17	<10	1.87J	NA	<10	<9.8	<1	<10	1.17J	6
Anthracene	<17	<10	<9.62	NA	<10	<9.8	<1	<10	<9.71	<1
Benzo(a)anthracene	<17	<10	<9.62	NA	<10	<9.8	<1	<10	<9.71	<1
Benzo(a)pyrene	<17	<10	<9.62	NA	<10	<9.8	<1	<10	<9.71	<1
Benzo(b)fluoranthene	<17	<10	<9.62	NA	<10	<9.8	<1	<10	<9.71	<1
Benzo(g,h,i)perylene	<17	<10	<9.62	NA	<10	<9.8	<1	<10	<9.71	<1
Benzo(k)fluoranthene	<17	<10	<9.62	NA	<10	<9.8	<1	<10	<9.71	<1
Chrysene	<17	<10	<9.62	NA	<10	<9.8	<1	<10	<9.71	<1
Dibenz(a,h)anthracene	<17	<10	<9.62	NA	<10	<9.8	<1	<10	<9.71	<1
Fluoranthene	<17	<10	<9.62	NA	<10	<9.8	<1	<10	<9.71	<1
Fluorene	<17	<10	<9.62	NA	<10	<9.8	<1	<10	<9.71	<1
Indeno(1,2,3-cd)pyrene	<17	<10	<9.62	NA	<10	<9.8	<1	<10	<9.71	<1
Naphthalene	<17	4.5J	<9.62	NA	<10	1.58J	<1	<10	2.42J	24
Phenanthrene	<17	<10	<9.62	NA	<10	<9.8	<1	<10	<9.71	1J
Pyrene	<17	<10	<9.62	NA	<10	<9.8	<1	<10	<9.71	<1
Total PAHs	*ND*	*4.50*	*1.87*	*NA*	*ND*	*1.58*	*ND*	*ND*	*3.59*	*33*
	General Chemistry (µg/L)									
Total Phenols	7	123	3.72J	NA	NA	6.92	15J	247	18.7	250
Free Cyanide	NA	130	NA	NA	NA	NA	NA	<10	NA	NA
Total Cyanide	NA	130	<10	NA	<10	<10	<5	<10	3.75J	<5

Notes:
NA - Not Analyzed
ND - Not Detected
< - Indicates the parameter was not detected above the PQL shown
J - Indicates an estimated concentration between the MDL and PQL