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Re: Niagara Mohawk Power Corporation
North Albany Service Center
Additional Ground-Water Investigation/
Non-Aqueous Phase Liquid Monitoring and Recovery Activities
Project #: 0364.36469 #2

Dear Mr. Spellman:

This letter presents a summary of the additional ground-water investigation and non-aqueous-phase liquid (NAPL) monitoring and recovery activities conducted by Blasland, Bouck & Lee, Inc. (BBL) at the Niagara Mohawk Power Corporation (NMPC) North Albany Service Center located in Albany, New York.

The additional ground-water investigation activities were conducted during July 1999 based on a request from the New York State Department of Environmental Conservation (NYSDEC) in an April 21, 1999 letter to NMPC. The additional ground-water investigation activities were conducted to confirm the results of the ground-water investigation which was conducted as part of the MGP/RCRA Investigation (as described in the MGP/RCRA Investigation Report [BBL, November 1997]). Ground-water investigation activities were conducted in accordance with the field protocols outlined in the NYSDEC-approved Quality Assurance Project Plan (QAPjP) which was included as an appendix to the MGP/RCRA Investigation and Remedial Measures Evaluation Work Plan (BBL, August 1996). The additional ground-water investigation activities consisted of the following:

- Obtaining ground-water elevations from each of the existing on-site and off-site monitoring wells to determine the direction of ground-water flow and compare the results with the conditions encountered during previous monitoring events;
- Collecting ground-water samples from specific on-site and off-site ground-water monitoring wells to evaluate changes in ground-water quality from previous sampling events; and
- Collecting two dense, non-aqueous phase liquid (DNAPL) samples from monitoring wells MW-06S and MW-07 to determine the chemical composition of the material.

The NAPL monitoring/recovery activities described in this letter were conducted between July 1998 and July 1999 in accordance with a May 8, 1998 letter from NMPC to the NYSDEC. The NAPL monitoring/recovery activities consisted of the following:

- Monitoring select ground-water monitoring wells in the vicinity of the property on a monthly basis for the presence of light, non-aqueous phase liquids (LNAPL) and DNAPL;
- Passively recovering LNAPL from individual monitoring wells using a dedicated polyethylene bailer and containerizing the LNAPL for off-site disposal in accordance with applicable regulations;
- Attempting to recover DNAPL from individual monitoring wells using manual bailing and pumping techniques; and
- Collecting periodic fluid-level measurements within monitoring wells MW-23, MW-24, and MW-25 to determine if the ground-water table intersects the fill material within the former Erie Canal bed (located beneath Erie Boulevard east of the site) due to seasonal fluctuations. This information was used to determine the potential for fill material within the former Erie Canal bed to act as a preferential discharge point for shallow ground water.

The additional ground-water investigation and NAPL monitoring/recovery activities were conducted to provide data which is necessary for the evaluation of potential remedial alternatives which will be presented in a Feasibility Study (FS) for the site. A detailed discussion of the additional ground-water investigation and NAPL monitoring/recovery activities is presented below.

Additional Ground-Water Investigation Activities

The objectives of the additional ground-water investigation included the following:

- Obtain ground-water elevation data from monitoring wells in the vicinity of the site in order to determine the ground-water flow direction and velocity and compare the results with the ground-water flow conditions encountered during previous ground-water monitoring events; and
- Provide ground-water analytical data to confirm the results of previous ground-water investigations and verify that chemical constituents do not exceed applicable ground-water quality standards or guidelines at the farthest down-gradient ground-water monitoring wells.

The additional ground-water investigation field activities are described below, followed by a summary of the additional ground-water investigation results.

I. Additional Ground-Water Investigation Field Activities

The additional ground-water investigation field activities were conducted by BBL during July 1999. A detailed discussion of the additional ground-water investigation field activities (including fluid-level measurement, ground-water sampling, and sampling of DNAPL encountered at select monitoring wells) is presented below.

Fluid Level Measurement

Fluid level measurements were obtained from each of the existing on-site and off-site monitoring wells (and piezometer PZ-01S and PZ-01D) on July 13, 1999. Prior to collecting ground-water samples, BBL obtained static fluid level measurements from each of the existing on-site and off-site monitoring wells. Within monitoring wells where NAPL had previously been observed, fluid levels were measured to the nearest 0.01 foot using an oil-water interface probe. Measurements were obtained from a surveyed mark on the top of the inner PVC well casing to the ground-water and LNAPL surfaces (where applicable). For wells where LNAPL was encountered on the water surface, density-compensated water levels (adjusted based on the NAPL thickness and density) were calculated to account for the presence of the LNAPL.

Ground-water level measurements were converted into elevations using the surveyed well elevations. Ground-water elevations obtained at each of the existing on-site and off-site monitoring wells are listed in Table 1, and a shallow ground-water potentiometric surface contour map developed from the July 13, 1999 density-compensated ground-water elevation measurements (where applicable) is included as Figure 1. The ground-water elevations presented in Table 1 have not been density compensated for the presence of LNAPL. Table 1 also includes the ground-water elevations collected during monthly monitoring of specific wells (as part of NAPL monitoring/recovery activities), as well as the two previous full rounds of ground-water elevation measurements which were obtained on June 2, 1997 and July 30, 1998. An attempt was made to obtain a complete round of ground-water elevations on February 3, 1999, however, due to the presence of obstacles, (snow banks, standing water, equipment, etc.) water level measurements could not be obtained from several of the monitoring wells.

The ground-water elevations indicated the presence of localized ground-water mounding in the vicinity of monitoring well MW-5 (in the vicinity of the Vehicle Maintenance Building) and MW-15S (which is consistent with previous monitoring events). Therefore, the ground-water elevations obtained from these wells were not utilized to develop the shallow ground-water potentiometric surface contour map. Sewer lines in the vicinity of monitoring wells MW-5 and MW-15S may contribute to ground-water mounding in these areas. In addition, based on a review of the soil boring log for monitoring well MW-15S, water in the vicinity of MW-15S may be perched above a silt and clay unit with a lower permeability. A detailed discussion of NAPL thicknesses encountered in on-site and off-site wells is presented below under the discussion of the NAPL monitoring/recovery activities.

Ground-Water Sampling

Ground-water samples were collected between July 12 and July 22, 1999 from 24 existing on-site and off-site monitoring wells and from on-site piezometers PZ-01S and PZ-01D. Ground-water samples were submitted to Galson Laboratories, Inc. (Galson) in East Syracuse, New York for laboratory analysis for polychlorinated biphenyls (PCBs), target compound list (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), target analyte list (TAL) inorganic constituents, cyanide, nitrate/nitrite, and sulfate/sulfide. In addition, due to persistently turbid ground-water conditions within monitoring wells MW-16R, MW-21R, and MW-22S, an additional ground-water sample for these wells was collected, filtered in the field, and submitted for laboratory analysis for dissolved metals.

In accordance with the ground-water sampling procedures outlined in the QAPjP included with the MGP/RCRA Investigation Work Plan, low-flow sampling techniques were used to purge ground water from each well. Field parameters (consisting of turbidity, temperature, pH, conductivity, oxidation reduction potential [ORP], and dissolved oxygen) were measured approximately every five minutes during well purging, and the depth to water was monitored throughout the pumping process to minimize drawdown within

the well. A summary of the field parameters at the time of ground-water sampling is presented in Table 2. A copy of the ground-water sampling logs is included in Attachment 1.

The well purging activities continued until the field parameters stabilized and the turbidity of the water in the wells was less than 50 nephelometric turbidity units (NTUs). Ground-water samples were then collected from each on-site and off-site monitoring well in the vicinity of the site using low-flow sampling techniques. Ground-water samples were collected using a submersible pump and dedicated polyethylene tubing. Analytical methods used for the laboratory analysis of the ground-water samples are presented in the table below.

Parameter	Analytical Method
PCBs	USEPA SW-846 Method 8082
TCL VOCs	USEPA SW-846 Method 8260
TCL SVOCs	USEPA SW-846 Method 8270
TAL Inorganics (total and dissolved)	USEPA SW-846 Methods 6010/7000
Cyanide	USEPA SW-846 Method 9010
Nitrate/Nitrite	USEPA Method 353.3
Sulfate	USEPA Method 375.4
Sulfide	USEPA Method 376.1

Quality assurance/quality control (QA/QC) samples including blind duplicates (collected from monitoring wells MW-14, MW-18S, and MW-22S), rinse blanks, trip blanks, matrix spike, and matrix spike duplicate samples were also submitted as required by the NYSDEC-approved MGP/RCRA Investigation Work Plan.

Each of the ground-water samples collected as part of the sampling activities was handled, labeled, packaged, and shipped in accordance with the protocols outlined in the MGP/RCRA Investigation Work Plan. Purge water from the wells was collected in five-gallon buckets and transferred into labeled, steel 55-gallon drums for characterization and off-site disposal by NMPC.

DNAPL Sampling

During the July 13, 1999 monitoring event, sufficient DNAPL was recovered from monitoring wells MW-6S and MW-7 to collect DNAPL samples for laboratory analysis. Two 40 milliliter vials of DNAPL were collected from both of these monitoring wells by scraping material which adhered to the interface probe into the sample containers. Previous attempts at recovering sufficient amounts of DNAPL for laboratory analysis had not been successful. The DNAPL samples were submitted to Saybolt Inc. (Saybolt) for laboratory analysis for viscosity, specific gravity, interfacial tension, polynuclear aromatic hydrocarbons (PAHs), benzene, toluene, ethylbenzene, and xylene (BTEX) constituents, PCBs, cyanide, TAL inorganics, total petroleum hydrocarbons (TPH), and British Thermal Units (BTUs).

II. Additional Ground-Water Investigation Results

A detailed discussion of the additional ground-water investigation results (including ground-water flow conditions and ground-water sampling results) is presented below.

Ground-Water Flow Conditions

Based on the ground-water elevations obtained during this monitoring event, ground water within the shallow overburden beneath the site appears to flow in a general southeast direction (which is consistent with the ground-water flow direction observed during the July 1998 ground-water monitoring event). In addition, based on ground-water elevations obtained from the three bedrock wells installed at the site (MW-16R, MW-21R, and MW-22R), the ground-water flow within the shallow bedrock appears to flow in a general east to southeast direction.

Ground-water flow velocities within shallow overburden were determined using the calculated geometric mean hydraulic conductivity value for shallow overburden (8.6×10^{-3} cm/sec or 24.5 ft/day) presented in the MGP/RCRA Investigation Report (BBL, November 1997), the range of hydraulic gradients observed during the additional ground-water investigation event (0.009 to 0.023 ft/ft), and an estimated effective porosity (0.3, obtained from evaluating literature values of effective porosities for different types of soils). The average linear ground-water flow velocity within the shallow overburden was calculated using the following equation (Fetter 1988):

$$V = Ki/n_e$$

where:

- V = average linear ground-water flow velocity;
- K = horizontal hydraulic conductivity (24.5 feet/day);
- I = horizontal hydraulic gradient (0.009 to 0.023 ft/ft, as discussed above);
- n_e = effective porosity (assumed value of 0.3).

Using the above equation, the average horizontal ground-water flow velocity in shallow overburden was calculated to be 1.3 feet/day compared to a velocity of 1.5 feet/day calculated during the July 1998 ground-water monitoring event and 0.7 feet/day calculated for the June 1997 monitoring event conducted for the MGP/RCRA Investigation.

Ground-Water Analytical Results

Analytical results obtained from the laboratory analysis of ground-water samples collected during the additional ground-water investigation for PCBs, TCL VOCs, TCL SVOCs, TAL inorganic constituents (including cyanide), nitrate/nitrite, and sulfate/sulfide are summarized below. The discussion below includes a comparison of the analytical results obtained from the laboratory analysis of the ground-water samples with the Class GA ground-water standards and guidance values presented in the NYSDEC document entitled, "Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards and Guidance Values and Ground-Water Effluent Limitations" (June 1998). The analytical results obtained for the analysis of the ground-water samples collected as part of the additional ground-water investigation activities are also compared with the results from previous sampling events to evaluate changes in the distribution of chemical constituent concentrations in ground water in the vicinity of the site. Laboratory analytical results obtained for the ground-water samples were reviewed by BBL's data validation staff. Validated analytical results are included as Exhibit A.

PCBs

PCBs were detected in ground-water sample MW-21R at a concentration of 1.5 parts per billion (ppb) which exceeds the NYSDEC Class GA standard of 0.09 ppb. PCBs were not detected at concentrations exceeding laboratory detection limits in any of the other ground-water samples collected during the additional ground-water investigation activities. In addition, PCBs were not detected at concentrations exceeding laboratory detection limits within any of the ground-water samples collected as part of the MGP/RCRA Investigation. Analytical results obtained from the laboratory analysis of the ground-water samples collected for the July 1999 additional ground-water investigation activities for PCBs are presented in Table 3.

TCL VOCs

A summary of the analytical results obtained from the laboratory analysis of the ground-water samples collected for the July 1999 additional ground-water investigation activities for TCL VOCs is presented below.

Detected Constituent	NYSDEC Ground-Water Standards and Guidance Values (ppb)	Number of Sampling Locations Where Compound Was Detected	Range of Detected Concentrations (ppb)	Sample Exhibiting Maximum Concentration
2-Butanone	50 G	1	83 J	MW-18S (DUP)
Benzene	1.0	6	45 - 810	MW-18S
Toluene	5.0	4	1.0 J - 130	MW-16R
Ethylbenzene	5.0	6	4.0 J - 1,100	MW-18S
Xylene	5.0*	5	4.0 J - 250	MW-16R
Notes: 1. Concentrations are presented in parts per billion (ppb). 2. J = Estimated value. 3. NYSDEC Ground-Water Standards/Guidance Values from TOGS 1.1.1, June 1998. 4. G = Guidance Value 5. * = Applies to each individual isomer.				

The ground-water sampling results indicate the presence of BTEX constituents at concentrations exceeding the NYSDEC ground-water standards/guidance values in ground-water samples collected from monitoring wells MW-14, MW-16R, MW-17D, MW-17S, MW-18S, and MW-23S. The ground-water sampling results also indicate the presence of 2-butanone in a duplicate sample collected from monitoring well MW-18S at an estimated concentration of 83 ppb which exceeds the NYSDEC Class GA ground-water guidance value of 50 ppb. None of the other ground-water samples (including the primary ground-water sample from monitoring well MW-18S) contained 2-butanone at concentrations exceeding laboratory detection limits. Analytical results obtained for the ground-water samples collected during the MGP/RCRA Investigation did not indicate the presence of 2-butanone in any of the ground-water samples at concentrations exceeding laboratory detection limits. However, laboratory analytical results for ground-water samples collected during the MGP/RCRA Investigation indicated the presence of acetone, 1,1-dichloroethane, and chloroform at concentrations exceeding laboratory detection limits. None of the ground-water samples collected during the July 1999 additional ground-water sampling event contained acetone, 1,1-dichloroethane, or chloroform at concentrations exceeding laboratory detection limits. None of the ground-water samples collected from the

most-downgradient monitoring wells (including MW-11, the MW-21 and MW-22 well clusters, MW-24S, and MW-25S) contained TCL VOCs at concentrations exceeding the NYSDEC Class GA standards and/or guidance values. A detailed comparison of the BTEX constituent concentrations detected in ground-water samples collected during previous sampling events (the MGP/RCRA investigation and/or July 1998 sampling event) and the additional ground-water investigation is presented in a later section of this letter. The validated TCL VOC results obtained from the laboratory analysis of the ground-water samples are presented in Table 4 and shown on Figure 2.

TCL SVOCs

A summary of the analytical results obtained from the laboratory analysis of the ground-water samples collected during the July 1999 additional ground-water investigation activities for TCL SVOCs is presented below.

Detected Constituent	NYSDEC Ground-Water Standards and Guidance Values (ppb)	Number of Sampling Locations Where Compound Was Detected	Range of Detected Concentrations (ppb)	Sample Exhibiting Maximum Concentration
2-Methylnaphthalene	NA	5	9 J - 200 D	MW-16R
Acenaphthene	20 G	7	20 - 210 J	MW-18S
Acenaphthylene	NA	3	1.0 J - 4.0 J	MW-14 / MW-16R
Anthracene	50 G	2	2.0 J	MW-14 / MW-16R
Benzo(a)anthracene	0.002 G	1	1.0 J	MW-14
Benzo(a)pyrene	ND	1	1.0 J - 2.0 J	MW-14 (DUP)
Benzo(k)fluoranthene	0.002 G	1	1.0 J	MW-14
bis(2-Ethylhexyl)phthalate	5.0	8	1.0 J - 5.0 J	MW-09
Chrysene	0.002 G	1	1.0 J	MW-14
Dibenzofuran	NA	1	2.0 J	MW-16R
Fluoranthene	50 G	1	4.0 J - 5.0 J	MW-14 (DUP)
Fluorene	50 G	6	7.0 J - 27 J	MW-18S
Naphthalene	10 G	8	1.0 J - 5,400 D	MW-18S (DUP)
Phenanthrene	50 G	5	2.0 J - 19	MW-16R
Phenol	1.0*	4	3.0 J - 21	MW-17 D
Pyrene	50 G	1	6.0 J	MW-14

Notes:

1. Concentrations are presented in parts per billion (ppb).
2. J = Estimated value.
3. D = Indicated that the concentration is based on analysis of a diluted sample.
4. DUP = Duplicate sample.
5. NYSDEC Ground-Water Standards/Guidance Values from TOGS 1.1.1, June 1998.
6. G = Guidance value
7. * = Applies to each individual isomer.
8. NA = Indicates that a NYSDEC Ground-Water Standard/Guidance Value was not available for the indicated compound.
9. ND = Indicates that the NYSDEC Ground-Water Standard/Guidance value is equal to the method detection limit.

TCL SVOCs including acenaphthalene, benzo(a)anthracene, benzo(k)fluoranthene, chrysene, naphthalene, and phenol were detected in ground-water samples collected during the additional ground-water investigation at concentrations exceeding NYSDEC Class GA ground-water standards and guidance values presented in TOGS 1.1.1. In addition, bis(2-ethylhexyl)phthalate was detected in ground-water sample MW-09 at an estimated concentrations of 5 ppm (which equals the NYSDEC Ground-Water Standard). Bis(2-ethylhexyl)phthalate is a common laboratory contaminant, and its presence in the ground-water sample is likely due to laboratory contamination or ground-water contact with field sampling equipment and materials (such as plastic sample tubing and sample gloves). None of the ground-water samples collected from the most-downgradient monitoring wells (MW-11, MW-21 and MW-22 well clusters, MW-24S, and MW-25S) contained TCL SVOCs at concentrations exceeding the NYSDEC Class GA standards and/or guidance values. A detailed comparison of the TCL SVOC concentrations detected in ground-water samples collected during previous sampling events (the MGP/RCRA investigation and/or July 1998 sampling event) and the July 1999 additional ground-water investigation is presented in a later section of this letter. TCL SVOCs results obtained from the laboratory analysis of the ground-water samples are presented in Table 5 and shown on Figure 2.

TAL Inorganic Constituents

Each of the ground-water samples collected during the additional investigation activities were submitted for laboratory analysis for total TAL inorganic constituents. In addition, filtered ground-water samples collected from monitoring wells MW-16R, MW-21R, and MW-22S were submitted for laboratory analysis for dissolved TAL inorganic constituents (due to persistently turbid ground-water conditions). The analytical results obtained from the laboratory analysis of the ground-water samples for total TAL inorganic constituents are summarized below (with the exception of typical mineral constituents, including aluminum, calcium, iron, magnesium, manganese, potassium, and sodium).

Detected Constituent	NYSDEC Ground-Water Standards and Guidance Values (ppb)	Number of Sampling Locations at which Constituent was Detected	Range of Detected Concentrations (ppb)	Samples(s) Exhibiting Maximum Concentration
Antimony	3	13	6.0 - 10.2 B	MW-03
Arsenic	25	14	6.0 B - 27	MW-14
Barium	1000	26	75.2 B - 7,700	MW-22R
Cadmium	5	5	1.1 B - 2.5 B	MW-22S
Chromium	50	8	2.4 - 38	MW-22S

Detected Constituent	NYSDEC Ground-Water Standards and Guidance Values (ppb)	Number of Sampling Locations at which Constituent was Detected	Range of Detected Concentrations (ppb)	Samples(s) Exhibiting Maximum Concentration
Cobalt	NA	23	1.2 B - 18 B	MW-22S
Copper	200	10	2.4 B - 41.8	MW-20D
Lead	25	14	2.4 B - 9.3	MW-16R
Mercury	0.7	1	0.19 B	MW-22S
Nickel	100	5	7.4 B - 45.1	MW-22S
Selenium	10	4	3.0 B - 6.5	MW-12
Thallium	0.5 G	4	6.1 B - 8.3 B	MW-03
Vanadium	NA	6	2.1 B - 19.4 B	MW-16R
Zinc	2000 G	17	3.1 B - 89.7	MW-22S
Cyanide	200	15	19.7 - 688	MW-14
Notes: 1. Concentrations are presented in parts per billion (ppb). 2. B = Value is greater than or equal to the instrument detection limit, but less than the contract-required detection limit. 3. NYSDEC Ground-Water Standards/Guidance Values from TOGS 1.1.1, June 1998. 4. G = Guidance value. 5. NA = Indicates that a NYSDEC Ground-Water Standard/Guidance Value was not available for the indicated constituent.				

TAL inorganic constituents (including arsenic, barium, cyanide, lead, and thallium) were detected at concentrations exceeding NYSDEC Class GA ground-water standards and guidance values presented in TOGS 1.1.1. Analytical results for ground-water samples collected from monitoring wells located upgradient of the service center property (monitoring wells MW-3 and MW-20D) did not exhibit a significant difference in the TAL inorganic constituent concentrations from samples collected across the site. This indicates that the detected inorganic constituents may be associated with natural background concentrations in ground water in the vicinity of the site. In addition, TAL inorganic constituent concentrations detected in ground-water samples collected during the July 1999 additional ground-water investigation are similar to those detected in ground-water samples collected during the MGP/RCRA Investigation and the July 1998 sampling event.

The dissolved inorganic constituent results obtained from the laboratory analysis of the filtered ground-water samples collected from monitoring wells MW-14, MW-16R, MW-21R, and MW-22S are summarized below (with the exception of typical mineral constituents, including aluminum, calcium, iron, magnesium, manganese, potassium, and sodium).

Detected Constituent	NYSDEC Ground-Water Standards and Guidance Values (ppb)	Number of Sampling Locations at which Constituent was Detected	Range of Detected Concentrations (ppb)	Samples(s) Exhibiting Maximum Concentration
Arsenic	25	1	4.5 B	MW-22S
Barium	1000	3	103 B - 1,880	MW-21R (DUP)
Cobalt	NA	3	2.4 B - 6.6 B	MW-22S
Lead	25	1	3.0 B	MW-21R (DUP)
Nickel	100	1	5.5 B	MW-22S
Selenium	10	3	3.5 JB - 5.7 J	MW-21R (DUP)
Zinc	2000 G	1	27.7	MW-22S
Notes: 1. Concentrations are presented in parts per billion (ppb). 2. J = Estimated concentration. 3. B = Value is greater than or equal to the instrument detection limit, but less than the contract-required detection limit. 4. NYSDEC Ground-Water Standards/Guidance Values from TOGS 1.1.1, June 1998. 5. G = Guidance value. 6. NA = Indicates that a NYSDEC Ground-Water Standard/Guidance Value was not available for the indicated constituent.				

Barium was detected at a concentration exceeding the NYSDEC guidance value in filtered ground-water samples collected from monitoring wells MW-16R and MW-21R. No other dissolved TAL inorganic constituents (with the exception of typical mineral constituents) were detected at concentrations exceeding NYSDEC ground-water standards/guidance values. The results obtained from the filtered ground-water samples suggest that the inorganic constituents detected in ground-water samples are primarily associated with suspended particulates. Total and dissolved TAL inorganic constituents results obtained from the laboratory analysis of the ground-water samples are presented in Table 6 and shown on Figure 3.

Nitrate/Nitrite and Sulfate/Sulfide

Each of the ground-water samples collected during the additional ground-water investigation activities were submitted for laboratory analysis for nitrate/nitrite and sulfate/sulfide. Analytical results obtained from the laboratory analysis of the ground-water samples for nitrate/nitrite and sulfate/sulfide provide a general indication of whether oxidized conditions exist in ground water in the vicinity of the site (and whether natural degradation of organic constituents may be possible). Analytical results obtained for the analysis of ground-water samples for nitrate/nitrite and sulfate/sulfide are summarized below.

Detected Constituent	NYSDEC Ground-Water Standards and Guidance Values (ppb)	Number of Sampling Locations at which Constituent was Detected	Range of Detected Concentrations (ppb)	Samples(s) Exhibiting Maximum Concentration
Nitrate (as N)	10,000	5	70 - 1,780	MW-01
Nitrite	10,000	1	60	MW-06A

Detected Constituent	NYSDEC Ground-Water Standards and Guidance Values (ppb)	Number of Sampling Locations at which Constituent was Detected	Range of Detected Concentrations (ppb)	Samples(s) Exhibiting Maximum Concentration
Sulfate	250,000	26	3,960 - 250,000	MW-06A
Sulfide (as S ₂)	50	0	NA	NA
Notes: 1. Concentrations are presented in parts per billion (ppb). 2. NYSDEC Ground-Water Standards/Guidance Values from TOGS 1.1.1, June 1998. 3. NA = Not applicable.				

Sulfide was not detected in any of the ground-water samples collected for the MGP/RCRA Investigation. The analytical results obtained from the laboratory analysis of ground-water samples collected during the July 1999 additional ground-water investigation support the data obtained during the MGP/RCRA Investigation. Nitrate/nitrite and sulfate/sulfite results obtained from the laboratory analysis of the ground-water samples are presented in Table 7.

DNAPL Analytical Results

As previously mentioned, DNAPL samples were collected from monitoring wells MW-6S and MW-7 during the July 1999 additional ground-water investigation activities. DNAPL samples were submitted to Saybolt for laboratory analysis for viscosity, specific gravity, interfacial tension, PAHs, BTEX constituents, PCBs, TAL metals, cyanide, TPH, and BTUs. Due to the density of the DNAPL samples, analyses could not be performed for viscosity or interfacial tension. A summary of the laboratory results for the DNAPL samples is as follows:

- Specific gravity was measured as 1.17 for DNAPL sample MW-7 and 1.18 for DNAPL sample MW-6S;
- Total PAHs were detected at concentrations of 331,749 ppm in DNAPL sample MW-6S and 355,400 ppm in DNAPL sample MW-7. The highest concentration for an individual PAH was naphthalene which was detected at concentrations of 102,000 ppm in DNAPL sample MW-6S and 116,000 ppm in DNAPL sample MW-7;
- Total BTEX constituents were detected at concentrations of 8,920 ppm in DNAPL sample MW-7 and 12,590 ppm in DNAPL sample MW-6S. The highest concentration for an individual BTEX constituent was for ethylbenzene which was detected at concentrations of 4,340 ppm in DNAPL sample MW-7 and 6,400 ppm in DNAPL sample MW-6S;
- PCBs were not detected in either DNAPL sample at concentrations exceeding the laboratory detection limit;
- TPH concentrations for gasoline range organic constituents were 15.3% in DNAPL sample MW-6S and 32.9% in DNAPL sample MW-7. TPH concentrations for diesel range organic constituents were 3% in DNAPL sample MW-7 and 42.1% in DNAPL sample MW-6S; and
- BTU content was 15,700 BTU/lb in DNAPL sample MW-7 and 16,400 BTU/lb in DNAPL sample MW-6S.

Analytical results obtained from the laboratory analysis of the DNAPL samples are presented in Tables 8 and 9.

Comparison of BTEX/SVOC Analytical Results with Previous Sampling Events

A detailed comparison of BTEX and SVOC constituent concentrations detected during previous sampling events (the MGP/RCRA Investigation and the July 1998 sampling event) with the July 1999 additional ground-water investigation is presented below.

BTEX Constituents

A comparison of the analytical results for BTEX constituents which were detected in ground-water samples collected during previous sampling events (the MGP/RCRA Investigation and/or the July 1998 sampling event) with the results for the July 1999 additional ground-water investigation activities is presented in the table below. The table includes ground-water samples in which BTEX constituents were detected at concentrations exceeding the NYSDEC Class GA standards/guidance values presented in TOGS 1.1.1.

Detected Constituent	MW-14		MW-16R		MW-17D		MW-17S		MW-18S / MW-18S DUP				MW-23S	
	6/97	7/99	6/97	7/99	6/97	7/99	6/97	7/99	6/97	7/99	6/97	7/99	7/98	7/99
Benzene	120	50	840	720	1,000	520	850	530	180	810	180	760	360 D	620 D
Toluene	4.0 J	1.0 J	200	130	ND	ND	ND	ND	5.0	20 J	4.0 J	17 J	ND	2.0 J
Ethylbenzene	16	5.0	230	270	19 J	8.0 J	21 J	17 J	160	1,100	150	1,100	23	6.0
Xylene, total	10	9.0	230	250	ND	9.0 J	ND	ND	43	240	40	230	5.0	4.0 J

Notes:

1. Concentrations are presented in parts per billion (ppb).
2. J = Indicates an estimated concentration.
3. D = Indicates that the concentration is based on analysis of a diluted sample.
4. DUP = Duplicate sample.
5. ND = Indicates that the compound was not detected at a concentration exceeding laboratory detection limits.

Laboratory results for the ground-water samples collected from MW-18S and MW-23S (which are located hydraulically downgradient of MW-13 and the Vehicle Maintenance Building in the northern portion of the site) indicate an overall increase in the BTEX constituent concentrations from the ground-water samples collected from these wells during the previous ground-water sampling events. BTEX constituent concentrations detected in ground-water samples collected from the remaining monitoring wells remained fairly consistent or were slightly reduced from the previous ground-water sampling events.

SVOCs

A comparison of the analytical results for SVOCs which were detected in ground-water samples collected during previous sampling events (the MGP/RCRA Investigation and/or the July 1998 sampling event) with the results for the July 1999 additional ground-water investigation activities is presented in the table below. The comparison includes ground-water samples in which SVOCs were detected at concentrations exceeding the NYSDEC Class GA standards/guidance values presented in TOGS 1.1.1.

Detected Constituent	MW-14		MW-16R		MW-17D		MW-17S		MW-18S / MW-18S DUP				MW-23S	
	6/97	7/99	6/97	7/99	6/97	7/99	6/97	7/99	6/97	7/99	6/97	7/99	7/98	7/99
Acenaphthene	51	67	53	78	40 J	80	110	130	14 J	210 J	17	180 J	88	180 J
Benzo(a) anthracene	ND	1.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k) fluoranthene	ND	1.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	1.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	79	65	1,300 D	1,700 D	9.0 J	5.0 J	7.0 J	7.0 J	730 DJ	4,900 D	770 D	5,400 D	22	9.0 J
Phenol	ND	ND	ND	3.0 J	ND	21	ND	7.0 J	ND	ND	ND	ND	3.0 J	13

Notes:

1. Concentrations are presented in parts per billion (ppb).
2. J = Indicates an estimated concentration.
3. D = Indicates that the concentration is based on analysis of a diluted sample.
4. ND = Indicates that the compound was not detected at a concentration exceeding laboratory detection limits.

As indicated by the results summarized above, the concentrations of acenaphthene detected in the ground-water samples collected from each of the monitoring wells increased between the MGP/RCRA investigation and the July 1999 additional ground-water sampling. Concentrations of naphthalene increased within ground-water samples collected from monitoring wells MW-16R and MW-18S. In addition, phenol was detected at concentrations exceeding the NYSDEC ground-water standard (1 ppb) in ground-water samples collected from monitoring wells MW-16R, MW-17D, MW-17S, and MW-23S as part of the July 1999 sampling event. Phenol was previously only detected in the ground-water samples collected from monitoring well MW-23S during the July 1998 sampling event. The concentrations of acenaphthalene and naphthalene within the primary and duplicate ground-water samples collected from monitoring well MW-18S increased significantly between the MGP/RCRA Investigation and the July 1999 additional ground-water sampling event. The concentrations of the remaining TCL SVOCs detected in ground-water samples collected during the July 1999 additional ground-water sampling remained fairly consistent compared to the concentrations detected in ground-water samples collected during previous sampling events.

NAPL Monitoring/Recovery Activities

The objectives of the NAPL monitoring/recovery activities included the following:

- Provide data to monitor the presence, thickness, and recharge rate of NAPL within select on-site monitoring wells;
- Obtain sufficient data to evaluate requirements for continued monitoring of NAPL in the vicinity of the service center property; and
- Obtain periodic ground-water level data in order to further evaluate the potential influence of fill material within the former Erie Canal on ground-water flow and the distribution of NAPL and/or chemical constituents in ground-water in the area hydraulically downgradient from the site.

A discussion of the NAPL monitoring/recovery field activities is presented below followed by a summary of the NAPL monitoring/recovery results.

I. NAPL Monitoring/Recovery Field Activities

NAPL monitoring/recovery activities were conducted for a one year period between July 1998 and July 1999. The NAPL monitoring/recovery activities were discontinued after the July 1999 monitoring event due to the negligible amounts of LNAPL which were detected and/or recovered from the monitoring wells during the preceding monitoring events and due to the generally similar observations of DNAPL within the wells. As part of the NAPL monitoring/recovery activities, select wells where NAPL had been previously identified were periodically monitored (once per month or once every two months) to evaluate the presence/thickness of LNAPL and/or DNAPL within the wells and recover the NAPL (to the extent possible) for off-site disposal. The specific monitoring wells which were included as part of the NAPL monitoring/recovery consisted of the following:

- Monitoring wells MW-4, MW-8, MW-10, and MW-13 in which LNAPL was observed during previous investigations, and monitoring wells MW-2, MW-5, MW-6A, MW-6S, and MW-7 in which DNAPL was observed during previous investigations;
- Monitoring wells MW-15S and MW-18S which were chosen to monitor for potential downgradient migration of LNAPL from areas where LNAPL was previously observed, and monitoring wells MW-16D and MW-17D which were chosen to monitor for potential downgradient migration of DNAPL from areas where DNAPL was previously observed; and
- Monitoring wells MW-23S, MW-24S, and MW-25S (located within Erie Boulevard) which were selected to evaluate if the fill material within the former Erie Canal bed (which is located directly beneath Erie Boulevard) may act as a preferential discharge point for the migration of NAPL (if present).

In addition, each of the on-site and off-site monitoring wells were checked for potential LNAPL and DNAPL accumulation during the July 1999 additional ground-water investigation activities in accordance with a June 11, 1999 letter from NMPC to the NYSDEC. In wells where NAPL was previously detected, an oil/water interface probe was initially used to determine the presence and thickness of LNAPL. Within wells where possible measurement errors were a concern due to NAPL potentially coating the interface probe (e.g., wells in which coal tar was encountered), a clear bottom-loading bailer was subsequently used to confirm NAPL measurements. The interface probe and/or bailers were slowly lowered into the wells to minimize disturbances to the water column. In the remaining wells (i.e., wells in which NAPL had not been previously detected), the presence/absence of NAPL was determined using the clear polypropylene bailer.

After NAPL measurements were obtained from the wells, attempts were made to recover NAPL from the monitoring wells using the procedures described in the subsections below.

LNAPL Recovery

Where encountered, LNAPL was recovered to the extent possible using a disposable bottom-loading polypropylene bailer. Within each well where LNAPL was encountered, the bottom of the bailer was lowered to a depth just below the LNAPL/water interface in order to recover as much LNAPL as possible in each bailer. Field personnel recorded the appearance and thickness of each LNAPL layer present in the bailer after retrieval from the well. By measuring the total thickness of the LNAPL recovered in the bailer from each well and the inner diameter of the bailer, the volume of LNAPL recovered from each well was calculated and recorded on field logs. The LNAPL recovered from each well was emptied into a five-gallon bucket and

transferred to a 55-gallon drum for storage prior to transportation for off-site treatment/disposal in accordance with applicable regulations.

DNAPL Recovery

Where encountered, attempts were made to recover DNAPL to the extent possible using a free product sampler (FPS) attached to the bottom of a disposable polypropylene bailer. The bailer/FPS was lowered to the bottom of each well in which DNAPL was encountered in order to recover as much product as possible in each bailer. Where manual techniques to remove DNAPL were unsuccessful, field personnel attempted to recover the DNAPL using a peristaltic pump. LNAPL and DNAPL Data Collection Field Logs are included as Attachments 2 and 3, respectively.

Seasonal Ground-Water Fluctuations within Erie Boulevard

Based on the results of the July 1998 ground-water monitoring activities to evaluate the influence of fill material within the former Erie Canal bed on shallow ground-water flow in the vicinity of the site, it did not appear that the shallow ground-water table beneath Erie Boulevard adjacent to the northern portion of the site (monitoring wells MW-23S and MW-24S) intersected the fill material within the former Erie Canal bed. In order to further investigate the potential for the fill material to influence shallow ground water flow in the vicinity of the service center property (i.e., through seasonal fluctuations in the ground-water table), BBL obtained monthly fluid level measurements for monitoring wells MW-23S, MW-24S, and MW-25S between July 1998 and July 1999. Fluid level measurements were obtained as discussed above.

II. NAPL Monitoring/Recovery Results

The results of the NAPL monitoring/recovery activities are summarized below. The discussion below includes a summary of the LNAPL and DNAPL thicknesses which were observed in the monitoring wells, the volumes of LNAPL and DNAPL recovered, and a summary of the seasonal fluctuations of the ground-water table within monitoring wells MW-23S, MW-24S, and MW-25S.

LNAPL Monitoring/Recovery Results

Over the course of the one-year monitoring period, measurable amounts of LNAPL were detected within monitoring wells MW-4, MW-7, MW-8, MW-10, and MW-13. Observed LNAPL thicknesses are summarized in the table below:

Monitoring Well ID	Number of Months LNAPL was Observed in Well	Range of Detected LNAPL Thicknesses (ft)	Month Exhibiting Greatest LNAPL Thickness	Total LNAPL Volume Removed from Well (gal)
MW-4	12	0.01 - 2.07	August 1998	1.8
MW-7	1	0.01	January 1999	NA
MW-8	12	Trace - 0.64	August 1998	0.39
MW-10	12	0.01 - 0.50	July 1998	0.32
MW-13	5	Trace - 0.01	July 98/January 99	NA
Notes: 1. Wells monitored periodically (monthly/every other month) between July 1998 and July 1999. 2. NA = Not applicable.				

Based on the July 1999 monitoring event and the NAPL monitoring/recovery activities, the updated probable LNAPL distribution in the vicinity of the site is presented on Figure 4. Observed LNAPL encountered within the wells over the course of the monitoring period included kerosene-type fluid (MW-4), weathered gasoline (MW-10), and co-mingled fuel oil and coal tar (MW-08). LNAPL was not identified within hydraulically downgradient monitoring wells located on the east side of Erie Boulevard. The LNAPL thicknesses obtained during the MGP/RCRA Investigation and during the monthly monitoring events conducted between July 1998 and July 1999 are summarized in Table 10. Graphical representations of the ground-water and LNAPL elevations measured during each monitoring event and the cumulative amount of LNAPL recovered from monitoring wells MW-4, MW-8, and MW-10 during the NAPL monitoring/recovery activities are included in Attachment 4.

DNAPL Monitoring/Recovery Results

During the NAPL monitoring/recovery activities, detectable DNAPL was encountered within monitoring wells MW-2, MW-5, MW-6S, and MW-7. Observed DNAPL thicknesses are summarized in the table below:

Monitoring Well ID	Number of Months DNAPL was Observed in Well	Range of Detected DNAPL Thicknesses (ft)	Month Exhibiting Largest DNAPL Thickness
MW-2	4	Trace	NA
MW-5	7	Trace	NA
MW-6S	9	4.61 - 4.94	January 1999
MW-7	6	Trace - 0.01*	June 1999

Notes:

1. Wells monitored on a periodic basis (monthly/once every other month) between July 1998 and July 1999.
2. * - Field notes indicate that DNAPL was too thick to determine the total depth of the well.
3. NA = Several months exhibited trace amounts of DNAPL within the specified monitoring well.

Using the results from the July 1999 monitoring event and the NAPL monitoring/recovery activities, the updated probable DNAPL distribution in the vicinity of the site is presented as Figure 4. No coal tar-type odors or visible DNAPL was observed within monitoring wells MW-16D or MW-17D which are located downgradient from the monitoring wells in which DNAPL was encountered during the MGP/RCRA Investigation. In addition, no measurable amounts of DNAPL or coal tar-type odors were detected within monitoring well MW-6A which is located immediately adjacent to monitoring well MW-6S where DNAPL was encountered. Monitoring well MW-6S is screened above a clay layer (between 3.1 and 8.1 feet below ground surface), and monitoring well MW-6A is screened below the clay layer (between 10 and 17.9 feet below ground surface). A summary of the DNAPL thicknesses measured within the monitoring wells during the monthly monitoring events is presented in Table 10.

Due to the density of the DNAPL, significant amounts of DNAPL were not recovered using manual bailing techniques. Where manual techniques to remove DNAPL were unsuccessful, field personnel attempted to recover the DNAPL using a peristaltic pump. However, due to the viscosity of the DNAPL, no product was recovered using the pumping techniques. During the July 1999 monitoring event, sufficient DNAPL was recovered from monitoring wells MW-6S and MW-7 to submit samples to Galson for laboratory analysis as previously discussed under the ground-water sampling activities.

Erie Boulevard Seasonal Ground-Water Fluctuation Results

The results of the monthly fluid level measurements within monitoring wells MW-23S, MW-24S, and MW-25S (which are located within Erie Boulevard east of the site) indicate that the water table does not intersect the fill material of the former Erie Canal bed adjacent to the northern portion of the service center property (in the vicinity of monitoring wells MW-23S and MW-24S). The water table does appear to intersect the fill material within the former Erie Canal adjacent to the southern portion of the service center property (in the vicinity of monitoring well MW-25S). During the period between July 30, 1998 and July 13, 1999, the water table at monitoring well location MW-25S appeared to fluctuate between approximately 2.5 and 4.1 feet higher than the bottom of the fill material elevation. Graphical representations of the ground-water and fill material elevations within the former Erie Canal bed between July 1998 and July 1999 are included as Attachment 5.

Conclusions and Recommendations

Conclusions and recommendations which are supported by the results of the additional ground-water investigation and the NAPL monitoring/recovery activities include the following:

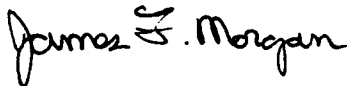
- Based on monthly monitoring of fluid levels within the ground-water monitoring wells installed within Erie Boulevard, it does not appear that the fill material within the former Erie Canal bed (located directly beneath Erie Boulevard) has a significant influence on ground-water flow or the distribution of LNAPL/dissolved phase constituents in the area hydraulically downgradient from the site. The ground-water table beneath Erie Boulevard in areas adjacent to the northern portion of the site (where NAPL and elevated concentrations of chemical constituents have been detected within the ground water) does not appear to intersect the fill material within the former Erie Canal bed.
- Analytical results for the ground-water samples collected during the additional ground-water investigation were not significantly different from the results of the ground-water samples collected during the MGP/RCRA Investigation. The chemical constituents detected within the ground-water did not appear to be migrating to downgradient wells. Based on the results of the additional ground-water investigation, NMPC proposes to conduct annual ground-water sampling at the site. As part of the initial annual ground-water monitoring activities, NMPC will collect ground-water samples from each on-site and off-site well and submit the samples for laboratory analysis for PCBs, TCL VOCs, TCL SVOCs, and TAL inorganic constituents. NMPC will not collect ground-water samples from monitoring wells in which NAPL has been encountered during previous monitoring events. Following each annual ground-water sampling event, NMPC will prepare a ground-water sampling summary letter which will include a description of the investigation activities and a summary of the ground-water sampling results. The letter will include tabulated results and figures to summarize the results of the investigation. Based on results for the initial annual monitoring event, NMPC may propose to reduce the number of sampling locations and/or constituents to be included for future monitoring events.
- Based on the monthly NAPL monitoring/recovery activities, LNAPL thicknesses appeared to fluctuate from month to month and an average rate of LNAPL recharge within the ground-water monitoring wells could not be determined. Overall, the apparent thickness of LNAPL in the monitoring wells decreased from month to month over the course of the one-year monitoring period. In addition, LNAPL was not observed to be migrating to downgradient monitoring wells. Where DNAPL thicknesses were able to be measured, the thicknesses remained fairly consistent over the course of the one-year monitoring period. In certain cases, trace amounts of DNAPL were detected and the total thickness of the DNAPL could not be determined due to the density of the NAPL. DNAPL encountered during the monitoring/recovery

activities did not appear to migrate to any significant degree. An updated probable NAPL distribution figure was developed based on observations during the NAPL monitoring/recovery activities and the monitoring well installation activities conducted during the MGP/RCRA Investigation. No significant changes in the probable NAPL distribution beneath the site was indicated based on the results of the NAPL monitoring/recovery activities conducted between July 1998 and July 1999.

- Based on the continued observed presence of LNAPL in the area north of Building 2 and in the vicinity of monitoring well MW-10, NMPC proposes to continue the NAPL monitoring/recovery activities on a quarterly basis (beginning during the second quarter of 2000). NAPL monitoring/recovery activities will include passive LNAPL recovery from monitoring wells MW-04, MW-08, and MW-10. In addition, NMPC will continue monitoring for the presence of LNAPL within monitoring wells MW-13 and MW-18S which are located within the probable limits of the LNAPL plume, MW-17S and MW-23S which are located immediately downgradient of the probable LNAPL plume, and MW-15S and MW-25S which are located downgradient of monitoring well MW-10 in the southern portion of the service center property. In conjunction with the LNAPL recovery activities, NMPC will continue to monitor the presence and/or thickness of DNAPL at monitoring well locations MW-2, MW-5, MW-6A, MW-6S, MW-7, and MW-17D which are located within the probable limits of the DNAPL plume, and at monitoring well MW-16D which is located immediately downgradient of the probable limits of the DNAPL plume. NMPC will include a summary of the NAPL monitoring/recovery results for the previous year of monitoring within the letter report to be prepared following each annual ground-water monitoring event.

Please do not hesitate to contact me at (315) 428-3101 if you have any questions or require additional information.

Sincerely,



James F. Morgan
Environmental Analyst

JDB/cmd
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cc: Mr. James P. Meacham, New York State Department of Environmental Conservation
William J. Holzhauer, Esq., Niagara Mohawk Power Corporation
William C. Weiss, Esq., Niagara Mohawk Power Corporation (w/o exhibit)
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Ms. Lynette B. Mokry, Blasland, Bouck & Lee, Inc. (w/o exhibit)

Tables

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

TABLE 1

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

ADDITIONAL GROUND-WATER INVESTIGATION

GROUND-WATER ELEVATIONS (ft)

Well Number	Top of Casing Elevation	Ground-Water Elevation 09/27/96	Ground-Water Elevation 06/2/97	Ground-Water Elevation 7/30/98	Ground-Water Elevation 8/31/98	Ground-Water Elevation 10/5/98	Ground-Water Elevation 11/30/98	Ground-Water Elevation 12/8/98	Ground-Water Elevation 1/6/99	Ground-Water Elevation 2/3/99	Ground-Water Elevation 3/2/99	Ground-Water Elevation 3/30/99	Ground-Water Elevation 5/6/99	Ground-Water Elevation 6/2/99	Ground-Water Elevation 7/13/99
MW-01	22.93	14.62	14.61	14.65	NM	NM	NM	NM	NM	14.54	NM	NM	NM	NM	14.42
MW-02	26.51	18.41	18.55	18.53	18.31	18.04	18.23	17.99	18.04	18.65	18.72	18.87	18.52	18.48	18.51
MW-03	21.77	15.06	NM	14.94	NM	NM	NM	NM	NM	--	NM	NM	NM	NM	15.32
MW-04	19.52	13.93	12.85	13.92	13.07	13.42	13.96	13.75	13.54	14.68	14.67	14.33	14.41	10.66	14.66
MW-05	20.25	15.68	15.93	15.69	15.53	15.08	15.14	14.87	14.65	14.96	15.42	15.83	15.67	15.70	15.62
MW-06A	15.99	NI	6.89	6.66	6.31	6.04	6.43	6.18	5.99	--	--	7.45	6.50	6.50	6.64
MW-06S	16.10	NI	13.94	13.40	14.30	13.80	14.12	NM	13.58	--	--	14.78	14.31	14.11	14.39
MW-07	17.84	15.03	15.19	14.80	14.46	14.18	14.71	14.18	14.18	15.44	15.38	15.51	15.25	14.80	15.13
MW-08	19.22	10.59	11.72	10.02	13.02	9.37	11.38	9.63	10.55	14.60	14.18	13.98	13.42	10.98	11.91
MW-09	21.24	9.09	9.02	9.03	NM	NM	NM	NM	NM	9.61	NM	NM	NM	NM	9.06
MW-10	17.45	6.40	6.58	6.15	5.38	5.05	6.30	5.67	4.98	6.89	6.50	7.88	5.85	6.31	7.44
MW-11	20.97	5.24	5.49	5.35	NM	NM	NM	NM	NM	--	NM	NM	NM	NM	4.89
MW-12	20.27	6.68	6.81	6.62	NM	NM	NM	NM	NM	6.61	NM	NM	NM	NM	6.24
MW-13	21.98	16.30	17.23	16.72	16.23	15.93	16.45	16.01	15.63	16.97	16.08	17.48	16.70	16.68	17.06
MW-14	17.63	6.59	6.70	6.48	NM	NM	NM	NM	NM	6.72	NM	NM	NM	NM	6.50
MW-15S	16.66	NI	10.94	10.76	NM	9.93	NM	10.86	NM	11.76	NM	NM	10.59	NM	11.45
MW-16D	15.81	NI	6.41	6.21	NM	5.63	NM	5.76	NM	6.56	--	NM	6.06	NM	6.26
MW-16R	16.15	NI	7.87	3.75	NM	NM	NM	NM	NM	7.53	NM	NM	7.05	NM	7.27
MW-17D	16.76	NI	5.20	5.04	4.75	4.54	4.89	4.72	4.55	5.49	5.35	5.92	4.90	4.91	5.08
MW-17S	16.42	NI	5.28	5.09	NM	NM	NM	4.73	NM	5.49	NM	NM	NM	NM	5.06
MW-18S	16.54	NI	5.57	5.42	5.07	4.85	5.20	5.00	4.90	5.75	5.93	7.04	5.39	5.32	5.39
MW-19D	17.00	NI	8.90	8.69	NM	NM	NM	NM	NM	9.27	NM	NM	NM	NM	8.85
MW-20D	31.32	NI	24.18	24.17	NM	NM	NM	NM	NM	24.22	NM	NM	NM	NM	24.10
MW-21D	15.67	NI	2.87	2.49	NM	NM	NM	NM	NM	3.13	3.12	NM	NM	NM	1.94
MW-21R	15.68	NI	2.66	-9.45	NM	NM	NM	NM	NM	3.12	3.06	NM	NM	NM	2.48
MW-21S	15.40	NI	3.14	2.64	NM	NM	NM	1.35	NM	3.78	3.85	NM	NM	NM	2.02
MW-22D	15.45	NI	3.10	2.65	NM	NM	NM	NM	NM	--	2.54	NM	NM	NM	2.04
MW-22R	15.48	NI	3.33	3.07	NM	NM	NM	NM	NM	--	2.40	NM	NM	NM	2.46
MW-22S	15.83	NI	5.31	3.30	NM	NM	NM	2.12	NM	--	1.69	NM	NM	NM	3.65
MW-23S	15.28	NI	NI	5.11	4.79	4.53	4.87	4.70	4.52	5.40	5.34	5.78	4.96	4.84	4.87
MW-24S	13.17	NI	NI	4.41	4.10	3.82	4.12	3.85	3.73	4.82	4.64	5.32	4.27	4.13	4.21
MW-25S	11.30	NI	NI	4.81	4.28	3.96	4.28	4.06	3.83	4.85	4.85	5.46	4.47	4.30	4.51
PZ-01D	17.99	NI	10.65	10.32	NM	NM	NM	NM	NM	10.51	NM	NM	10.01	9.94	10.28
PZ-01S	17.73	NI	13.83	13.68	NM	NM	NM	NM	NM	14.01	NM	NM	13.22	13.49	14.06
PZ-02	17.83	NI	5.71	5.52	NM	NM	NM	NM	NM	5.36	NM	NM	NM	NM	NM

Notes:

1. NM = Not measured.
2. NI = Not installed at the time of the monitoring event.
3. All measurements in feet above mean sea level (AMSL), all elevations referenced to NGVD 1929.
4. Water levels for MW-16R and MW-21R measured on 7/30/98 appear to be affected by air pressure buildup in well.
5. Water levels shown in this table are not density-compensated to account for the presence of DNAPL.
6. -- = Monitoring wells not gauged due to coverage of wells by snowbanks or water.
7. Monitoring well MW-06, which was installed during PSA activities (Foster Wheeler, 1995), was apparently paved over and has not been located.
8. For MW-7, the depth of well at installation is approximately 3.5 feet deeper than currently observed. However, DNAPL has only been sporadically observed in trace amounts.

TABLE 2

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

MGP/RCRA INVESTIGATION
GROUND-WATER FIELD PARAMETERS

Wow!

	MW-1 7/22/99	MW-3 7/22/99	MW-6D 7/20/99	MW-9 7/21/99	MW-11 7/14/99	MW-12 7/21/99	MW-14 7/20/99	MW-15S 7/13/99	MW-16D 7/12/99	MW-16R 7/13/99	MW-17D 7/16/99	MW-17S 7/13/99	MW-18S 7/14/99
Turbidity	22	1	33	4	6	12	25	12.1	31.7	939	31	40	44
Temperature	16.77	22.30	17.18	18.82	17.49	17.59	17.81	15.21	16.83	16.82	15.20	16.50	15.30
pH	5.19	5.89	5.46	5.56	6.78	4.94	6.09	6.64	6.59	8.47	6.71	6.57	6.53
Conductivity	2.054	3.904	2.437	3.083	1.897	2.169	3.282	1.021	2.404	1.502	3.016	2.307	2.020
ORP	NA	NA	-47.5	NA	-143.5	NA	-93.2	-66.0	-85.3	-119.3	-98.8	-120.7	-55.5
DO	1.02	0.32	0.28	0.22	0.18	0.28	0.29	0.17	0.59	0.68	0.22	0.23	0.22

	MW-19D 7/12/99	MW-20D 7/22/99	MW-21D 7/19/99	MW-21R 7/21/99	MW-21S 7/19/99	MW-22D 7/19/99	MW-22R 7/19/99	MW-22S 7/16/99	MW-23S 7/14/99	MW-24S 7/15/99	MW-25S 7/15/99	PZ-01D 7/21/99	PZ-01S 7/21/99
Turbidity	5.1	5	10	--	9	6	6	10*	47	18	2	14	3
Temperature	16.07	15.18	13.70	--	16.03	14.95	14.95	21.7	17.78	19.45	18.55	16.6	21.69
pH	6.18	5.40	6.33	--	5.97	5.86	6.62	6.33	6.68	6.66	6.73	5.82	6.10
Conductivity	1.697	4.160	2.897	--	1.349	1.376	1.242	1.279	2.681	2.815	2.209	1.168	1.262
ORP	19.7	NA	-75.1	--	200.1	42.6	-84.0	35.2	-122.0	-56.2	-59.0	-52.8	-90.6
DO	0.48	0.26	0.31	--	0.41	0.37	0.24	0.59	0.32	0.31	0.10	0.18	0.34

Notes:

- Field parameters measured by Blasland, Bouck & Lee, Inc.
- Field parameters measured using a YSI flow through cell equipped with a 6820 Sonde and 610-D Monitor, and a HACH Turbidimeter.
- Indicated field parameters were collected at the beginning of ground-water sampling.
- Turbidity is measured in nephelometric turbidity units (NTUs).
- Temperature is measured in degrees Celsius (C°).
- pH is measured in standard units (S.U.)
- Conductivity is measured in millisiemens per centimeter (mS/cm).
- ORP = oxidation reduction potential.
- Oxidation reduction potential is measured in millivolts (mV)
- DO = Dissolved oxygen.
- Dissolved oxygen is measured in milligrams per liter (mg/L)

TABLE 3

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

ADDITIONAL GROUND-WATER INVESTIGATION
GROUND-WATER ANALYTICAL RESULTS FOR PCBs

Sample ID Sample Date	NYSDEC Class GA Standard	MW-01 7/22/99	MW-03 7/22/99	MW-06A 7/20/99	MW-09 7/21/99	MW-11 7/14/99	MW-12 7/21/99	MW-14 7/20/99	MW-14 (GW-DUP-2) 7/20/99	MW-15S 7/13/99	MW-16D 7/12/99	MW-16R 7/13/99	MW-17S 7/13/99	MW-17D 7/16/99	MW-18S 7/14/99
Aroclor-1016	0.09 b	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1221	0.09 b	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1232	0.09 b	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1242	0.09 b	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1248	0.09 b	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1254	0.09 b	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1260	0.09 b	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.48 U

Sample ID Sample Date	NYSDEC Class GA Standard	MW-18S (GW-DUP-1) 7/14/99	MW-19D 7/12/99	MW-20D 7/22/99	MW-21D 7/19/99	MW-21R 7/21/99	MW-21S 7/19/99	MW-22D 7/19/99	MW-22R 7/19/99	MW-22S 7/16/99	MW-23S 7/14/99	MW-24S 7/15/99	MW-25S 7/15/99	PZ-01D 7/21/99	PZ-01S 7/21/99
Aroclor-1016	0.09 b	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1221	0.09 b	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1232	0.09 b	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1242	0.09 b	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1248	0.09 b	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1254	0.09 b	0.48 U	0.48 U	0.48 U	0.5 U	1.5	0.48 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1260	0.09 b	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.5 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc.
2. Samples were analyzed for PCBs in accordance with NYSDEC 1995 ASP methods.
3. Laboratory analysis was conducted by Galson Laboratories, Inc. (Galson) located in Syracuse, NY.
4. Concentrations reported in parts per billion (ppb) or micrograms per liter (ug/L).
5. Sample designations indicate the following:
MW = Monitoring Well
DUP = Duplicate Sample
6. Bold and shaded values are equal to or greater than NYSDEC criteria for ground water (Ambient Water Quality Standards and Guidance Values, June, 1998).
7. U = Indicates that the constituent was not detected.
8. Analytical results were validated by Blasland, Bouck & Lee, Inc.
Criteria Notes:
b = Value listed applies to the sum of these substances.

TABLE 4

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

ADDITIONAL GROUND-WATER INVESTIGATION
GROUND-WATER ANALYTICAL RESULTS FOR DETECTED VOCs

Sample ID Sample Date	NYSDEC Class GA Standard	MW-01 7/22/99	MW-03 7/22/99	MW-06A 7/20/99	MW-09 7/21/99	MW-11 7/14/99	MW-12 7/21/99	MW-14 7/20/99	MW-14 (GW-DUP-2) 7/20/99	MW-15S 7/13/99	MW-16D 7/12/99	MW-16R 7/13/99	MW-17D 7/16/99	MW-17S 7/13/99	MW-18S 7/14/99
2-Butanone	50 G	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	100 U	50. U	100 U	100 U
Benzene	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50	45	5.0 U	5.0 U	720	520	530	810
Ethylbenzene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0	4.0 J	5.0 U	5.0 U	270	8.0 J	17. J	1,100
Toluene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 J	5.0 U	5.0 U	5.0 U	130	25. U	50. U	20. J
Xylenes, Total	5 d	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	9.0	8.0	5.0 U	5.0 U	250	9.0 J	50. U	240

Sample ID Sample Date	NYSDEC Class GA Standard	MW-18S (GW-DUP-1) 7/14/99	MW-19D 7/12/99	MW-20D 7/22/99	MW-21D 7/19/99	MW-21R 7/21/99	MW-21S 7/19/99	MW-22D 7/19/99	MW-22R 7/19/99	MW-22S 7/16/99	MW-23S 7/14/99	MW-24S 7/15/99	MW-25S 7/15/99	PZ-01D 7/21/99	PZ-01S 7/21/99
2-Butanone	50 G	83. J	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U
Benzene	1	760	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	620 D	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5	1,100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	6.0	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	5	17. J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 J	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes, Total	5 d	230	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	4.0 J	5.0 U	5.0 U	5.0 U	5.0 U

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc.
2. Samples were analyzed for volatile organic compounds in accordance with NYSDEC 1995 ASP methods.
3. Laboratory analysis was conducted by Galson Laboratories, Inc. (Galson) located in Syracuse, NY.
4. Concentrations reported in parts per billion (ppb) or micrograms per liter (ug/L).
5. Sample designations indicate the following:
MW = Monitoring Well
DUP = Duplicate Sample.
6. Bold and shaded values are equal to or greater than NYSDEC criteria for ground water (ambient Water Quality Standards and Guidance Values, June 1998).
7. U = Indicates that the constituent was not detected at a concentration exceeding laboratory detection limits.
8. J = The concentration is an estimated result.
9. D = The concentration is based on a diluted sample analysis.
10. Analytical results were validated by Blasland, Bouck & Lee, Inc.

Criteria Notes:

- d = Value listed applies to each isomer individually.
G = Guidance Value.

TABLE 5

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

ADDITIONAL GROUND-WATER INVESTIGATION
GROUND-WATER ANALYTICAL RESULTS FOR DETECTED SVOCs

Sample ID Sample Date	NYSDEC Class GA Standard	MW-01 7/22/99	MW-03 7/22/99	MW-06A 7/20/99	MW-09 7/21/99	MW-11 7/14/99	MW-12 7/21/99	MW-14 7/20/99	MW-14 (GW-DUP-2) 7/20/99	MW-15S 7/13/99	MW-16D 7/12/99	MW-16R 7/13/99	MW-17D 7/16/99	MW-17S 7/13/99	MW-18S 7/14/99
2-Methylnaphthalene	NA	10. U	10. U	10. U	10. U	10. U	10. U	10.	9.0 J	10. U	10. U	200 D	80.	10. U	140 J
Acenaphthene	20 G	10. U	10. U	10. U	10. U	10. U	10. U	67.	64.	10. U	10. U	78.	80.	130.	210 J
Acenaphthylene	NA	10. U	10. U	10. U	10. U	10. U	10. U	4.0 J	4.0 J	10. U	10. U	4.0 J	10. U	10. U	250 U
Anthracene	50 G	10. U	10. U	10. U	10. U	10. U	10. U	2.0 J	2.0 J	10. U	10. U	2.0 J	10. U	10. U	250 U
Benzo(a)anthracene	0.002 G	10. UJ	10. U	10. U	10. U	10. U	10. U	1.0 J	1.0 J	10. U	10. U	10. U	10. U	10. U	250 U
Benzo(a)pyrene	ND	10. UJ	10. U	10. U	10. U	10. U	10. U	1.0 J	2.0 J	10. U	10. U	10. U	10. U	10. U	250 UJ
Benzo(k)fluoranthene	0.002 G	10. UJ	10. U	10. U	10. U	10. U	10. U	1.0 J	1.0 J	10. U	10. U	10. U	10. U	10. U	250 U
bis(2-Ethylhexyl)phthalate	5	10. UJ	10. U	1.0 J	5.0 J	2.0 J	10. U	1.0 J	10. U	47. U	10. U	18. U	10. U	10. U	250 U
Chrysene	0.002 G	10. UJ	10. U	10. U	10. U	10. U	10. U	1.0 J	1.0 J	10. U	10. U	10. U	10. U	10. U	250 U
Dibenzofuran	NA	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	2.0 J	10. U	10. U	250 U
Fluoranthene	50 G	10. U	10. U	10. U	10. U	10. U	10. U	4.0 J	5.0 J	10. U	10. U	10. U	10. U	10. U	250 U
Fluorene	50 G	10. U	10. U	10. U	10. U	10. U	10. U	11.	11.	10. U	10. U	21.	7.0 J	12.	27. J
Naphthalene	10 G	10. U	10. U	10. U	10. U	1.0 J	10. U	65.	59.	10. U	10. U	1,700 D	5.0 J	7.0 J	4,900 D
Phenanthrene	50 G	10. U	10. U	10. U	10. U	10. U	10. U	15.	15.	10. U	10. U	19.	2.0 J	4.0 J	250 U
Phenol	I a	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	3.0 J	21.	7.0 J	250 U
Pyrene	50 G	10. UJ	10. U	10. U	10. U	10. U	10. U	6.0 J	6.0 J	10. U	10. U	10. U	10. U	10. U	250 U

See Notes, page 3.

TABLE 5

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK
ADDITIONAL GROUND-WATER INVESTIGATION
GROUND-WATER ANALYTICAL RESULTS FOR DETECTED SVOCs

Sample ID	Sample Date	GA Standard	NYSDBC Class	MW-18S (GW-DUP-I)	MW-19D	MW-20D	MW-21D	MW-21R	MW-21S	MW-22D	MW-22R	MW-22S	MW-24S	MW-25S	PZ-01D	PZ-01S
2-Methylnaphthalene	NA	160 J	NA	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U
Acenaphthylene	20 G	180 J	NA	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	2.0 J
Acenaphthene	50 G	250 U	NA	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U
Anthracene	0.002 G	250 U	NA	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U
Benzo(a)anthracene	0.002 G	250 U	ND	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U
Benzo(a)pyrene	0.002 G	250 U	NA	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U
Benzo(k)fluoranthene	5	250 U	0.002 G	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U
bis(2-Ethylhexyl)phthalate	0.002 G	250 U	0.002 G	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U
Chrysene	0.002 G	250 U	NA	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U
Dibenzofuran	NA	250 U	NA	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U
Fluoranthene	50 G	250 U	50 G	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U
Fluorene	10 G	5,400 D	10 G	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U
Naphthalene	50 G	250 U	50 G	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U
Phenanthrene	1 a	250 U	1 a	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U
Phenol	50 G	250 U	50 G	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U
Pyrene	50 G	250 U	50 G	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U	10. U

TABLE 5

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

ADDITIONAL GROUND-WATER INVESTIGATION
GROUND-WATER ANALYTICAL RESULTS FOR DETECTED SVOCs

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc.
 2. Samples were analyzed for semi-volatile organic compounds in accordance with NYSDEC 1995 ASP methods.
 3. Laboratory analysis was conducted by Galson Laboratories, Inc. (Galson) located in Syracuse, NY.
 4. Concentrations reported in parts per billion (ppb) or micrograms per liter (ug/L).
 5. Sample designations indicate the following:
 - MW = Monitoring Well
 - DUP = Duplicate Sample.
 6. NA = Criteria for this constituent are not available.
 7. ND = Criteria for this constituent are equal to the method detection limit.
 8. Bold and shaded values are equal to or greater than NYSDEC criteria for ground water (ambient Water Quality Standards and Guidance Values, June 1998).
 9. U = Indicates that the constituent was not detected at a concentration exceeding laboratory detection limits.
 10. J = The concentration is an estimated result.
 11. D = The concentration is based on a diluted sample analysis.
 12. Analytical results were validated by Blasland, Bouck & Lee, Inc.
- Criteria Notes:
- a = Value listed applies to the sum of these substances.
 - G = Guidance Value.

TABLE 6

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

ADDITIONAL GROUND-WATER INVESTIGATION
GROUND-WATER ANALYTICAL RESULTS FOR TOTAL INORGANIC CONSTITUENTS

Sample ID Sample Date	NYSDEC Class GA Standard	MW-01 7/22/99	MW-03 7/22/99	MW-06A 7/20/99	MW-09 7/21/99	MW-11 7/14/99	MW-12 7/21/99	MW-14 7/20/99	MW-15S 7/13/99	MW-16D 7/12/99	MW-16R 7/13/99 Total Dissolved		MW-17D 7/16/99	MW-17S 7/13/99	MW-18S 7/14/99
Aluminum	NA	420	121 B	956	121 B	88. U	276	265	428	224	11,900	103 BJ	821	485	524
Antimony	3	7.9 B	10.2 B	7.1 B	6.0 B	5.0 U	8.3 B	8.6 B	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
Arsenic	25	4.0 U	4.0 U	5.8 B	4.0 U	13.9	4.0 U	27	4.0 U	6.2 B	4.0 U	4.0 U	5.3 B	12.3	4.0 U
Barium	1000	127 B	251	253	120 B	199 B	75.2 B	1,470	254	1,010	1,790	1,460	5,530	1,560	1,090
Beryllium	3 G	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cadmium	5	1.0 U	1.0 U	1.0 U	1.4 B	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	NA	164,000	288,000	246,000	240,000	198,000	175,000	253,000	105,000	193,000	10,300	5,150	237,000	194,000	175,000
Chromium	50	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.8 B	2.0 U	33.6	2.0 U	2.8 B	2.0 U	2.4 B
Cobalt	NA	1.0 U	1.6 B	1.6 B	2.1 B	3.1 B	2.9 B	2.6 B	1.2 B	4.9 B	11.1 B	2.4 B	5.6 B	2.4 B	6.1 B
Copper	200	2.0 U	2.0 U	4.9 B	2.0 U	2.0 U	2.0 U	2.0 U	3.0 B	4.0 B	16.6 B	2.0 U	2.0 U	2.0 U	2.0 U
Cyanide, Total	200 L	10. U	10. U	224	10. U	10. U	10. U	688	10. U	118	254	NA	332	161	194
Iron	300 h	2,760	208 U	44,100	833	39,800	130	8,880	5,590	19,500	22,000	141 J	27,900	57,200	20,200
Lead	25	2.4 B	2.4 B	7.4	4.2	2.0 U	2.0 U	4.6	2.0 U	2.0 U	9.3	2.0 U	2.0 U	2.0 U	2.0 U
Magnesium	35000 G	38,200	79,300	36,200	63,600	39,500	36,300	47,400	11,100	27,600	7,330	688 B	59,400	44,700	28,300
Manganese	300 h	816	7,950	3,960	1,130	5,750	3,910	8,170	913	3,080	345	21.2	4,890	7,670	11,000
Mercury	0.7	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	30.1 B	5.0 U	5.0 U	5.0 U	7.4 B
Potassium	NA	9,530	25,200	11,500	6,350	9,540	10,100	10,300	5,410	8,060	7,820	6,280	9,730	6,710	8,380
Selenium	10	3.0 U	3.0 U	3.0 U	3.0 B	3.0 U	6.5	3.0 U	3.0 U	3.0 U	3.0 U	5.6 J	3.0 U	3.0 U	3.0 U
Silver	50	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U
Sodium	20000	194,000	323,000	203,000	277,000	74,400	219,000	342,000	75,300	240,000	354,000	361,000	277,000	172,000	181,000
Thallium	0.5 G	6.0 U	8.3 B	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.2 B	6.0 U	6.0 U
Vanadium	NA	2.0 U	2.0 U	2.1 B	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	19.4 B	2.0 U	2.0 U	2.0 U	2.0 U
Zinc	2000 G	3.9 B	3.0 U	22.8	5.1 B	18.7 B	4.3 B	3.0 U	4.4 B	5.3 B	59.1	3.0 U	3.0 U	3.0 U	3.0 U

See Notes, page 4.

TABLE 6

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

ADDITIONAL GROUND-WATER INVESTIGATION
GROUND-WATER ANALYTICAL RESULTS FOR TAL INORGANIC CONSTITUENTS

Sample ID Sample Date	NYSDEC Class GA Standard	MW-18S (GW-DUP-1) 7/14/99	MW-19D 7/12/99	MW-20D 7/22/99	MW-21D 7/19/99	MW-21R 7/21/99		MW-21R (GW-DUP-2) 7/21/99		MW-21S 7/19/99	MW-22D 7/19/99	MW-22R 7/19/99	MW-22S 7/16/99		MW-23S 7/14/99
						Total	Dissolved	Total	Dissolved				Total	Dissolved	
Aluminum	NA	474	424	138 B	368	9,380	88. U	8,980	97.3 B	88. U	189 B	328	953	88. UJ	1,760
Antimony	3	5.0 U	5.0 U	8.6 B	9.6 B	8.2 B	5.0 UJ	9.9 B	5.0 UJ	6.3 B	8.4 B	7.1 B	5.0 U	5.0 UJ	5.0 U
Arsenic	25	4.0 U	4.0 U	4.0 U	4.0 U	4.6 B	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	13.5	4.5 B	10.4
Barium	1000	1,040	83.1 B	186 B	1,210	1,930	1,820	1,860	1,880	168 B	4,830	7,700	164 B	103 B	3,250
Beryllium	3 G	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cadmium	5	1.0 U	2.1 B	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.5 B	1.0 U	1.1 B
Calcium	NA	172,000	147,000	307,000	272,000	17,400	15,400	17,000	15,800	233,000	199,000	116,000	217,000	215,000	198,000
Chromium	50	3.1 B	2.0 U	2.0 U	2.0 U	25.6	2.0 U	24.3	2.0 U	2.0 U	2.0 U	2.0 U	38.	2.0 U	3.4 B
Cobalt	NA	6.7 B	10.7 B	3.2 B	1.3 B	9.0 B	4.4 B	9.9 B	3.6 B	2.8 B	1.5 B	3.1 B	18. B	6.6 B	6.0 B
Copper	200	2.4 B	2.8 B	41.8	2.0 U	10.6 B	2.0 U	6.6 B	2.0 U	2.0 U	2.0 U	2.0 U	24. B	2.0 U	8.9 B
Cyanide, Total	200 L	196	66.8	10. U	108	77.2	NA	69.	NA	19.7	10. U	10. U	10. U	NA	263
Iron	300 h	18,800	5,430	151	23,800	16,300	237	15,800	240	1,680	3,940	363	36,500	1,820 J	50,300
Lead	25	2.0 U	2.0 U	4.1	2.0 U	5.7	2.0 U	6.0	3.0 B	2.0 U	2.0 U	3.1	48.4	2.0 U	2.9 B
Magnesium	35000 G	27,800	30,200	69,100	55,200	8,410	3,500 B	8,110	3,620 B	40,700	51,300	30,400	32,600	32,400	41,600
Manganese	300 h	10,800	9,430	893	5,350	297	92.8	290	95.1	5,520	3,250	1,500	962	950	10,200
Mercury	0.7	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.19 B	0.1 U	0.1 U
Nickel	100	6.6 B	5.0 U	5.0 U	5.0 U	21.6 B	5.0 U	21.9 B	5.0 U	5.0 U	5.0 U	5.0 U	45.1	5.5 B	5.0 U
Potassium	NA	8,100	18,800	5,440	8,980	6,300	5,040	6,390	5,210	8,100	3,550 B	9,610	10,500 J	12,100 J	18,100
Selenium	10	4.3 B	3.0 U	3.0 U	3.9 B	3.0 U	3.5 BJ	3.0 U	5.7 J	3.0 U	3.0 U	3.0 U	R	R	3.0 U
Silver	50	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U
Sodium	20000	178,000	126,000	454,000	215,000	223,000	217,000	219,000	218,000	40,600	34,300	130,000	19,800	19,900	271,000
Thallium	0.5 G	6.0 U	6.5 B	6.0 U	6.1 B	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	12. U	6.0 U
Vanadium	NA	2.0 U	2.0 U	2.0 U	2.0 U	14.6 B	2.0 U	14.3 B	2.0 U	2.0 U	2.0 U	2.0 U	7.2 B	2.0 U	2.9 B
Zinc	2000 G	3.0 U	9.5 B	29.8	3.1 B	32.0	3.0 U	30.1	3.0 U	3.0 U	3.6 B	3.0 U	89.7	27.7	11. B

TABLE 6

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

ADDITIONAL GROUND-WATER INVESTIGATION
GROUND-WATER ANALYTICAL RESULTS FOR TAL INORGANIC CONSTITUENTS

Sample ID Sample Date	NYSDEC Class GA Standard	MW-24S 7/15/99	MW-25S 7/15/99	PZ-01D 7/21/99	PZ-01S 7/21/99
Aluminum	NA	565	343	843	111 B
Antimony	3	5.0 U	5.0 U	5.0 U	6.4 B
Arsenic	25	9.0 B	4.0 U	17.3	4.1 B
Barium	1000	1,540	416	459	190 B
Beryllium	3 G	2.0 U	2.0 U	2.0 U	2.0 U
Cadmium	5	1.0 U	2.4 B	1.0 U	1.0 U
Calcium	NA	217,000	171,000	121,000	144,000
Chromium	50	2.0 U	2.0 U	2.0 U	2.0 U
Cobalt	NA	4.3 B	1.4 B	1.0 U	1.0 U
Copper	200	2.0 U	2.0 U	6.4 B	2.0 U
Cyanide, Total	200 L	131	10. U	27.9	33.1
Iron	300 h	15,300	8,290	13,400	21,000
Lead	25	2.0 U	2.5 B	3.9	2.5 B
Magnesium	35000 G	42,800	36,900	13,700	17,000
Manganese	300 h	5,020	3,920	1,630	1,790
Mercury	0.7	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	100	5.0 U	5.0 U	5.0 U	5.0 U
Potassium	NA	9,760	8,560	5,540	10,900
Selenium	10	3.0 U	3.0 U	3.0 U	3.0 U
Silver	50	2.0 U	2.0 U	2.0 U	2.0 U
Sodium	20000	281,000	211,000	116,000	98,300
Thallium	0.5 G	6.0 U	6.0 U	6.0 U	6.0 U
Vanadium	NA	2.0 U	2.0 U	2.0 U	2.0 U
Zinc	2000 G	3.0 U	3.0 U	9.3 B	3.0 U

TABLE 6

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

ADDITIONAL GROUND-WATER INVESTIGATION
GROUND-WATER ANALYTICAL RESULTS FOR TAL INORGANIC CONSTITUENTS

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc.
 2. Samples were analyzed for Target Analyte List (TAL) inorganic constituents in accordance with NYSDEC 1995 ASP methods.
 3. Laboratory analysis was conducted by Galson Laboratories, Inc. (Galson) located in Syracuse, NY.
 4. Concentrations reported in parts per billion (ppb) or micrograms per liter (ug/L).
 5. Sample designations indicate the following:
 MW = Monitoring Well
 DUP = Duplicate Sample.
 6. NA = Criteria for this constituent are not available.
 7. Bold and shaded values are equal to or greater than NYSDEC criteria for ground water (ambient Water Quality Standards and Guidance Values, June 1998).
 8. NA = Laboratory did not analyze the sample for this constituent.
 9. U = Indicates that the constituent was not detected at a concentration exceeding laboratory detection limits.
 10. J = The concentration is an estimated result.
 11. D = The concentration is based on a diluted sample analysis.
 12. B = Indicates that the reported result was greater than or equal to the instrument detection limit, but less than the contract-required detection limit.
 13. Analytical results were validated by Blasland, Bouck & Lee, Inc.
- Criteria Notes:
- G = Guidance Value.
 - h = Iron and Manganese criteria is for 300 individually or 500 as a sum.
 - L = Applies to total Cyanide.

TABLE 7

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

ADDITIONAL GROUND-WATER INVESTIGATION
GROUND-WATER ANALYTICAL RESULTS FOR SUPPLEMENTAL PARAMETERS

Sample ID	NYSDEC Class	MW-01	MW-03	MW-06A	MW-09	MW-11	MW-12	MW-14	MW-14 (GW-DUP-2)	MW-15S	MW-16D	MW-16R	MW-17D	MW-17S	MW-18S
Sample Date	GA Standard	7/22/99	7/22/99	7/20/99	7/21/99	7/14/99	7/21/99	7/20/99	7/20/99	7/13/99	7/12/99	7/13/99	7/16/99	7/13/99	7/14/99
Nitrate	10,000	1,780	70.	50. U	90.	50. U	50. U	50. U	50. U	50. U	50. U	50. U	50. U	50. U	50. U
Nitrite	10,000	20. U	20. U	20. U	20. U	20. U	20. U	20. U	20. U	20. U	20. U	20. U	20. U	20. U	20. U
Sulfate	250,000	125,000	52,400	250,000	151,000	42,200	131,000	4,200	4,200	42,200	69,400	49,400	8,150	9,730	10,000
Sulfide	50	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U

Sample ID	NYSDEC Class	MW-18S (GW-DUP-1)	MW-19D	MW-20D	MW-21D	MW-21R	MW-21S	MW-22D	MW-22R	MW-22S	MW-23S	MW-24S	MW-25S	PZ-01D	PZ-01S
Sample Date	GA Standard	7/14/99	7/12/99	7/22/99	7/19/99	7/21/99	7/19/99	7/19/99	7/19/99	7/16/99	7/14/99	7/15/99	7/15/99	7/21/99	7/21/99
Nitrate	10,000	50. U	50. U	1,680	50. U	50. U	50. U	50. U	50. U	140	50. U	50. U	50. U	50. U	50. U
Nitrite	10,000	20. U	20. U	60.	20. U	20. U	20. U	20. U	20. U	20. U	20. U	20. U	20. U	20. U	20. U
Sulfate	250,000	9,870	107,000	143,000	29,700	4,200	247,000	3,500	3,960	241,000	8,580	42,900	48,700	45,300	12,300
Sulfide	50	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc.
2. Samples were analyzed for supplemental parameters in accordance with NYSDEC 1995 ASP methods.
3. Laboratory analysis was conducted by Galson Laboratories, Inc. (Galson) located in Syracuse, NY.
4. Concentrations reported in parts per billion (ppb) or micrograms per liter (ug/L).
5. Sample designations indicate the following:
MW = Monitoring Well
DUP = Duplicate Sample.
6. Bold and shaded values are equal to or greater than NYSDEC criteria for ground water (Ambient Water Quality Standards and Guidance Values, June 1998).
7. U = Indicates that the constituent was not detected at a concentration exceeding laboratory detection limits.
8. Analytical results were validated by Blasland, Bouck & Lee, Inc.

TABLE 8

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

NAPL INTERIM REMEDIAL MEASURE
DNAPL Analytical Results for PAHs, TPH, and BTEX Constituents (ppm)

Constituent	MW-06S	MW-07
Polynuclear Aromatic Hydrocarbons		
Acenaphthene	24,200	10,600
Acenaphthylene	9,860	21,300
Anthracene	8,880	9,010
Benzo(a)anthracene	8,690	8,160
Benzo(a)pyrene	10,500	9,870
Benzo(b)fluoranthene	4,390	5,750
Benzo(g,h,i)perylene	9,490	7,890
Benzo(k)fluoranthene	5,080	4,920
Chrysene	7,280	6,660
Dibenzo(a,h)anthracene	225	360
Fluoranthene	22,800	26,200
Fluorene	7,770	10,400
Indeno(1,2,3-cd)pyrene	954	2,580
1-Methylnaphthalene	6,330	7,200
2-Methylnaphthalene	13,700	14,300
Naphthalene	102,000	116,000
Phenanthrene	46,700	52,000
Pyrene	42,900	42,200
BTEX Constituents		
Benzene	2,280	1,340
Toluene	2,000	1,510
Ethylbenzene	6,400	4,340
Xylene (total)	1,910	1,730
Total Petroleum Hydrocarbons		
Gasoline Range Organics	153,000	329,000
Diesel Range Organics	421,000	30,000

Notes:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) on July 13, 1999.
2. Laboratory analysis conducted by Saybolt, Inc.
3. TAL = Target Analyte List.
4. Samples analyzed using USEPA SW-846 Method 6010 with the following exceptions:
 - Mercury was analyzed using Method 7470/7471; and
 - Cyanide was analyzed using Method 9010.
5. Concentrations reported in parts per million (ppm) or milligrams per kilogram (mg/kg).
6. Sample designations indicate the following:
MW = Monitoring well

TABLE 9

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

NAPL INTERIM REMEDIAL MEASURE
DNAPL Analytical Results for TAL Inorganic Constituents (ppm)

Constituent	MW-06S	MW-07
Aluminum	50	22
Arsenic	2	ND
Barium	0.6	ND
Iron	190	135
Lead	3	2
Manganese	3.3	0.9
Mercury	ND	ND
Zinc	2	ND
Cyanide	ND	ND

Notes:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) on July 13, 1999.
2. Laboratory analysis conducted by Saybolt, Inc.
3. TAL = Target Analyte List.
4. Samples analyzed using USEPA SW-846 Method 6010 with the following exceptions:
 - Mercury was analyzed using Method 7470/7471; and
 - Cyanide was analyzed using Method 9010.
5. Concentrations reported in parts per million (ppm) or milligrams per kilogram (mg/kg).
6. Sample designations indicate the following:
MW = Monitoring well

TABLE 10

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

ADDITIONAL GROUND-WATER INVESTIGATION

NAPL THICKNESS MEASUREMENTS (ft)

Well Number	NAPL		NAPL		NAPL		NAPL		NAPL		NAPL		NAPL		NAPL		NAPL		NAPL		NAPL		NAPL		NAPL		NAPL		NAPL		NAPL		NAPL	
	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type
	6/27/96		6/2/97		7/30/98		8/31/98		10/5/98		10/30/98		12/8/98		1/6/99		1/23/99		3/2/99		3/30/99		5/6/99		6/2/99		7/13/99							
MW-01	ND		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		ND	
MW-02	0.07	D	0.05	D	ND		ND		ND		ND		ND		ND		ND		ND		Trace	D	Trace	D	Trace	D	Trace	D	Trace	D	Trace	D	Trace	D
MW-03	ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-04	ND		2.07	L	1.05*	L	1.34*	L	0.64*	L	0.24*	L	0.30*	L	0.24*	L	0.01*	L	0.02*	L	1.29*	L	0.70*	L	0.36*	L	0.77*	L						
MW-05	0.15	D	ND		ND		Trace	D	Trace	D	ND		ND		ND		ND		Trace	D	Trace	D	Trace	D	Trace	D	Trace	D	Trace	D	Trace	D	Trace	D
MW-06A	NI		ND		ND		ND		ND		ND		ND		ND		--		--		ND		ND		ND		ND		ND		ND		ND	
MW-06S	NI		ND		4.80	D	4.80	D	4.88	D	4.88	D	--		4.94	D	--	--	--	--	4.87	D	4.84	D	4.61	D	4.65	D						
MW-07	0.02	D	ND		ND		Trace	D	ND		ND		ND		0.01	L	ND		Trace	D	Trace	D	Trace	D	Trace	D	0.01**	D	**		D		D	
MW-08	1.20	L	0.10	L	0.50*	L	0.64*	L	0.61*	L	0.30*	L	0.34*	L	0.04*	L	0.01*	L	0.03*	L	0.07*	L	Trace*	L	0.01*	L	0.01*	L	0.01*	L	0.01*	L	0.01*	L
MW-09	ND		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		ND	
MW-10	0.87	L	0.61	L	0.50*	L	0.42*	L	0.35*	L	0.17*	L	0.07*	L	0.32*	L	0.22*	L	0.25*	L	0.11*	L	0.28*	L	0.08*	L	0.01*	L						
MW-11	ND		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		ND	
MW-12	ND		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		ND	
MW-13	0.11	L	0.05	L	0.01	L	ND		ND		ND		ND		0.01	L	ND		ND		ND		Trace*	L	Trace	L	Trace	L	Trace	L				
MW-14	ND		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		ND	
MW-15S	NI		ND		ND		NM		ND		NM		ND		NM		ND		NM		NM		NM		NM		NM		NM		NM		ND	
MW-16D	NI		ND		ND		NM		ND		NM		ND		NM		ND		NM		NM		NM		NM		NM		NM		NM		ND	
MW-16R	NI		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		ND	
MW-17D	NI		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
MW-17S	NI		ND		NM		NM		NM		NM		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		ND	
MW-18S	NI		ND		NM		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
MW-19D	NI		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		ND	
MW-20D	NI		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		ND	
MW-21D	NI		ND		NM		NM		NM		NM		NM		NM		NM		ND		NM		NM		NM		NM		NM		NM		ND	
MW-21R	NI		ND		NM		NM		NM		NM		NM		NM		NM		ND		NM		NM		NM		NM		NM		NM		ND	
MW-21S	NI		ND		NM		NM		NM		NM		ND		NM		NM		ND		NM		NM		NM		NM		NM		NM		ND	
MW-22D	NI		ND		NM		NM		NM		NM		NM		NM		NM		ND		NM		NM		NM		NM		NM		NM		ND	
MW-22R	NI		ND		NM		NM		NM		NM		NM		NM		NM		ND		NM		NM		NM		NM		NM		NM		ND	
MW-22S	NI		ND		NM		NM		NM		NM		ND		NM		NM		ND		NM		NM		NM		NM		NM		NM		ND	
MW-23S	NI		NI		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
MW-24S	NI		NI		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
MW-25S	NI		NI		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
PZ-01D	NI		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		ND	
PZ-01S	NI		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		ND	
PZ-02	NI		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	

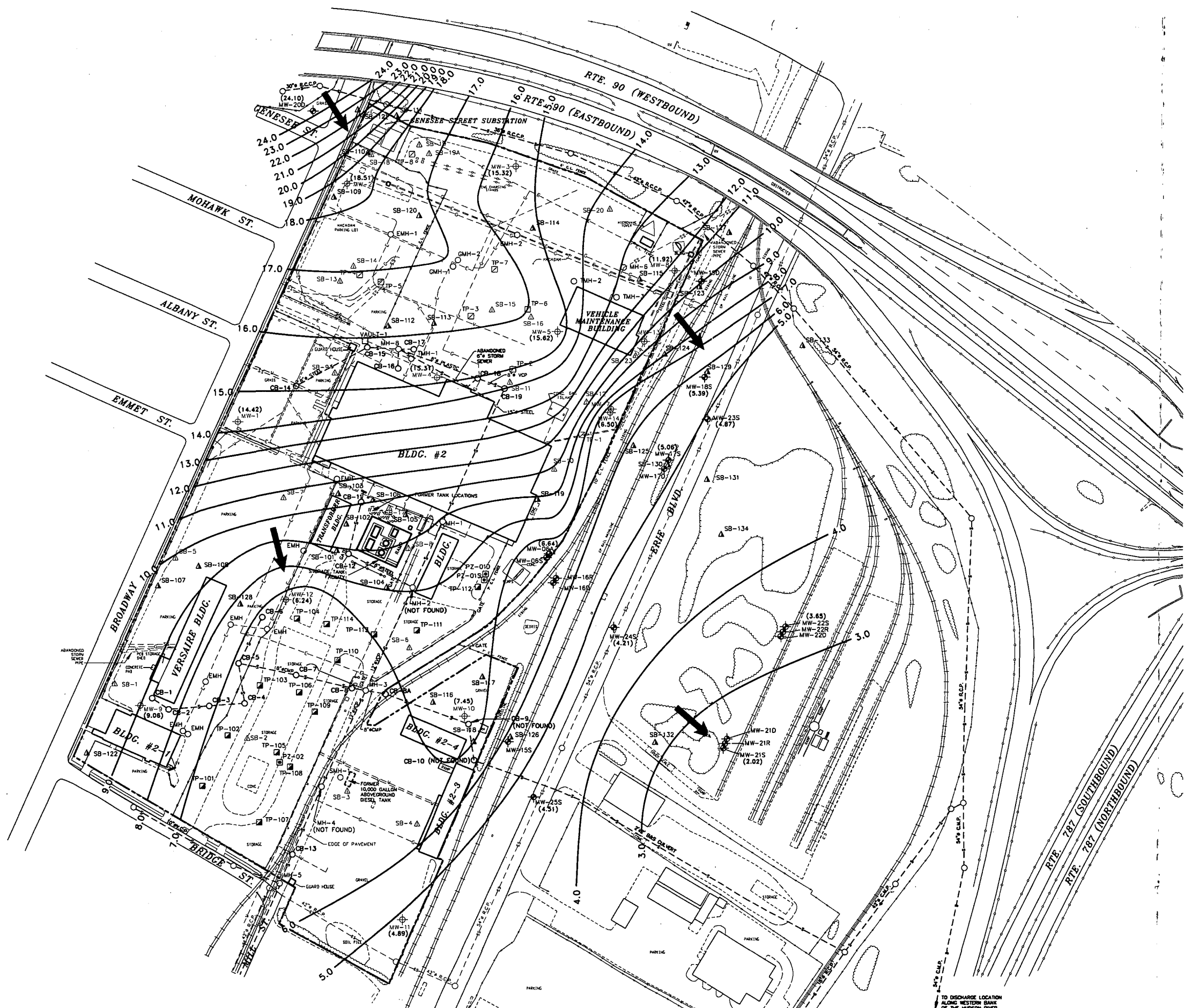
Notes:

1. NM = Not measured.
2. NI = Not installed at the time of the monitoring event.
3. D = Indicates dense, non-aqueous phase liquid (DNAPL) was observed.
4. L = Indicates light, non-aqueous phase liquid (LNAPL) was observed.
5. * = Indicates NAPL was removed to the extent possible as part of an Interim Remedial Measure (IRM).
6. DNAPL was not able to be recovered from monitoring well MW-06S by bailing or using a peristaltic pump.
7. -- = Monitoring wells not gauged due to coverage of wells by snowbanks or water.
8. ** = Indicates DNAPL was too thick to recover and/or determine the total depth of the well.
9. ND = NAPL was checked for but not observed.
10. For MW-7, the depth of well at installation is approximately 3.5 feet deeper than currently observed. However, DNAPL has only been sporadically observed in trace amounts.

Figures

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

L: ON= * OFF= * REF= *
P: STD/D26L
1/19/00 SYR-54-RCB
36469015/3646901.DWG



- LEGEND**
- FENCE
 - EXISTING RAILROAD
 - APPROXIMATE PROPERTY LINE
 - MW-155 MGP/RCRA GROUND-WATER MONITORING WELL LOCATION
 - SB-126 MGP/RCRA SOIL BORING LOCATION
 - TP-105 MGP/RCRA TEST PIT LOCATION
 - PZ-015 MGP/RCRA PIEZOMETER
 - MW-11 PSA/IRM GROUND-WATER MONITORING WELL LOCATION
 - SB-4 PSA/IRM SOIL BORING LOCATION
 - TP-3 PSA/IRM TEST PIT LOCATION
 - CB-2 EXISTING CATCH BASIN
 - MH-1 EXISTING STORM SEWER MANHOLE
 - EMH-1 EXISTING ELECTRICAL MANHOLE
 - TMH-1 EXISTING TELEPHONE MANHOLE
 - GMH-1 EXISTING UTILITY MANHOLE
 - S — STORM SEWER
 - SS — SANITARY SEWER
 - T — TELEPHONE LINE
 - E — ELECTRICAL LINE
 - G — GAS LINE
 - W — WATER LINE
 - C — CABLE LINE
 - GR — GUARD RAIL
 - 3.0 — GROUND-WATER ELEVATION CONTOUR
 - (2.02) GROUND-WATER ELEVATION (IN FEET AMSL)
 - ← GROUND-WATER FLOW DIRECTION

- NOTES:**
1. BASE MAP INCLUDING BUILDING LOCATIONS AND PSA/IRM SAMPLING (LOCATIONS) DEVELOPED FROM ELECTRONIC FILE OF NIAGARA MOHAWK POWER CORPORATION (NMPC) DRAWING NO. C-29736-C, DATED JULY 1994, ENTITLED NORTH ALBANY SERVICE CENTER HAZARDOUS WASTE MANAGEMENT PERMIT APPLICATION, TOPOGRAPHIC MAP-INDEX SHEET.
 2. LOCATION OF UNDERGROUND UTILITIES (INCLUDING ON SITE STORM SEWERS, SANITARY SEWERS, TELEPHONE LINES, ELECTRICAL LINES, GAS LINES, WATER LINES AND CABLE) WERE DIGITIZED FROM NMPC DRAWING NO. D-29734-E FILE INDEX NO. 20.3-A1.1-92, DATED JUNE 27, 1994, ENTITLED NORTH ALBANY SERVICE CENTER SITE PLAN - PAVING (OUTSIDE FENCE).
 3. MGP/RCRA INVESTIGATION SAMPLING LOCATIONS AND LOCATIONS OF MANHOLES AND CATCH BASINS WERE OBTAINED FROM A SURVEY CONDUCTED BY NMPC DURING JULY/AUGUST 1997 WITH THE FOLLOWING EXCEPTIONS: SB-116 AND SB-117, WHICH ARE APPROXIMATE LOCATIONS.
 4. LOCATIONS OF OFF-SITE STORM AND SANITARY SEWERS WERE DIGITIZED FROM CITY OF ALBANY DRAWINGS AND ARE APPROXIMATE.
 5. GROUND-WATER ELEVATIONS FOR MONITORING WELLS MW-04, MW-08, AND MW-10 WERE DENSITY COMPENSATED TO ACCOUNT FOR THE PRESENCE OF LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL).
 6. GROUND-WATER ELEVATION DATA OBTAINED FROM MONITORING WELLS MW-6S, MW-7, MW-13, MW-15S, AND PIEZOMETER PZ-01S WERE NOT INCLUDED WHEN CREATING THE CONTOUR MAP.



NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ADDITIONAL GROUND-WATER INVESTIGATION
**SHALLOW GROUND-WATER
POTENTIOMETRIC SURFACE
CONTOUR MAP (JULY 13, 1999)**

BBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
1

VOC Constituent	07/20/99	7/20/99 (DUP)
Benzene	150	45
Ethylbenzene	5	4 J
Toluene	1 J	ND
Xylene (Total)	9	8
SVOC Constituent		
2-Methylnaphthalene	10	9 J
Acenaphthene	67	64
Acenaphthylene	4 J	4 J
Anthracene	2 J	2 J
Benzo(a)anthracene	1 J	1 J
Benzo(a)pyrene	1 J	2 J
Benzo(k)fluoranthene	1 J	1 J
bis(2-Ethylhexyl)phthalate	1 J	ND
Chrysene	1 J	1 J
Fluoranthene	4 J	5 J
Fluorene	11	11
Naphthalene	65	59
Phenanthrene	15	15
Pyrene	6 J	6 J

VOC Constituent	07/12/99
bis(2-Ethylhexyl)phthalate	4 J

VOC Constituent	07/14/99	7/14/99 (DUP)
2-Butanone	ND	83 J
Benzene	1810	1760
Ethylbenzene	1,100	1,100
Toluene	20 J	17 J
Xylene (Total)	240	230
SVOC Constituent		
2-Methylnaphthalene	140 J	160 J
Acenaphthene	210 J	180 J
Fluorene	27 J	ND
Naphthalene	4,900 D	5,400 D

VOC Constituent	07/14/99
Benzene	1620 D
Ethylbenzene	6
Toluene	2 J
Xylene (Total)	4 J
SVOC Constituent	
Acenaphthene	180 J
Acenaphthylene	1 J
bis(2-Ethylhexyl)phthalate	10
Fluorene	1 J
Naphthalene	9 J
Phenanthrene	4 J
Phenol	13

VOC Constituents	07/13/99
Benzene	530
Ethylbenzene	17 J
SVOC Constituent	
Acenaphthene	130
Fluorene	12
Naphthalene	7 J
Phenanthrene	4 J
Phenol	7 J

VOC Constituent	07/16/99
Benzene	520
Ethylbenzene	8 J
Xylene (Total)	9 J
SVOC Constituent	
2-Methylnaphthalene	80
Acenaphthene	180
Fluorene	7 J
Naphthalene	5 J
Phenanthrene	2 J
Phenol	21

VOC Constituent	07/20/99
bis(2-Ethylhexyl)phthalate	1 J

VOC Constituent	07/16/99
Naphthalene	1 J

VOC Constituent	07/13/99
Benzene	720
Ethylbenzene	270
Toluene	130
Xylene (Total)	250
SVOC Constituent	
Acenaphthene	78
Acenaphthylene	4 J
Anthracene	2 J
Dibenzofuran	2 J
Fluorene	21
Naphthalene	1,700 D
Phenanthrene	19
Phenol	13 J
2-Methylnaphthalene	200

VOC Constituent	07/15/99
Acenaphthene	20
bis(2-Ethylhexyl)phthalate	3 J

VOC Constituent	07/21/99
Acenaphthene	2 J

VOC Constituent	07/15/99
bis(2-Ethylhexyl)phthalate	2 J

VOC Constituent	07/14/99
bis(2-Ethylhexyl)phthalate	2 J
Naphthalene	1 J

VOC Constituent	07/21/99
bis(2-Ethylhexyl)phthalate	5 J

LEGEND	
—	FENCE
—	EXISTING RAILROAD
—	APPROXIMATE PROPERTY LINE
MW-155	MCP/RCRA GROUND-WATER MONITORING WELL LOCATION
SB-126	MCP/RCRA SOIL BORING LOCATION
TP-105	MCP/RCRA TEST PIT LOCATION
PZ-015	MCP/RCRA PIEZOMETER
MW-11	PSA/IRM GROUND-WATER MONITORING WELL LOCATION
SB-4	PSA/IRM SOIL BORING LOCATION
TP-3	PSA/IRM TEST PIT LOCATION
CB-2	EXISTING CATCH BASIN
MH-1	EXISTING STORM SEWER MANHOLE
EMH-1	EXISTING ELECTRICAL MANHOLE
TMH-1	EXISTING TELEPHONE MANHOLE
GMH-1	EXISTING UTILITY MANHOLE
—	STORM SEWER
—	SANITARY SEWER
—	TELEPHONE LINE
—	ELECTRICAL LINE
—	GAS LINE
—	WATER LINE
—	CABLE LINE
—	GUARD RAIL
MW-10	MONITORING WELLS WHERE PRESENCE OF NAPLS PRECLUDED GROUND-WATER ANALYSIS
—	CONSTITUENT DETECTED AT CONCENTRATION EXCEEDING NYSDEC STANDARDS/GUIDANCE VALUES PRESENTED IN TOGS 1.1.1.
D	CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS
J	ESTIMATED CONCENTRATION
ND	NOT DETECTED

- GENERAL NOTES:**
- BASE MAP (INCLUDING BUILDING LOCATIONS AND PSA/IRM SAMPLING LOCATIONS) DEVELOPED FROM ELECTRONIC FILE OF NIAGARA MOHAWK POWER CORPORATION (NMPC) DRAWING NO. C-29736-C, DATED JULY 1994, ENTITLED NORTH ALBANY SERVICE CENTER HAZARDOUS WASTE MANAGEMENT PERMIT APPLICATION, TOPOGRAPHIC MAP - INDEX SHEET.
 - LOCATIONS OF UNDERGROUND UTILITIES (INCLUDING ON-SITE STORM SEWERS, SANITARY SEWERS, TELEPHONE LINES, ELECTRICAL LINES, GAS LINES, WATER LINES, AND CABLES) WERE DIGITIZED FROM NMPC DRAWING NO. D-29734-E, FILE INDEX NO. 20.3-A1.1-B2, DATED JUNE 27, 1994, ENTITLED NORTH ALBANY SERVICE CENTER SITE PLAN - PAVING (OUTSIDE FENCE).
 - MCP/RCRA INVESTIGATION SAMPLING LOCATIONS AND LOCATIONS OF MANHOLES AND CATCH BASINS WERE OBTAINED FROM A SURVEY CONDUCTED BY NMPC DURING JULY/AUGUST 1997 WITH THE FOLLOWING EXCEPTIONS: SB-116 AND SB-117, WHICH ARE APPROXIMATE LOCATIONS.
 - LOCATIONS OF OFF-SITE STORM AND SANITARY SEWERS WERE DIGITIZED FROM CITY OF ALBANY DRAWINGS AND ARE APPROXIMATE.

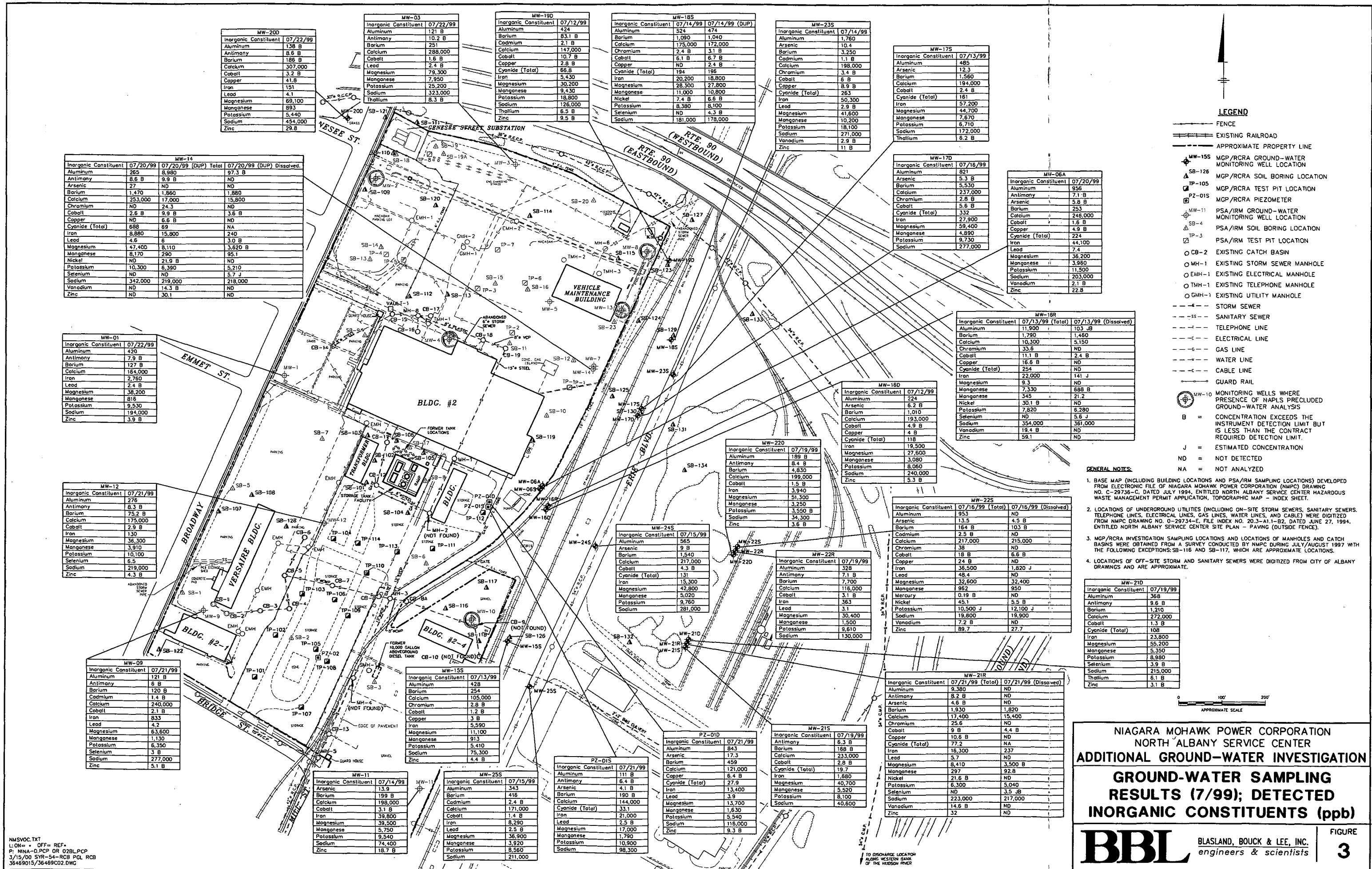
0 100' 200'
APPROXIMATE SCALE

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ADDITIONAL GROUND-WATER INVESTIGATION
**GROUND-WATER SAMPLING
RESULTS (7/99); DETECTED VOCs
AND SVOCs (ppb)**

BBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
2

NMSVOC.TXT
L:ON= * OFF= REF.
P: NINA-D.PCP OR D2BL.PCP
3/15/00 SYR-54-RCB PGL RCB
36469015/36469001.DWG



Attachments

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

*Attachment 1 - Ground-Water Sampling
Logs*

COPIES
LBM

GROUNDWATER SAMPLING FIELD LOG

Well No. MCU-1
Key No. _____
PID Background (ppm) 0-0
Well Headspace (ppm) 0-0

Site Well Niagara Mohawk North Albany
Sampling Personnel LMS/SPR
Date 7/27/99 Time In 1350 Out 1615
Weather Sun 87° Humid

WELL INFORMATION

	TIC
Reference Point Marked on Casing	X
Well Diameter	2"
Well Depth	24.70
Intake Depth of pump/tubing	21'
Water Table Depth	8.55

Started pumping @ 1414
Stopped pumping @ 1515
Sampled @ 1505
Sample ID MCU-1
Sampled for:

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	16.15
Volume of Water in Well	2.103
Pumping Rate of Pump	
Minutes of Pumping	45-50

- () PCBs (Total) / 4 degrees
- () PCBs (Dissolved) / 4 degrees
- (X) TCL VOCs / HCL and 4 degrees
- (X) TCL SVOCs / 4 degrees
- (X) TAL Metals (Total) / HNO3 and 4 degrees
- () TAL Metals (Dissolved) / HNO3 and 4 degrees
- (X) Sulfate / 4 degrees
- (X) Sulfide / NaOH / ZnAc and 4 degrees
- (X) Nitrate/Nitrite H2SO4 and 4 degrees
- (X) Cyanide / NaOH and 4 degrees

Parameters: YSI flow-through cell, 6820 Sonde, & 610-D Minitor
plus HACH Turbidimeter

EVACUATION INFORMATION

Volume of water removed from well 4.59
Did well go dry? Y (N)

Evacuation Method: Bailer () Pump (X) Groundfos w/ded. disp. LDPE tubing
Evacuation Rate: 340 ml/min

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	526	732	261		120	41	32	27	22						22
Temperature (Celsius)	16.05	16.88	16.88		16.83	16.80	16.91	16.85	16.71						16.82
pH	5.26	5.05	5.05		5.27	5.22	5.26	5.21	5.19						5.18
Conductance (mS/cm)	2.19	2.08	2.09		2.06	2.060	2.057	2.054	2.054						2.054
Oxidation Reduction Potential (ORP) mv	124.1	423.9	47.1		190.8										
DO (mg/l)	1.60	2.55	1.18		1.38	1.14	1.08	1.04	1.02						1.00
Water Level (TIC)	8.92	8.92	8.92		8.92	8.92	8.93	8.92	8.92						8.92

Calibration Standard Readings

PH 10.63
pH 6.00
C 2.190

MISCELLANEOUS OBSERVATIONS/PROBLEMS

initial purge - turbid, brown, odorless.
Disregard ORP readings. There is a problem w/ the probe.

SAMPLE DESTINATION

Laboratory: Galson
Delivered BY: LMS/SPR
Field Sampling Coordinator: Leanne Sanders

Via: FedEx

Airbill #: 80981072 4605

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-3
 Key No. _____
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel MS/SPR
 Date 7/22/97 Time In 0920 Out 1140
 Weather sun Humid 87°F

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>7</u>
Well Diameter	<u>2"</u>
Well Depth	<u>11.5'</u>
Intake Depth of pump/tubing	<u>7.1'</u>
Water Table Depth	<u>6.72</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>4.84</u>
Volume of Water In Well	<u>0.79</u>
Pumping Rate of Pump	<u>61</u>
Minutes of Pumping	<u>61</u>

Started pumping @ 0956
 Stopped pumping @ 1108
 Sampled @ 1058
 Sample ID MW-3
 Sampled for:

- ☒ PCBs (Total) / 4 degrees
- ☐ PCBs (Dissolved) / 4 degrees
- ☒ TCL VOCs / HCL and 4 degrees
- ☒ TCL SVOCs / 4 degrees
- ☒ TAL Metals (Total) / HNO3 and 4 degrees
- ☐ TAL Metals (Dissolved) / HNO3 and 4 degrees
- ☒ Sulfate / 4 degrees
- ☒ Sulfide / NaOH / ZnAc and 4 degrees
- ☒ Nitrate/Nitrite H2SO4 and 4 degrees
- ☒ Cyanide / NaOH and 4 degrees

Parameters: VSI noted w/flow through cell,
6820 Sonde & 610-D Monitor plus
HACH Turbidimeter

EVACUATION INFORMATION

Volume of water removed from well 492L
 Did well go dry? Y N

Evacuation Method: Bailer (1) Pump (4) Grundfos w/ded. disp.
LDPE tubing

Evacuation Rate: 250ml/min

0957 1007 1012 1017 1022 1027 1032 1037 1042 1047 1052 1055 1058 1107

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	19	22	12	7	4	2	2	2	3	1	1	1	1	1	1
Temperature (Celsius)	19.59	21.65	22.04	22.20	22.26	22.30	22.35	22.20	22.36	22.2	22.28	22.3	22.60	22.60	22.60
pH	6.14	6.19	6.12	6.10	6.07	6.05	6.06	6.05	6.07	5.95	5.91	5.90	5.89	5.88	5.88
Conductance (mS/cm)	24.91	4.48	4.308	4.239	4.171	4.128	4.093	4.062	4.020	3.988	3.927	3.914	3.907	3.900	3.900
* Oxidation Reduction Potential (ORP) mv	201.1	328.3	402.1	417.8	457.4	493.7	457.6	487.3	493.2	508.2	558.8	545.1	572.0	583.2	583.2
DO (mg/l)	0.56	0.34	0.34	0.36	0.33	0.32	0.31	0.31	0.29	0.32	0.32	0.32	0.32	0.32	0.32
Water Level (TIC)	6.52	6.78	6.78	6.78	6.78	6.79	6.79	6.78	6.80	6.80	6.80	6.80	6.80	6.80	6.77

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge - clear, colorless, odorless. ORP values
still v. high. Changed w.t. son + re-calibrated ORP meter prior to sampling.
Sampled clear, colorless, odorless

SAMPLE DESTINATION

Laboratory: Galsion
 Delivered BY: MS/SPR
 Field Sampling Coordinator: Leanne Sanders

Via: FedEx

Airbill #: 80981072 4605

* Disregard ORP reading. Probe
apparently bad

Maddyson
New - Morganfield

GROUNDWATER SAMPLING FIELD LOG

Well No. Deep MW-68 D2
 Key No. ---
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel LMS/SPR
 Date 7/27/97 Time In 1340 Out 1520
 Weather Sun 85°F

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>X</u>
Well Diameter	<u>2"</u>
Well Depth	<u>17.72</u>
Intake Depth of pump/tubing	<u>15</u>
Water Table Depth	<u>9.59</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>8.13</u>
Volume of Water in Well	<u>1.33m</u>
Pumping Rate of Pump	<u>---</u>
Minutes of Pumping	<u>46</u>

Started pumping @ 1355
 Stopped pumping @ 1456
 Sampled @ 1443
 Sample ID MW-6D
 Sampled for:

- (☒) PCBs (Total) / 4 degrees
 (☐) PCBs (Dissolved) / 4 degrees
 (☒) TCL VOCs / HCL and 4 degrees
 (☒) TCL SVOCs / 4 degrees
 (☒) TAL Metals (Total) / HNO3 and 4 degrees
 (☐) TAL Metals (Dissolved) / HNO3 and 4 degrees
 (☒) Sulfate / 4 degrees
 (☒) Sulfide / NaOH / ZnAc and 4 degrees
 (☒) Nitrate/Nitrite H2SO4 and 4 degrees
 (☒) Cyanide / NaOH and 4 degrees

EVACUATION INFORMATION

Volume of water removed from well ~692l
 Did well go dry? Y (☐) N (☒)

Evacuation Method: Bailer (☐) Pump (☒)
 Evacuation Rate: 490L/min

Parameters 457 flow through well, 6820 Sande - 610-D
Monitor + HACH Turbidity meter

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	21000	354	269	173	90	65	73	62	54	38	31	33			48
Temperature (Celsius)	17.18	16.95	17.11	17.01	17.04	17.01	16.89	17.02	16.90	17.10	17.15	17.18			17.01
pH	5.73	5.61	5.57	5.53	5.50	5.48	5.46	5.45	5.49	5.47	5.47	5.46			5.44
Conductance (mS/cm)	2.443	2.440	2.440	2.443	2.444	2.444	2.445	2.446	2.443	2.440	2.439	2.437			2.433
Oxidation Reduction Potential (ORP) mv	29.6	-20.1	-30.9	-40.4	-45.0	-45.9	-46.3	-46.6	-46.7	-49.3	-45.2	-47.5			-49.2
DO (mg/l)	0.52	0.32	0.28	0.28	0.28	0.28	0.28	0.29	0.28	0.26	0.27	0.29			0.27
Water Level (TIC)	10.23	10.03	10.03	10.03	10.04	10.04	10.06	10.03	10.04	10.03	10.03	10.04			10.03

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial Purge - 9124, turbid color.
Water in outer casing needed to be removed before opening. Sampled
0.624, colorless, odorless.

SAMPLE DESTINATION

Laboratory: Galson
 Delivered BY: LMS/SPR
 Field Sampling Coordinator: Leanne Sanders

Via: EdEx

Airbill #: 809810724590

GROUNDWATER SAMPLING FIELD LOG

Well No.

MW-9

Key No.

2537

PID Background (ppm)

0.0 new

Well Headspace (ppm)

0.0 11ck

Site Well Niagara Mohawk North Albany

Sampling Personnel LMS/SPR

Date 7/21/99 Time In 1425 Out 1630

Weather Sun 87°

WELL INFORMATION

	TIC
Reference Point Marked on Casing	2'
Well Diameter	2"
Well Depth	19.47
Intake Depth of pump/tubing	2.5
Water Table Depth	10.31

Redevelop? (Y/N)

N

WATER WELL INFORMATION

Length of Water Column	7.16
Volume of Water in Well	1.292
Pumping Rate of Pump	
Minutes of Pumping	61

Started pumping @

1449

Stopped pumping @

1604

Sampled @

1550

Sample ID

MW-9

Sampled for:

- () PCBs (Total) / 4 degrees
- () PCBs (Dissolved) / 4 degrees
- () TCL VOCs / HCL and 4 degrees
- () TCL SVOCs / 4 degrees
- () TAL Metals (Total) / HNO3 and 4 degrees
- () TAL Metals (Dissolved) / HNO3 and 4 degrees
- () Sulfate / 4 degrees
- () Sulfide / NaOH / ZnAc and 4 degrees
- () Nitrate/Nitrite H2SO4 and 4 degrees
- () Cyanide / NaOH and 4 degrees

EVACUATION INFORMATION

Volume of water removed from well

4.592

Did well go dry? Y N

Evacuation Method: Bailer () Pump ()

Evacuation Rate:

Ground for w/ded. dup. LDPE tubing

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final	Final
Turbidity (NTU)	3.24	15.3	6.6	6.30	17	12	10	8		9	5	5	4	9			
Temperature (Celsius)	18.64	19.61	19.85	19.02	19.16	18.89	18.81	18.88		18.88	18.90	18.85	18.82	18.82	18.82	18.82	18.82
pH	5.47	5.38	5.40	5.58	5.52	5.46	5.44	5.44		5.55	5.55	5.51	5.49	5.56	5.56	5.56	5.56
Conductance (mS/cm)	3.53	3.224	3.133	2.959	3.045	3.046	3.050	3.071		3.093	3.017	3.080	3.065	3.083	3.083	3.083	3.083
Oxidation Reduction Potential (ORP) mv	270.9	435.2	460.3	190.7	320.5	430.7	456.9	480.3		858.4	310.2	394.9	448.1				
DO (mg/l)	0.63	0.58	0.55	0.33	0.38	0.34	0.33	0.32		0.19	0.27	0.24	0.24	0.22	0.22	0.22	0.22
Water Level (TIC)	12.45	12.61	12.84	12.72	12.78	12.78	12.78	12.79		12.77	12.77	12.78	12.79	12.78	12.78	12.78	12.78

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge - Light brown, low turbidity, odorless
 0.1502 remove flow through cell & check DO/ORP probe, seems fine - no bubbles/scratches
 clean & replace cell. Numbers very high still. Will replace reference KCl & membrane & recalibrate tomorrow.

SAMPLE DESTINATION

Laboratory:

Galsion

Via:

FedEx

Airbill #:

8098/16724580

Delivered BY:

LMS/SPR

Field Sampling Coordinator:

Leanne Sanders

ORP reading seem v. high. Same w/ MW-9.

* ORP readings are no good. ORP probe apparently not working correctly

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-11
 Key No. 2537
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel LMS/SP12
 Date 7/14/99 Time In 1420 Out
 Weather Sun 85°F

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>X</u>
Well Diameter	<u>2 in</u>
Well Depth	<u>26.04</u>
Intake Depth of pump/tubing	<u>23'</u>
Water Table Depth	<u>16.12</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>9.92</u>
Volume of Water in Well	<u>1.62g</u>
Pumping Rate of Pump	<u>-</u>
Minutes of Pumping	<u>45</u>

Started pumping @ 1436
 Stopped pumping @ 1534
 Sampled @ 1524
 Sample ID MW-11
 Sampled for:

- (☒) PCBs (Total) / 4 degrees
- (☐) PCBs (Dissolved) / 4 degrees
- (☒) TCL VOCs / HCL and 4 degrees
- (☒) TCL SVOCs / 4 degrees
- (☒) TAL Metals (Total) / HNO3 and 4 degrees
- (☐) TAL Metals (Dissolved) / HNO3 and 4 degrees
- (☒) Sulfate / 4 degrees
- (☒) Sulfide / NaOH / ZnAc and 4 degrees
- (☒) Nitrate/Nitrite H2SO4 and 4 degrees
- (☒) Cyanide / NaOH and 4 degrees

Parameters measured w/YSI flowthrough cell, 6820 Sand + 610-Duramon

EVACUATION INFORMATION

Volume of water removed from well 5.5g
 Did well go dry? Y (N)

Evacuation Method: Bailer (Pump)
 Evacuation Rate: 460 ml/min

Ground for w/dedicated disposable LDPE tubing

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	7600	504	180	32	28	16	10	8	7	6					8
Temperature (Celsius)	15.32	18.22	17.19	17.45	17.40	17.47	17.51	17.45	17.39	17.49					17.57
pH	6.76	6.77	6.76	6.79	6.79	6.81	6.79	6.79	6.79	6.78					6.78
Conductance (mS/cm)	1.841	1.846	1.895	1.909	1.911	1.913	1.908	1.902	1.900	1.897					1.901
Oxidation Reduction Potential (ORP) mV	-110.4	-130.8	-129.3	-136.7	-142.3	-122.3	-127.3	-140.3	-140.9	-143.5					-144.2
DO (mg/l)	1.10	0.46	0.21	0.16	0.19	-0.13	0.15	0.15	0.16	0.18					0.18
Water Level (TIC)	15.71	17.00	17.35	17.38	17.28	17.38	17.38	17.40	17.39	17.40					17.39

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge Rust-brown, odorless.
 1450 cleared lines + YSI of turbid water (still pumping).
 Sampled clear, colorless, odorless

SAMPLE DESTINATION

Laboratory: Galsen
 Delivered BY: LMS/SP12
 Field Sampling Coordinator: Leanne Sanders

Via: Fed Ex

Airbill #: 811927447179

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-12
 Key No. 375.3
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel LMS/SPR
 Date 7/2/99 Time In 1250 Out 1420
 Weather Sun 87°F

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>Y</u>
Well Diameter	<u>2.1</u>
Well Depth	<u>27.0</u>
Intake Depth of pump/tubing	<u>24</u>
Water Table Depth	<u>14.40</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>12.60</u>
Volume of Water in Well	<u>2.05</u>
Pumping Rate of Pump	<u>—</u>
Minutes of Pumping	<u>30</u>

Started pumping @ 1311
 Stopped pumping @ 1354
 Sampled @ 1345
 Sample ID MW-12
 Sampled for:

- ☒ PCBs (Total) / 4 degrees
- ☐ PCBs (Dissolved) / 4 degrees
- ☒ TCL VOCs / HCL and 4 degrees
- ☒ TCL SVOCs / 4 degrees
- ☒ TAL Metals (Total) / HNO3 and 4 degrees
- ☐ TAL Metals (Dissolved) / HNO3 and 4 degrees
- ☒ Sulfate / 4 degrees
- ☒ Sulfide / NaOH / ZnAc and 4 degrees
- ☒ Nitrate/Nitrite H2SO4 and 4 degrees
- ☒ Cyanide / NaOH and 4 degrees

Parameters: YSI flow through cell, 6820 Sonde, 610-D Monitor
 + HACH Turbidimeter

EVACUATION INFORMATION

Volume of water removed from well 2.5
 Did well go dry? Y (N)

Evacuation Method: Bailer ☐ Pump ☒
 Evacuation Rate: 300ml/min

Ground for 1/4 in. disp. LDPE tubing

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	135	137	139	141	143	145	147	149	151	153	155	157	159	161	16
Temperature (Celsius)	16.45	17.21	16.58	16.43	17.21	17.43	17.59	17.75	17.91	18.07	18.23	18.39	18.55	18.71	17.75
pH	4.87	4.63	4.59	4.63	4.75	4.85	4.94	5.04	5.14	5.24	5.34	5.44	5.54	5.64	4.95
Conductance (mS/cm)	2.20	2.20	2.19	2.18	2.17	2.16	2.15	2.14	2.13	2.12	2.11	2.10	2.09	2.08	2.16
Oxidation Reduction Potential (ORP) mv	307.6	482.5	507.1	542.1	553.3	559.5	565.9	572.3	578.7	585.1	591.5	597.9	604.3	610.7	568.2
DO (mg/l)	2.85	0.49	0.37	0.33	0.30	0.30	0.28	0.27	0.26	0.25	0.24	0.23	0.22	0.21	0.21
Water Level (TIC)	14.84	14.83	14.87	14.85	14.80	14.77	14.78	14.79	14.80	14.81	14.82	14.83	14.84	14.85	14.76

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge - light gray, low turbidity, odorless.
Final sample - clear, no test, odorless.

SAMPLE DESTINATION

Laboratory: Galson
 Delivered BY: LMS/SPR
 Field Sampling Coordinator: Leanne Sanders

Via: Truck

Airbill #: 809810724580

* ORP readings no good. Probe is apparently not working.

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-14
 Key No. N/A
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel MS/SPR
 Date 7/20/99 Time In 1115 Out 1340
 Weather Sun 83°F

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>Y</u>
Well Diameter	<u>2"</u>
Well Depth	<u>22.08</u>
Intake Depth of pump/tubing	<u>~19'</u>
Water Table Depth	<u>11.41</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>10.67</u>
Volume of Water in Well	<u>1.74</u>
Pumping Rate of Pump	<u>1</u>
Minutes of Pumping	<u>56</u>

Started pumping @ 1149
 Stopped pumping @ 1323
 Sampled @ *1246
 Sample ID MW-14
 Sampled for:

- (☒) PCBs (Total) / 4 degrees
- (☐) PCBs (Dissolved) / 4 degrees
- (☒) TCL VOCs / HCL and 4 degrees
- (☒) TCL SVOCs / 4 degrees
- (☒) TAL Metals (Total) / HNO3 and 4 degrees
- (☐) TAL Metals (Dissolved) / HNO3 and 4 degrees
- (☐) Sulfate / 4 degrees
- (☐) Sulfide / NaOH / ZnAc and 4 degrees
- (☒) Nitrate/Nitrite H2SO4 and 4 degrees
- (☒) Cyanide / NaOH and 4 degrees

EVACUATION INFORMATION

Volume of water removed from well 4590
 Did well go dry? Y (N)

Evacuation Method: Bailer (☐) Pump (☒)
 Evacuation Rate: 300 ml/min

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	570	236	178	116	104	69	50	38	33	26	28	25				23
Temperature (Celsius)	16.50	18.57	15.76	18.81	18.79	18.70	18.21	17.78	17.71	17.57	17.67	17.81				17.65
pH	6.41	6.39	6.38	6.34	6.37	6.32	6.21	6.19	6.13	6.10	6.09	6.09				6.09
Conductance (mS/cm)	3.290	3.290	3.293	3.294	3.293	3.293	3.291	3.288	3.286	3.284	3.282	3.282				3.281
Oxidation Reduction Potential (ORP) mv	-34.7	-93.5	-98.0	-92.7	-94.0	-95.6	-95.9	-97.7	-91.5	-92.5	-93.0	-93.2				-93.3
OO (mg/l)	0.43	0.33	0.33	0.31	0.31	0.31	0.29	0.08	0.24	0.26	0.28	0.29				0.30
Water Level (TIC)	11.52	11.52	11.52	11.52	11.52	11.52	11.54	11.57	11.57	11.57	11.57	11.56				11.56

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge - Gray, turbid, odorless.
& sampled sample

SAMPLE DESTINATION

Laboratory: Galson
 Delivered BY: MS/SPR
 Field Sampling Coordinator: Leanne Sanders

Via: FedEx

Airbill #: 809810724590

GW-DUP-2 taken for VOCs, SVOCs, PCBs, Sulfate, Sulfide, Nitrate/Nitrite, ~~Cyanide~~

MS/MSD for VOCs, SVOCs + PCBs taken here.

*Lab time 1230

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-155
 Key No. 3753
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel MS/SPR
 Date 7/13/99 Time In 1235 Out 1410 (CD+R off-site)
 Weather Sun 85°

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>Y</u>
Well Diameter	<u>2"</u>
Well Depth	<u>13.52</u>
Intake Depth of pump/tubing	<u>~10.5</u>
Water Table Depth	<u>5.21</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>9.31</u>
Volume of Water in Well	<u>1.35</u>
Pumping Rate of Pump	<u>—</u>
Minutes of Pumping	<u>30</u>

Started pumping @ 1252
 Stopped pumping @ 1341
 Sampled @ 1335
 Sample ID MW-155
 Sampled for:

- ☒ PCBs (Total) / 4 degrees
- ☐ PCBs (Dissolved) / 4 degrees
- ☒ TCL VOCs / HCL and 4 degrees
- ☒ TCL SVOCs / 4 degrees
- ☒ TAL Metals (Total) / HNO3 and 4 degrees
- ☒ TAL Metals (Dissolved) / HNO3 and 4 degrees
- ☒ Sulfate / 4 degrees
- ☒ Sulfide / NaOH / ZnAc and 4 degrees
- ☒ Nitrate/Nitrite H2SO4 and 4 degrees
- ☒ Cyanide / NaOH and 4 degrees

Parameters taken w/ YSI flow through cell, 6820 Sonde + 610-D monitor,

EVACUATION INFORMATION

Volume of water removed from well 0.5 gals
 Did well go dry? Y N

Evacuation Method: Bailer () Pump (4 Grundfos w/ dedicated disposable LDPE tubing)
 Evacuation Rate: 300-600 ml/min
1255 1305 1310 1320 1323 1327 1331 1334 1340

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	22.4	15.22	13.1	14.8	12.1	21.8	22.4	12.1							8.4
Temperature (Celsius)	15.6	20.77	21.47	20.30	16.08	15.40	15.20	15.21							15.40
pH	6.70	6.67	6.67	6.68	6.67	6.64	6.64	6.64							6.64
Conductance (mS/cm)	1.051	1.053	1.056	1.052	1.029	1.025	1.020	1.021							1.022
Oxidation Reduction Potential (ORP) mV	-57.2	-65.6	-71.3	-76.6	-71.8	-63.2	-65.4	-66.6							-67.2
DO (mg/l)	0.42	0.00	0.47	0.32	0.23	0.20	0.15	0.17							0.15
Water Level (TIC)	5.23	5.23	5.23	5.25	5.27	5.27	5.27	5.27							5.27

Calibration Standard Readings

1327 1331 1334

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial pump - turbid gray/brown, odorless.
1320 increased 12H in a 4 hour period due to turbidity. Sampled
at 1320, 1330, 1335, 1340, 1345.

SAMPLE DESTINATION

Laboratory: Galsen
 Delivered BY: MS/SPR
 Field Sampling Coordinator: Leanne Sanders

Via: FedEx

Airbill #: 511921447168

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-16D
Key No. 2537
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
Sampling Personnel LMS/SPR
Date 7/12/99 Time In 1445 Out 1615
Weather Sun 85°

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>Y</u>
Well Diameter	<u>2"</u>
Well Depth	<u>20.00</u>
Intake Depth of pump/tubing	<u>20.00</u>
Water Table Depth	<u>9.50</u>

Started pumping @ 1508
Stopped pumping @ 1557
Sampled @ 1550
Sample ID MW-16D
Sampled for:

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>10.5</u>
Volume of Water in Well	<u>1.71g</u>
Pumping Rate of Pump	<u>40</u>
Minutes of Pumping	<u>40</u>

- ☒ PCBs (Total) / 4 degrees
- ☐ PCBs (Dissolved) / 4 degrees
- ☒ TCL VOCs / ~~TCL~~ and 4 degrees
- ☒ TCL SVOCs / 4 degrees
- ☒ TAL Metals (Total) / HNO3 and 4 degrees
- ☐ TAL Metals (Dissolved) / HNO3 and 4 degrees
- ☒ Sulfate / 4 degrees
- ☒ Sulfide / NaOH / ~~Zn~~ and 4 degrees
- ☒ Nitrate/Nitrite / ~~H2SO4~~ and 4 degrees
- ☒ Cyanide / NaOH and 4 degrees

Parameters taken w/ YSI flowthrough cell /
6820 Sonda + 610-D monitor

EVACUATION INFORMATION

Volume of water removed from well 4.5 gal
Did well go dry? Y N

Evacuation Method: Bailer ☐ Pump ☒
Evacuation Rate: 425 ml/min

Ground for w/ dedicated disp.
LDPE tubing

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	125.3	73.2	50.1	27.4	31.0	29.7	58.2	39.3	31.7						26.7
Temperature (Celsius)	16.46	17.14	17.28	16.99	16.91	16.87	16.86	16.90	16.53						16.92
pH	6.62	6.62	6.60	6.60	6.56	6.57	6.67	6.59	6.59						6.59
Conductance (mS/cm)	2.365	2.360	2.370	2.385	2.393	2.390	2.401	2.404	2.404						2.404
Oxidation Reduction Potential (ORP) mv	-78.9	-92.1	-96.3	-87.6	-75.9	-57.4	-75.9	-81.2	-85.3						-87.2
DO (mg/l)	1.43	0.71	0.39	0.63	0.66	0.53	0.69	0.63	0.59						0.58
Water Level (TIC)	9.58	9.57	9.60	9.61	9.63	9.61	9.61	9.61	9.61						9.61

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS initial purge: Turbid, brown / gray, odorless.
Final Purge - clear colorless odorless (slight odor near pump bucket)
Put on new well cap/pump + 2537 Reg

SAMPLE DESTINATION

Laboratory: Galson Via: FedEx Airbill #: 809510724660
Delivered BY: Leanne Sanders
Field Sampling Coordinator: Leanne Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-16R
 Key No. 25373753
 PID Background (ppm) 0.0
 Well Headspace (ppm) 1.5

Site Well Niagara Mohawk North Albany
 Sampling Personnel LMS/SPR
 Date 7/12/99 Time In 0845 Out 1155
 Weather Clouds 75°F

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>Y</u>
Well Diameter	<u>2 in</u>
Well Depth	<u>38.10</u>
Intake Depth of pump/tubing	<u>~35'</u>
Water Table Depth	<u>8.88</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>24.5</u>
Volume of Water in Well	<u>4.76</u>
Pumping Rate of Pump	<u>-</u>
Minutes of Pumping	<u>112</u>

Started pumping @ 0903
 Stopped pumping @ 1057
 Sampled @ 1110
 Sample ID MW-16R

- (☒) PCBs (Total) / 4 degrees
- (☐) PCBs (Dissolved) / 4 degrees
- (☒) TCL VOCs / HCL and 4 degrees
- (☒) TCL SVOCs / 4 degrees
- (☒) TAL Metals (Total) / HNO3 and 4 degrees
- (☒) TAL Metals (Dissolved) / HNO3 and 4 degrees
- (☒) Sulfate / 4 degrees
- (☒) Sulfide / NaOH / ZnAc and 4 degrees
- (☒) Nitrate/Nitrite H2SO4 and 4 degrees
- (☒) Cyanide / NaOH and 4 degrees

→ Field Filled

EVACUATION INFORMATION

Volume of water removed from well 14 gal
 Did well go dry? (☒ Y) N

Evacuation Method: Bailer () Pump 14 Ground loss w/ dedicated
 Evacuation Rate: 473.00/min disposable LDPE

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	450.0	753.2	1437.1	1554.2	1123.7	1045.7	465.2	796.8	247.5	510.5	637.1	226.5	193.9		
Temperature (Celsius)	14.68	14.85	15.71	16.96	18.25	17.95	17.87	17.96	17.88	18.00	18.59	17.59	16.82		
pH	8.06	8.34	8.35	8.37	8.35	8.37	8.41	8.42	8.42	8.43	8.42	8.48	8.47		
Conductance (mS/cm)	1.383	1.624	1.624	1.623	1.582	1.540	1.285	1.339	1.325	1.458	0.008	1.274	1.502		
Oxidation Reduction Potential (ORP) mv	34.0	18.4	-27.7	-64.1	-114.2	-125.8	-123.4	-117.7	-112.1	-114.5	-110.7	-119.7	-119.3		
DO (mg/l)	3.57	1.53	1.20	1.17	0.70	0.54	0.92	0.76	0.60	0.67	0.88	0.65	0.68		
Water Level (TIC)	9.31	10.26	11.45	11.97	12.86	13.75	17.80	18.01	18.40	20.05	20.00	24.11	31.20		

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial pump - cloudy, light gray,
high turbidity, odorless. Having to adjust rate every few minutes.
Well dry @ 1057. Will let recover + sample. Sample gray, turbid, slight odor

SAMPLE DESTINATION

Laboratory: Galson
 Delivered BY: LMS/SPR
 Field Sampling Coordinator: Leanne Sanders

Via: FAX

Airbill #: 81192744 7168

* @ 1030 Converter maxed had to stop and restart

** @ 1040 Purgel Pump & tubing of Bubbles

Parameters measured w/YSI flow through cell, 6820 sonde + 610-D monitor

Rate increased as bubbles + silt were driven from pump + tubing.

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-17D
 Key No. _____
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel LWS SPC
 Date 7/16 Time In 1340 Out _____
 Weather SUN 90°F Humid

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>Y</u>
Well Diameter	<u>2.0</u>
Well Depth	<u>25.0</u>
Intake Depth of pump/tubing	<u>22.5</u>
Water Table Depth	<u>11.72</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>13.89</u>
Volume of Water in Well	<u>2.26</u>
Pumping Rate of Pump	<u>—</u>
Minutes of Pumping	<u>62</u>

Started pumping @ 1344
 Stopped pumping @ 1615
 Sampled @ 1452
 Sample ID MW-17D
 Sampled for:

- (☒) PCBs (Total) / 4 degrees
- (☐) PCBs (Dissolved) / 4 degrees
- (☐) TCL VOGs / HCL and 4 degrees
- (☒) TCL SVOCs / 4 degrees
- (☒) TAL Metals (Total) / HNO3 and 4 degrees
- (☐) TAL Metals (Dissolved) / HNO3 and 4 degrees
- (☒) Sulfate / 4 degrees
- (☒) Sulfide / NaOH / ZnAc and 4 degrees
- (☒) Nitrate/Nitrite H2SO4 and 4 degrees
- (☒) Cyanide / NaOH and 4 degrees

EVACUATION INFORMATION

Volume of water removed from well 29921
 Did well go dry? Y (N)

Evacuation Method: Bailer Pump (U)
 Evacuation Rate: 29.8 gal/min

Grndfos w/dedicated disposable LDPE tubing

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	278	2000	3.74	157	126	71	122	55	52	38	133	31			28
Temperature (Celsius)	16.10	16.97	14.70	15.95	14.71	15.47	14.70	15.31	15.33	15.30	15.25	15.20			15.12
pH	6.77	6.74	6.67	6.71	6.69	6.70	6.60	6.67	6.70	6.70	6.71	6.71			6.70
Conductance (mS/cm)	3.260	3.262	3.241	3.191	3.120	3.120	3.064	3.042	3.029	3.024	3.025	3.016			3.032
Oxidation Reduction Potential (ORP) mv	6.7	57.3	-48.7	-73.6	-72.0	-83.8	-77.5	-83.2	-93.0	-45.4	-47.3	-48.8			-100.2
DO (mg/l)	0.62	0.37	0.25	0.23	0.21	0.22	0.18	0.20	0.22	0.22	0.22	0.22			0.22
Water Level (TIC)	11.82	11.90	12.02	11.96	12.00	12.01	11.95	11.93	11.95	11.94	11.93	11.94			11.74

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge - moderately turbid, gray, & dark silty. Slight odor after purging for 20 min. Need to maintain high rate to prevent silt build-up. Problems adjusting H2S converter due to silt build-up.

SAMPLE DESTINATION

Laboratory: Galson
 Delivered BY: LWS
 Field Sampling Coordinator: Leanne Sanders

Via: FedEx

Airbill #: 811927447190

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-17S
 Key No. 5753
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.5

Site Well Niagara Mohawk North Albany
 Sampling Personnel LMS/SPR
 Date 7/13/94 Time In 1450 Out 1615
 Weather sun 85°

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>Y</u>
Well Diameter	<u>2"</u>
Well Depth	<u>16.78</u>
Intake Depth of pump/tubing	<u>10.50</u>
Water Table Depth	<u>11.32</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>5.46</u>
Volume of Water in Well	<u>0.89</u>
Pumping Rate of Pump	<u>-</u>
Minutes of Pumping	<u>40</u>

Started pumping @ 1503
 Stopped pumping @ 1558
 Sampled @ 1550
 Sample ID MW-17S
 Sampled for:

- (☒) PCBs (Total) / 4 degrees
- (☐) PCBs (Dissolved) / 4 degrees
- (☒) TCL VOCs / HCL and 4 degrees
- (☒) TCL SVOCs / 4 degrees
- (☒) TAL Metals (Total) / HNO3 and 4 degrees
- (☐) TAL Metals (Dissolved) / HNO3 and 4 degrees
- (☒) Sulfate / 4 degrees
- (☒) Sulfide / NaOH / ZnAc and 4 degrees
- (☒) Nitrate/Nitrite H2SO4 and 4 degrees
- (☒) Cyanide / NaOH and 4 degrees

EVACUATION INFORMATION

Volume of water removed from well 29 gal
 Did well go dry? Y (☒) N

Evacuation Method: Bailer (☐) Pump (☒) 14 Grundfos pump w/dedicated disposable LDPE tubing
 Evacuation Rate: 600 ml/min

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	<u>345.2</u>	<u>14.08</u>	<u>15.22</u>	<u>15.64</u>	<u>15.99</u>	<u>16.93</u>	<u>16.84</u>	<u>15.54</u>	<u>16.35</u>	<u>16.65</u>	<u>16.80</u>	<u>16.50</u>			<u>25</u>
Temperature (Celsius)		<u>6.53</u>	<u>6.46</u>	<u>6.72</u>	<u>6.52</u>	<u>6.51</u>	<u>6.55</u>	<u>6.54</u>	<u>6.55</u>	<u>6.56</u>	<u>6.55</u>	<u>6.57</u>			<u>6.56</u>
pH		<u>1.802</u>	<u>2.205</u>	<u>2.203</u>	<u>2.183</u>	<u>2.167</u>	<u>2.140</u>	<u>2.443</u>	<u>2.326</u>	<u>2.309</u>	<u>2.312</u>	<u>2.307</u>			<u>2.304</u>
Conductance (mS/cm)		<u>-21.3</u>	<u>-92.7</u>	<u>-69.2</u>	<u>-100.6</u>	<u>-106.2</u>	<u>-112.6</u>	<u>-115.9</u>	<u>-118.7</u>	<u>-119.8</u>	<u>-121.2</u>	<u>-120.7</u>			<u>-120.5</u>
Oxidation Reduction Potential (ORP) mv		<u>2.93</u>	<u>1.31</u>	<u>0.25</u>	<u>0.30</u>	<u>0.32</u>	<u>0.23</u>	<u>0.21</u>	<u>0.23</u>	<u>0.21</u>	<u>0.23</u>	<u>0.23</u>			<u>0.22</u>
DO (mg/l)		<u>11.50</u>	<u>11.41</u>	<u>11.43</u>	<u>11.42</u>	<u>11.41</u>	<u>11.39</u>	<u>11.40</u>	<u>11.41</u>	<u>11.39</u>	<u>11.39</u>	<u>11.40</u>			<u>11.40</u>
Water Level (TIC)															

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge turbid, brown, odor.
Hard time stabilizing flow rate throughout purging (tiny bubbles building in tubing. Final sample - clear, colorless, odorless)

SAMPLE DESTINATION

Laboratory: Galsion
 Delivered BY: LMS
 Field Sampling Coordinator: Leanne Sanders

Via: FedEx Airbill #: 811927447168

* Problems w/ turbidimeter reading negative numbers.
 used HACH turbidimeter to obtain readings

67.81
 4.33
 2.86

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-18S
 Key No. 3753
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel LMS/SPK
 Date 7/14/99 Time In 1050 Out 1340
 Weather Sun 80°F

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>Y</u>
Well Diameter	<u>2"</u>
Well Depth	<u>16.90</u>
Intake Depth of pump/tubing	<u>214</u>
Water Table Depth	<u>11.20</u>

Started pumping @ 1107
 Stopped pumping @ 1325
 Sampled @ 1251
 Sample ID MW-18S
 Sampled for:

- (☒) PCBs (Total) / 4 degrees
- (☐) PCBs (Dissolved) / 4 degrees
- (☒) TCL VOCs / HCL and 4 degrees
- (☒) TCL SVOCs / 4 degrees
- (☒) TAL Metals (Total) / HNO3 and 4 degrees
- (☐) TAL Metals (Dissolved) / HNO3 and 4 degrees
- (☒) Sulfate / 4 degrees
- (☒) Sulfide / NaOH / ZnAc and 4 degrees
- (☒) Nitrate/Nitrite H2SO4 and 4 degrees
- (☒) Cyanide / NaOH and 4 degrees

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>5.70</u>
Volume of Water in Well	<u>0.93</u>
Pumping Rate of Pump	<u>-</u>
Minutes of Pumping	<u>100</u>

Parameters measured w/YSI flowthrough cell, 6820 Sonde, 610-P Monitor, + HACH Turbidimeter

EVACUATION INFORMATION

Volume of water removed from well 1292
 Did well go dry? Y (N)

Evacuation Method: Bailer (☐) Pump (☒) Groundfns w/dedicated disposal tubing
 Evacuation Rate: 454 AVG.

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	>1000	>1000	>1000	462	293	249	653	>1000	536	217	298	133	86	50		
Temperature (Celsius)	15.22	16.25	16.57	19.85	16.86	16.79	15.80	15.72	16.33	16.87	15.00	15.01	14.92	15.01		
pH	6.41	6.57	6.43	6.43	6.47	6.48	6.46	6.52	6.56	6.53	6.55	6.53	6.53	6.53		
Conductance (mS/cm)	1.226	1.451	1.373	1.580	1.725	1.854	1.794	1.955	1.942	1.951	2.018	2.007	2.015	2.018		
Oxidation Reduction Potential (ORP) mV	15.0	-24.5	-31.8	-22.8	-31.9	-43.6	-40.1	-15.9	-33.2	-35.4	-48.2	-50.6	-52.1	-53.6		
DO (mg/l)	0.14	0.23	0.58	0.31	0.27	0.29	0.23	0.26	0.28	0.37	0.10	0.19	0.19	0.20		
Water Level (TIC)	11.42	11.24	11.30	11.25	11.40	11.27	11.35	11.34	11.30	11.31	11.32	11.31	11.31	11.31		

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge Dark rust-colored water, high turbidity, no odor. 1145 shut off pump due to silt build up and turn back on @ 1216 removed pump, pumped dist. H2O through pump & put back down well. Back on @ 1214. Having to adjust H3 constantly (almost). Gasoline odor.

SAMPLE DESTINATION

Laboratory: Galson
 Delivered BY: LMS/SPK
 Field Sampling Coordinator: Leanne Sanders

Via: FedEx

Airbill #: 811927447179

	1251	Final
Turbidity	44	27
Temp	15.30	15.20
pH	6.53	6.56
Cond.	2.020	2.025
ORP	-55.5	-58.2
DO	0.22	0.26

GW-DUP-1 taken here for PCBs, VOCs, SVOCs, metals, CN⁻, Sulfide, Sulfate & Nitrite/Nit
 28 bottles total. Had to adjust flow throughout sampling.

MS for VOCs, SVOCs, PCBs, metals & CN⁻
 MSD for VOCs, SVOCs, PCBs
 Sampled clear, colorless, gasoline odor.

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-19D
 Key No. 3753
 PID Background (ppm) 0.0
 Well Headspace (ppm) 250

Site Well Niagara Mohawk North Albany
 Sampling Personnel CMS SPR
 Date 2/12/99 Time In 1245 Out 1430
 Weather Sun 81°

WELL INFORMATION

	TIC
Reference Point Marked on Casing	
Well Diameter	2"
Well Depth	24.44
Intake Depth of pump/tubing	22
Water Table Depth	9.13

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	15.61
Volume of Water in Well	2.54
Pumping Rate of Pump	
Minutes of Pumping	40

Started pumping @ 1310
 Stopped pumping @ 1400
 Sampled @ 1353
 Sample ID MW-19D
 Sampled for:

- (☒) PCBs (Total) / 4 degrees
- (☐) PCBs (Dissolved) / 4 degrees
- (☒) TCL VOCs / ~~100~~ and 4 degrees
- (☒) TCL SVOCs / 4 degrees
- (☒) TAL Metals (Total) / HNO3 and 4 degrees
- (☐) TAL Metals (Dissolved) / HNO3 and 4 degrees
- (☒) Sulfate / 4 degrees
- (☒) Sulfide / NaOH / ~~Zinc~~ and 4 degrees
- (☒) Nitrate/Nitrite / ~~100~~ and 4 degrees
- (☒) Cyanide / NaOH and 4 degrees

EVACUATION INFORMATION

Parameters: YS1 Flowthru cell, 6820 sande, 610-D monitor.

Volume of water removed from well 3.75 gal
 Did well go dry? Y (☒) N

Evacuation Method: Bailer (☐) Pump (☒)
 Evacuation Rate: 300-450 ml/min

Groundless w/ deaerated disposable LDPE tube

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	220.5	42.1	19.9	14.2	15.5	14.6	11.2	7.4	5.1						7.2
Temperature (Celsius)	15.99	16.82	17.32	18.04	18.07	16.28	16.00	16.08	16.07						16.07
pH	6.17	6.15	6.13	6.18	6.17	6.19	6.17	6.18	6.18						6.18
Conductance (mS/cm)	1.688	1.704	1.698	1.709	1.705	1.695	1.694	1.695	1.697						1.695
Oxidation Reduction Potential (ORP) mv	94.8	50.9	47.2	29.6	35.7	18.5	19.7	17.9	19.7						18.3
DO (mg/l)	1.33	1.17	1.44	1.74	1.30	0.54	0.47	0.45	0.46						0.50
Water Level (TIC)	8.21	8.19	8.21	8.21	8.21	8.21	8.40	8.40	8.40						8.40

8.46 ~~8.40~~

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge - moderately turbid, light brown, odorless. Final purge - Clear odorless, odorless.
Changed rate @ 1335 from 300 to 450 ml/min

SAMPLE DESTINATION

Laboratory: Galson
 Delivered BY: Leanne Sanders
 Field Sampling Coordinator: Leanne Sanders

Via: FedEx Airbill #: 809510724660

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-201
 Key No. 7. cant lock.
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel LMS/SPR
 Date 7/27/99 Time In 1210 Out 1346
 Weather Sun 87°F

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>0</u>
Well Diameter	
Well Depth	<u>21.47</u>
Intake Depth of pump/tubing	<u>18.5</u>
Water Table Depth	<u>7.28</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>14.19</u>
Volume of Water in Well	<u>2.39</u>
Pumping Rate of Pump	
Minutes of Pumping	<u>49</u>

Started pumping @ 1225
 Stopped pumping @ 1324
 Sampled @ 1315
 Sample ID MW-201
 Sampled for:

- () PCBs (Total) / 4 degrees
- () PCBs (Dissolved) / 4 degrees
- () TCL VOCs / HCL and 4 degrees
- () TCL SVOCs / 4 degrees
- () TAL Metals (Total) / HNO3 and 4 degrees
- () TAL Metals (Dissolved) / HNO3 and 4 degrees
- () Sulfate / 4 degrees
- () Sulfide / NaOH / ZnAc and 4 degrees
- () Nitrate/Nitrite H2SO4 and 4 degrees
- () Cyanide / NaOH and 4 degrees

Sampled: clear, colorless, odorless

Parameters: YSI flow through cell, 6820 Sonde + 610-D Monitor + HACH turbidimeter

EVACUATION INFORMATION

Volume of water removed from well 4921
 Did well go dry? Y () N ()

Evacuation Method: Bailer Pump () Groundf. w/ ded disp. LDPE tubing
 Evacuation Rate: 300ml/min

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	195	29	12	11	5	4	5	5	4	5	5	5	5	5	4
Temperature (Celsius)	15.27	15.20	14.99	15.28	15.27	15.13	15.15	15.09	15.19	15.23	15.18				15.26
pH	6.00	5.50	5.40	5.41	5.39	5.38	5.37	5.40	5.39	5.38	5.40				5.41
Conductance (mS/cm)	4.022	3.995	4.070	4.095	4.119	4.259	4.149	4.158	4.160	4.160	4.160				4.160
Oxidation Reduction Potential (ORP) mv	265	275	251	261	263	265	260	259	253	255	252	258	254	259	263
DO (mg/l)	0.96	0.48	0.40	0.36	0.33	0.33	0.34	0.29	0.28	0.26	0.26				0.26
Water Level (TIC)	7.38	7.40	7.39	7.42	7.40	7.42	7.43	7.42	7.43	7.43	7.43				7.43

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

*Initial purge - light brown/gray, odorless. YSI ORP readings strangely high. LMS recalibrates & lets it sit to see if numbers rise again. * Calibrated @ 235mv. After 5-8 min ORP is 292mv + rising. LMS phones CCLynch again.*

SAMPLE DESTINATION

Laboratory: Galsion
 Delivered BY: LMS/SPR
 Field Sampling Coordinator: Learne Sanders

Via: EdEx

Airbill #: 809810724605

* Prior to cal., ORP = 415mV w/300ml.

1430 LMS talks w/ Richie (Tech) from CCLynch + Bill from YSI RE: ORP meter. After checking offsets + gain in software memory Bill guesses there is a problem w/ plate or glass in probe which is causing drift. ORP readings are not good for this well + a few others from 7/22 + 7/21

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-21D
 Key No. _____
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel LMS/SPK
 Date 7/19/99 Time In 1532 Out 1645
 Weather Clouds 78°F

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>✓</u>
Well Diameter	<u>2 in</u>
Well Depth	<u>33.95</u>
Intake Depth of pump/tubing	<u>~38.0</u>
Water Table Depth	<u>14.88</u>

Started pumping @ 1542
 Stopped pumping @ 1615
 Sampled @ 1605
 Sample ID MW-21D
 Sampled for:

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>19.07</u>
Volume of Water in Well	<u>3.192</u>
Pumping Rate of Pump	<u>1</u>
Minutes of Pumping	<u>22</u>

- ☒ PCBs (Total) / 4 degrees
- ☐ PCBs (Dissolved) / 4 degrees
- ☒ TCL VOCs / HCL and 4 degrees
- ☒ TCL SVOCs / 4 degrees
- ☒ TAL Metals (Total) / HNO3 and 4 degrees
- ☐ TAL Metals (Dissolved) / HNO3 and 4 degrees
- ☒ Sulfate / 4 degrees
- ☒ Sulfide / NaOH / ZnAc and 4 degrees
- ☒ Nitrate/Nitrite H2SO4 and 4 degrees
- ☒ Cyanide / NaOH and 4 degrees

Parameters: YSI flow through cell, 6820SO
 610-D Monitor + HACH Turbidimeter

EVACUATION INFORMATION

Volume of water removed from well ~392
 Did well go dry? Y (N)

Evacuation Method: Bailer () Pump (✓)
 Evacuation Rate: ~500 ml/min

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	22.9	16.9	3.4	1.8	1.3	1.1	1.0								9
Temperature (Celsius)	14.32	13.25	13.83	13.96	13.83	13.70	13.70								13.73
pH	6.42	6.31	6.32	6.33	6.33	6.33	6.33								6.33
Conductance (mS/cm)	2.799	2.864	2.890	2.896	2.898	2.896	2.897								2.898
Oxidation Reduction Potential (ORP) mv	125.0	-15.4	-47.0	-57.2	-65.4	-71.5	-75.1								-75.3
DO (mg/l)	2.63	0.42	0.36	0.37	0.33	0.32	0.31								0.30
Water Level (TIC)	14.92	14.92	14.92	14.93	14.92	14.92	14.92								14.92

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge - low turbidity - gray - odorless
Sampled clear, colorless, odorless

SAMPLE DESTINATION

Laboratory: Galson
 Delivered BY: LMS/SPK
 Field Sampling Coordinator: Leanne Sanders

Via: Field Ex

Airbill #: 8098 10724627

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-2/R
 Key No. 3976
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel LMS/SPR
 Date 7/21/99 Time In 0830 Out 1050
 Weather SUN 80°F

WELL INFORMATION

	TIC
Reference Point Marked on Casing	X
Well Diameter	8" A
Well Depth	52.35
Intake Depth of pump/tubing	~47
Water Table Depth	13.64

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	30.7
Volume of Water in Well	5.98 gal
Pumping Rate of Pump	
Minutes of Pumping	96

Started pumping @ 0844
 Stopped pumping @ 1022
 Sampled @ DTW 14.90
 Sample ID MW-2/R
 Sampled for:

- (Y) PCBs (Total) / 4 degrees
- () PCBs (Dissolved) / 4 degrees
- (Y) TCL VOCs / HCL and 4 degrees
- (Y) TCL SVOCs / 4 degrees
- (Y) TAL Metals (Total) / HNO3 and 4 degrees
- (Y) TAL Metals (Dissolved) / HNO3 and 4 degrees - plus DUP-2 + MS
- (Y) Sulfate / 4 degrees
- (Y) Sulfide / NaOH / ZnAc and 4 degrees
- (Y) Nitrate/Nitrite H2SO4 and 4 degrees
- (Y) Cyanide / NaOH and 4 degrees DUP-2 + MS

0845 7/21/99
 sampled 7/21/99
 0845

Parameters: YSI flow through cell, 6820 Sande & 610-D
 Monitor & HACH turbidimeter

EVACUATION INFORMATION

Volume of water removed from well 8921
 Did well go dry? (Y) N

Evacuation Method: Bailer () Pump
 Evacuation Rate: 300-350 ml/min

Groundfns w/ ded. disp.
LDPE tubing

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)
Turbidity (NTU)	13.7	6.0	8.2	15.3	22.6	36.9	46.0	44.2	71.000	71.000	71.000	71.000	71.000	71.000	71.000	71.000
Temperature (Celsius)	12.33	14.10	14.92	14.77	14.96	15.23	15.74	15.64	15.44	15.96	15.85	16.20	16.24	16.35	16.2	16.2
pH	8.10	8.22	8.18	8.24	8.18	8.26	8.30	8.25	8.18	8.19	8.20	8.21	8.24	8.28	8.26	8.26
Conductance (mS/cm)	0.902	0.902	0.898	0.898	0.897	0.900	0.898	0.891	0.899	0.890	0.886	0.889	0.883	0.889	0.88	0.88
Oxidation Reduction Potential (ORP) mv	31.2	-8.1	-50.6	-76.2	-68.4	-99.1	-116.3	-135.4	-124.6	-138.8	-142.5	-148.6	-146.1	-156.3	-162	-162
DO (mg/l)	1.34	0.22	0.07	0.22	0.72	0.13	0.22	0.20	0.23	0.18	0.16	0.17	0.13	0.15	0.14	0.14
Water Level (TIC)	14.52	21.80	23.87	25.01	27.59	28.45	29.36	30.59	31.87	32.44	33.80	34.90	37.45	36.87	37.9	37.9

35.45

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge - Light grey, low turb, odorless.
Having to adjust rate constantly due to head loss. Dry @ 1022.
Will let recover + sample tomorrow (need extra metals bottles for dissolved metals dupes MS)

SAMPLE DESTINATION

Laboratory: Galson
 Delivered BY: LMS/SPR
 Field Sampling Coordinator: Leanne Sanders

Via: FEDEX

Airbill #: 8098 10724590

Turb	1012	1017	1022	1027
Temp	16.29	16.95	16.94	
pH	8.26	8.24	8.32	
Cond	0.889	0.896	0.894	
ORP	-169.2	-174.2	-183.6	
DO	0.14	0.13	0.12	
WL	39.20	39.77	40.34	

GROUNDWATER SAMPLING FIELD LOG

Well No. mw-215
 Key No. 3476
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel LMS / SP2
 Date 7/19/99 Time In 1415 Out 1532
 Weather Rain ~78°

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>9</u>
Well Diameter	<u>24</u>
Well Depth	<u>17.17</u>
Intake Depth of pump/tubing	<u>16.5</u>
Water Table Depth	<u>13.52</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>3.65</u>
Volume of Water in Well	<u>0.59</u>
Pumping Rate of Pump	<u>-</u>
Minutes of Pumping	<u>30</u>

Started pumping @ 1424
 Stopped pumping @ 1522
 Sampled @ 1510
 Sample ID mw-215
 Sampled for:

- (☒) PCBs (Total) / 4 degrees
- (☐) PCBs (Dissolved) / 4 degrees
- (☒) TCL VOCs / HCL and 4 degrees
- (☒) TCL SVOCs / 4 degrees
- (☒) TAL Metals (Total) / HNO3 and 4 degrees
- (☐) TAL Metals (Dissolved) / HNO3 and 4 degrees
- (☒) Sulfate / 4 degrees
- (☒) Sulfide / NaOH / ZnAc and 4 degrees
- (☐) Nitrate/Nitrite H2SO4 and 4 degrees
- (☒) Cyanide / NaOH and 4 degrees

Parameters: YS1 flow through cell, 6820 Sand + 610-D Monitor + HACH Turbidimeter

EVACUATION INFORMATION

Volume of water removed from well 2492
 Did well go dry? Y N

Evacuation Method: Bailer (☐) Pump (☒)

Evacuation Rate: 350-400 ml

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	<u>2100</u>	<u>29</u>	<u>23</u>	<u>30</u>	<u>13</u>	<u>9</u>	<u>7</u>	<u>5</u>	<u>7</u>	<u>9</u>					<u>8</u>
Temperature (Celsius)	<u>14.06</u>	<u>14.69</u>	<u>15.75</u>	<u>13.52</u>	<u>14.83</u>	<u>14.79</u>	<u>15.04</u>	<u>15.46</u>	<u>15.78</u>	<u>16.09</u>					<u>15.42</u>
pH	<u>5.69</u>	<u>5.80</u>	<u>5.87</u>	<u>5.81</u>	<u>5.86</u>	<u>5.88</u>	<u>5.90</u>	<u>5.93</u>	<u>5.95</u>	<u>5.97</u>					<u>5.98</u>
Conductance (mS/cm)	<u>1.188</u>	<u>1.223</u>	<u>1.238</u>	<u>1.169</u>	<u>1.281</u>	<u>1.293</u>	<u>1.311</u>	<u>1.325</u>	<u>1.343</u>	<u>1.349</u>					<u>1.351</u>
Oxidation Reduction Potential (ORP) mv	<u>104.2</u>	<u>125.9</u>	<u>154.0</u>	<u>180.3</u>	<u>183.5</u>	<u>197.6</u>	<u>192.3</u>	<u>202.0</u>	<u>205.3</u>	<u>200.1</u>					<u>195.6</u>
DO (mg/l)	<u>0.52</u>	<u>0.37</u>	<u>0.40</u>	<u>0.39</u>	<u>0.41</u>	<u>0.38</u>	<u>0.38</u>	<u>0.38</u>	<u>0.39</u>	<u>0.41</u>					<u>0.42</u>
Water Level (TIC)	<u>14.00</u>	<u>13.98</u>	<u>13.88</u>	<u>14.05</u>	<u>14.00</u>	<u>13.95</u>	<u>13.95</u>	<u>13.92</u>	<u>13.89</u>	<u>13.87</u>					<u>13.87</u>

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge - DK rust colored water, odorless
Temp inc. due to low flow rate. Sample clear, colorless, odorless.

SAMPLE DESTINATION

Laboratory: Galsen
 Delivered BY: LMS/SP2
 Field Sampling Coordinator: Leanne Sanders

Via: FedEx

Airbill #: 809810724627

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-22D
 Key No. —
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel LMS/SPR
 Date 7/19/99 Time In 1215 Out —
 Weather Overcast 85°F

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>Y</u>
Well Diameter	<u>2"</u>
Well Depth	<u>33.71</u>
Intake Depth of pump/tubing	<u>~30</u>
Water Table Depth	<u>13.51</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>20.2</u>
Volume of Water in Well	<u>3.3921</u>
Pumping Rate of Pump	<u>—</u>
Minutes of Pumping	<u>59</u>

Started pumping @ 1226
 Stopped pumping @ 1337
 Sampled @ 1326
 Sample ID MW-22D
 Sampled for:

- ☒ PCBs (Total) / 4 degrees
- ☐ PCBs (Dissolved) / 4 degrees
- ☒ TCL VOCs / HCL and 4 degrees
- ☒ TCL SVOCs / 4 degrees
- ☒ TAL Metals (Total) / HNO3 and 4 degrees
- ☐ TAL Metals (Dissolved) / HNO3 and 4 degrees
- ☒ Sulfate / 4 degrees
- ☒ Sulfide / NaOH / ZnAc and 4 degrees
- ☒ Nitrate/Nitrite H2SO4 and 4 degrees
- ☒ Cyanide / NaOH and 4 degrees

Parameters: YSI flow-through cell, 6820
 Sonde + 610-D Monitor
 HACH Turbidity

EVACUATION INFORMATION

Volume of water removed from well 7.5
 Did well go dry? Y N

Evacuation Method: Bailer ☐ Pump ☒
 Evacuation Rate: 500 to 300 ml/min

Grounds w/ded. disp. LDPE tubing

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	163	241	23	24	10	7	5	6	6	6					5
Temperature (Celsius)	13.82	16.31	14.29	13.40	13.48	13.54	14.46	14.69	14.86	14.95					15.22
pH	5.79	5.98	5.89	5.91	5.76	5.71	5.76	5.78	5.79	5.86					5.87
Conductance (mS/cm)	1.375	1.378	1.374	1.376	1.377	1.376	1.382	1.378	1.377	1.376					1.375
Oxidation Reduction Potential (ORP) mv	115.9	69.0	66.4	33.2	52.7	60.3	56.9	52.1	49.3	42.6					38.8
DO (mg/l)	1.37	0.70	0.43	0.02	0.28	0.31	0.34	0.34	0.35	0.37					0.39
Water Level (TIC)	14.57	14.57	14.58	14.59	14.59	14.59	14.59	14.58	14.59	14.59					14.59

Calibration Standard Readings

↑ reduced rate to ~300 ml

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge - clear, colorless, odorless (slight gray after purging ~10 min)
Sampled clear, colorless, odorless.

SAMPLE DESTINATION

Laboratory: Galson
 Delivered BY: LMS/SPR
 Field Sampling Coordinator: Leanne Sanders

Via FedEx

Airbill #: 809810724627

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-22R
Key No. 3223
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
Sampling Personnel LMS SPK
Date 7/19/99 Time In 0920 Out 1216
Weather overcast 85°F - RAIN

WELL INFORMATION

	TIC
Reference Point Marked on Casing	7
Well Diameter	2 in
Well Depth	48.52
Intake Depth of pump/tubing	24.5
Water Table Depth	13.34

Started pumping @ 1001
Stopped pumping @ 1147
Sampled @ 1128
Sample ID MW-22R
Sampled for:

Sampled for:

- (✓) PCBs (Total) / 4 degrees
- (✓) PCBs (Dissolved) / 4 degrees
- (✓) TCL VOCs / HCL and 4 degrees
- (✓) TCL SVOCs / 4 degrees
- (✓) TAL Metals (Total) / HNO3 and 4 degrees
- (✓) TAL Metals (Dissolved) / HNO3 and 4 degrees
- (✓) Sulfate / 4 degrees
- (✓) Sulfide / NaOH / ZnAc and 4 degrees
- (✓) Nitrate/Nitrite H2SO4 and 4 degrees
- (✓) Cyanide / NaOH and 4 degrees

Redevelop? (Y/N)

WATER WELL INFORMATION

Length of Water Column	35.18
Volume of Water In Well	5.7921
Pumping Rate of Pump	—
Minutes of Pumping	~ 96

YSI flows through cell, 6820 Sande, 610-D monitor
HACH Turbidimeter for Turbidity

EVACUATION INFORMATION

Volume of water removed from well 26921
Did well go dry? Y (N)

Evacuation Method: Bailer () Pump (✓) *Grounded 2" LDPE tubing*
Evacuation Rate: *235 ml/min*

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)
Turbidity (NTU)	2.4	2.3	2.0	2.1	3.2	6.4	4.6	2.0	2.0	9	8	8	8	8	8	8
Temperature (Celsius)	14.27	15.44	15.40	15.60	15.60	15.83	15.6	15.66	15.20	15.27	15.26	15.29	15.35	15.35	15.35	15.35
pH	11.19	9.15	10.26	11.07	10.36	9.56	8.6	8.32	7.40	7.03	6.97	7.16	7.19	7.19	7.19	7.19
Conductance (mS/cm)	2.115	1.267	1.301	1.537	1.264	1.099	1.092	1.129	1.225	1.250	1.243	1.226	1.229	1.229	1.229	1.229
Oxidation Reduction Potential (ORP) mv	-143.5	-192.9	-256.4	-309.1	-295.5	-240.2	-183.2	-171	-122.0	-101.6	-103.9	-124.9	-126.8	-126.8	-126.8	-126.8
DO (mg/l)	1.85	0.44	0.4	0.38	0.30	0.31	0.18	0.23	0.24	0.26	0.25	0.24	0.23	0.23	0.23	0.23
Water Level (TIC)	14.67	15.08	15.06	15.04	15.03	15.03	15.03	16.40	16.55	16.82	16.62	16.62	16.82	16.82	16.82	16.82

Calibration Standard Readings

5. flow momentarily to get rid of build up of bubbles in line

MISCELLANEOUS OBSERVATIONS/PROBLEMS

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial purge - v. light gray, slight turb., odorless
Problems w/ water level probe (constant beep) due to high pH + cond. water flow
tended to pulse ~ 1030 - 1050. Sampled clear, colorless, odorless.

SAMPLE DESTINATION

Laboratory: Galson
Delivered BY: LMS/SPL
Field Sampling Coordinator: Leanne Sanders

Via: Red Ex Airbill #: 809810724627

Airbill #:

Field Sampling Coordinator:	Leanne Sanders						
Time	1112	1116	1119	1122	1125	1128	Time
Turbidity (NTU)	8	8	6	6	6	6	6
Temp. (°C)	15.22	14.83	15.15	14.92	14.93	14.95	14.99
pH (su)	7.02	6.78	6.69	6.64	6.61	6.62	6.65
Cond (mS/cm)	1.234	1.244	1.245	1.247	1.244	1.242	1.247
ORP (mV)	-114.8	-98.0	-91.4	-87.3	-82.5	-84.0	-86.2
DO (mg/L)	0.23	0.24	0.24	0.24	0.26	0.24	0.23
WL (TIC)	17.00	17.20	17.38	17.52	17.51	17.52	17.51

adjust
rate

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-225
 Key No. 2476
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel LMS/SPR
 Date 7/16/99 Time In 1330 Out 1335
 Weather Sun 90° Humid

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>Y</u>
Well Diameter	<u>2 in</u>
Well Depth	<u>16.45</u>
Intake Depth of pump/tubing	<u>14.5 to 16 @ end</u>
Water Table Depth	<u>12.95</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>3.5</u>
Volume of Water in Well	<u>0.57</u>
Pumping Rate of Pump	<u>-</u>
Minutes of Pumping	<u>27</u>

Started pumping @ 1103
 Stopped pumping @ 1200
 Sampled @ 1131 Lab Time for all - Sampled metals @ 1131
 Sample ID MW-225
 Sampled for:

- (☒) PCBs (Total) / 4 degrees
- (☐) PCBs (Dissolved) / 4 degrees
- (☒) TCL VOCs / HCL and 4 degrees
- (☒) TCL SVOCs / 4 degrees
- (☒) TAL Metals (Total) / HNO3 and 4 degrees
- (☒) TAL Metals (Dissolved) / HNO3 and 4 degrees
- (☒) Sulfate / 4 degrees
- (☒) Sulfide / NaOH / ZnAc and 4 degrees
- (☒) Nitrate/Nitrite H2SO4 and 4 degrees
- (☒) Cyanide / NaOH and 4 degrees

EVACUATION INFORMATION

Volume of water removed from well 1.5 gal
 Did well go dry? (☒ Y ☐ N) while sampling

Evacuation Method: Bailer (☐) Pump (☒) 4 Ground for w/ded disp LDPE tubing
 Evacuation Rate: 150-200 ml

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	139	26	10	10	10	19	17	10							
Temperature (Celsius)	15.98	18.92	19.63	20.78	20.41	20.71	21.3	21.70							
pH	6.39	6.34	6.30	6.32	6.33	6.33	6.32	6.33							
Conductance (mS/cm)	1.307	1.305	1.292	1.255	1.284	1.280	1.280	1.279							
Oxidation Reduction Potential (ORP) mv	59.5	68.7	70.1	50.5	45.9	30.4	35.9	35.2							
DO (mg/l)	0.85	0.68	0.62	0.61	0.60	0.57	0.60	0.59							
Water Level (TIC)	13.30	13.47	13.48	13.43	13.51	13.48	13.57	13.52							

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial surge - clear, colorless, odorless
Temp. increases due to flow rate & hot weather. Having to adjust Hz constantly
H2 getting very high 200-350 Hz. Sampled clear colorless odorless @
first. Had to stop pump mid way after VOCs SVOCs & PCBs, water turbid/orange

SAMPLE DESTINATION

Laboratory: Galson Via: FedEx Airbill #: 811927447190
 Delivered BY: LMS/SPR
 Field Sampling Coordinator: Leanne Sanders

during remainder of samples. Let turbidity get as low as possible before sampling metals.

Time 1155 1156 1159 1200 1240 1243 1248 1249 1253 125
 Turbidity (NTU) 268 200 207 dry 323 236 233 110 79 77
 DTW (TIC) - - - - - 13.41 13.40 13.58 13

Time 1256 1259 1305 1308
 Temp 81 69 96 97

DTW (TIC) 13.60 13.70 13.67 13.50
to burn out "Pump, Dry" @ 1308

13:5 LMS cells RDK RE: Taking dissolved metals.
1310 Sample for Total & Dissolved metals per LBM.

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-235
 Key No. 2537
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel LMS/SPR
 Date 7/14/99 Time In 0820 Out 1030
 Weather Sun 70°F

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>Y</u>
Well Diameter	<u>2"</u>
Well Depth	<u>19.00</u>
Intake Depth of pump/tubing	<u>16</u>
Water Table Depth	<u>10.25</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>8.75</u>
Volume of Water in Well	<u>1.43</u>
Pumping Rate of Pump	<u>-</u>
Minutes of Pumping	<u>116</u>

Started pumping @ 0845
 Stopped pumping @ 1015
 Sampled @ 1006
 Sample ID MW-235
 Sampled for:

- (☒) PCBs (Total) / 4 degrees
- (☐) PCBs (Dissolved) / 4 degrees
- (☒) TCL VOCs / HCL and 4 degrees
- (☒) TCL SVOCs / 4 degrees
- (☒) TAL Metals (Total) / HNO3 and 4 degrees
- (☐) TAL Metals (Dissolved) / HNO3 and 4 degrees
- (☒) Sulfate / 4 degrees
- (☒) Sulfide / NaOH / ZnAc and 4 degrees
- (☒) Nitrate/Nitrite H2SO4 and 4 degrees
- (☒) Cyanide / NaOH and 4 degrees

EVACUATION INFORMATION

Volume of water removed from well 15 gal
 Did well go dry? Y N

Evacuation Method: Bailer () Pump
 Evacuation Rate: 493 ml/min - 249 ml/min

Parameters taken w/YSI flowthrough cell,
 6820 sensor, & 610-D monitor
 Turbidity taken w/HACH turbidimeter

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	381.4	401.0	338.0	268.0	252.0	136.0	131.0	55.0	69.0	40	43	47			26
Temperature (Celsius)	18.97	19.16	20.03	20.86	17.30	17.78	17.50	17.79	17.75	17.75	17.74	17.78			17.78
pH	6.61	6.66	6.66	6.68	6.71	6.63	6.63	6.68	6.68	6.68	6.68	6.68			6.68
Conductance (mS/cm)	2.686	2.681	2.685	2.689	2.683	2.683	2.681	2.682	2.681	2.681	2.681	2.681			2.681
Oxidation Reduction Potential (ORP) mv	-57.0	-106.7	-75.2	-102.2	-101.5	-114.2	-116.1	-117.7	-118.8	-118.7	-119.5	-120.5			-122.0
DO (mg/l)	1.04	0.64	0.32	0.23	0.11	0.60	0.31	0.31	0.31	0.31	0.31	0.31			0.32
Water Level (TIC)	10.44	10.40	10.44	10.48	10.47	10.51	10.52	10.52	10.52	10.52	10.52	10.52			10.52

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial Turb - brown, turbid, odor
Having to adjust pump constantly due to build-up of silt in pump.
Sampled very light brown, slightly opaque, odor. Sampled @ 600 ml/min, there's been on
purge water.

SAMPLE DESTINATION

Laboratory: Galson
 Delivered BY: LMS/SPR
 Field Sampling Coordinator: Leanne Sanders

Via: Fed Ex Airbill #: 811927447179

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-245
 Key No. 2537
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel LMS / SPR
 Date 11/19/99 Time In 0825 Out 0945
 Weather SN 85°F

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>7</u>
Well Diameter	<u>2"</u>
Well Depth	<u>18.01</u>
Intake Depth of pump/tubing	<u>~15-</u>
Water Table Depth	<u>8.97</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>7.09</u>
Volume of Water in Well	<u>1.47</u>
Pumping Rate of Pump	<u>-</u>
Minutes of Pumping	<u>21</u>

Started pumping @ 0853
 Stopped pumping @ 0933
 Sampled @ 0918
 Sample ID MW-245
 Sampled for:

- (☒) PCBs (Total) / 4 degrees
- (☐) PCBs (Dissolved) / 4 degrees
- (☒) TCL VOCs / HCL and 4 degrees
- (☒) TCL SVOCs / 4 degrees
- (☒) TAL Metals (Total) / HNO3 and 4 degrees
- (☐) TAL Metals (Dissolved) / HNO3 and 4 degrees
- (☒) Sulfate / 4 degrees
- (☒) Sulfide / NaOH / ZnAc and 4 degrees
- (☒) Nitrate/Nitrite H2SO4 and 4 degrees
- (☒) Cyanide / NaOH and 4 degrees

YSI flow through cell, 6820 Sander + 610-D Monitor + HACH Turbidity meter

EVACUATION INFORMATION

Volume of water removed from well 39.21
 Did well go dry? Y (N)

Evacuation Method: Bailer (☐) Pump (☒) Ground for by dedicated disp. LDPE tubing.

Evacuation Rate: 320-500ml

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	<u>1.52</u>	<u>1.05</u>	<u>3.5</u>	<u>2.5</u>	<u>2.1</u>	<u>1.5</u>								<u>1.3</u>
Temperature (Celsius)	<u>20.08</u>	<u>20.34</u>	<u>19.45</u>	<u>19.46</u>	<u>19.44</u>	<u>19.45</u>								<u>19.52</u>
pH	<u>6.64</u>	<u>6.66</u>	<u>6.68</u>	<u>6.67</u>	<u>6.67</u>	<u>6.66</u>								<u>6.67</u>
Conductance (mS/cm)	<u>2.558</u>	<u>2.555</u>	<u>2.523</u>	<u>2.518</u>	<u>2.518</u>	<u>2.515</u>								<u>2.516</u>
Oxidation Reduction Potential (ORP) mv	<u>-50.1</u>	<u>-54.5</u>	<u>-59.1</u>	<u>-54.8</u>	<u>-57.0</u>	<u>-56.2</u>								<u>-57.5</u>
DO (mg/l)	<u>0.65</u>	<u>0.42</u>	<u>0.27</u>	<u>0.32</u>	<u>0.30</u>	<u>0.31</u>								<u>0.32</u>
Water Level (TIC)	<u>9.05</u>	<u>9.22</u>	<u>9.20</u>	<u>9.26</u>	<u>9.26</u>	<u>9.26</u>								<u>9.26</u>

Rate m/min

320

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge - clear, colorless, odorless
sampled clear colorless, odorless

SAMPLE DESTINATION

Laboratory: Galson
 Delivered BY: LMS / SPR
 Field Sampling Coordinator: Leanne Sanders

Via: Fed Ex

Airbill #: 81192744 7180

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-255
 Key No. 2537
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel LMS/SPIC
 Date 7/15/99 Time In 0945 Out 1100
 Weather Sun 85°

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>Y</u>
Well Diameter	<u>2"</u>
Well Depth	<u>18.52</u>
Intake Depth of pump/tubing	<u>15.5</u>
Water Table Depth	<u>6.82</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>17.0</u>
Volume of Water In Well	<u>1.91</u>
Pumping Rate of Pump	<u>3.33</u>
Minutes of Pumping	<u>333</u>

Started pumping @ 0957
 Stopped pumping @ 1040
 Sampled @ 1030
 Sample ID MW-255
 Sampled for:

- (☒) PCBs (Total) / 4 degrees
- (☐) PCBs (Dissolved) / 4 degrees
- (☒) TCL VOCs / HCL and 4 degrees
- (☒) TCL SVOCs / 4 degrees
- (☒) TAL Metals (Total) / HNO3 and 4 degrees
- (☐) TAL Metals (Dissolved) / HNO3 and 4 degrees
- (☒) Sulfate / 4 degrees
- (☒) Sulfide / NaOH / ZnAc and 4 degrees
- (☒) Nitrate/Nitrite H2SO4 and 4 degrees
- (☒) Cyanide / NaOH and 4 degrees

YSI flow-through cell, 6820 Sonde + 610D monitor + HACH Turbidimeter

EVACUATION INFORMATION

Volume of water removed from well 5.0
 Did well go dry? Y (☒) N (☐)

Evacuation Method: Bailer () Pump ()
 Evacuation Rate: ~500

Grundfos w/ dedicated disposal LDPE tubing

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	15.6	24	14	3	2										
Temperature (Celsius)	16.6	18.32	18.99	18.53	18.55										
pH	6.86	6.75	6.75	6.74	6.73										
Conductance (mS/cm)	2.015	2.187	2.214	2.218	2.209										
Oxidation Reduction Potential (ORP) mv	-14.6	-52.8	-54.6	-53.6	-54.0										
DO (mg/l)	0.25	0.25	0.10		0.10										
Water Level (TIC)	7.25	7.32	7.30	7.30	7.30										

Calibration Standard Readings 300 500

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial pump - light gray, clear turbid. type odor.
Sampled clear, colorless, odorless. 610-D monitor out of power.
No connector for battery pack. No final readings.

SAMPLE DESTINATION

Laboratory: Galsen
 Delivered BY: LMS/SPIC
 Field Sampling Coordinator: Leanne Sanders

Via: Fed Ex

Airbill #: 811927447180

GROUNDWATER SAMPLING FIELD LOG

Well No. PZ-1D
 Key No. _____
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel LALS/SPR
 Date 7/21/99 Time In 1105 Out 1220
 Weather Sun 85°F

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>Y</u>
Well Diameter	<u>2"</u>
Well Depth	<u>21.46</u>
Intake Depth of pump/tubing	<u>~18'</u>
Water Table Depth	<u>8.08</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>17.38</u>
Volume of Water in Well	<u>2.292</u>
Pumping Rate of Pump	<u>1</u>
Minutes of Pumping	<u>20</u>

Started pumping @ 1109
 Stopped pumping @ 1146
 Sampled @ 1137
 Sample ID PZ-1D
 Sampled for:

- () PCBs (Total) / 4 degrees
- () PCBs (Dissolved) / 4 degrees
- () TCL VOCs / HCL and 4 degrees
- () TCL SVOCs / 4 degrees
- () TAL Metals (Total) / HNO3 and 4 degrees
- () TAL Metals (Dissolved) / HNO3 and 4 degrees
- () Sulfate / 4 degrees
- () Sulfide / NaOH / ZnAc and 4 degrees
- () Nitrate/Nitrite H2SO4 and 4 degrees
- () Cyanide / NaOH and 4 degrees

Parameters: YS / flow through cell, 6820 Sonda & 610.8 Monitor
+ HACH turbidimeter

EVACUATION INFORMATION

Volume of water removed from well 2.75
 Did well go dry? Y N

Evacuation Method: Bailer () Pump
 Evacuation Rate: ~500 ml/min avg.

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	3.98	2.6	2.2	1.9	1.7	1.4									2.8
Temperature (Celsius)	16.52	16.53	16.57	16.53	16.54	16.60									16.80
pH	5.92	5.88	5.86	5.85	5.84	5.82									5.84
Conductance (mS/cm)	1.099	1.132	1.158	1.165	1.166	1.168									1.170
Oxidation Reduction Potential (ORP) mv	-5.8	-38.9	-44.4	-48.0	-51.0	-52.8									-54.7
DO (mg/l)	0.26	0.42	0.20	0.19	0.19	0.18									0.19
Water Level (TIC)	8.60	8.55	8.56	8.56	8.56	8.56									8.56

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge - light gray, turbid, odorless
Final purge - very light gray, odorless

SAMPLE DESTINATION

Laboratory: Galsen
 Delivered BY: LALS/SPR
 Field Sampling Coordinator: Leanne Sanders

Via: FedEx

Airbill #: 869810724580

GROUNDWATER SAMPLING FIELD LOG

Well No. PZ-15
 Key No. N/A
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site Well Niagara Mohawk North Albany
 Sampling Personnel LUS/SPR
 Date 7/2/99 Time In 0940 Out 1100
 Weather Sun 85° F

WELL INFORMATION

	TIC
Reference Point Marked on Casing	<u>A</u>
Well Diameter	<u>2 in</u>
Well Depth	<u>10.5'</u>
Intake Depth of pump/tubing	<u>2.8'</u>
Water Table Depth	<u>4.22</u>

Redevelop? (Y/N) N

WATER WELL INFORMATION

Length of Water Column	<u>6.36</u>
Volume of Water in Well	<u>1.0392</u>
Pumping Rate of Pump	<u>—</u>
Minutes of Pumping	<u>53</u>

Started pumping @ 0950
 Stopped pumping @ 1047
 Sampled @ PZ-15
 Sample ID PZ-15
 Sampled for:

- (☒) PCBs (Total) / 4 degrees
- (☐) PCBs (Dissolved) / 4 degrees
- (☒) TCL VOCs / HCL and 4 degrees
- (☒) TCL SVOCs / 4 degrees
- (☒) TAL Metals (Total) / HNO3 and 4 degrees
- (☐) TAL Metals (Dissolved) / HNO3 and 4 degrees
- (☒) Sulfate / 4 degrees
- (☒) Sulfide / NaOH / ZnAc and 4 degrees
- (☒) Nitrate/Nitrite H2SO4 and 4 degrees
- (☒) Cyanide / NaOH and 4 degrees

EVACUATION INFORMATION

Parameters: YSI flowthrough cell, 6820 Sonde,
 + 610-D Monitor + HACH turbidimeter

Volume of water removed from well 3
 Did well go dry? Y (☒) N (☐)

Evacuation Method: Bailer (☐) Pump (☒)
 Evacuation Rate: ~200ml/min

Parameter	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Time (min.)	Final
Turbidity (NTU)	10	16	54.5	181	88	33	12	7	4	4	3				9
Temperature (Celsius)	21.43	24.92	20.07	20.76	21.89	22.04	22.18	22.11	21.18	21.45	21.69				21.85
pH	6.44	6.40	6.36	6.39	6.23	6.21	6.20	6.18	6.12	6.11	6.10				6.12
Conductance (mS/cm)	1.273	1.256	1.324	1.310	1.251	1.214	1.225	1.269	1.258	1.258	1.262				1.257
Oxidation Reduction Potential (ORP) mv	14.1	85.6	47.3	69.7	51.2	84.0	84.3	87.2	88.4	89.6	90.6				93.2
DO (mg/l)	0.58	0.41	0.41	0.41	0.40	0.37	0.38	0.34	0.31	0.34	0.34				0.34
Water Level (TIC)	5.62	4.80	4.71	4.72	4.70	4.75	4.74	4.74	4.80	4.87	4.89				4.87

Calibration Standard Readings

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge - clear, col, less, odorless
Stopped @ 1007 & lowered pump to bottom but not enough head
to pump 12 0.5' off bottom) Restart 1029. Sampled @ 1047, colorless, odorless

SAMPLE DESTINATION

Laboratory: Galson
 Delivered BY: LUS/SPR
 Field Sampling Coordinator: Leanne Sanders

Via: FedEx

Airbill #: 809810724580

***Attachment 2 - LNAPL Monitoring/Recovery
Field Logs***

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Date: 7/30/98
Time: _____
Weather: overcast, 75°F

Personnel: ROK/SLL

Company: BLASIMUD, BOKK; LEE

[illegible]

COMMENTS: * QUESTIONABLE ORIGINAL THICKNESS of Layer c MW-04! BAILER SHOWED 1.4' of Layer
✓ MW-15 S 60'ERS ON 2/3/83

What

**NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY**

Personnel: DA, JT
Company: 1st

COMMENTS:



**NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY**

Date: 10/30/78
Weather: Cold, Sunny 50°F
windy.

Regio: SLL/ASM
Company: BBL

Date	Time	Well ID	Well Diameter (Inches)	(TIC) Depth to LNAPL (feet)	(TIC) Depth to Water (feet)	LNAPL Thickness in Well Before Bailing (feet)	LNAPL Thickness in Well After Bailing (feet)	Inner Diameter of Bailer (Inches)	Total LNAPL Thickness Removed, as Measured in Bailer (feet)	Amount of LNAPL Bailed (gallons)	TOTAL DEPTH of WELL (TIC) ↓ Description of LNAPL
10/30/98	1050	MW-01	2"	5.82'	5.56'	0.24'	0.03'	1.5"	0.19'	0.018	15.38'
	1010	MW-08	2"	7.54'	7.84'	0.30'	0.01'	1.5"	0.29'	0.027	16.87'
	1130	MW-10	2"	10.98	11.15	0.17'	0.02'	1.5"	0.03'	?	23.55'
	0855	MW-13	2"	—	5.53'	—	—	—	—	—	9.75' (RIS) 17.55'
	—	MW-25S	2"	—	—	—	—	—	—	—	NOT GAUGED AS PER MIRE LOGS
	0920	MW-18S	2"	—	11.84'	—	—	—	—	—	16.81'
	0840	MW-23S	2"	—	10.41'	—	—	—	—	—	18.78'
	0850	MW-21S	2"	—	9.05'	—	—	—	—	—	17.89'
↓	0900	MW-25S	2"	—	7.02'	—	—	—	—	—	18.42'

COMMENTS:

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Date: 11/5/98
Weather: overcast, 50°F

Personnel: RDK, JSH
Company: RAL

[illegible]

COMMENTS:

$$\begin{array}{r} 9.85 \\ - 9.24 \\ \hline .61 \end{array} \qquad \begin{array}{r} 5.10 \\ 16.10 \\ - 5.46 \\ \hline 64 \end{array}$$

MONITORING WELL DNAPL DATA COLLECTION FORM

**NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY**

Date: 12/8/98
Weather: Cloudy 45°F

Personnel: SLL/DF
Company: BBL

Date	Time	Well ID	(TIC)	(TIC)	Depth to DNAPL (feet)	Total Depth of Well (feet)	DNAPL	DNAPL	Inner Diameter of Bailer (inches)	DNAPL	Amount of DNAPL Bailed (gallons)	Total Depth of Well (TIC)
			Well Diameter (inches)	Depth to Water (feet)			Thickness In Well Before Bailing (feet)	Thickness In Well After Bailing (feet)		Total DNAPL Thickness Removed, as Measured in Bailer (feet)		
12/8/98	1210	MW-04	2"	6.77'	5.47'	15.38'	0.30'	0.02'	1.5"	0.42'	0.039	
	1140	MW-08	2"	9.23'	9.25'	16.88'	0.34'	0.01'	1.5"	0.39'	0.036	
	1	MW-10	2"	11.78'	11.71'	23.35'	0.07'	0.01'	1.5"	0.16'	0.014	
	1105	MW-13	2"	5.97'	—	9.78'	—	—	—	—	—	
	915	MW-15	2"	5.80'	—	13.46'	—	—	—	—	—	
	1005	MW-18	2"	11.54'	—	16.84'	—	—	—	—	—	
	935	MW-23	2"	10.58'	—	18.52'	—	—	—	—	—	
	940	MW-24	2"	9.82'	—	17.88'	—	—	—	—	—	
	945	MW-25	2"	7.24'	—	18.38'	—	—	—	—	—	
	0955	MW-17	2"	11.69'	—	16.69'	—	—	—	—	—	
	1000	MW-28	2"	13.71'	—	16.36'	—	—	—	—	—	
	1030	MW-21	2"	14.05'	—	50.17'	—	—	—	—	—	

COMMENTS:

**NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY**

Date: 01/06/99
Weather: 23°F, WINDY, CLOUDY

Personnel: LMS/SL
Company: BLASLAND, BOECK & LEE, INC

COMMENTS:

MONITORING WELL LNAPL DATA COLLECTION FORM

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Date: 2/3/99
Weather: mostly cloudy
33-40°F

Personnel: GAR, LLC
Company: 606

Date	Time	Well ID	Well Diameter (Inches)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness In Well Before Bailing (feet)	LNAPL Thickness In Well After Bailing (feet)	Inner Diameter of Bailer (Inches)	Total LNAPL Thickness Removed, as Measured In Bailer (feet)	Amount of LNAPL Bailed (gallons)	DEPTH TO BOTTOM OF WELL (FEET) Description of LNAPL
2/3/99	1545	MW-04	2"	4.83	4.84	0.01	0.00	1.5"	0.03'	0.027	14.92'
2/3/99	1555	MW-08	2"	4.61	4.62	0.01	0.00	1.5"	0.01'	0.009	16.86'
2/3/99	1810	MW-10	2"	10.34	4.86	0.22	0.00	1.5"	.125'	0.119	16.86' ^{10.34} 23.55
2/3/99	1145	MW-13	2"	—	5.01	—	—	—	—	—	9.79'
2/3/99	1106	MW-15S	2"	—	4.90	—	—	—	—	—	13.44'
2/3/99	0920	MW-18S	2"	—	10.79	—	—	—	—	—	16.82'
2/3/99	1115	MW-23S	2"	—	9.88'	—	—	—	—	—	18.43'
2/3/99	1120	MW-24S	2"	—	8.35'	—	—	—	—	—	17.88'
2/3/99	1230	MW-25S	2"	—	6.45'	—	—	—	—	—	19.34'

COMMENTS: _____

৭.৫

NO. 027

BLASLAND BOUCH & LEE

4:22PM

MAR. 2. 1999

Date: 3/2/99
Weather: clouds-wind
30-35°F

Personnel LMS/BWK
Company BBL

[illegible]

COMMENTS:

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Date: 3/30/99
Weather: 50°F SUN HIGH WIND

Personnel WMS/BWK
Company BBL

[illegible]

COMMENTS:

BLASLAND BOUCH & LEE

MAR. 30. 1999 5:02PM

NO. 158 P. 3

$$\begin{array}{r} 1.29 \\ 14.33 \\ \hline 15.62 \end{array}$$

07881126QUG

$$\begin{array}{r} 9.47 \\ + .28 \\ \hline 9.75 \end{array}$$
$$\begin{array}{r} 13.98 \\ + .07 \\ \hline 14.05 \end{array}$$

NIAGARA MOHAWK POWER CORPORATION
PORT JARVIS SERVICE CENTER
ALBANY, NY

Date: 5/6/99
Weather: overcast 70°F

Personnel:
Company:

LMS / ETHP

Date	Time	Well ID	Well Diameter (inches)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness in Well Before Bailing (feet)	LNAPL Thickness in Well After Bailing (feet)	Inner Diameter of Bailer (inches)	Total LNAPL Thickness Removed, as Measured in Bailer (feet)	Amount of LNAPL Bailed (gallons)	Description of LNAPL
5/6/99	1050	MW-04	2"	4.41	5.11	0.70	10.01	1.5	12.39"	0.092	Diesel + Sewer
5/6/99	1100	MW-08		—	5.80	no reading	10.01	1.5	0.04'	50.009	Gasoline + Coal Tar
5/6/99	1330	MW-10		11.32	11.60	0.28	10.01	1.5	0.37'	10.037	Gasoline
5/6/99	1230	MW-13		—	5.28	no reading	10.01	1.5	—	—	Oil spray/blade grease
5/6/99	0710	MW-23		—	6.07	—	—	—	—	—	Coated probe + tip of FPS
5/6/99	0955	MW-25		—	11.15	—	—	—	—	—	total depth 13.41 (no)
5/6/99	1005	MW-28		—	10.32	—	—	—	—	—	NONE
5/6/99	1015	MW-24		—	8.90	—	—	—	—	—	NONE
5/6/99	1017	MW-25		—	6.83	—	—	—	—	—	NONE

COMMENTS

Checked PZ 015 + D w/ bailer (see below)

MW-13 checked w/ bailer, 50.01' of NAPL - did not bail any further

PZ 015 4.51 TOTAL (TIC) 10.47 NO NAPL

PZ 01D 7.98 21.38 NO NAPL

11.10.1555

1.0511

BLANCHARD BURN & LEE

NU.349

P.2

MONITORING WELL LNAPL DATA COLLECTION FORM

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Date 6/2/99
Weather partly sunny, 85°F

Personnel SIL/RTS
Company BBFL

Date	Time	Well ID	Well Diameter (inches)	Depth to LNAPL (feet)	(FTC) Depth to Water (feet)	LNAPL Thickness in Well Before Bailing (feet)	LNAPL Thickness in Well After Bailing (feet)	Inner Diameter of Baller (inches)	Total LNAPL Thickness Removed, as Measured in Baller (feet)	Amount of LNAPL Bailed (gallons)	(FTC) Total Depth	Description of LNAPL
6/2/99	1250	MW-4	2"	9.00'	8.36'	0.36'	0.0'	1.5"	0.46'	0.422	15.01'	
	1220	MW-B	2"	8.23	8.24'	0.01	0.0'	1.5"	0.01'	6.009	16.90'	
	1330	MW-40	2"	11.06	11.14'	0.08	0.0'	1.5"	0.13	0.009	23.57'	
	1115	MW-13	2"	—	5.30'	—	—	—	—	—	10.44'	oil observed on pump and tape
	1040	MW-185	2"	—	11.22'	—	—	—	—	—	16.84'	
	1010	MW-23	2"	—	10.44'	—	—	—	—	—	19.16'	
	1015	MW-245	2"	—	9.04'	—	—	—	—	—	17.97'	
	1020	MW-255	2"	—	7.00'	—	—	—	—	—	18.43'	
	1400	MW-013	2"	—	4.24'	—	—	—	—	—	10.47'	
	1405	MW-010	2"	—	8.05'	—	—	—	—	—	21.37'	

COMMENTS:

BLASLAND BUGH & LEE

5:30AM

JUN. 3.1999

D7PB11250UG

1 of 1

18-Aug-98

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Date: 7/13/99
Weather: SUNNY 8309°

Personnel SL/RTS
Company BBI

[illegible]

COMMENTS:

*Attachment 3 - DNAPL Monitoring/Recovery
Field Logs*

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Personnel: ADK/SL

Company: BLAISLAND, Brock: ICE

[illegible]

COMMENTS: MW-16.D ~~QUARANTINED~~ ON 7/31/98

NO. 147 P. 3

BLASLAND BOUCH & LEE

4:39PM

SEP. 1. 1998

NO. 147 P. 3

Date: 8/31/78
Weather: Sunny, 80°F

Personnel: ROK, PF
Company: BBL

[illegible]

COMMENTS:

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Personnel: RDK JSH
Company: BBL

[illegible]
$$\begin{array}{r} 8900 \\ - 412 \\ \hline 488 \end{array}$$

Date: 10/30/78
Weather: calm, sunny 50°F
windy

Personnel: SLC, ASM
Company: BSL

[illegible]

COMMENTS:

**NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY**

Date: 12/8/98
Weather: Cloudy 45°F

Personnel: SLIPF
Company: BBCL

[illegible]

COMMENTS:

**NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY**

Date: 01/06/99
Weather: 23°F, WINDY, CLOUDY

Personnel: CMS/SLC
Company: BLASLAND BOCK & LEE, INC

[illegible]

PROBE.

MW-7 (ON LNAPL SHEET) ALSO HAD COAL TAR ON TIP OF

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Personnel: GAR, SLL
Company: BGL

[illegible]

Q UNABLE TO GAUGE BECAUSE THEY WERE UNDER A SNOW DRIF.

NO. 027 P. 3

BLASLAND BOUCH & LEE

4:22PM

MAR. 2. 1999

07981128900

1 of 1

BB-44-01

Date: 3/2/99
Weather: Clouds/wind
30-35°F

Personnel LMS/BWK
Company BPL

[illegible]

COMMENTS:

NO. 158 P. 2

MOB 30 1999 5:02PM , BLASLAND BOUCH & LEE

Personnel LMS/BWK
Company BBI

[illegible]

COMMENTS:

Map shows wrong relative locations for 6S + 6A(D)

07881 1262VG

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Quarterly

Date 5/6/99
Weather Overcast 70°F

Performed by
Company

LMS/THP
4-13

Date	Time	Well ID	Well Diameter (inches)	Depth to Water (feet)	Depth to DNAPL (feet)	Total Depth of Well (feet)	DNAPL Thickness in Well Before Dalling (feet)	DNAPL Thickness in Well After Dalling (feet)	Inside Diameter of Daller (inches)	Total DNAPL Thickness Removed, as Measured in Daller (feet)	Amount of DNAPL Bailed (gallons)	Description of DNAPL
5/6/99	1040	MW-2	2"	7.99	—	23.43	—	—	—	—	—	coal tar on tip of probe
5/6/99	1120	MW-5	—	4.58	—	22.43	—	—	—	—	—	not recoverable w/ pump or bailer
5/6/99	1320	MW-6A	—	9.49	—	17.55	—	—	—	—	—	~0.10 coating probe-coal tar
5/6/99	1350	MW-7	—	2.54	not measureable	12.64	—	—	—	—	—	NONE
		~~MW-10D~~	see below	—	—	—	—	—	—	—	—	not recoverable w/ pump or bailer
5/6/99	1025	MW-17D	—	11.56	—	25.31	—	—	—	—	—	~0.10 coating probe-coal tar
5/6/99	1315	MW-15	—	1.709	4.16	9.00	—	—	—	—	—	NONE
												coal tar - not recoverable w/ pump or bailer

COMMENTS

	DTL NAPI	DTW	DT Product	Total (CTIC)
5/6/99 0900 MW-16R	—	9.10	—	37.96
5/6/99 0905 MW-16D	—	9.75	—	19.97
5/6/99 0910 MW-155	—	6.07	—	13.47

079011260110

to Dry by

UNIT 10.1333

1.0311

DIAPHRAGM BUILT & LET

NO. 349

P. 1

**NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY**

Date: 6/2/99
Weather: PARTLY SUNNY 80°F

Personnel SUL, RFS
Company BIBL

[illegible]

COMMENTS:

MONITORING WELL DNAPL DATA COLLECTION FORM

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Date 7/13/99 Personnel SEN/KTS
Weather Sunny ~ 80F Company BGR

Date	Time	Well ID	Well Diameter (Inches)	Depth to Water (feet)	Depth to DNAPL (feet)	Total Depth of Well (feet)	DNAPL Thickness in Well Before Bailing (feet)	DNAPL Thickness in Well After Bailing (feet)	Inner Diameter of Bailer (Inches)	Total DNAPL Thickness Removed as Measured in Bailer (feet)	Amount of DNAPL Bailed (gallons)	Description of DNAPL
7/13/99	1331	MW-2	2"	8.00	—	23.54	—	—	1.5"	—	—	Trace DNAPL present on surface
	1400	MW-5	—	4.63	—	22.55	4.95'	—	—	—	—	Trace DNAPL present on surface
	1709	MW-6A	—	1.71	4.35	4.88	4.88'	—	—	—	—	DNAPL to third to remove from depth below
	1928	MW-7	—	2.71	13.04	—	—	—	—	—	—	DNAPL to third to remove from depth below
	1140	MW-11D	—	11.68	—	25.61	—	—	—	—	—	
	1708	MW-10D	—	9.35	—	17.67	—	—	—	—	—	
	1235	MW-15S	—	5.21	—	13.52	—	—	—	—	—	
	0835	MW-16D	—	9.55	—	20.00	—	—	—	—	—	
	0836	MW-16A	—	8.80	—	38.10	—	—	—	—	—	
	0825	MW-19D	—	8.15	—	24.74	—	—	—	—	—	

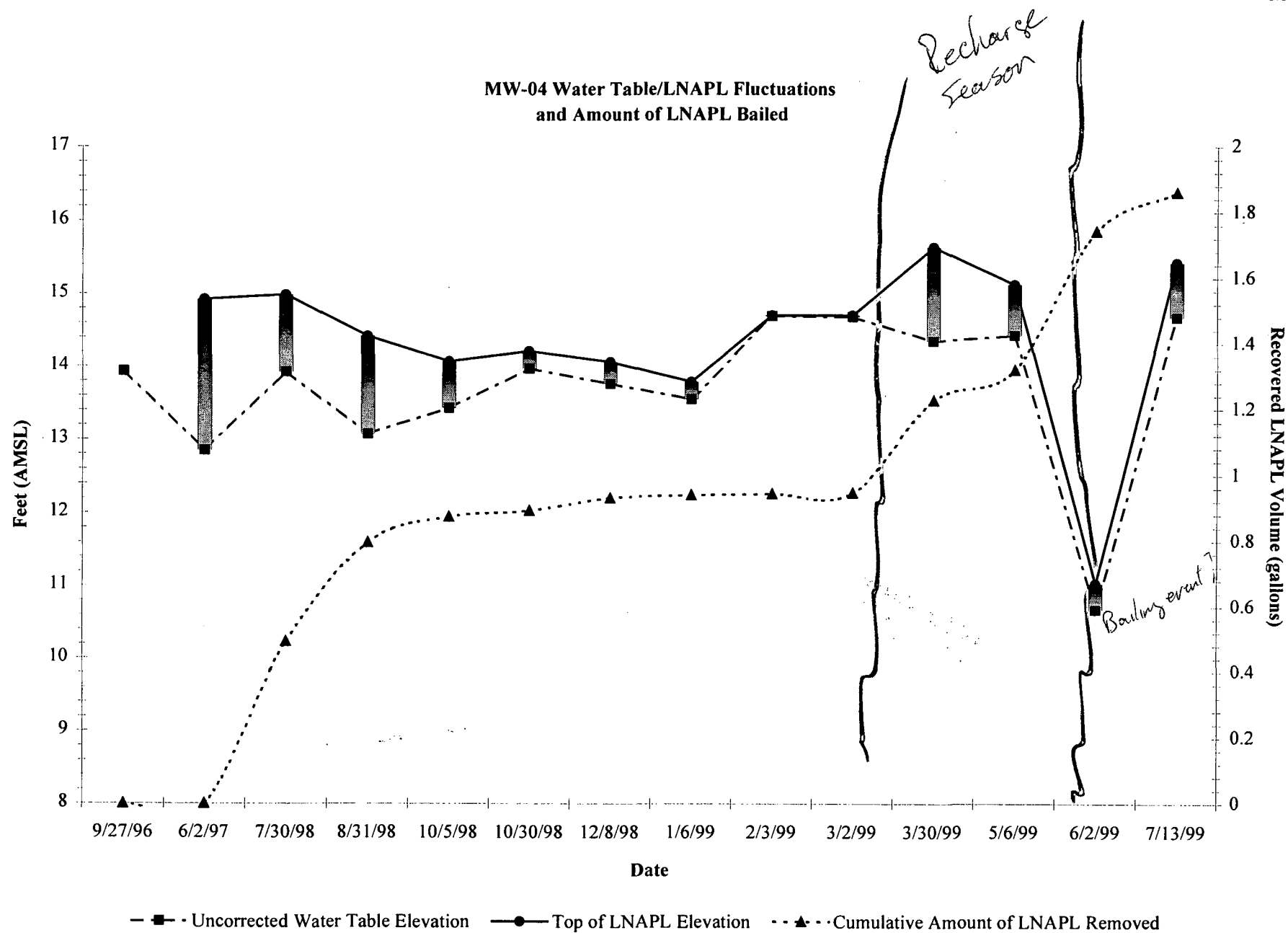
COMMENTS:

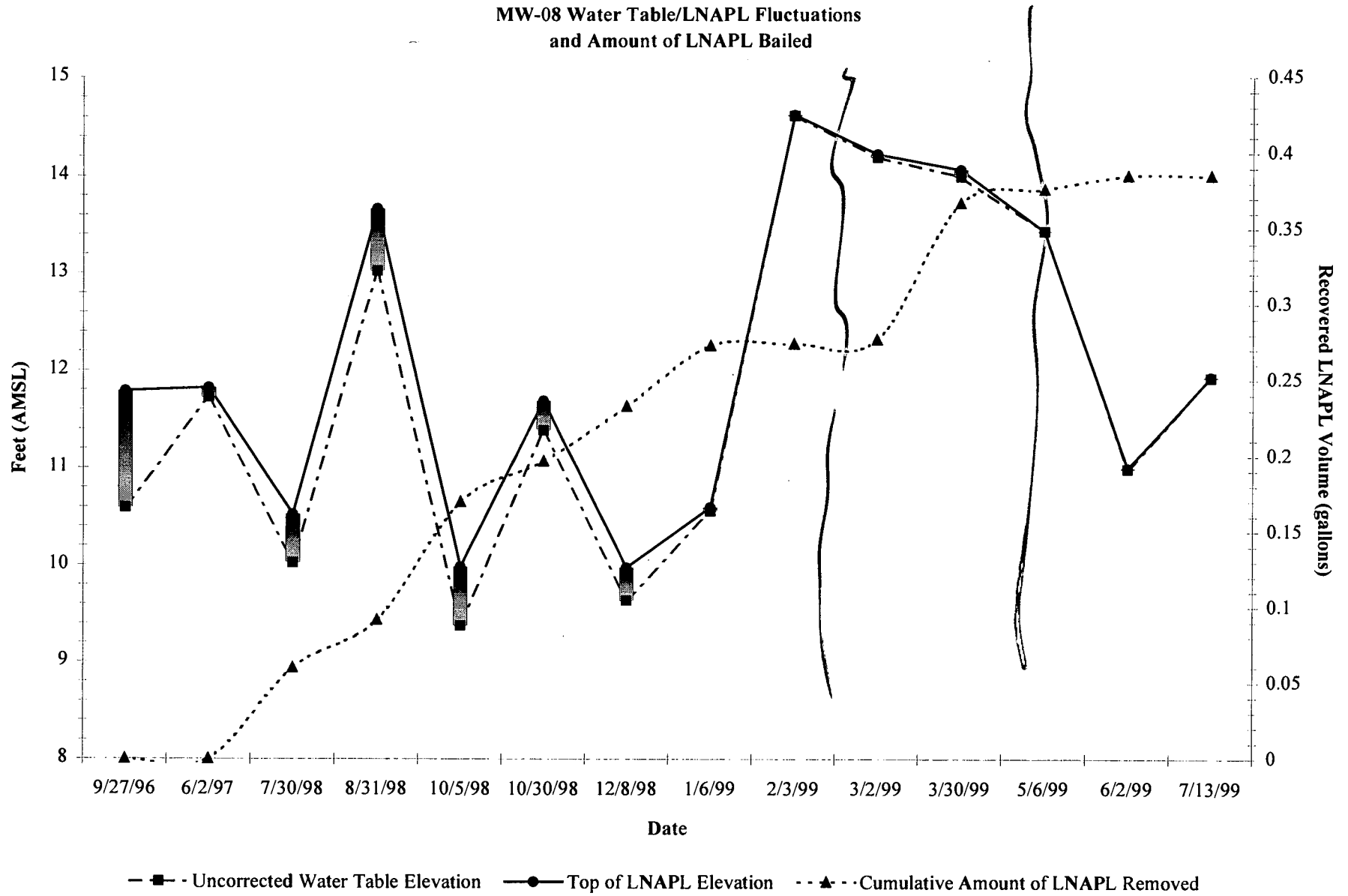
07481126DU0

1 of 1

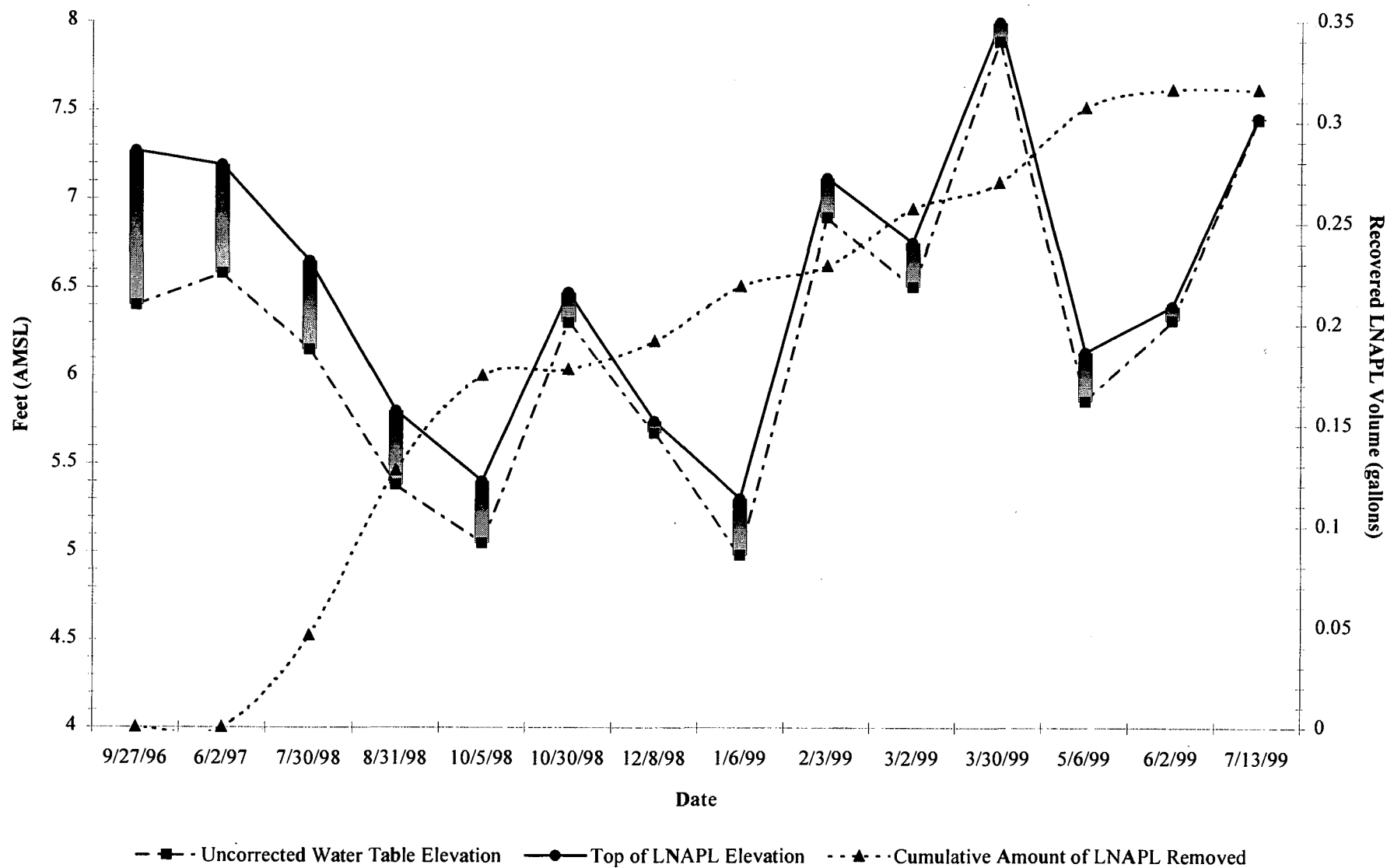
18 Aug 99

Attachment 4 - Cumulative LNAPL Recovery





**MW-10 Water Table/LNAPL Fluctuations
and Amount of LNAPL Bailed**



*Attachment 5 - Seasonal Ground-Water
Fluctuation within Former Erie
Canal*

Seasonal Ground-Water Fluctuation within the Former Erie Canal

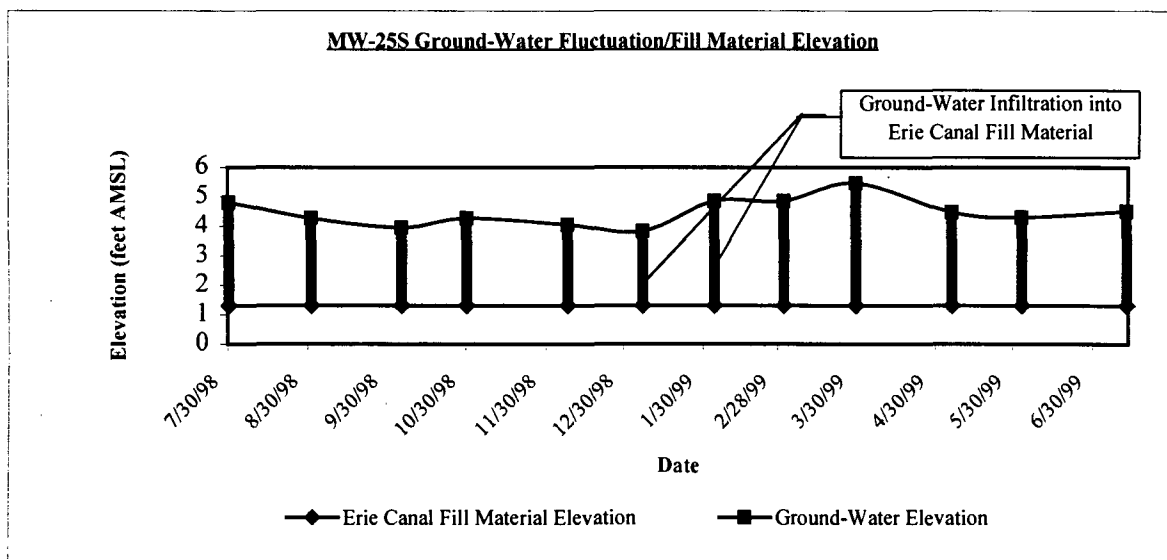
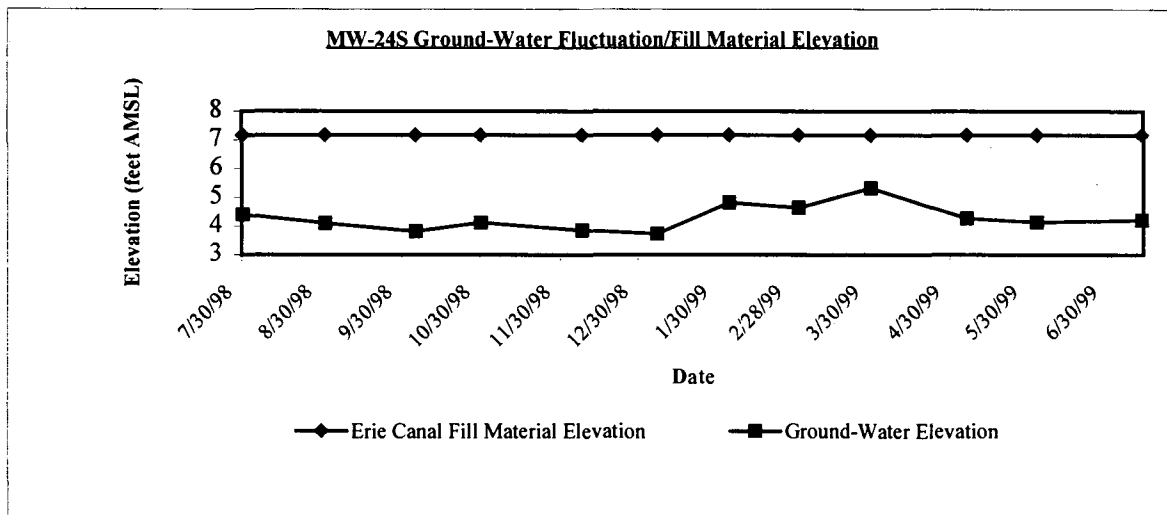
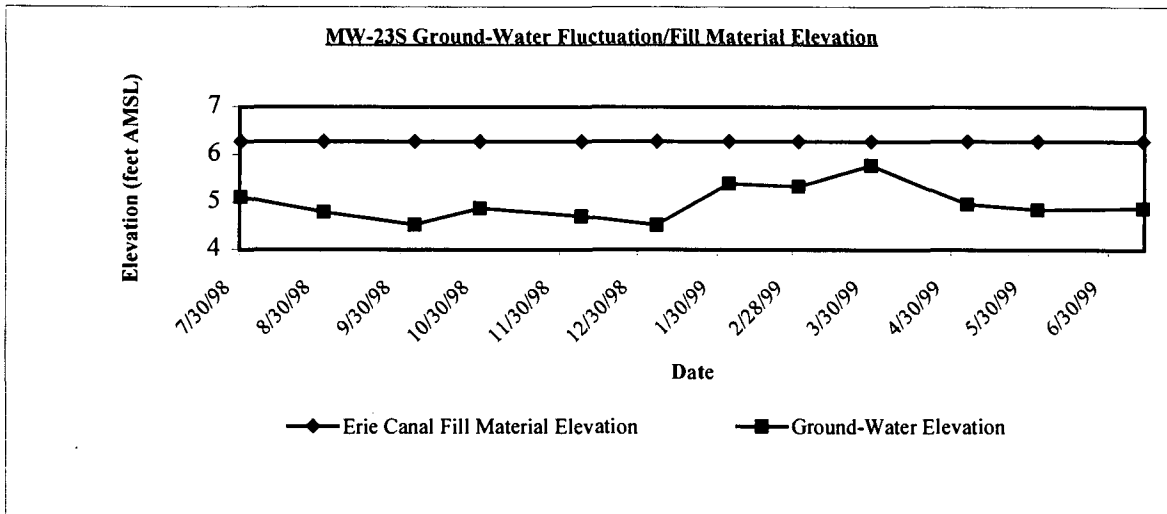


Exhibit A - Analytical Data Reports

SDG - L52645

Samples collected 7/12 - 7/16/99

DATA REVIEW FOR

NMPC
NORTH ALBANY

SDG# L52645

VOLATILE, SEMIVOLATILE, PCB
AND INORGANIC ANALYSES

Analyses performed by:

Galson Laboratories
East Syracuse, New York

Review performed by:



Blasland, Bouck & Lee, Inc.
Syracuse, New York

Summary

The following is an assessment of the data package for SDG# L52645 for sampling at the NMPC- North Albany. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis					
				VOA	BNA	PCB	TAL	TAL-F ¹	MISC ²
MW-16D	L52674-4	water	7/12/99	x					
MW-16D	L52645-2	water	7/12/99		x	x	x		x
MW-19D	L52674-5	water	7/12/99	x					
MW-19D	L52645-1	water	7/12/99		x	x	x		x
MW-16R	L52674-1	water	7/13/99	x	x	x	x		x
MW-16R	L52674-7	water	7/13/99					x	
MW-15S	L52674-2	water	7/13/99	x	x	x	x		x
MW-17S	L52674-3	water	7/13/99	x	x	x	x		x
TB-01	L52674-6	water	--	x					
MW-23S	L52682-1	water	7/14/99	x	x	x	x		x
MW-18S ³	L52682-2	water	7/14/99	x	x	x	x		x
MW-11	L52682-5	water	7/14/99	x	x	x	x		x
GW-DUP-1	L52682-6	water	7/14/99	x	x	x	x		x
TB-02	L52682-7	water	--	x					
MW-24S	L52751-2	water	7/15/99	x	x	x	x		x
MW-25S	L52751-3	water	7/15/99	x	x	x	x		x
TB-03	L52751-1	water	--	x					
RB-01	L52760-2	water	7/16/99	x	x	x	x		x
RB-01	L52760-3	water	7/16/99					x	
MW-22S	L52760-4	water	7/16/99	x	x	x	x		x
MW-22S	L52760-5	water	7/16/99					x	
MW-17D	L52760-6	water	7/16/99	x	x	x	x		x
TB-04	L52760-1	water	--	x					

1 Dissolved metals.

2 Miscellaneous parameters include nitrate, nitrite, sulfate and sulfide analyses. These analyses were subcontracted to Certified Environmental Services, Inc.

3 MS/MSD/DUP analysis performed on sample

VOLATILE ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8260 as referenced in NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding time for volatile analyses under NYSASP is 10 days from sample receipt. The technical holding time for unpreserved waters is 7 days from sample collection for aromatic compounds and 14 days from collection for non-aromatic compounds.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, trip, field, and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure contamination of samples during shipment. Field and rinse blanks measure contamination of samples during field operations.

Methylene chloride was detected in all method, trip and rinse blanks. Based on blank content, data for methylene chloride have been qualified as undetected in all samples.

In addition to the target compound listed above, several non-target compounds were detected in the blanks. When common to the blank and samples, their presence in the samples have been rejected.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) limits for select compounds only and allows two outliers. A technical review of the data applies limits to all compounds with no exceptions.

The %RSD for was less than 30% and all response factors were greater than 0.05 for all compounds.

4.2 Continuing Calibration

The method species percent drift (%D) criteria for select compounds only. A technical review applies limits to all compounds with no exceptions.

All compounds were within 25%D, with the following exceptions:

Instrument MS B 7/15/99 12:07

cis-1,3-Dichloropropene	29.8%

Since no cis-1,3-dichloropropene was detected in the associated samples and since the compound response was increasing, no data have been qualified based on the %D.

Instrument MS B 7/16/99 12:56

Methylene chloride	100.0%
4-Methyl-2-pentanone	-25.8%

All data for methylene chloride and 4-methyl-2-pentanone have been qualified as estimated in the associated samples MW-18S, MW-18SMS, MW-18SMSD, MW-23S, MW-11, GW-DUP-1 and TB-02.

Instrument MS B 7/19/99 12:42

Methylene chloride	65.8%
cis-1,3-Dichloropropene	37.5%

All data for methylene chloride have been qualified as estimated in the associated samples MW-23DL, TB-03, MW-24S, MW-25S, TB-04, RB-01, MW-22S and MW-17D. Since no cis-1,3-dichloropropene was detected in the samples and since the compound response was increasing, no additional data have been qualified based on the %D.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every experimental run.

All internal standard responses and retention times were within established limits.

7. Compound Identification

Compounds are identified on the GC/MS by using the analyte's relative retention time and ion spectra.

All identified compounds met the specified criteria.

8. Matrix Spike/Matrix Spike Duplicate

Matrix spike and matrix spike duplicate data are used to assess the precision and accuracy of the analytical method.

All matrix spike and matrix spike duplicate recoveries and relative percent differences between recoveries were within control limits.

9. Matrix Spike Blank

All matrix spike blank recoveries were within control limits.

10. Field Duplicates

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-18S / GW-DUP-1	2-butanone	ND	83 J	NA
	benzene	810	760	6.4%
	toluene	20 J	17 J	16.2%
	ethylbenzene	1100	1100	0.0%
	xylene (total)	240	230	4.2%

ND Not detected.

NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are acceptable.

11. General Comments

Data for samples MW-18S, MW-18S-MS and MW-18S-MSD were reported with the wrong dilution factor. The correct dilution factor should be 10, not the reported 1. Data for these samples have been corrected on the attached analysis data sheets.

The temperatures for three of the four coolers were outside control limits (at 13.4, 10.0 and 9.0°C) when received at the laboratory. No data have been qualified based on the deviations.

12. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

Volatile Organics Data Validation Checklist

	YES	NO	NA
<u>Data Completeness and Deliverables</u>			
Have any missing deliverables been received and added to the data package?	<u> </u>	<u> X </u>	<u> </u>
Is there a narrative or cover letter present?	<u> X </u>	<u> </u>	<u> </u>
Are the sample numbers included in the narrative?	<u> </u>	<u> X </u>	<u> </u>
Are the sample chain-of-custodies present?	<u> X </u>	<u> </u>	<u> </u>
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	<u> X </u>	<u> </u>	<u> </u>
<u>Holding Times</u>			
Have any holding times been exceeded?	<u> </u>	<u> X </u>	<u> </u>
<u>Surrogate Recovery</u>			
Are surrogate recovery forms present?	<u> X </u>	<u> </u>	<u> </u>
Are all the samples listed on the appropriate surrogate recovery form?	<u> X </u>	<u> </u>	<u> </u>
Was one or more surrogate recoveries outside of specified limits for any sample or blank?	<u> </u>	<u> X </u>	<u> </u>
If yes, were the samples reanalyzed?	<u> </u>	<u> </u>	<u> X </u>
Are there any transcription/calculation errors between the raw data and the summary form?	<u> </u>	<u> X </u>	<u> </u>
<u>Matrix Spikes</u>			
Is there a matrix spike recovery form present?	<u> X </u>	<u> </u>	<u> </u>
Were matrix spikes analyzed at the required frequency?	<u> X </u>	<u> </u>	<u> </u>
How many spike recoveries were outside of QC limits?	<u> 0 </u> out of <u> 10 </u>		
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?	<u> 0 </u> out of <u> 5 </u>		
<u>Blanks</u>			
Is a method blank summary form present?	<u> X </u>	<u> </u>	<u> </u>
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	<u> X </u>	<u> </u>	<u> </u>

Volatile Organics Data Validation Checklist - Page 2

	YES	NO	NA
Has a blank been analyzed at least once every twelve hours for each system used?	<u>X</u>	<u> </u>	<u> </u>
Do any method/reagent/instrument blanks have positive results?	<u>X</u>	<u> </u>	<u> </u>
Are there trip/field/rinse blanks associated with every sample?	<u>X</u>	<u> </u>	<u> </u>
Do any trip/field/rinse blanks have positive results?	<u>X</u>	<u> </u>	<u> </u>
<u>Tuning and Mass Calibration</u>			
Are the GC/MS tuning forms present for BFB?	<u>X</u>	<u> </u>	<u> </u>
Are the bar graph spectrum and mass/charge listing provided for each BFB?	<u>X</u>	<u> </u>	<u> </u>
Has a BFB been analyzed for each twelve hours of analysis per instrument?	<u>X</u>	<u> </u>	<u> </u>
Have the ion abundance criteria been met for each instrument used?	<u>X</u>	<u> </u>	<u> </u>
Are the spectra and mass calibration acceptable?	<u>X</u>	<u> </u>	<u> </u>
<u>Target Analytes</u>			
Is an organics analysis data sheet present for each of the following:			
Samples	<u>X</u>	<u> </u>	<u> </u>
Matrix spikes	<u>X</u>	<u> </u>	<u> </u>
Blanks	<u>X</u>	<u> </u>	<u> </u>
Are the reconstructed ion chromatograms present for each of the following:			
Samples	<u>X</u>	<u> </u>	<u> </u>
Matrix spikes	<u>X</u>	<u> </u>	<u> </u>
Blanks	<u>X</u>	<u> </u>	<u> </u>
Is the chromatographic performance acceptable with respect to:			
Baseline stability	<u>X</u>	<u> </u>	<u> </u>
Resolution	<u>X</u>	<u> </u>	<u> </u>
Peak shape	<u>X</u>	<u> </u>	<u> </u>
Attenuation	<u>X</u>	<u> </u>	<u> </u>

Volatile Organics Data Validation Checklist - Page 3

	YES	NO	NA
Are the mass spectra of the identified compounds present?	<u>X</u>	<u> </u>	<u> </u>
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	<u>X</u>	<u> </u>	<u> </u>
Do the samples and standard relative ion intensities agree within 20%?	<u>X</u>	<u> </u>	<u> </u>
<u>Tentatively Identified Compounds</u>			
Are all the TIC summary forms present?	<u>X</u>	<u> </u>	<u> </u>
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?	<u>X</u>	<u> </u>	<u> </u>
Are any target compounds listed as TICs?	<u>X</u>	<u> </u>	<u> </u>
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	<u>X</u>	<u> </u>	<u> </u>
Do the TIC and "best match" spectrum agree within 20%?	<u>X</u>	<u> </u>	<u> </u>
<u>Quantitation and Detection Limits</u>			
Are there any transcription/calculation errors in the Form 1 results?	<u>X</u>	<u> </u>	<u> </u>
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	<u>X</u>	<u> </u>	<u> </u>
<u>Standard Data</u>			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	<u>X</u>	<u> </u>	<u> </u>
<u>Initial Calibration</u>			
Are the initial calibration forms present for each instrument used?	<u>X</u>	<u> </u>	<u> </u>
Are the response factor RSDs within acceptable limits?	<u>X</u>	<u> </u>	<u> </u>
Are the average RRFs equal to or greater than minimum requirements?	<u>X</u>	<u> </u>	<u> </u>
Are there any transcription/calculation errors in reporting the RRFs or RSDs?	<u> </u>	<u>X</u>	<u> </u>

Volatile Organics Data Validation Checklist - Page 4

	YES	NO	NA
<u>Continuing Calibration</u>			
Are the continuing calibration forms present for each day and each instrument?	<u> X </u>	<u> </u>	<u> </u>
Has a continuing calibration standard been analyzed for each twelve hours of analysis per instrument?	<u> X </u>	<u> </u>	<u> </u>
All %D within acceptable limits?	<u> </u>	<u> X </u>	<u> </u>
Are all RF equal to or greater than minimum requirements?	<u> X </u>	<u> </u>	<u> </u>
Are there any transcription/calculation errors in reporting of RF or %D?	<u> </u>	<u> X </u>	<u> </u>
<u>Internal Standards</u>			
Are internal standard areas of every sample and blank within the upper and lower limits for each continuing calibration?	<u> X </u>	<u> </u>	<u> </u>
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	<u> X </u>	<u> </u>	<u> </u>
<u>Field Duplicates</u>			
Were field duplicates submitted with the samples?	<u> X </u>	<u> </u>	<u> </u>

Volatile Qualifier Summary
Holding Time, Surrogates, Internal Standards

Sample ID	Holding Time*	Surrogates*			Internal Standards*		
		TOL	BFB	DCE	DFB	DCB	CBZ
MW-16R							
MW-15S							
MW-17S							
MW-16D							
MW-19D							
TB-01							
MW-23S							
MW-23S DL							
MW-18S							
MW-18S MS							
MW-18S MSD							
MW-11							
GW-DUP-1							
TB-02							
TB-03							
MW-24S							
MW-25S							
TB-04							
RB-01							
MW-22S							
MW-17D							

Surrogates:

TOL Toluene-d8
 BFB Bromofluorobenzene
 DCE 1,2-Dichloroethane-d4

Internal Standards:

DFB 1,4-Difluorobenzene
 DCB 1,4-Dichlorobenzene-d4
 CBZ Chlorobenzene-d5

Qualifiers:

D Diluted
 1 Recovery high
 1 Recovery low
 11 Recovery <25%

* Unless otherwise specified, all parameters are within acceptable limits.

Volatile Calibration Outliers

Instrument: MSB

Matrix: water

Date/Time	7/15/99		7/15/99 1207		7/16/99 1256		7/19/99 1242			
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
chloromethane										
bromomethane										
vinyl chloride										
chloroethane										
methylene chloride						100		65.8		
acetone										
carbon disulfide										
1,1-dichloroethene										
1,1-dichloroethane										
1,2-dichloroethene(total)										
chloroform										
1,2-dichloroethane										
2-butanone										
1,1,1-trichloroethane										
carbon tetrachloride										
bromodichloromethane										
1,2-dichloropropane										
cis-1,3-dichloropropene				29.8				37.5		
trichloroethene										
dibromochloromethane										
1,1,2-trichloroethane										
benzene										
trans-1,3-dichloropropene										
bromoform										
4-methyl-2-pentanone						-25.8				
2-hexanone										
tetrachloroethene										
1,1,2,2-tetrachloroethane										
toluene										
chlorobenzene										
ethylbenzene										

Volatile Calibration Outliers - Page 2

Date/Time	7/15/99		7/15/99 1207		7/16/99 1256		7/19/99 1242			
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
styrene										
xylene (total)										
Affected Samples			TB-01		MW-18S		MW-23SDL			
			MW-15S		MW-18SMS		TB-03			
			MW-16D		MW-18SMSD		MW-24S			
			MW-19D		MW-23S		MW-25S			
			MW-16R		MW-11		TB-04			
			MW-17S		GW-DUP-1		RB-01			
					TB-02		MW-22S			
							MW-17D			

Corrected Sample Analysis Data Sheets

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

GW-DUP-1

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52682-6

Sample wt/vol: 0.5 (g/mL) mL

Lab File ID: BC071611

Level: (low/med) LOW

Date Received: 07/15/99

%Moisture: not dec.

Date Analyzed: 07/16/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 10

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

74-87-3-----	Chloromethane	100	U
74-83-9-----	Bromomethane	100	U
75-01-4-----	Vinyl Chloride	100	U
75-00-3-----	Chloroethane	100	U
75-09-2-----	Methylene Chloride	520	U
67-64-1-----	Acetone	100	U
75-15-0-----	Carbon Disulfide	50	U
75-35-4-----	1,1-Dichloroethene	50	U
75-34-3-----	1,1-Dichloroethane	50	U
540-59-0-----	1,2-Dichloroethene (total)	50	U
67-66-3-----	Chloroform	50	U
107-06-2-----	1,2-Dichloroethane	50	U
78-93-3-----	2-Butanone	83	J
71-55-6-----	1,1,1-Trichloroethane	50	U
56-23-5-----	Carbon Tetrachloride	50	U
75-27-4-----	Bromodichloromethane	50	U
78-87-5-----	1,2-Dichloropropane	50	U
10061-01-5-----	cis-1,3-Dichloropropene	50	U
79-01-6-----	Trichloroethene	50	U
124-48-1-----	Dibromochloromethane	50	U
79-00-5-----	1,1,2-Trichloroethane	50	U
71-43-2-----	Benzene	760	
10061-02-6-----	trans-1,3-Dichloropropene	50	U
75-25-2-----	Bromoform	50	U
108-10-1-----	4-Methyl-2-Pentanone	100	U
591-78-6-----	2-Hexanone	100	U
127-18-4-----	Tetrachloroethene	50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	50	U
108-88-3-----	Toluene	17	J
108-90-7-----	Chlorobenzene	50	U
100-41-4-----	Ethylbenzene	1100	
100-42-5-----	Styrene	50	U
1330-20-7-----	Xylene (total)	230	

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

GW-DUP-1

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52682-6

Sample wt/vol: 0.5 (g/mL) mL

Lab File ID: BC071611

Level: (low/med) LOW

Date Received: 07/15/99

%Moisture: not dec.

Date Analyzed: 07/16/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 10

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C3-Substituted benzene	16.27	160	J
2. 000496-11-7	Indane	17.36	2200	J
3.	Unknown aromatic	17.74	89	J
4.	Unknown aromatic	19.87	98	J
5. 000091-20-3	Naphthalene	20.52	2500	J
6. 000090-12-0	Naphthalene, methyl-	22.38	75	J
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FORM I VOA-TIC

12/91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-11

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52682-5

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071610

Level: (low/med) LOW

Date Received: 07/15/99

%Moisture: not dec.

Date Analyzed: 07/16/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	39	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-11

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52682-5

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071610

Level: (low/med) LOW

Date Received: 07/15/99

%Moisture: not dec.

Date Analyzed: 07/16/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 000091-20-3	Naphthalene	20.52	8	J V
2.				
3.				
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FORM I VOA-TIC

12/91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-15S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52674-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071506

Level: (low/med) LOW

Date Received: 07/14/99

%Moisture: not dec.

Date Analyzed: 07/15/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	14	B
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-15S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52674-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071506

Level: (low/med) LOW

Date Received: 07/14/99

%Moisture: not dec.

Date Analyzed: 07/15/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	No Volatiles Found _____			
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
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27. _____				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-16D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52674-4

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071507

Level: (low/med) LOW

Date Received: 07/14/99

%Moisture: not dec.

Date Analyzed: 07/15/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	34	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-16D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52674-4

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071507

Level: (low/med) LOW

Date Received: 07/14/99

%Moisture: not dec.

Date Analyzed: 07/15/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 001634-04-4	Propane, 2-methoxy-2-methyl-	4.14	13	J
2.				
3.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-16R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52674-1

Sample wt/vol: 0.5 (g/mL) mL

Lab File ID: BC071509

Level: (low/med) LOW

Date Received: 07/14/99

%Moisture: not dec.

Date Analyzed: 07/15/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 10

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

74-87-3-----	Chloromethane	100	U
74-83-9-----	Bromomethane	100	U
75-01-4-----	Vinyl Chloride	100	U
75-00-3-----	Chloroethane	100	U
75-09-2-----	Methylene Chloride	340	B
67-64-1-----	Acetone	100	U
75-15-0-----	Carbon Disulfide	50	U
75-35-4-----	1,1-Dichloroethene	50	U
75-34-3-----	1,1-Dichloroethane	50	U
540-59-0-----	1,2-Dichloroethene (total)	50	U
67-66-3-----	Chloroform	50	U
107-06-2-----	1,2-Dichloroethane	50	U
78-93-3-----	2-Butanone	100	U
71-55-6-----	1,1,1-Trichloroethane	50	U
56-23-5-----	Carbon Tetrachloride	50	U
75-27-4-----	Bromodichloromethane	50	U
78-87-5-----	1,2-Dichloropropane	50	U
10061-01-5-----	cis-1,3-Dichloropropene	50	U
79-01-6-----	Trichloroethene	50	U
124-48-1-----	Dibromochloromethane	50	U
79-00-5-----	1,1,2-Trichloroethane	50	U
71-43-2-----	Benzene	720	
10061-02-6-----	trans-1,3-Dichloropropene	50	U
75-25-2-----	Bromoform	50	U
108-10-1-----	4-Methyl-2-Pentanone	100	U
591-78-6-----	2-Hexanone	100	U
127-18-4-----	Tetrachloroethene	50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	50	U
108-88-3-----	Toluene	130	
108-90-7-----	Chlorobenzene	50	U
100-41-4-----	Ethylbenzene	270	
100-42-5-----	Styrene	50	U
1330-20-7-----	Xylene (total)	250	

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-16R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52674-1

Sample wt/vol: 0.5 (g/mL) mL

Lab File ID: BC071509

Level: (low/med) LOW

Date Received: 07/14/99

%Moisture: not dec.

Date Analyzed: 07/15/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 10

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C3-Substituted benzene	15.49	59	J
2.	C3-Substituted benzene	16.28	52	J
3. 000496-11-7	Indane	17.36	270	J
4.	Unknown aromatic	17.74	220	J
5. 000091-20-3	Naphthalene	20.52	540	J
6.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-17D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52760-6

Sample wt/vol: 1 (g/mL) mL

Lab File ID: BC071912

Level: (low/med) LOW

Date Received: 07/17/99

%Moisture: not dec.

Date Analyzed: 07/19/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 5

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

74-87-3-----	Chloromethane	50	U
74-83-9-----	Bromomethane	50	U
75-01-4-----	Vinyl Chloride	50	U
75-00-3-----	Chloroethane	50	U
75-09-2-----	Methylene Chloride	50	U
67-64-1-----	Acetone	50	U
75-15-0-----	Carbon Disulfide	25	U
75-35-4-----	1,1-Dichloroethene	25	U
75-34-3-----	1,1-Dichloroethane	25	U
540-59-0-----	1,2-Dichloroethene (total)	25	U
67-66-3-----	Chloroform	25	U
107-06-2-----	1,2-Dichloroethane	25	U
78-93-3-----	2-Butanone	50	U
71-55-6-----	1,1,1-Trichloroethane	25	U
56-23-5-----	Carbon Tetrachloride	25	U
75-27-4-----	Bromodichloromethane	25	U
78-87-5-----	1,2-Dichloropropane	25	U
10061-01-5-----	cis-1,3-Dichloropropene	25	U
79-01-6-----	Trichloroethene	25	U
124-48-1-----	Dibromochloromethane	25	U
79-00-5-----	1,1,2-Trichloroethane	25	U
71-43-2-----	Benzene	520	
10061-02-6-----	trans-1,3-Dichloropropene	25	U
75-25-2-----	Bromoform	25	U
108-10-1-----	4-Methyl-2-Pentanone	50	U
591-78-6-----	2-Hexanone	50	U
127-18-4-----	Tetrachloroethene	25	U
79-34-5-----	1,1,2,2-Tetrachloroethane	25	U
108-88-3-----	Toluene	25	U
108-90-7-----	Chlorobenzene	25	U
100-41-4-----	Ethylbenzene	8	J
100-42-5-----	Styrene	25	U
1330-20-7-----	Xylene (total)	9	J

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-17D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52760-6

Sample wt/vol: 1 (g/mL) mL

Lab File ID: BC071912

Level: (low/med) LOW

Date Received: 07/17/99

%Moisture: not dec.

Date Analyzed: 07/19/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 5

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICS found: 7

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C3-Substituted benzene	16.28	31	J
2.	C3-Substituted benzene	17.03	32	J
3. 000496-11-7	Indane	17.37	1500	J
4.	Unknown aromatic	18.40	34	J
5.	Unknown aromatic	19.40	43	J
6.	Unknown aromatic	19.64	58	J
7.	Naphthalene, methyl	22.39	34	J
8.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52674-3

Sample wt/vol: 0.5 (g/mL) mL

Lab File ID: BC071510

Level: (low/med) LOW

Date Received: 07/14/99

%Moisture: not dec.

Date Analyzed: 07/15/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 10

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

CAS NO.

COMPOUND

74-87-3-----	Chloromethane	100	U
74-83-9-----	Bromomethane	100	U
75-01-4-----	Vinyl Chloride	100	U
75-00-3-----	Chloroethane	100	U
75-09-2-----	Methylene Chloride	360	U
67-64-1-----	Acetone	100	U
75-15-0-----	Carbon Disulfide	50	U
75-35-4-----	1,1-Dichloroethene	50	U
75-34-3-----	1,1-Dichloroethane	50	U
540-59-0-----	1,2-Dichloroethene (total)	50	U
67-66-3-----	Chloroform	50	U
107-06-2-----	1,2-Dichloroethane	50	U
78-93-3-----	2-Butanone	100	U
71-55-6-----	1,1,1-Trichloroethane	50	U
56-23-5-----	Carbon Tetrachloride	50	U
75-27-4-----	Bromodichloromethane	50	U
78-87-5-----	1,2-Dichloropropane	50	U
10061-01-5-----	cis-1,3-Dichloropropene	50	U
79-01-6-----	Trichloroethene	50	U
124-48-1-----	Dibromochloromethane	50	U
79-00-5-----	1,1,2-Trichloroethane	50	U
71-43-2-----	Benzene	530	U
10061-02-6-----	trans-1,3-Dichloropropene	50	U
75-25-2-----	Bromoform	50	U
108-10-1-----	4-Methyl-2-Pentanone	100	U
591-78-6-----	2-Hexanone	100	U
127-18-4-----	Tetrachloroethene	50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	50	U
108-88-3-----	Toluene	50	U
108-90-7-----	Chlorobenzene	50	U
100-41-4-----	Ethylbenzene	17	U
100-42-5-----	Styrene	50	U
1330-20-7-----	Xylene (total)	50	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-17S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52674-3

Sample wt/vol: 0.5 (g/mL) mL

Lab File ID: BC071510

Level: (low/med) LOW

Date Received: 07/14/99

%Moisture: not dec.

Date Analyzed: 07/15/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 10

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICS found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000496-11-7	Indane	17.36	2000	J
2. _____	Unknown aromatic _____	19.63	73	J
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____
6. _____	_____	_____	_____	_____
7. _____	_____	_____	_____	_____
8. _____	_____	_____	_____	_____
9. _____	_____	_____	_____	_____
10. _____	_____	_____	_____	_____
11. _____	_____	_____	_____	_____
12. _____	_____	_____	_____	_____
13. _____	_____	_____	_____	_____
14. _____	_____	_____	_____	_____
15. _____	_____	_____	_____	_____
16. _____	_____	_____	_____	_____
17. _____	_____	_____	_____	_____
18. _____	_____	_____	_____	_____
19. _____	_____	_____	_____	_____
20. _____	_____	_____	_____	_____
21. _____	_____	_____	_____	_____
22. _____	_____	_____	_____	_____
23. _____	_____	_____	_____	_____
24. _____	_____	_____	_____	_____
25. _____	_____	_____	_____	_____
26. _____	_____	_____	_____	_____
27. _____	_____	_____	_____	_____
28. _____	_____	_____	_____	_____
29. _____	_____	_____	_____	_____
30. _____	_____	_____	_____	_____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-18S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52682-2

Sample wt/vol: 80.5 (g/mL) mL

Lab File ID: BC071606

Level: (low/med) LOW

Date Received: 07/15/99

%Moisture: not dec.

Date Analyzed: 07/16/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 10

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	100	U
75-09-2	Methylene Chloride	500	U
67-64-1	Acetone	100	U
75-15-0	Carbon Disulfide	50	U
75-35-4	1,1-Dichloroethene	50	U
75-34-3	1,1-Dichloroethane	50	U
540-59-0	1,2-Dichloroethene (total)	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	50	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon Tetrachloride	50	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	50	U
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	810	U
10061-02-6	trans-1,3-Dichloropropene	50	U
75-25-2	Bromoform	50	U
108-10-1	4-Methyl-2-Pentanone	100	U
591-78-6	2-Hexanone	100	U
127-18-4	Tetrachloroethene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-88-3	Toluene	20	J
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	1100	U
100-42-5	Styrene	50	U
1330-20-7	Xylene (total)	240	

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-18S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52682-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071606

Level: (low/med) LOW

Date Received: 07/15/99

%Moisture: not dec.

Date Analyzed: 07/16/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000108-87-2	Cyclohexane, methyl-	8.55	8	J
2. _____	C3-substituted benzene	16.27	17	J
3. 000496-11-7	Indane	17.36	220	J
4. _____	Unknown aromatic	17.73	9	J
5. _____	Unknown aromatic	19.87	9	J
6. 000091-20-3	Naphthalene	20.52	210	J
7. _____	_____	_____	_____	_____
8. _____	_____	_____	_____	_____
9. _____	_____	_____	_____	_____
10. _____	_____	_____	_____	_____
11. _____	_____	_____	_____	_____
12. _____	_____	_____	_____	_____
13. _____	_____	_____	_____	_____
14. _____	_____	_____	_____	_____
15. _____	_____	_____	_____	_____
16. _____	_____	_____	_____	_____
17. _____	_____	_____	_____	_____
18. _____	_____	_____	_____	_____
19. _____	_____	_____	_____	_____
20. _____	_____	_____	_____	_____
21. _____	_____	_____	_____	_____
22. _____	_____	_____	_____	_____
23. _____	_____	_____	_____	_____
24. _____	_____	_____	_____	_____
25. _____	_____	_____	_____	_____
26. _____	_____	_____	_____	_____
27. _____	_____	_____	_____	_____
28. _____	_____	_____	_____	_____
29. _____	_____	_____	_____	_____
30. _____	_____	_____	_____	_____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-19D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52674-5

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071508

Level: (low/med) LOW

Date Received: 07/14/99

%Moisture: not dec.

Date Analyzed: 07/15/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	110	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-19D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52674-5

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071508

Level: (low/med) LOW

Date Received: 07/14/99

%Moisture: not dec.

Date Analyzed: 07/15/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	No Volatiles Found _____			
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-22S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52760-4

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071911

Level: (low/med) LOW

Date Received: 07/17/99

%Moisture: not dec.

Date Analyzed: 07/19/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-22S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52760-4

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071911

Level: (low/med) LOW

Date Received: 07/17/99

%Moisture: not dec.

Date Analyzed: 07/19/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	No Volatiles Found _____			
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-23S

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L52645

Matrix: (soil/water) Water Lab Sample ID: L52682-1

Sample wt/vol: 5 (g/mL) mL Lab File ID: BC071609

Level: (low/med) LOW Date Received: 07/15/99

%Moisture: not dec. Date Analyzed: 07/16/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	41	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	450	U
10061-02-6	-----trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	2	J
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	6	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Xylene (total)	4	J

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-23S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52682-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071609

Level: (low/med) LOW

Date Received: 07/15/99

%Moisture: not dec.

Date Analyzed: 07/16/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C3-Substituted benzene	14.54	52	J
2.	C3-Substituted benzene	15.96	22	J
3.	C3-Substituted benzene	17.03	36	J
4. 000496-11-7	Indane	17.37	1600	J
5.	Unknown aromatic	18.40	74	J
6.	Unknown aromatic	19.39	83	J
7.	Unknown aromatic	19.62	120	J
8.	Unknown aromatic	19.87	35	J
9. 000091-20-3	Naphthalene	20.52	26	J
10.	Naphthalene, methyl	22.37	43	J
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC

12/91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-23SDL

Lab Code: Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52682-1DL

Sample wt/vol: 1 (g/mL) mL

Lab File ID: BC071904

Level: (low/med) LOW

Date Received: 07/15/99

%Moisture: not dec.

Date Analyzed: 07/19/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 5

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	100	U
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	25	U
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-Dichloroethene (total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-Dichloroethane	25	U
78-93-3	2-Butanone	50	U
71-55-6	1,1,1-Trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-Dichloropropane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-Trichloroethane	25	U
71-43-2	Benzene	620	D
10061-02-6	trans-1,3-Dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
108-88-3	Toluene	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	6	JD
100-42-5	Styrene	25	U
1330-20-7	Xylene (total)	6	JD

FORM I CLP VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-24S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52751-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071907

Level: (low/med) LOW

Date Received: 07/16/99

%Moisture: not dec.

Date Analyzed: 07/19/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	40	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-24S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52751-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071907

Level: (low/med) LOW

Date Received: 07/16/99

%Moisture: not dec.

Date Analyzed: 07/19/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 001634-04-4	Propane, 2-methoxy-2-methyl-	4.16	6	J
2. 000496-11-7	Indane	17.37	5	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-25S

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L52645

Matrix: (soil/water) Water Lab Sample ID: L52751-3

Sample wt/vol: 5 (g/mL) mL Lab File ID: BC071908

Level: (low/med) LOW Date Received: 07/16/99

%Moisture: not dec. Date Analyzed: 07/19/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	7	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-25S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52751-3

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071908

Level: (low/med) LOW

Date Received: 07/16/99

%Moisture: not dec.

Date Analyzed: 07/19/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	No Volatiles Found _____			
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
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9. _____				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RB-01

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52760-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071910

Level: (low/med) LOW

Date Received: 07/17/99

%Moisture: not dec.

Date Analyzed: 07/19/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	8	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

RB-01

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L52645

Matrix: (soil/water) Water Lab Sample ID: L52760-2

Sample wt/vol: 5 (g/mL) mL Lab File ID: BC071910

Level: (low/med) LOW Date Received: 07/17/99

%Moisture: not dec. Date Analyzed: 07/19/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICS found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	No Volatiles Found _____			
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52674-6

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071505

Level: (low/med) LOW

Date Received: 07/14/99

%Moisture: not dec.

Date Analyzed: 07/15/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	16	B
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

TRIP BLANK

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52674-6

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071505

Level: (low/med) LOW

Date Received: 07/14/99

%Moisture: not dec.

Date Analyzed: 07/15/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	No Volatiles Found _____			
2. _____				
3. _____				
4. _____				
5. _____				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

TB-02

Lab Code: Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52682-7

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071612

Level: (low/med) LOW

Date Received: 07/15/99

%Moisture: not dec.

Date Analyzed: 07/16/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	46	BJ
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

TB-02

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52682-7

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071612

Level: (low/med) LOW

Date Received: 07/15/99

%Moisture: not dec.

Date Analyzed: 07/16/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 000091-20-3	Naphthalene	20.52	10	J
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-03

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52751-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071906

Level: (low/med) LOW

Date Received: 07/16/99

%Moisture: not dec.

Date Analyzed: 07/19/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	43	U BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

TB-03

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52751-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071906

Level: (low/med) LOW

Date Received: 07/16/99

%Moisture: not dec.

Date Analyzed: 07/19/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 000091-20-3	Naphthalene	20.53	6	J
2.				
3.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-04

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52760-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071909

Level: (low/med) LOW

Date Received: 07/17/99

%Moisture: not dec.

Date Analyzed: 07/19/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	8	B
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

TB-04

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) Water

Lab Sample ID: L52760-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: BC071909

Level: (low/med) LOW

Date Received: 07/17/99

%Moisture: not dec.

Date Analyzed: 07/19/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	No Volatiles Found _____			
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

SEMIVOLATILE ANALYSES

Introduction

Analyses were performed according to EPA SW-846 Method 8270 as referenced in the NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The method specified holding times for semivolatile analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times are 7 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, and rinse blanks) are prepared to identify any contamination which may have been introduced in to the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

No target compounds were detected in the rinse blank.

Bis(2-ethylhexyl)phthalate was detected in method blank SBLK WG16705. Based on blank content, data for bis(2-ethylhexyl)phthalate has been qualified as undetected in samples MW-15S, MW-16R, MW-16DL and MW-17S. Bis(2-ethylhexyl)phthalate was also detected at low levels in samples MW-11, MW-19D, MW-23S, MW-24S and MW-25S. Although not detected in the associated blanks, the presence of bis(2-ethylhexyl)phthalate in these samples should be considered highly suspect.

In addition to the target compound listed above, several non-target compounds were detected in the method blank. When common to the blank and samples, their presence in the samples have been rejected.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) limits for select compounds only and allows four outliers. A technical review of the data applies limits to all compounds with no exceptions.

The %RSD for was less than 30% and the response factors were greater than 0.05 for all compounds.

4.2 Continuing Calibration

The response for several compounds in the continuing calibration standards were outside 25% difference (%D) of the initial calibration, as summarized on the attached calibration summary sheets. All data for compounds with decreasing responses and all positive data for compounds with increasing responses have been qualified as estimated.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

Recoveries for two or more acid fraction surrogates and two or more base/neutral fraction surrogates were above control limits in samples RB-01, MW-22S and MW-18S-MS. All positive data for these samples have been qualified as estimated based on the recoveries.

Recoveries for two base/neutral surrogates were above control limits in samples MW-22S. All positive base/neutral compound data for the sample have been qualified as estimated based on the recoveries.

Recoveries for two acid fraction surrogates were above control limits in sample MW-11. All positive acid compound data for the sample have been qualified as estimated based on the recoveries.

Recovery for one acid fraction and/or one base/neutral fraction surrogate was above control limits in samples MW-23S and MW-18S-MSD. Since recoveries for the remaining surrogates were within control limits, no data have been qualified based on the deviations.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every experimental run.

Responses for one or more internal standards were below established limits in samples RB-01 and MW-22S. Data for compounds quantitated under the noncompliant standards have been either qualified as estimated or rejected, depending on the severity of the deviations. The responses for two internal standards were above established limits in sample GW-DUP-01. All positive data for compounds quantitated under the noncompliant standards have been qualified as estimated based on the derivations. All other internal standard responses and retention times were within established limits.

7. Compound Identification

Compounds are identified on the GC/MS by using the analyte's relative retention time and ion spectra.

All identified compounds met the specified criteria.

8. Matrix Spike/Matrix Spike Duplicate

Matrix spike, matrix spike duplicate data are used to assess the precision and accuracy of the analytical method.

Recoveries for seven compounds were above control limits in the matrix spike and recoveries for five compounds were above control limits in the matrix spike duplicate. In addition, the relative percent difference between recoveries was above control limits for one compound. No data have been qualified based on matrix spike performance alone.

9. Matrix Spike Blank

With the exception of 4-nitrophenol, all matrix spike blank recoveries were within control limits. Since no 4-nitrophenol was detected in any of the samples, no data have been qualified based on the recovery.

10. Field Duplicate

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-18S / GW-DUP-1	Naphthalene	5100	4800	6.0%
	2-Methylnaphthalene	140 J	160 J	13.0%
	Acenaphthene	210 J	180 J	15.0%
	Fluorene	27 J	ND	NA

ND Not detected.

NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are acceptable.

11. General Comments

The temperatures for four of the five coolers were outside control limits (at 10.0, 13.4, 10.0 and 9.0°C) when received at the laboratory. No data have been qualified based on the deviations.

°

12. System Performance and Overall Assessment

Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

Semi-Volatile Organics Data Validation Checklist

	YES	NO	NA
<u>Data Completeness and Deliverables</u>			
Have any missing deliverables been received and added to the data package?	<u> </u>	<u> X </u>	<u> </u>
Is there a narrative or cover letter present?	<u> X </u>	<u> </u>	<u> </u>
Are the sample numbers included in the narrative?	<u> </u>	<u> X </u>	<u> </u>
Are the sample chain-of-custodies present?	<u> X </u>	<u> </u>	<u> </u>
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	<u> X </u>	<u> </u>	<u> </u>
<u>Holding Times</u>			
Have any holding times been exceeded?	<u> </u>	<u> X </u>	<u> </u>
<u>Surrogate Recovery</u>			
Are the surrogate recovery forms present?	<u> X </u>	<u> </u>	<u> </u>
Are all the samples listed on the appropriate surrogate recovery form?	<u> X </u>	<u> </u>	<u> </u>
Were two or more base-neutral or acid surrogate recoveries outside of specified limits for any sample or blank?	<u> X </u>	<u> </u>	<u> </u>
If yes, were the samples reanalyzed?	<u> </u>	<u> X </u>	<u> </u>
Are there any transcription/calculation errors between the raw data and the summary form?	<u> </u>	<u> X </u>	<u> </u>
<u>Matrix Spikes</u>			
Is there a matrix spike recovery form present?	<u> X </u>	<u> </u>	<u> </u>
Were matrix spikes analyzed at the required frequency	<u> X </u>	<u> </u>	<u> </u>
How many spike recoveries were outside of QC limits?			
<u> 12 </u> out of <u> 22 </u>			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
<u> 1 </u> out of <u> 11 </u>			
<u>Blanks</u>			
Is the method blank summary form present?	<u> X </u>	<u> </u>	<u> </u>
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	<u> X </u>	<u> </u>	<u> </u>

Semi-Volatile Organics Data Validation Checklist - Page 2

	YES	NO	NA
Has a blank been analyzed for each GC/MS system used?	<u>X</u>	<u> </u>	<u> </u>
Do any method blanks have positive results?	<u>X</u>	<u> </u>	<u> </u>
Do any field/rinse blanks have positive results?	<u> </u>	<u>X</u>	<u> </u>
Are there field/rinse blanks associated with every sample?	<u>X</u>	<u> </u>	<u> </u>
<u>Tuning and Mass Calibration</u>			
Are the GC/MS tuning forms present for DFTPP?	<u>X</u>	<u> </u>	<u> </u>
Are the bar graph spectrum and mass/charge listing provided for each DFTPP?	<u>X</u>	<u> </u>	<u> </u>
Has a DFTPP been analyzed for each twelve hours of analysis per instrument?	<u>X</u>	<u> </u>	<u> </u>
Have the ion abundance criteria been met for each instrument used?	<u>X</u>	<u> </u>	<u> </u>
<u>Target Analytes</u>			
Is an organics analysis data sheet present for each of the following:			
Samples	<u>X</u>	<u> </u>	<u> </u>
Matrix spikes	<u>X</u>	<u> </u>	<u> </u>
Blanks	<u>X</u>	<u> </u>	<u> </u>
Are the reconstructed ion chromatograms present for each of the following:			
Samples	<u>X</u>	<u> </u>	<u> </u>
Matrix spikes	<u>X</u>	<u> </u>	<u> </u>
Blanks	<u>X</u>	<u> </u>	<u> </u>
Is the chromatographic performance acceptable with respect to:			
Baseline stability	<u>X</u>	<u> </u>	<u> </u>
Resolution	<u>X</u>	<u> </u>	<u> </u>
Peak shape	<u>X</u>	<u> </u>	<u> </u>
Attenuation	<u>X</u>	<u> </u>	<u> </u>
Are the mass spectra of the identified compounds present?	<u>X</u>	<u> </u>	<u> </u>

Semi-Volatile Organics Data Validation Checklist - Page 3

	YES	NO	NA
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	<u>X</u>	<u> </u>	<u> </u>
Do the samples and standard relative ion intensities agree within 20%?	<u>X</u>	<u> </u>	<u> </u>
<u>Tentatively Identified Compounds</u>			
Are all the TIC summary forms present?	<u>X</u>	<u> </u>	<u> </u>
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?	<u>X</u>	<u> </u>	<u> </u>
Are any target compounds listed as TICs?	<u>X</u>	<u> </u>	<u> </u>
Are all ion present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	<u>X</u>	<u> </u>	<u> </u>
Do the TIC and "best match" spectrum agree within 20%?	<u>X</u>	<u> </u>	<u> </u>
<u>Quantitation and Detection Limits</u>			
Are there any transcription/calculation errors in the Form 1 results?	<u> </u>	<u>X</u>	<u> </u>
Are the reporting limits adjusted to reflect sample dilutions, and for soils, sample moisture?	<u>X</u>	<u> </u>	<u> </u>
<u>Standard Data</u>			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	<u>X</u>	<u> </u>	<u> </u>
<u>Initial Calibration</u>			
Are the initial calibration forms present for each instrument used?	<u>X</u>	<u> </u>	<u> </u>
Are the response factor RSDs within acceptable limits?	<u>X</u>	<u> </u>	<u> </u>
Are the average RRF equal to or greater than minimum requirements?	<u>X</u>	<u> </u>	<u> </u>
Are there any transcription/calculation error in reporting the RRF or RSD?	<u> </u>	<u>X</u>	<u> </u>

Semi-Volatile Organics Data Validation Checklist - Page 4

	YES	NO	NA
<u>Continuing Calibration</u>			
Are the continuing calibration forms present for each day and each instrument?	<u>X</u>	<u> </u>	<u> </u>
Has a continuing calibration standard been analyzed for each twelve hours of analysis per instrument?	<u>X</u>	<u> </u>	<u> </u>
All %D within acceptable limits?	<u> </u>	<u>X</u>	<u> </u>
Are all RF equal to or greater than minimum requirements?	<u>X</u>	<u> </u>	<u> </u>
Are there any transcription/calculation errors in reporting of RF or %D?	<u> </u>	<u>X</u>	<u> </u>
<u>Internal Standards</u>			
Are internal standard areas of every samples and blank within the upper and lower limits for each continuing calibration?	<u> </u>	<u>X</u>	<u> </u>
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	<u>X</u>	<u> </u>	<u> </u>
<u>Field Duplicates</u>			
Were field duplicates submitted with the samples?	<u>X</u>	<u> </u>	<u> </u>

[illegible]

NBZ	Nitrobenzene-d5
FBP	2-Fluorobiphenyl
TPH	Terphenyl-d14
DCB	1,2-Dichlorobenzene-d4
PHL	Phenol-d6
2FP	2-Fluorophenol
TBP	2,4,6-Tribromophenol
2CP	2-Chlorophenol-d4

DCB	1,4-Dichlorobenzene-d4
NPT	Naphthalene-d8
ANT	Acenaphthene-d10
PHN	Phenanthrene-d10
CRY	Chrysene-d12
PRY	Perylene-d12

D	Diluted
I	Recovery low
I	Recovery high
na	not applicable

vjt2005

Semivolatiie Calibration Outliers

Instrument: MS E

Date/Time	8/4/99		8/10/99 2233		8/12/99 0105					
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Phenol										
bis(2-Chloroethyl)ether										
2-Chlorophenol										
1,3-Dichlorobenzene										
1,4-Dichlorobenzene										
1,2-Dichlorobenzene										
Benzyl Alcohol				26.1		35.6				
2-Methylphenol										
2,2'oxybis(1-Chloropropane)				37.3		31.9				
4-Methylphenol										
N-Nitroso-di-n-propylamine										
Hexachloroethane										
Nitrobenzene										
Isophorone										
2-Nitrophenol										
2,4-Dimethylphenol										
bis(2-Chloroethoxy)methane										
Benzoic Acid										
2,4-Dichlorophenol										
1,2,4-Trichlorobenzene										
Naphthalene										
4-Chloroaniline										
Hexachlorobutadiene										
4-Chloro-3-methylphenol										
2-Methylnaphthalene										
Hexachlorocyclopentadiene						-32.5				
2,4,6-Trichlorophenol										
2,4,5-Trichlorophenol										
2-Chloronaphthalene										
2-Nitroaniline										
Dimethyl phthalate										
Acenaphthylene										
2,6-Dinitrotoluene										
3-Nitroaniline										
Acenaphthene										

Semivolatile Calibration Outliers - Page 2

Date/Time	8/4/99		8/10/99 2233		8/12/99 0105					
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
2,4-Dinitrophenol				-31.6		-41.8				
4-Nitrophenol										
Dibenzofuran										
2,4-Dinitrotoluene										
Diethylphthalate										
Fluorene										
4-Chlorophenyl-phenylether										
4,6-Dinitro-2-methylphenol										
N-Nitrosodiphenylamine										
4-Bromophenyl-phenylether										
Hexachlorobenzene										
Pentachlorophenol										
Phenanthrene										
Anthracene										
Di-n-butylphthalate										
Fluoranthene										
Pyrene										
Butylbenzylphthalate										
Benzo(a)anthracene										
3,3'-Dichlorobenzidine				37.5						
Chrysene										
bis(2-ethylhexyl)phthalate										
Di-n-octylphthalate										
Benzo(b)fluoranthene										
Benzo(k)fluoranthene										
Benzo(a)pyrene										
Indeno(1,2,3-cd)pyrene										
Dibenz(a,h)anthracene										
Benzo(g,h,i)perylene										
Affected Samples:						MW-19D				
						MW-16D				
						MW-16R				
						MW-15S				
						MW-17S				

Semivolatile Calibration Outliers - Page 3

Instrument: MS E

Date/Time	8/12/99		8/13/99 1520		8/16/99 930		8/17/99 1031		8/17/99 2244	
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Phenol										
bis(2-Chloroethyl)ether										
2-Chlorophenol										
1,3-Dichlorobenzene										
1,4-Dichlorobenzene										
1,2-Dichlorobenzene										
Benzyl Alcohol						-26.2		-27.0		
2-Methylphenol										
2,2'oxybis(1-Chloropropane)										
4-Methylphenol										
N-Nitroso-di-n-propylamine										
Hexachloroethane										
Nitrobenzene										
Isophorone										
2-Nitrophenol										
2,4-Dimethylphenol										
bis(2-Chloroethoxy)methane										
Benzoic Acid										
2,4-Dichlorophenol										
1,2,4-Trichlorobenzene										
Naphthalene										
4-Chloroaniline						-36.4		-27.7		-26.6
Hexachlorobutadiene										
4-Chloro-3-methylphenol										
2-Methylnaphthalene										
Hexachlorocyclopentadiene				-40.9						-37.0
2,4,6-Trichlorophenol										
2,4,5-Trichlorophenol										
2-Chloronaphthalene										
2-Nitroaniline										
Dimethyl phthalate										
Acenaphthylene										
2,6-Dinitrotoluene										
3-Nitroaniline						-27.0				-29.0
Acenaphthene										

Semivolatile Calibration Outliers - Page 4

Date/Time	8/12/99		8/13/99 1520		8/16/99 930		8/17/99 1031		8/17/99 2244	
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
2,4-Dinitrophenol								-30.5		
4-Nitrophenol										
Dibenzofuran										
2,4-Dinitrotoluene										
Diethylphthalate										
Fluorene										
4-Chlorophenyl-phenylether										
4,6-Dinitro-2-methylphenol								-26.8		
N-Nitrosodiphenylamine										
4-Bromophenyl-phenylether										
Hexachlorobenzene										
Pentachlorophenol										
Phenanthrene										
Anthracene										
Di-n-butylphthalate										
Fluoranthene										
Pyrene										
Butylbenzylphthalate										
Benzo(a)anthracene										
3,3'-Dichlorobenzidine						-37.7		-38.0		-49.3
Chrysene										
bis(2-ethylhexyl)phthalate										
Di-n-octylphthalate						32.9				43.9
Benzo(b)fluoranthene										
Benzo(k)fluoranthene										
Benzo(a)pyrene										-59.4
Indeno(1,2,3-cd)pyrene						-39.6		-34.4		-42.7
Dibenz(a,h)anthracene						-42.5		-39.9		-45.4
Benzo(g,h,i)perylene						-40.3		-33.7		-69.9
Affected Samples:			MW-16RDL		RB-01		MW-11		MW-18S	
			MW-23S		MW-22S		GW-DUP-1			
			MW-18SMS				MW-25S			
			MW-18SMSD							

Semivolatile Calibration Outliers - Page 5

Instrument: MS E

Date/Time	8/19/99 1255									
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Phenol										
bis(2-Chloroethyl)ether										
2-Chlorophenol										
1,3-Dichlorobenzene										
1,4-Dichlorobenzene										
1,2-Dichlorobenzene										
Benzyl Alcohol				32.5						
2-Methylphenol										
2,2'oxybis(1-Chloropropane)										
4-Methylphenol										
N-Nitroso-di-n-propylamine				40.9						
Hexachloroethane										
Nitrobenzene										
Isophorone										
2-Nitrophenol										
2,4-Dimethylphenol										
bis(2-Chloroethoxy)methane										
Benzoic Acid										
2,4-Dichlorophenol										
1,2,4-Trichlorobenzene										
Naphthalene										
4-Chloroaniline										
Hexachlorobutadiene										
4-Chloro-3-methylphenol				29.8						
2-Methylnaphthalene										
Hexachlorocyclopentadiene				-57.1						
2,4,6-Trichlorophenol										
2,4,5-Trichlorophenol										
2-Chloronaphthalene										
2-Nitroaniline										
Dimethyl phthalate										
Acenaphthylene										
2,6-Dinitrotoluene										
3-Nitroaniline										
Acenaphthene										

Semivolatile Calibration Outliers - Page 6

Date/Time			8/19/99 1255							
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
2,4-Dinitrophenol				-29.9						
4-Nitrophenol										
Dibenzofuran										
2,4-Dinitrotoluene										
Diethylphthalate				32.3						
Fluorene										
4-Chlorophenyl-phenylether										
4,6-Dinitro-2-methylphenol				-26.1						
N-Nitrosodiphenylamine										
4-Bromophenyl-phenylether										
Hexachlorobenzene										
Pentachlorophenol										
Phenanthrene										
Anthracene										
Di-n-butylphthalate										
Fluoranthene										
Pyrene				32.5						
Butylbenzylphthalate				52.7						
Benzo(a)anthracene										
3,3'-Dichlorobenzidine										
Chrysene										
bis(2-ethylhexyl)phthalate				64.8						
Di-n-octylphthalate				72.6						
Benzo(b)fluoranthene										
Benzo(k)fluoranthene										
Benzo(a)pyrene										
Indeno(1,2,3-cd)pyrene										
Dibenz(a,h)anthracene										
Benzo(g,h,i)perylene				88.2						
Affected Samples:			MW-18SDL							

Semivolatile Calibration Outliers - Page 7

Instrument: MS E

Date/Time	8/23/99		8/23/99 1012		8/24/99 1417					
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Phenol										
bis(2-Chloroethyl)ether										
2-Chlorophenol										
1,3-Dichlorobenzene										
1,4-Dichlorobenzene										
1,2-Dichlorobenzene										
Benzyl Alcohol										
2-Methylphenol										
2,2'oxybis(1-Chloropropane)										
4-Methylphenol										
N-Nitroso-di-n-propylamine										
Hexachloroethane										
Nitrobenzene										
Isophorone										
2-Nitrophenol										
2,4-Dimethylphenol										
bis(2-Chloroethoxy)methane										
Benzoic Acid										
2,4-Dichlorophenol										
1,2,4-Trichlorobenzene										
Naphthalene										
4-Chloroaniline										
Hexachlorobutadiene										
4-Chloro-3-methylphenol										
2-Methylnaphthalene										
Hexachlorocyclopentadiene										
2,4,6-Trichlorophenol										
2,4,5-Trichlorophenol										
2-Chloronaphthalene										
2-Nitroaniline										
Dimethyl phthalate										
Acenaphthylene										
2,6-Dinitrotoluene										
3-Nitroaniline										
Acenaphthene										

Semivolatili Calibration Outliers - Page 8

Date/Time	8/23/99		8/23/99 1012		8/24/99 1417					
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
2,4-Dinitrophenol										
4-Nitrophenol										
Dibenzofuran										
2,4-Dinitrotoluene										
Diethylphthalate										
Fluorene										
4-Chlorophenyl-phenylether										
4,6-Dinitro-2-methylphenol										
N-Nitrosodiphenylamine										
4-Bromophenyl-phenylether										
Hexachlorobenzene										
Pentachlorophenol										
Phenanthrene										
Anthracene										
Di-n-butylphthalate										
Fluoranthene										
Pyrene										
Butylbenzylphthalate										
Benzo(a)anthracene										
3,3'-Dichlorobenzidine						-31.8				
Chrysene										
bis(2-ethylhexyl)phthalate										
Di-n-octylphthalate										
Benzo(b)fluoranthene										
Benzo(k)fluoranthene										
Benzo(a)pyrene										
Indeno(1,2,3-cd)pyrene										
Dibenz(a,h)anthracene										
Benzo(g,h,i)perylene										
Affected Samples:			MW-23SDL		MW-17D					
			GWDUP1DL							
			MW-24S							

Corrected Sample Analysis Data Sheets

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-DUP-1

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-6

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081704

Level: (low/med) LOW

Date Received: 07/15/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/17/99

Injection Volume: 1.0 (uL)

Dilution Factor: 25.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

108-95-2	Phenol	250	U
111-44-4	bis(2-Chloroethyl) ether	250	U
95-57-8	2-Chlorophenol	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
100-51-6	Benzyl alcohol	250	U
95-48-7	2-Methylphenol	250	U
108-60-1	2,2'-oxybis(1-Chloropropane)	250	U
106-44-5	4-Methylphenol	250	U
621-64-7	N-Nitroso-di-n-propylamine	250	U
67-72-1	Hexachloroethane	250	U
98-95-3	Nitrobenzene	250	U
78-59-1	Isophorone	250	U
88-75-5	2-Nitrophenol	250	U
105-67-9	2,4-Dimethylphenol	250	U
111-91-1	bis(2-Chloroethoxy) methane	250	U
65-85-0	Benzoic acid	620	U
120-83-2	2,4-Dichlorophenol	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
91-20-3	Naphthalene	4800	U
106-47-8	4-Chloroaniline	250	U
87-68-3	Hexachlorobutadiene	250	U
59-50-7	4-Chloro-3-methylphenol	250	U
91-57-6	2-Methylnaphthalene	160	J
77-47-4	Hexachlorocyclopentadiene	250	U
88-06-2	2,4,6-Trichlorophenol	250	U
95-95-4	2,4,5-Trichlorophenol	250	U
91-58-7	2-Chloronaphthalene	250	U
88-74-4	2-Nitroaniline	620	U
131-11-3	Dimethylphthalate	250	U
208-96-8	Acenaphthylene	250	U
606-20-2	2,6-Dinitrotoluene	250	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-DUP-1

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L52645

Matrix: (soil/water) WATER Lab Sample ID: L52682-6

Sample wt/vol: 1000 (g/mL) mL Lab File ID: EC081704

Level: (low/med) LOW Date Received: 07/15/99

% Moisture: decanted: (Y/N) N Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/17/99

Injection Volume: 1.0 (uL) Dilution Factor: 25.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND	Q
99-09-2-----	3-Nitroaniline	U
83-32-9-----	Acenaphthene	J
51-28-5-----	2,4-Dinitrophenol	U
100-02-7-----	4-Nitrophenol	U
132-64-9-----	Dibenzofuran	U
121-14-2-----	2,4-Dinitrotoluene	U
84-66-2-----	Diethylphthalate	U
86-73-7-----	Fluorene	U
7005-72-3-----	4-Chlorophenyl-phenylether	U
534-52-1-----	4,6-Dinitro-2-methylphenol	U
86-30-6-----	N-Nitrosodiphenylamine	U
101-55-3-----	4-Bromophenyl-phenylether	U
118-74-1-----	Hexachlorobenzene	U
87-86-5-----	Pentachlorophenol	U
85-01-8-----	Phenanthrene	U
120-12-7-----	Anthracene	U
84-74-2-----	Di-n-butylphthalate	U
206-44-0-----	Fluoranthene	U
129-00-0-----	Pyrene	U
85-68-7-----	Butylbenzylphthalate	U
56-55-3-----	Benzo(a)anthracene	U
91-94-1-----	3,3'-Dichlorobenzidine	U
218-01-9-----	Chrysene	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	U
117-84-0-----	Di-n-octylphthalate	U
205-99-2-----	Benzo(b)fluoranthene	U
207-08-9-----	Benzo(k)fluoranthene	U
50-32-8-----	Benzo(a)pyrene	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	U
53-70-3-----	Dibenzo(a,h)anthracene	U
191-24-2-----	Benzo(g,h,i)perylene	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

GW-DUP-1

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-6

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081704

Level: (low/med) LOW

Date Received: 07/15/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/17/99

Injection Volume: 1.0 (uL)

Dilution Factor: 25.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000100-41-4	Ethylbenzene	11.13	850	J
2.	Substituted Benzene	12.14	120	J
3.	Substituted Benzene	15.03	120	J
4. 000095-15-8	Benzo[b]thiophene	19.15	100	J
5. 90-12-0	Substituted Naphthalene	20.78	220	J
6.	1-methyl naphthalene			
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-DUP-1 DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-6DL

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082308

Level: (low/med) LOW

Date Received: 07/15/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/23/99

Injection Volume: 1.0 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND	Q
108-95-2	Phenol	U
111-44-4	bis(2-Chloroethyl) ether	U
95-57-8	2-Chlorophenol	U
541-73-1	1,3-Dichlorobenzene	U
106-46-7	1,4-Dichlorobenzene	U
95-50-1	1,2-Dichlorobenzene	U
100-51-6	Benzyl alcohol	U
95-48-7	2-Methylphenol	U
108-60-1	2,2'-oxybis(1-Chloropropane)	U
106-44-5	4-Methylphenol	U
621-64-7	N-Nitroso-di-n-propylamine	U
67-72-1	Hexachloroethane	U
98-95-3	Nitrobenzene	U
78-59-1	Isophorone	U
88-75-5	2-Nitrophenol	U
105-67-9	2,4-Dimethylphenol	U
111-91-1	bis(2-Chloroethoxy) methane	U
65-85-0	Benzoic acid	U
120-83-2	2,4-Dichlorophenol	U
120-82-1	1,2,4-Trichlorobenzene	U
91-20-3	Naphthalene	5400 D
106-47-8	4-Chloroaniline	U
87-68-3	Hexachlorobutadiene	U
59-50-7	4-Chloro-3-methylphenol	U
91-57-6	2-Methylnaphthalene	120 JD
77-47-4	Hexachlorocyclopentadiene	U
88-06-2	2,4,6-Trichlorophenol	U
95-95-4	2,4,5-Trichlorophenol	U
91-58-7	2-Chloronaphthalene	U
88-74-4	2-Nitroaniline	1200 U
131-11-3	Dimethylphthalate	U
208-96-8	Acenaphthylene	U
606-20-2	2,6-Dinitrotoluene	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-DUP-1 DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-6DL

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082308

Level: (low/med) LOW

Date Received: 07/15/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/23/99

Injection Volume: 1.0 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	1200	U
83-32-9-----	Acenaphthene	170	JD
51-28-5-----	2,4-Dinitrophenol	1200	U
100-02-7-----	4-Nitrophenol	1200	U
132-64-9-----	Dibenzofuran	500	U
121-14-2-----	2,4-Dinitrotoluene	500	U
84-66-2-----	Diethylphthalate	500	U
86-73-7-----	Fluorene	500	U
7005-72-3-----	4-Chlorophenyl-phenylether	500	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1200	U
86-30-6-----	N-Nitrosodiphenylamine	500	U
101-55-3-----	4-Bromophenyl-phenylether	500	U
118-74-1-----	Hexachlorobenzene	500	U
87-86-5-----	Pentachlorophenol	1200	U
85-01-8-----	Phenanthrene	500	U
120-12-7-----	Anthracene	500	U
84-74-2-----	Di-n-butylphthalate	500	U
206-44-0-----	Fluoranthene	500	U
129-00-0-----	Pyrene	500	U
85-68-7-----	Butylbenzylphthalate	500	U
56-55-3-----	Benzo(a)anthracene	500	U
91-94-1-----	3,3'-Dichlorobenzidine	1000	U
218-01-9-----	Chrysene	500	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	500	U
117-84-0-----	Di-n-octylphthalate	500	U
205-99-2-----	Benzo(b)fluoranthene	500	U
207-08-9-----	Benzo(k)fluoranthene	500	U
50-32-8-----	Benzo(a)pyrene	500	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	500	U
53-70-3-----	Dibenzo(a,h)anthracene	500	U
191-24-2-----	Benzo(g,h,i)perylene	500	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-11

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-5

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081703

Level: (low/med) LOW

Date Received: 07/15/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/17/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
65-85-0	Benzoic acid	25	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	1	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-11

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-5

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081703

Level: (low/med) LOW

Date Received: 07/15/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/17/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	2	J
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-11

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L52645

Matrix: (soil/water) WATER Lab Sample ID: L52682-5

Sample wt/vol: 1000 (g/mL) mL Lab File ID: EC081703

Level: (low/med) LOW Date Received: 07/15/99

% Moisture: decanted: (Y/N) N Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/17/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	9.40	7	J
2. 000123-42-2	2-Pentanone, 4-hydroxy-4-met	10.38	21	JAB
3. 000000-00-0	Butyl hexadecanoate	26.98	12	J
4. 000123-95-5	Octadecanoic acid, butyl est	28.49	23	J
5.	Unknown Alkane	29.46	5	J
6.				
7.				
8.				
9.				
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11.				
12.				
13.				
14.				
15.				
16.				
17.				
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19.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-15S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52674-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081119

Level: (low/med) LOW

Date Received: 07/14/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/16/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/12/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-15S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52674-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081119

Level: (low/med) LOW

Date Received: 07/14/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/16/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/12/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	47	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-15S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52674-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081119

Level: (low/med) LOW

Date Received: 07/14/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/16/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/12/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-met	10.70	24	JAB
2.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-16D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52645-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081116

Level: (low/med) LOW

Date Received: 07/13/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/15/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/12/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
65-85-0	Benzoic acid	25	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-16D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52645-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081116

Level: (low/med) LOW

Date Received: 07/13/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/15/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/12/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-16D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L52645

Matrix: (soil/water) WATER Lab Sample ID: L52645-2

Sample wt/vol: 1000 (g/mL) mL Lab File ID: EC081116

Level: (low/med) LOW Date Received: 07/13/99

% Moisture: decanted: (Y/N) N Date Extracted: 07/15/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/12/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-met	10.71	17	JAB
2.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-16R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52674-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081118

Level: (low/med) LOW

Date Received: 07/14/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/16/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/12/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	3	J
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	360 1700	E
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	220 200	E
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	4	J
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-16R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52674-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081118

Level: (low/med) LOW

Date Received: 07/14/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/16/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/12/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	78	
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	2	J
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	21	
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	19	
120-12-7-----	Anthracene	2	J
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	18	B
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-16R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52674-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081118

Level: (low/med) LOW

Date Received: 07/14/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/16/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/12/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 21

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000108-88-3	Toluene	8.49	88	J
2. 000123-42-2	2-Pentanone, 4-hydroxy-4-met	10.70	23	JAB
3. 000100-41-4	Ethylbenzene	11.49	250	J
4.	Substituted Benzene	12.49	96	J
5. 000098-82-8	Benzene, (1-methylethyl)-	13.39	11	J
6.	Substituted Benzene	14.47	30	J
7. 000611-14-3	Benzene, 1-ethyl-2-methyl-	14.53	32	J
8. 000611-14-3	Benzene, 1-ethyl-2-methyl-	15.02	12	J
9. 000108-67-8	Benzene, 1,3,5-trimethyl-	15.37	67	J
10.	Substituted Benzene	15.44	10	J
11. 000611-14-3	Benzene, 1-ethyl-2-methyl-	16.11	32	J
12. 000496-11-7	Indane	16.48	270	J
13. 000141-93-5	Benzene, 1,3-diethyl-	16.59	9	J
14. 000095-13-6	Indene	16.69	300	J
15.	Substituted Benzene	17.33	18	J
16. 90-12-0	Substituted Naphthalene	21.06	14	J
17. 000092-52-4	Biphenyl	21.75	17	J
18.	Substituted Naphthalene	21.97	15	J
19.	Substituted Naphthalene	22.10	9	J
20.	Substituted Naphthalene	22.28	22	J
21.	Substituted Naphthalene	22.52	8	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-16R DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52674-1DL

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081303

Level: (low/med) LOW

Date Received: 07/14/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/16/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/13/99

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	200	U
111-44-4	bis(2-Chloroethyl) ether	200	U
95-57-8	2-Chlorophenol	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
95-50-1	1,2-Dichlorobenzene	200	U
100-51-6	Benzyl alcohol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-oxybis(1-Chloropropane)	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	bis(2-Chloroethoxy) methane	200	U
65-85-0	Benzoic acid	500	U
120-83-2	2,4-Dichlorophenol	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
91-20-3	Naphthalene	1700	D
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	D
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	500	U
131-11-3	Dimethylphthalate	200	U
208-96-8	Acenaphthylene	200	U
606-20-2	2,6-Dinitrotoluene	200	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-16R DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52674-1DL

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081303

Level: (low/med) LOW

Date Received: 07/14/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/16/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/13/99

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	500	U
83-32-9-----	Acenaphthene	77	JD
51-28-5-----	2,4-Dinitrophenol	500	U
100-02-7-----	4-Nitrophenol	500	U
132-64-9-----	Dibenzofuran	200	U
121-14-2-----	2,4-Dinitrotoluene	200	U
84-66-2-----	Diethylphthalate	200	U
86-73-7-----	Fluorene	200	U
7005-72-3-----	4-Chlorophenyl-phenylether	200	U
534-52-1-----	4,6-Dinitro-2-methylphenol	500	U
86-30-6-----	N-Nitrosodiphenylamine	200	U
101-55-3-----	4-Bromophenyl-phenylether	200	U
118-74-1-----	Hexachlorobenzene	200	U
87-86-5-----	Pentachlorophenol	500	U
85-01-8-----	Phenanthrene	200	U
120-12-7-----	Anthracene	200	U
84-74-2-----	Di-n-butylphthalate	200	U
206-44-0-----	Fluoranthene	200	U
129-00-0-----	Pyrene	200	U
85-68-7-----	Butylbenzylphthalate	200	U
56-55-3-----	Benzo(a)anthracene	200	U
91-94-1-----	3,3'-Dichlorobenzidine	400	U
218-01-9-----	Chrysene	200	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	35-200	JDB
117-84-0-----	Di-n-octylphthalate	200	U
205-99-2-----	Benzo(b)fluoranthene	200	U
207-08-9-----	Benzo(k)fluoranthene	200	U
50-32-8-----	Benzo(a)pyrene	200	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	200	U
53-70-3-----	Dibenzo(a,h)anthracene	200	U
191-24-2-----	Benzo(g,h,i)perylene	200	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52760-6

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082403

Level: (low/med) LOW

Date Received: 07/17/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

108-95-2-----	Phenol	21	
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	5	J
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	80	
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52760-6

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082403

Level: (low/med) LOW

Date Received: 07/17/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	80	
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	7	J
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	2	J
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-17D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52760-6

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082403

Level: (low/med) LOW

Date Received: 07/17/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 17

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-met	10.10	18	JA
2. 000098-82-8	Benzene, (1-methylethyl)-	12.75	16	JIS
3. 000611-14-3	Benzene, 1-ethyl-2-methyl-	14.39	18	JIO
4. 000526-73-8	Benzene, 1,2,3-trimethyl-	14.76	32	JIO
5.	Substituted Benzene	15.54	37	J
6.	Substituted Benzene	15.95	860	J
7. 000099-87-6	Benzene, 1-methyl-4-(1-methy	16.80	16	JN
8.	Substituted Indene	17.90	38	J
9. 027133-93-3	2,3-Dihydro-1-methylindene	18.10	61	JIS
10. 065051-83-4	Benzene, (1-methyl-2-cyclopr	18.21	33	JIS
11. 006351-10-6	1H-Inden-1-ol, 2,3-dihydro-	19.32	8	JN
12. 004565-32-6	Benzo[b]thiophene, 2,3-dihyd	19.84	18	JN
13. 000083-33-0	1H-Inden-1-one, 2,3-dihydro-	20.10	16	JN
14. 014315-11-8	Benzo[b]thiophene, 4-methyl-	20.25	7	JN
15. 000090-12-0	Naphthalene, 1-methyl-	20.56	140	JN
16. 001470-94-6	1H-Inden-5-ol, 2,3-dihydro-	20.65	11	JN
17.	Substituted Naphthalene	21.78	8	JN
18.				
19.				
20.				
21.				
22.				
23.				
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25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52674-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081120

Level: (low/med) LOW

Date Received: 07/14/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/16/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/12/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

108-95-2-----Phenol	7	J
111-44-4-----bis(2-Chloroethyl) ether	10	U
95-57-8-----2-Chlorophenol	10	U
541-73-1-----1,3-Dichlorobenzene	10	U
106-46-7-----1,4-Dichlorobenzene	10	U
95-50-1-----1,2-Dichlorobenzene	10	U
100-51-6-----Benzyl alcohol	10	U
95-48-7-----2-Methylphenol	10	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----4-Methylphenol	10	U
621-64-7-----N-Nitroso-di-n-propylamine	10	U
67-72-1-----Hexachloroethane	10	U
98-95-3-----Nitrobenzene	10	U
78-59-1-----Isophorone	10	U
88-75-5-----2-Nitrophenol	10	U
105-67-9-----2,4-Dimethylphenol	10	U
111-91-1-----bis(2-Chloroethoxy)methane	10	U
65-85-0-----Benzoic acid	25	U
120-83-2-----2,4-Dichlorophenol	10	U
120-82-1-----1,2,4-Trichlorobenzene	10	U
91-20-3-----Naphthalene	7	J
106-47-8-----4-Chloroaniline	10	U
87-68-3-----Hexachlorobutadiene	10	U
59-50-7-----4-Chloro-3-methylphenol	10	U
91-57-6-----2-Methylnaphthalene	10	U
77-47-4-----Hexachlorocyclopentadiene	10	U
88-06-2-----2,4,6-Trichlorophenol	10	U
95-95-4-----2,4,5-Trichlorophenol	10	U
91-58-7-----2-Chloronaphthalene	10	U
88-74-4-----2-Nitroaniline	25	U
131-11-3-----Dimethylphthalate	10	U
208-96-8-----Acenaphthylene	10	U
606-20-2-----2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-17S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52674-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081120

Level: (low/med) LOW

Date Received: 07/14/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/16/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/12/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND	Q
99-09-2-----3-Nitroaniline	25	U
83-32-9-----Acenaphthene	130	
51-28-5-----2,4-Dinitrophenol	25	U
100-02-7-----4-Nitrophenol	25	U
132-64-9-----Dibenzofuran	10	U
121-14-2-----2,4-Dinitrotoluene	10	U
84-66-2-----Diethylphthalate	10	U
86-73-7-----Fluorene	12	
7005-72-3-----4-Chlorophenyl-phenylether	10	U
534-52-1-----4,6-Dinitro-2-methylphenol	25	U
86-30-6-----N-Nitrosodiphenylamine	10	U
101-55-3-----4-Bromophenyl-phenylether	10	U
118-74-1-----Hexachlorobenzene	10	U
87-86-5-----Pentachlorophenol	25	U
85-01-8-----Phenanthrene	4	J
120-12-7-----Anthracene	10	U
84-74-2-----Di-n-butylphthalate	10	U
206-44-0-----Fluoranthene	10	U
129-00-0-----Pyrene	10	U
85-68-7-----Butylbenzylphthalate	10	U
56-55-3-----Benzo(a)anthracene	10	U
91-94-1-----3,3'-Dichlorobenzidine	20	U
218-01-9-----Chrysene	10	U
117-81-7-----bis(2-Ethylhexyl)phthalate	10 3	JB
117-84-0-----Di-n-octylphthalate	10	U
205-99-2-----Benzo(b)fluoranthene	10	U
207-08-9-----Benzo(k)fluoranthene	10	U
50-32-8-----Benzo(a)pyrene	10	U
193-39-5-----Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----Dibenzo(a,h)anthracene	10	U
191-24-2-----Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-17S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52674-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081120

Level: (low/med) LOW

Date Received: 07/14/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/16/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/12/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 17

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 010473-14-0	3-Buten-2-ol, 3-methyl-	9.73	13	J
2. 000123-42-2	2-Pentanone, 4-hydroxy-4-met	10.70	23	JAB
3. 000100-41-4	Ethylbenzene	11.48	15	J
4. 000098-82-8	Benzene, (1-methylethyl)-	13.39	26	J
5. 000611-14-3	Benzene, 1-ethyl-2-methyl-	15.02	27	J
6. _____	Substituted Benzene	15.36	56	J
7. _____	Substituted Benzene	16.11	47	J
8. 000496-11-7	Indane	16.52	1000	J
9. 000527-84-4	Benzene, 1-methyl-2-(1-methy	17.33	14	J
10. _____	Substituted Indene	18.41	44	J
11. 002039-89-6	Benzene, 2-ethenyl-1,4-dimet	18.61	76	J
12. _____	Substituted Benzene	18.72	35	J
13. 002471-92-3	Benzo[c]thiophene, 1,3-dihyd	20.34	21	J
14. 000083-33-0	1H-Inden-1-one, 2,3-dihydro-	20.59	10	J
15. _____	Substituted Naphthalene	21.06	160	J
16. 000939-27-5	Naphthalene, 2-ethyl-	21.96	9	J
17. _____	Substituted Naphthalene	22.28	11	J
18. _____	_____	_____	_____	_____
19. _____	_____	_____	_____	_____
20. _____	_____	_____	_____	_____
21. _____	_____	_____	_____	_____
22. _____	_____	_____	_____	_____
23. _____	_____	_____	_____	_____
24. _____	_____	_____	_____	_____
25. _____	_____	_____	_____	_____
26. _____	_____	_____	_____	_____
27. _____	_____	_____	_____	_____
28. _____	_____	_____	_____	_____
29. _____	_____	_____	_____	_____
30. _____	_____	_____	_____	_____

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-18S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081722

Level: (low/med) LOW

Date Received: 07/15/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/18/99

Injection Volume: 1.0 (uL)

Dilution Factor: 25.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

108-95-2-----	Phenol	250	U
111-44-4-----	bis(2-Chloroethyl) ether	250	U
95-57-8-----	2-Chlorophenol	250	U
541-73-1-----	1,3-Dichlorobenzene	250	U
106-46-7-----	1,4-Dichlorobenzene	250	U
95-50-1-----	1,2-Dichlorobenzene	250	U
100-51-6-----	Benzyl alcohol	250	U
95-48-7-----	2-Methylphenol	250	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	250	U
106-44-5-----	4-Methylphenol	250	U
621-64-7-----	N-Nitroso-di-n-propylamine	250	U
67-72-1-----	Hexachloroethane	250	U
98-95-3-----	Nitrobenzene	250	U
78-59-1-----	Isophorone	250	U
88-75-5-----	2-Nitrophenol	250	U
105-67-9-----	2,4-Dimethylphenol	250	U
111-91-1-----	bis(2-Chloroethoxy) methane	250	U
65-85-0-----	Benzoic acid	620	U
120-83-2-----	2,4-Dichlorophenol	250	U
120-82-1-----	1,2,4-Trichlorobenzene	250	U
91-20-3-----	Naphthalene	5100	U
106-47-8-----	4-Chloroaniline	250	U
87-68-3-----	Hexachlorobutadiene	250	U
59-50-7-----	4-Chloro-3-methylphenol	250	U
91-57-6-----	2-Methylnaphthalene	140	U
77-47-4-----	Hexachlorocyclopentadiene	250	U
88-06-2-----	2,4,6-Trichlorophenol	250	U
95-95-4-----	2,4,5-Trichlorophenol	250	U
91-58-7-----	2-Chloronaphthalene	250	U
88-74-4-----	2-Nitroaniline	620	U
131-11-3-----	Dimethylphthalate	250	U
208-96-8-----	Acenaphthylene	250	U
606-20-2-----	2,6-Dinitrotoluene	250	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-18S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081722

Level: (low/med) LOW

Date Received: 07/15/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/18/99

Injection Volume: 1.0 (uL)

Dilution Factor: 25.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

99-09-2-----	3-Nitroaniline	620	U
83-32-9-----	Acenaphthene	210	J
51-28-5-----	2,4-Dinitrophenol	620	U
100-02-7-----	4-Nitrophenol	620	U
132-64-9-----	Dibenzofuran	250	U
121-14-2-----	2,4-Dinitrotoluene	250	U
84-66-2-----	Diethylphthalate	250	U
86-73-7-----	Fluorene	27	J
7005-72-3-----	4-Chlorophenyl-phenylether	250	U
534-52-1-----	4,6-Dinitro-2-methylphenol	620	U
86-30-6-----	N-Nitrosodiphenylamine	250	U
101-55-3-----	4-Bromophenyl-phenylether	250	U
118-74-1-----	Hexachlorobenzene	250	U
87-86-5-----	Pentachlorophenol	620	U
85-01-8-----	Phenanthrene	250	U
120-12-7-----	Anthracene	250	U
84-74-2-----	Di-n-butylphthalate	250	U
206-44-0-----	Fluoranthene	250	U
129-00-0-----	Pyrene	250	U
85-68-7-----	Butylbenzylphthalate	250	U
56-55-3-----	Benzo(a)anthracene	250	U
91-94-1-----	3,3'-Dichlorobenzidine	500	U
218-01-9-----	Chrysene	250	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	250	U
117-84-0-----	Di-n-octylphthalate	250	U
205-99-2-----	Benzo(b)fluoranthene	250	U
207-08-9-----	Benzo(k)fluoranthene	250	U
50-32-8-----	Benzo(a)pyrene	250	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	250	U
53-70-3-----	Dibenzo(a,h)anthracene	250	U
191-24-2-----	Benzo(g,h,i)perylene	250	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-18S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081722

Level: (low/med) LOW

Date Received: 07/15/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/18/99

Injection Volume: 1.0 (uL)

Dilution Factor: 25.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000100-41-4	Ethylbenzene	11.13	910	J
2.	Substituted Benzene	12.13	130	J
3.	Substituted Benzene <i>TRIMETHYL</i>	15.03	120	J
4. 000095-15-8	Benzo[b]thiophene	19.14	110	J
5. <i>90-12-0</i>	Substituted Naphthalene	20.78	230	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-18S DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-2DL

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081904

Level: (low/med) LOW

Date Received: 07/15/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/19/99

Injection Volume: 1.0 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

108-95-2	Phenol	500	U
111-44-4	bis(2-Chloroethyl) ether	500	U
95-57-8	2-Chlorophenol	500	U
541-73-1	1,3-Dichlorobenzene	500	U
106-46-7	1,4-Dichlorobenzene	500	U
95-50-1	1,2-Dichlorobenzene	500	U
100-51-6	Benzyl alcohol	500	U
95-48-7	2-Methylphenol	500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	500	U
106-44-5	4-Methylphenol	500	U
621-64-7	N-Nitroso-di-n-propylamine	500	U
67-72-1	Hexachloroethane	500	U
98-95-3	Nitrobenzene	500	U
78-59-1	Isophorone	500	U
88-75-5	2-Nitrophenol	500	U
105-67-9	2,4-Dimethylphenol	500	U
111-91-1	bis(2-Chloroethoxy) methane	500	U
65-85-0	Benzoic acid	1200	U
120-83-2	2,4-Dichlorophenol	500	U
120-82-1	1,2,4-Trichlorobenzene	500	U
91-20-3	Naphthalene	4900	D
106-47-8	4-Chloroaniline	500	U
87-68-3	Hexachlorobutadiene	500	U
59-50-7	4-Chloro-3-methylphenol	500	U
91-57-6	2-Methylnaphthalene	130	JD
77-47-4	Hexachlorocyclopentadiene	500	U
88-06-2	2,4,6-Trichlorophenol	500	U
95-95-4	2,4,5-Trichlorophenol	500	U
91-58-7	2-Chloronaphthalene	500	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	500	U
208-96-8	Acenaphthylene	500	U
606-20-2	2,6-Dinitrotoluene	500	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-18S DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-2DL

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081904

Level: (low/med) LOW

Date Received: 07/15/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/19/99

Injection Volume: 1.0 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: 7.0

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/l	Q
99-09-2-----	3-Nitroaniline	1200	U
83-32-9-----	Acenaphthene	190	JD
51-28-5-----	2,4-Dinitrophenol	1200	U
100-02-7-----	4-Nitrophenol	1200	U
132-64-9-----	Dibenzofuran	500	U
121-14-2-----	2,4-Dinitrotoluene	500	U
84-66-2-----	Diethylphthalate	500	U
86-73-7-----	Fluorene	500	U
7005-72-3-----	4-Chlorophenyl-phenylether	500	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1200	U
86-30-6-----	N-Nitrosodiphenylamine	500	U
101-55-3-----	4-Bromophenyl-phenylether	500	U
118-74-1-----	Hexachlorobenzene	500	U
87-86-5-----	Pentachlorophenol	1200	U
85-01-8-----	Phenanthrene	500	U
120-12-7-----	Anthracene	500	U
84-74-2-----	Di-n-butylphthalate	500	U
206-44-0-----	Fluoranthene	500	U
129-00-0-----	Pyrene	500	U
85-68-7-----	Butylbenzylphthalate	500	U
56-55-3-----	Benzo(a)anthracene	500	U
91-94-1-----	3,3'-Dichlorobenzidine	1000	U
218-01-9-----	Chrysene	500	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	500	U
117-84-0-----	Di-n-octylphthalate	500	U
205-99-2-----	Benzo(b)fluoranthene	500	U
207-08-9-----	Benzo(k)fluoranthene	500	U
50-32-8-----	Benzo(a)pyrene	500	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	500	U
53-70-3-----	Dibenzo(a,h)anthracene	500	U
191-24-2-----	Benzo(g,h,i)perylene	500	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-19D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52645-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081115

Level: (low/med) LOW

Date Received: 07/13/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/15/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/12/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-19D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52645-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081115

Level: (low/med) LOW

Date Received: 07/13/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/15/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/12/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	4	J
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-19D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52645-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081115

Level: (low/med) LOW

Date Received: 07/13/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/15/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/12/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-met	10.71	18	JAB
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-22S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52760-4

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081608

Level: (low/med) LOW

Date Received: 07/17/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/16/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	1	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-22S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52760-4

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081608

Level: (low/med) LOW

Date Received: 07/17/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/16/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-22S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52760-4

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081608

Level: (low/med) LOW

Date Received: 07/17/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/16/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-met	10.43	24	JA
2.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-23S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081309

Level: (low/med) LOW

Date Received: 07/15/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/13/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	13	
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
65-85-0	Benzoic acid	25	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	9	J
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	1	J
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-23S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081309

Level: (low/med) LOW

Date Received: 07/15/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/13/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	180	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	4	J
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	1	J
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-23S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081309

Level: (low/med) LOW

Date Received: 07/15/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/13/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 14

CONCENTRATION UNITS:
(ug/L or ug/Kg) .ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-met	10.53	23	JA
2. 000098-82-8	Benzene, (1-methylethyl)-	13.20	32	JN
3. 000611-14-3	Benzene, 1-ethyl-2-methyl-	14.84	18	JN
4. 000496-11-7	Substituted Benzene	15.95	35	J
5. 002039-89-6	Indane	16.38	1300	JN
6. 000083-33-0	Benzene, 2-ethenyl-1,4-dimet	18.47	110	JN
7. 014315-14-1	Substituted Indene	18.58	41	J
8. 001470-94-6	Substituted Thiophene	20.20	31	J
9. 037570-14-2	1H-Inden-1-one, 2,3-dihydro-	20.44	24	JN
10. 014315-14-1	Benzo[b]thiophene, 5-methyl-	20.60	10	JN
11. 001470-94-6	Substituted Naphthalene	20.91	160	J
12. 037570-14-2	1H-Inden-5-ol, 2,3-dihydro-	20.99	11	JN
13. 037570-14-2	Substituted Naphthalene	22.12	17	J
14. 037570-14-2	Benzeneacetic acid, ar-ethen	23.28	16	JN
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
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27.				
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29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-23S DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-1DL

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082307

Level: (low/med) LOW

Date Received: 07/15/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/23/99

Injection Volume: 1.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	12	JD
111-44-4-----	bis(2-Chloroethyl) ether	20	U
95-57-8-----	2-Chlorophenol	20	U
541-73-1-----	1,3-Dichlorobenzene	20	U
106-46-7-----	1,4-Dichlorobenzene	20	U
95-50-1-----	1,2-Dichlorobenzene	20	U
100-51-6-----	Benzyl alcohol	20	U
95-48-7-----	2-Methylphenol	20	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	20	U
106-44-5-----	4-Methylphenol	20	U
621-64-7-----	N-Nitroso-di-n-propylamine	20	U
67-72-1-----	Hexachloroethane	20	U
98-95-3-----	Nitrobenzene	20	U
78-59-1-----	Isophorone	20	U
88-75-5-----	2-Nitrophenol	20	U
105-67-9-----	2,4-Dimethylphenol	20	U
111-91-1-----	bis(2-Chloroethoxy) methane	20	U
65-85-0-----	Benzoic acid	50	U
120-83-2-----	2,4-Dichlorophenol	20	U
120-82-1-----	1,2,4-Trichlorobenzene	20	U
91-20-3-----	Naphthalene	7	JD
106-47-8-----	4-Chloroaniline	20	U
87-68-3-----	Hexachlorobutadiene	20	U
59-50-7-----	4-Chloro-3-methylphenol	20	U
91-57-6-----	2-Methylnaphthalene	20	U
77-47-4-----	Hexachlorocyclopentadiene	20	U
88-06-2-----	2,4,6-Trichlorophenol	20	U
95-95-4-----	2,4,5-Trichlorophenol	20	U
91-58-7-----	2-Chloronaphthalene	20	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	20	U
208-96-8-----	Acenaphthylene	20	U
606-20-2-----	2,6-Dinitrotoluene	20	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-23S DL

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-1DL

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082307

Level: (low/med) LOW

Date Received: 07/15/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/20/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/23/99

Injection Volume: 1.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	140	D
51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
132-64-9-----	Dibenzofuran	20	U
121-14-2-----	2,4-Dinitrotoluene	20	U
84-66-2-----	Diethylphthalate	20	U
86-73-7-----	Fluorene	8	JD
7005-72-3-----	4-Chlorophenyl-phenylether	20	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine	20	U
101-55-3-----	4-Bromophenyl-phenylether	20	U
118-74-1-----	Hexachlorobenzene	20	U
87-86-5-----	Pentachlorophenol	50	U
85-01-8-----	Phenanthrene	2	JD
120-12-7-----	Anthracene	20	U
84-74-2-----	Di-n-butylphthalate	20	U
206-44-0-----	Fluoranthene	20	U
129-00-0-----	Pyrene	20	U
85-68-7-----	Butylbenzylphthalate	20	U
56-55-3-----	Benzo(a)anthracene	20	U
91-94-1-----	3,3'-Dichlorobenzidine	40	U
218-01-9-----	Chrysene	20	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	20	U
117-84-0-----	Di-n-octylphthalate	20	U
205-99-2-----	Benzo(b)fluoranthene	20	U
207-08-9-----	Benzo(k)fluoranthene	20	U
50-32-8-----	Benzo(a)pyrene	20	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	20	U
53-70-3-----	Dibenzo(a,h)anthracene	20	U
191-24-2-----	Benzo(g,h,i)perylene	20	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-24S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52751-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082309

Level: (low/med) LOW

Date Received: 07/16/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/21/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/23/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-24S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52751-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082309

Level: (low/med) LOW

Date Received: 07/16/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/21/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/23/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	20	
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	3	J
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-24S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52751-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082309

Level: (low/med) LOW

Date Received: 07/16/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/21/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/23/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-met	10.10	19	JAB
2.				
3.				
4.				
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27.				
28.				
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30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-25S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52751-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081707

Level: (low/med) LOW

Date Received: 07/16/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/21/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/17/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-25S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52751-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081707

Level: (low/med) LOW

Date Received: 07/16/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/21/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/17/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	2	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-25S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52751-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081707

Level: (low/med) LOW

Date Received: 07/16/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/21/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/17/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-met	10.38	21	JAB
2.	Unknown	26.98	4	J
3. 027948-12-5	Cyclohexaneacetic acid, buty	28.49	8	J
4.				
5.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RB-01

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52760-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081607

Level: (low/med) LOW

Date Received: 07/17/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/16/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RB-01

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52760-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081607

Level: (low/med) LOW

Date Received: 07/17/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/16/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

RB-01

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52760-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081607

Level: (low/med) LOW

Date Received: 07/17/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/16/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000141-79-7	3-Penten-2-one, 4-methyl-	9.06	49	JAB
2.	Unknown	9.44	11	J
3. 000123-42-2	2-Pentanone, 4-hydroxy-4-met	10.42	10	JA
4.	Unknown	11.08	4	J
5.				
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PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082 as referenced in NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.
- C Identification confirmed by GC/MS.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for PCB analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for water are 7 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed with the specified holding time.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, or rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

No Aroclors were detected in the method or rinse blanks.

3. System Performance

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

A maximum RSD of 20% is allowed. The initial calibration was within the specified limit for all Aroclors.

4.2 Continuing Calibration

A maximum %D of 15 is allowed. All continuing calibration standards were within this limit, with the following exceptions:

Instrument HP9B DB-608	7/15/99	16:43
Decachlorobiphenyl (surrogate)		18.9%
Instrument HP9B DB-608	7/18/99	20:38
Tetrachloro-m-xylene (surrogate)		22.7%

Since all surrogate recoveries were within control limits, no data have been qualified based on the %D.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

All surrogate recoveries were within control limits.

6. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns.

All quantitated peaks fell within the appropriate retention time windows.

7. Matrix Spike/Matrix Spike Duplicate

Matrix spike blank data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

All matrix spike and matrix spike duplicate recoveries and relative percent difference between recoveries were within control limits.

8. Matrix Spike Blank

All matrix spike blank recoveries were within control limits.

9. Field Duplicates

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-18S / GW-DUP-1	ND	--	--	NA

ND Not detected.

NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are acceptable.

10. General Comments

The temperatures for four of the five coolers were outside control limits (at 10.0, 13.4, 10.0 and 9.0°C) when received at the laboratory. No data have been qualified based on the deviations.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

PCB Data Validation Checklist

	YES	NO	NA
<u>Data Completeness and Deliverables</u>			
Have any missing deliverables been received and added to the data package?	<u> </u>	<u> X </u>	<u> </u>
Is there a narrative or cover letter present?	<u> X </u>	<u> </u>	<u> </u>
Are the sample numbers included in the narrative?	<u> </u>	<u> X </u>	<u> </u>
Are the sample chain-of-custodies present?	<u> X </u>	<u> </u>	<u> </u>
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	<u> X </u>	<u> </u>	<u> </u>
<u>Holding Times</u>			
Have any holding times been exceeded?	<u> </u>	<u> X </u>	<u> </u>
<u>Surrogate Recovery</u>			
Are the surrogate recovery forms present?	<u> X </u>	<u> </u>	<u> </u>
Are all the samples listed on the appropriate surrogate recovery form?	<u> X </u>	<u> </u>	<u> </u>
Were recoveries of any surrogate outside of specified limits for any sample or blank?	<u> </u>	<u> X </u>	<u> </u>
If yes, were the samples reanalyzed?	<u> </u>	<u> </u>	<u> X </u>
Are there any transcription/calculation errors between the raw data and the summary form?	<u> </u>	<u> X </u>	<u> </u>
<u>Matrix Spikes</u>			
Is there a matrix spike recovery form present?	<u> X </u>	<u> </u>	<u> </u>
Were matrix spikes analyzed at the required frequency?	<u> X </u>	<u> </u>	<u> </u>
How many spike recoveries were outside of QC limits?			
<u> 0 </u> out of <u> 2 </u>			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
<u> 0 </u> out of <u> 1 </u>			
<u>Blanks</u>			
Is a method blank summary form present?	<u> X </u>	<u> </u>	<u> </u>
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	<u> X </u>	<u> </u>	<u> </u>

PCB Data Validation Checklist - Page 2

	YES	NO	NA
Is the chromatographic performance acceptable for each instrument?	<u>X</u>	<u> </u>	<u> </u>
Do any method/reagent/instrument blanks have positive results?	<u> </u>	<u>X</u>	<u> </u>
Do any field/rinse/equipment blanks have positive results?	<u> </u>	<u>X</u>	<u> </u>
Are there field/rinse/equipment blanks associated with every sample?	<u>X</u>	<u> </u>	<u> </u>
<u>Calibration and GC Performance</u>			
Are the following chromatograms and integration reports present?			
peak resolution check	<u> </u>	<u>X</u>	<u> </u>
Aroclor 1016/1260	<u>X</u>	<u> </u>	<u> </u>
Aroclors 1221, 1232, 1242, 1248, and 1254	<u>X</u>	<u> </u>	<u> </u>
Is a calibration summary form present and complete for each analytical sequence?	<u>X</u>	<u> </u>	<u> </u>
Are there any transcription/calculation errors between the raw data and the forms?	<u> </u>	<u>X</u>	<u> </u>
Are the %RSD for the initial calibration within specified limits for all analytes?	<u>X</u>	<u> </u>	<u> </u>
Is the resolution between any two adjacent peaks in the resolution check mixture > 60%?	<u> </u>	<u> </u>	<u>X</u>
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	<u>X</u>	<u> </u>	<u> </u>
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	<u>X</u>	<u> </u>	<u> </u>
Are there any transcription/calculation errors between the raw data and the form?	<u> </u>	<u>X</u>	<u> </u>
Are all the percent difference (%D) values for all continuing calibration standards within specified limits?	<u> </u>	<u>X</u>	<u> </u>
<u>Analytical Sequence</u>			
Is Form VIII present and complete for each column and each period of analyses?	<u>X</u>	<u> </u>	<u> </u>
Was the proper analytical sequence followed?	<u>X</u>	<u> </u>	<u> </u>

PCB Data Validation Checklist - Page 3

	YES	NO	NA
<u>Cleanup Efficiency Verification</u>			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	<u>X</u>	<u> </u>	<u> </u>
<u>PCB Identification</u>			
Are RT of sample compounds within the established RT windows?	<u>X</u>	<u> </u>	<u> </u>
Were all positively identified compounds confirmed on a second column?	<u> </u>	<u> </u>	<u>X</u>
Was GC/MS confirmation provided when required?	<u> </u>	<u> </u>	<u>X</u>
Were there any false negatives?	<u> </u>	<u>X</u>	<u> </u>
<u>Compound Quantitation and Reported Detection Limits</u>			
Are there any transcription/calculation errors in the Form 1 results?	<u> </u>	<u>X</u>	<u> </u>
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	<u>X</u>	<u> </u>	<u> </u>
<u>Chromatogram Quality</u>			
Were the baselines stable?	<u>X</u>	<u> </u>	<u> </u>
Were any electronegative displacement (negative peaks) or unusual peaks detected?	<u> </u>	<u>X</u>	<u> </u>
<u>Field Duplicates</u>			
Were field duplicates submitted with the samples?	<u>X</u>	<u> </u>	<u> </u>

**PCB Qualifier Summary
Holding Time and Surrogates**

Sample ID	Holding Time*	Surrogates*	
		TCX	DCB
MW-16R			
MW-15S			
MW-17S			
MW-16D			
MW-19D			
MW-23S			
MW-18S			
MW-18S MS			
MW-18S MSD			
MW-11			
GW-DUP-1			
MW-24S			
MW-25S			
RB-01			
MW-22S			
MW-17D			

Surrogates:
 TCX Tetrachloro-m-xylene
 DCB Decachlorobiphenyl
 na Not applicable

Qualifiers:
 D Surrogate diluted out
 ! Recovery high
 ! Recovery low

* Unless otherwise noted, all parameters are within specified limits.

PCB Calibration Summary

Instrument: HP9B

Column: DB-608

Date:	5/26/99- 5/27/99	7/15/99	7/15/99	7/18/99	7/19/99	7/29/99	7/29/99	7/29/99	7/30/99
Time:		1643	2200	2038	0131	0937	1457	1909	0347
	Initial Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont. Cal.	Cont Cal.	Cont Cal.	Cont Cal.
	%RSD	%D	%D	%D	%D	%D	%D	%D	%D
Aroclor 1016	ok								
Aroclor 1221	ok								
Aroclor 1232	ok								
Aroclor 1242	ok								
Aroclor 1248	ok	ok	ok	ok	ok	ok	ok	ok	ok
Aroclor 1254	ok								
Aroclor 1260	ok								
Tetrachloro-m-xylene	ok	ok		22.7		ok			
Decachlorobiphenyl	ok	18.9		ok		ok			
Affected Samples:									

Corrected Sample Analysis Data Sheets

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-DUP-1

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-6

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072925

% Moisture: decanted: (Y/N) N

Date Received: 07/15/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/20/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/29/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

CAS NO.

COMPOUND

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-11

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-5

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072924

% Moisture: decanted: (Y/N) N

Date Received: 07/15/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/20/99

Concentrated Extract Volume: 10000(uL)

Date Analyzed: 07/29/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-15S

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52674-2

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B071822

% Moisture: decanted: (Y/N) N

Date Received: 07/14/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/17/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/18/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-16D

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52645-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: HP9B\B071514

% Moisture: decanted: (Y/N) N

Date Received: 07/13/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/14/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/15/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.5	U
11104-28-2-----Aroclor-1221	0.5	U
11141-16-5-----Aroclor-1232	0.5	U
53469-21-9-----Aroclor-1242	0.5	U
12672-29-6-----Aroclor-1248	0.5	U
11097-69-1-----Aroclor-1254	0.5	U
11096-82-5-----Aroclor-1260	0.5	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-16R

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52674-1

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B071821

% Moisture: decanted: (Y/N) N

Date Received: 07/14/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/17/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/18/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

Q

12674-11-2-----	Aroclor-1016	0.48	U
11104-28-2-----	Aroclor-1221	0.48	U
11141-16-5-----	Aroclor-1232	0.48	U
53469-21-9-----	Aroclor-1242	0.48	U
12672-29-6-----	Aroclor-1248	0.48	U
11097-69-1-----	Aroclor-1254	0.48	U
11096-82-5-----	Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-17D

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52760-6

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072906

% Moisture: decanted: (Y/N) N

Date Received: 07/17/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/22/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/29/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52674-3

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B071823

% Moisture: decanted: (Y/N) N

Date Received: 07/14/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/17/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/18/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-18S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-2

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072921

% Moisture: decanted: (Y/N) N

Date Received: 07/15/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/20/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/29/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-19D

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52645-1

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B071513

% Moisture: decanted: (Y/N) N

Date Received: 07/13/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/14/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/15/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-22S

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52760-4

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072905

% Moisture: decanted: (Y/N) N

Date Received: 07/17/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/22/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/29/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-23S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52682-1

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072920

% Moisture: decanted: (Y/N) N

Date Received: 07/15/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/20/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/29/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.

COMPOUND

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES	Contract: Blasland, B	MW-24S
Lab Code:	Case No.: 2	SAS No.: SDG No.: L52645
Matrix: (soil/water) WATER	Lab Sample ID: L52751-2	
Sample wt/vol: 1050 (g/mL) mL	Lab File ID: HP9B\B072929	
% Moisture: decanted: (Y/N) N	Date Received: 07/16/99	
Extraction: (SepF/Cont/Sonc) SEPF	Date Extracted: 07/21/99	
Concentrated Extract Volume: 10000 (uL)	Date Analyzed: 07/30/99	
Injection Volume: 1.0 (uL)	Dilution Factor: 1.0	
GPC Cleanup: (Y/N) N pH: 7.0	Sulfur Cleanup: (Y/N) N	

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) ug/L	Q
12674-11-2-----	Aroclor-1016	0.48	U
11104-28-2-----	Aroclor-1221	0.48	U
11141-16-5-----	Aroclor-1232	0.48	U
53469-21-9-----	Aroclor-1242	0.48	U
12672-29-6-----	Aroclor-1248	0.48	U
11097-69-1-----	Aroclor-1254	0.48	U
11096-82-5-----	Aroclor-1260	0.48	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-25S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52751-3

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072930

% Moisture: decanted: (Y/N) N

Date Received: 07/16/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/21/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/30/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

RB-01

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52645

Matrix: (soil/water) WATER

Lab Sample ID: L52760-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: HP9B\B072904

% Moisture: decanted: (Y/N) N

Date Received: 07/17/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/22/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/29/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.5	U
11104-28-2-----Aroclor-1221	0.5	U
11141-16-5-----Aroclor-1232	0.5	U
53469-21-9-----Aroclor-1242	0.5	U
12672-29-6-----Aroclor-1248	0.5	U
11097-69-1-----Aroclor-1254	0.5	U
11096-82-5-----Aroclor-1260	0.5	U

FORM I PEST

INORGANIC ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 methods.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

Concentration (C) qualifiers:

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
- B The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).

Quantitation (Q) qualifiers:

- E The reported value is estimated due to the presence of interference.
- M Duplicate injection precision not met.
- N Spiked sample recovery not within control limits.
- S Reported value was determined by the method of standard additions (MSA).
- W Post-digestion spike for Furnace-AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- * Duplicate analysis not within control limits.
- + Correlation coefficient for MSA is less than 0.995.

Validation qualifiers:

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for inorganic analyses under NYSASP protocols is as follows. All holding times are measured from validated time of sample receipt (VTSR).

Metals (other than mercury)	180 days
Mercury	26 days
Cyanide	12 days

The technical holding times for inorganic analyses is as follows. All holding times are measured from date of collection.

Metals (other than mercury)	180 days
Mercury	28 days
Cyanide	14 days

All samples were analyzed within specified holding times.

2. Blank Contamination

Quality assurance blanks, i.e., method, field, or rinse blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks (including initial and continuing calibration blanks and preparation blanks) measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

Iron was detected above the CRDL in the total metals rinse blank. However, since all iron detected in the associated samples was present at concentrations exceeding ten times that in the blank, the blank content has no impact on the reported data.

All calibration and preparation blanks were found to be acceptable, with no analytes detected above the CRDL. Several compounds were, however, detected below the CRDL. Based on the similarity between blank and sample concentrations, data for the analytes should be considered highly suspect:

Aluminum	GW-DUP-1, MW-15S, MW-16D, MW-17S, MW-18S, MW-19D, MW-24S, MW-25S
Cobalt	MW-11, MW-15S, MW-16D, MW-17D, MW-17S, MW-23S, MW-24S, MW-25S
Chromium	GW-DUP-1, MW-15S, MW-17D, MW-18S, MW-23S

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument continuing performance is satisfactory.

3.1 Initial Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within control limits.

3.3 CRDL Standard

All CRDL standard recoveries were within control limits.

3.4 ICP Interference Control Sample

All ICS recoveries were acceptable.

4. Matrix Spike/Laboratory Duplicate

Matrix spike and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 Matrix spike

All matrix spike recoveries were within control limits, with the following exceptions:

Total:	within control limits	
Dissolved:	Aluminum	245.2%
	Antimony	54.4%
	Iron	213.7%
	Selenium	29.4%
	Silver	42.7%

Based on the spike recoveries data for aluminum has been qualified as estimated in sample MW-16R(dissolved); data for antimony, iron, selenium and silver have been qualified as estimated in samples MW-16R (dissolved) and MW-22S(dissolved).

4.2 Laboratory Duplicate

All laboratory duplicate results were within control limits, with the following exceptions:

Total: within control limits

Dissolved: Aluminum >CRDL
Iron >CRDL

Based on the duplicate results, data for aluminum and iron have been qualified as estimated in samples MW-16R(dissolved) and MW-22S(dissolved).

5. Field Duplicate

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-18S / GW-DUP-1	aluminum	524	474	<CRDL
	barium	1090	1040	5%
	calcium	175000	172000	2%
	chromium	2.4B	3.1B	<CRDL
	cobalt	6.1B	6.7B	<CRDL
	copper	2.0U	2.4B	<CRDL
	iron	20200	18800	7%
	magnesium	28300	27800	2%
	manganese	11000	10800	2%
	nickel	7.4B	6.6B	<CRDL
	potassium	8380	8100	<CRDL
	selenium	3.0U	4.3B	<CRDL
	sodium	18100	178000	<CRDL
	cyanide	194	196	1%

The duplicate results are acceptable.

6. Laboratory Control Sample (LCS)

All LCS recoveries were within control limits.

7. Serial Dilution

All required serial dilution results were acceptable.

8. Furnace QC

No furnace analyses were performed on the samples.

9. Method of Standard Additions (MSA)

No samples were analyzed following the method of standard additions.

11. General Comments

The temperatures for four of the five coolers were outside control limits (at 10.0, 13.4, 10.0 and 9.0°C) when received at the laboratory. No data have been qualified based on the deviations.

The pH of sample MW-23S was greater than 2 when received at the laboratory. Since the sample was delivered to the laboratory within six hours of collection and since the pH was adjusted by the laboratory upon receipt, no data have been qualified based on the deviation.

The concentration of potassium in the dissolved fraction of sample MW-22S exceeded the concentration of potassium in the total fraction by more than ten percent. Data for potassium have been qualified as estimated in MW-22S and MW-22S(dissolved) based on the concentrations. The concentration of selenium in the dissolved fraction of sample MW-22S greatly exceeded that of the total fraction. Based on the difference, data for this compound is deemed unreliable and has been rejected for the total and dissolved fraction of the sample.

12. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checksheets

Inorganic Data Validation Checklist

	YES	NO	NA
<u>Data Completeness and Deliverables</u>			
Is there a narrative or cover letter present?	<u>X</u>	<u> </u>	<u> </u>
Are the sample numbers included in the narrative?	<u> </u>	<u>X</u>	<u> </u>
Are the sample chain-of-custodies present?	<u>X</u>	<u> </u>	<u> </u>
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	<u>X</u>	<u> </u>	<u> </u>
<u>Form I to IX</u>			
Are all the Form I through Form IX labeled with:			
Laboratory name?	<u>X</u>	<u> </u>	<u> </u>
Sample No.?	<u>X</u>	<u> </u>	<u> </u>
SDG No.?	<u>X</u>	<u> </u>	<u> </u>
Correct units?	<u>X</u>	<u> </u>	<u> </u>
Matrix?	<u>X</u>	<u> </u>	<u> </u>
<u>Raw Data</u>			
Is the digestion log for flame AA/ICP present?	<u>X</u>	<u> </u>	<u> </u>
Is the digestion log for furnace AA present?	<u> </u>	<u> </u>	<u>X</u>
Is the distillation log for mercury present?	<u>X</u>	<u> </u>	<u> </u>
Is the distillation log for cyanides present?	<u>X</u>	<u> </u>	<u> </u>
Are pH values listed?	<u>X</u>	<u> </u>	<u> </u>
pH for metals analyses <2 (waters)?	<u> </u>	<u>X</u>	<u> </u>
pH for cyanide analyses >12 (waters)?	<u>X</u>	<u> </u>	<u> </u>
Percent solids calculation present for soils/sediments?	<u> </u>	<u> </u>	<u>X</u>
Are preparation dates present on sample preparation logs/bench sheets?	<u>X</u>	<u> </u>	<u> </u>
Are the measurement read out records present for:			
ICP	<u>X</u>	<u> </u>	<u> </u>
Flame AA	<u> </u>	<u> </u>	<u>X</u>
Furnace AA	<u> </u>	<u> </u>	<u>X</u>
Mercury	<u>X</u>	<u> </u>	<u> </u>
Cyanides	<u>X</u>	<u> </u>	<u> </u>

Inorganic Data Validation Checklist - Page 2

	YES	NO	NA
Is the data legible?	<u>X</u>	<u> </u>	<u> </u>
Is the data properly labeled?	<u>X</u>	<u> </u>	<u> </u>
<u>Holding Times</u>			
Were mercury analyses performed within 28 days?	<u>X</u>	<u> </u>	<u> </u>
Were cyanide distillations performed within 14 days?	<u>X</u>	<u> </u>	<u> </u>
Were other metal analysis performed within 6 months?	<u>X</u>	<u> </u>	<u> </u>
<u>Form I (Final Data)</u>			
Are all forms complete?	<u>X</u>	<u> </u>	<u> </u>
Are correct units indicated on Form I's?	<u>X</u>	<u> </u>	<u> </u>
Are soil sample results for each parameter corrected for percent solids?	<u> </u>	<u> </u>	<u>X</u>
Are all "less than IDL" values properly coded with "U"?	<u>X</u>	<u> </u>	<u> </u>
Are the correct concentration qualifiers used with final data?	<u>X</u>	<u> </u>	<u> </u>
Is a brief physical description of samples given on Form I's?	<u>X</u>	<u> </u>	<u> </u>
<u>Calibration</u>			
Is a record of at least 2 point calibration present for ICP analysis?	<u>X</u>	<u> </u>	<u> </u>
Is a record of 5 point calibration present for Hg analysis?	<u>X</u>	<u> </u>	<u> </u>
Is a record of 4 point calibration present for:			
Flame AA?	<u> </u>	<u> </u>	<u>X</u>
Furnace AA?	<u> </u>	<u> </u>	<u>X</u>
Cyanides?	<u>X</u>	<u> </u>	<u> </u>
Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?	<u>X</u>	<u> </u>	<u> </u>
Is correlation coefficient less than .995 for:			
Mercury Analysis?	<u> </u>	<u>X</u>	<u> </u>
Cyanide Analysis?	<u> </u>	<u>X</u>	<u> </u>

Inorganic Data Validation Checklist - Page 3

	YES	NO	NA
Atomic Absorption Analysis?	<u> </u>	<u> </u>	<u> X </u>
<u>Form II A (Initial and Continuing Calibration Verification)</u>			
Present and complete for all analytes?	<u> X </u>	<u> </u>	<u> </u>
Are all calibration standards (initial and continuing) within control limits for:			
Metals (90-110%)?	<u> X </u>	<u> </u>	<u> </u>
Hg (80-120%)?	<u> X </u>	<u> </u>	<u> </u>
Cyanides (85-115%)?	<u> X </u>	<u> </u>	<u> </u>
Was continuing calibration performed every 10 samples or every 2 hours?	<u> X </u>	<u> </u>	<u> </u>
Was the ICV for cyanides distilled?	<u> X </u>	<u> </u>	<u> </u>
<u>Form II B (CRDL Standards for AA and ICP)</u>			
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?	<u> </u>	<u> </u>	<u> X </u>
Was a mid-range calibration verification standard distilled and analyzed for cyanide analysis?	<u> X </u>	<u> </u>	<u> </u>
Was a 2xCRDL (or 2xIDL when IDL>CRDL) standard (CRI) analyzed for each ICP run?	<u> X </u>	<u> </u>	<u> </u>
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB, and twice every eight hours for each ICP run?	<u> X </u>	<u> </u>	<u> </u>
Are CRA and CRI standards within control limits for metals (60-120%)?	<u> X </u>	<u> </u>	<u> </u>
Is mid-range standard within control limits for cyanide (80-120%)?	<u> X </u>	<u> </u>	<u> </u>
<u>Form III (Initial and Continuing Calibration Blanks)</u>			
Present and complete?	<u> X </u>	<u> </u>	<u> </u>
Was an initial calibration blank analyzed?	<u> X </u>	<u> </u>	<u> </u>
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	<u> X </u>	<u> </u>	<u> </u>
Are all calibration blanks (when IDL<CRDL) less than or equal to the Contract Required Detection Limits (CRDLs)?	<u> X </u>	<u> </u>	<u> </u>

Inorganic Data Validation Checklist - Page 4

	YES	NO	NA
Are all calibration blanks less than two times Instrument Detection Limit (when $IDL > CRDL$)?	<u> </u>	<u> </u>	<u> X </u>
<u>Form III (Preparation Blank)</u>			
Was one prep. blank analyzed for:			
each Sample Delivery Group SDG)?	<u> X </u>	<u> </u>	<u> </u>
each batch of digested samples?	<u> X </u>	<u> </u>	<u> </u>
each matrix type?	<u> X </u>	<u> </u>	<u> </u>
Is concentration of prep. blank value less than the CRDL (when $IDL \leq CRDL$)?	<u> X </u>	<u> </u>	<u> </u>
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	<u> </u>	<u> </u>	<u> X </u>
Is concentration of prep. blank value less than two times IDL (when $IDL > CRDL$)?	<u> </u>	<u> </u>	<u> X </u>
Is concentration of prep. blank below the negative CRDL?	<u> </u>	<u> X </u>	<u> </u>
<u>Form IV (ICP Interference Check Sample)</u>			
Present and complete?	<u> X </u>	<u> </u>	<u> </u>
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	<u> X </u>	<u> </u>	<u> </u>
Are all ICS results inside the control limits ($\pm 20\%$)?	<u> X </u>	<u> </u>	<u> </u>
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?	<u> </u>	<u> </u>	<u> X </u>
<u>Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)</u>			
Present and complete for:			
each SDG?	<u> X </u>	<u> </u>	<u> </u>
each matrix type?	<u> X </u>	<u> </u>	<u> </u>
Was field blank used for spiked sample?	<u> </u>	<u> X </u>	<u> </u>
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits (75-125%)?	<u> </u>	<u> X </u>	<u> </u>
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?	<u> X </u>	<u> </u>	<u> </u>

Inorganic Data Validation Checklist - Page 5

	YES	NO	NA
<u>Aqueous</u>			
Are any spike recoveries:			
less than 30%?	<u>X</u>	<u> </u>	<u> </u>
between 30-74%?	<u>X</u>	<u> </u>	<u> </u>
between 126-150%?	<u> </u>	<u>X</u>	<u> </u>
greater than 150%?	<u>X</u>	<u> </u>	<u> </u>
<u>Soil/Sediment</u>			
Are any spike recoveries:			
less than 10%?	<u> </u>	<u> </u>	<u>X</u>
between 10-74%?	<u> </u>	<u> </u>	<u>X</u>
between 126-200%?	<u> </u>	<u> </u>	<u>X</u>
greater than 200%?	<u> </u>	<u> </u>	<u>X</u>
<u>Form VI (Lab Duplicates)</u>			
Present and complete for:			
each SDG?	<u>X</u>	<u> </u>	<u> </u>
each matrix type?	<u>X</u>	<u> </u>	<u> </u>
Was field blank used for duplicate analysis?	<u> </u>	<u>X</u>	<u> </u>
Are all values within control limits (RPD 20% or difference $\leq \pm$ CRDL)?	<u> </u>	<u>X</u>	<u> </u>
If no, are all results outside the control limits flagged with an * on Form I's and VI?	<u>X</u>	<u> </u>	<u> </u>
<u>Aqueous</u>			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?	<u> </u>	<u>X</u>	<u> </u>
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?	<u>X</u>	<u> </u>	<u> </u>
<u>Soil/Sediment</u>			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) > 100%?	<u> </u>	<u> </u>	<u>X</u>
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5xCRDL) > 2xCRDL?	<u> </u>	<u> </u>	<u>X</u>

Inorganic Data Validation Checklist - Page 6

	YES	NO	NA
<u>Field Duplicates</u>			
Were field duplicates analyzed?	<u>X</u>	<u> </u>	<u> </u>
<u>Aqueous</u>			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times CRDL?	<u> </u>	<u>X</u>	<u> </u>
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?	<u> </u>	<u>X</u>	<u> </u>
<u>Soil/Sediment</u>			
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?	<u> </u>	<u> </u>	<u>X</u>
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL) > 2xCRDL?	<u> </u>	<u> </u>	<u>X</u>
<u>Form VII (Laboratory Control Sample)</u>			
Was one LCS prepared and analyzed for:			
each SDG?	<u>X</u>	<u> </u>	<u> </u>
each batch samples digested/distilled?	<u>X</u>	<u> </u>	<u> </u>
<u>Aqueous LCS</u>			
Is any LCS recovery:			
less than 50%?	<u> </u>	<u>X</u>	<u> </u>
between 50% and 79%?	<u> </u>	<u>X</u>	<u> </u>
between 121% and 150%?	<u> </u>	<u>X</u>	<u> </u>
greater than 150%?	<u> </u>	<u>X</u>	<u> </u>
<u>Solid LCS</u>			
Is LCS "Found" value higher than the control limits on Form VII?	<u> </u>	<u> </u>	<u>X</u>
Is LCS "Found" lower than the control limits on Form VII?	<u> </u>	<u> </u>	<u>X</u>
<u>Form IX (ICP Serial Dilution)</u>			
Was Serial Dilution analysis performed for:			
each SDG?	<u>X</u>	<u> </u>	<u> </u>
each matrix type?	<u>X</u>	<u> </u>	<u> </u>

Inorganic Data Validation Checklist - Page 7

	YES	NO	NA
Was field blank(s) used for Serial Dilution Analysis?	<u> </u>	<u> X </u>	<u> </u>
Are results outside control limit flagged with an "E" on Form I's and Form IX when initial concentration on Form IX is equal to 50 times IDL or greater.	<u> </u>	<u> </u>	<u> X </u>
Are any required % difference values:			
> 10%?	<u> </u>	<u> X </u>	<u> </u>
≥100%?	<u> </u>	<u> X </u>	<u> </u>
<u>Furnace Atomic Absorption (AA) QC Analysis</u>			
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?	<u> </u>	<u> </u>	<u> X </u>
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?	<u> </u>	<u> </u>	<u> X </u>
Were dilutions analyzed for samples with analytical spike recovery less than 40%?	<u> </u>	<u> </u>	<u> X </u>
Is analytical spike recovery outside the control limits (85-115%) for any sample?	<u> </u>	<u> </u>	<u> X </u>
<u>Form VIII (Method of Standard Addition Results)</u>			
Present?	<u> </u>	<u> X </u>	<u> </u>
If no, is any Form I result coded with "S" or "+"?	<u> </u>	<u> X </u>	<u> </u>
Was MSA required for any sample but not performed?	<u> </u>	<u> X </u>	<u> </u>
Is the coefficient of correlation for MSA less than 0.995 for any sample?	<u> </u>	<u> </u>	<u> X </u>
Is the coefficient of correlation for MSA less than 0.990 for any sample?	<u> </u>	<u> </u>	<u> X </u>
Are MSA calculations outside the linear range of the calibration curve generated at the beginning of the analytical run?	<u> </u>	<u> </u>	<u> X </u>
Was proper quantitation procedure followed?	<u> </u>	<u> </u>	<u> X </u>
<u>Dissolved/Total for Inorganic/Total Analytes</u>			
Were any analyses performed for dissolved as well as total analytes on the same sample.	<u> X </u>	<u> </u>	<u> </u>

Inorganic Data Validation Checklist - Page 8

	YES	NO	NA
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if greater than CRDL)	<u>X</u>	<u> </u>	<u> </u>
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?	<u> </u>	<u>X</u>	<u> </u>
<u>Field Blank</u>			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?	<u> </u>	<u> </u>	<u>X</u>
If no, was field blank value already rejected due to other QC criteria?	<u> </u>	<u> </u>	<u>X</u>
<u>Form X, XI, XII (Verification of Instrumental Parameters)</u>			
Is verification report present for :			
Instrument Detection Limits (quarterly)?	<u>X</u>	<u> </u>	<u> </u>
ICP Interelement Correlation Factors (annually)?	<u>X</u>	<u> </u>	<u> </u>
ICP Linear Ranges (quarterly)?	<u>X</u>	<u> </u>	<u> </u>
Are IDLs present for:			
all the analytes?	<u>X</u>	<u> </u>	<u> </u>
all the instruments used?	<u>X</u>	<u> </u>	<u> </u>
Is IDL greater than CRDL for any analyte?	<u> </u>	<u>X</u>	<u> </u>
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.	<u> </u>	<u> </u>	<u>X</u>
Was any sample result higher than the linear range of ICP.	<u>X</u>	<u> </u>	<u> </u>
Was any sample result higher than the highest calibration standard for non-ICP parameters?	<u> </u>	<u>X</u>	<u> </u>
If yes for any of the above, was the sample diluted to obtain the result on Form I?	<u>X</u>	<u> </u>	<u> </u>
<u>Percent Solids</u>			
Are the percent solids in soil/sediment(s):			
< 50%?	<u> </u>	<u> </u>	<u>X</u>
< 10%?	<u> </u>	<u> </u>	<u>X</u>

Corrected Sample Analysis Data Sheets

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

GW-DUP-1

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID: L52682-6

Level (low/med): LOW

Date Received: 07/15/99

Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	474	—		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	1040			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	172000			P
7440-47-3	Chromium	3.1	B		P
7440-48-4	Cobalt	6.7	B		P
7440-50-8	Copper	2.4	B		P
7439-89-6	Iron	18800			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	27800			P
7439-96-5	Manganese	10800			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	6.6	B		P
7440-09-7	Potassium	8100			P
7782-49-2	Selenium	4.3	B		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	178000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
57-12-5	Cyanide	196			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

FORM I - IN

10/95

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NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-11

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID: L52682-5

Level (low/med): LOW

Date Received: 07/15/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	88.0	U		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	13.9			P
7440-39-3	Barium	199	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	198000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.1	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	39800			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	39500			P
7439-96-5	Manganese	5750			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	9540			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	74400			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	18.7	B		P
57-12-5	Cyanide	10.0	U		C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-15S

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID: L52674-2

Level (low/med): LOW

Date Received: 07/14/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	428	-		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	254			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	105000			P
7440-47-3	Chromium	2.8	B		P
7440-48-4	Cobalt	1.2	B		P
7440-50-8	Copper	3.0	B		P
7439-89-6	Iron	5590			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	11100			P
7439-96-5	Manganese	913			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5410			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	75300			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	4.4	B		P
57-12-5	Cyanide	10.0	U		C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-16D

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID: L52645-2

Level (low/med): LOW

Date Received: 07/13/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	224	—		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	6.2	B		P
7440-39-3	Barium	1010			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	193000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	4.9	B		P
7440-50-8	Copper	4.0	B		P
7439-89-6	Iron	19500			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	27600			P
7439-96-5	Manganese	3080			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	8060			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	240000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	5.3	B		P
57-12-5	Cyanide	118			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

FORM I - IN

10/95

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NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-16R

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID: L52674-1

Level (low/med): LOW

Date Received: 07/14/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11900			P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	1790			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	10300			P
7440-47-3	Chromium	33.6			P
7440-48-4	Cobalt	11.1	B		P
7440-50-8	Copper	16.6	B		P
7439-89-6	Iron	22000			P
7439-92-1	Lead	9.3			P
7439-95-4	Magnesium	7330			P
7439-96-5	Manganese	345			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	30.1	B		P
7440-09-7	Potassium	7820			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	354000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	19.4	B		P
7440-66-6	Zinc	59.1			P
57-12-5	Cyanide	254			C

Color Before: grey

Clarity Before: cloudy

Texture:

Color After: yellow

Clarity After: cloudy

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

FORM I - IN

10/95

206

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-16R
DISSOLVED

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID: DL52674-7

Level (low/med): LOW

Date Received: 07/14/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	103	B	N*J	P
7440-36-0	Antimony	5.0	N	N	P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	1460			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	5150			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.4	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	141		N*J	P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	688	B		P
7439-96-5	Manganese	21.2			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	6280			P
7782-49-2	Selenium	5.6		N*J	P
7440-22-4	Silver	2.0	N	N	P
7440-23-5	Sodium	361000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
57-12-5	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

DISSOLVED

NA WAS ANALYZED AT A 10X DILUTION.

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-17D

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID: L52760-6

Level (low/med): LOW

Date Received: 07/17/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	821	-		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	5.3	B		P
7440-39-3	Barium	5530			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	237000			P
7440-47-3	Chromium	2.8	B		P
7440-48-4	Cobalt	5.6	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	27900			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	59400			P
7439-96-5	Manganese	4890			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	9730			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	277000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
57-12-5	Cyanide	332			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

FORM I - IN

10/95

208

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-17S

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID: L52674-3

Level (low/med): LOW

Date Received: 07/14/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	485			P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	12.3			P
7440-39-3	Barium	1560			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	194000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.4	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	57200			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	44700			P
7439-96-5	Manganese	7670			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	6710			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	172000			P
7440-28-0	Thallium	6.2	B		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
57-12-5	Cyanide	161			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-18S

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID: L52682-2

Level (low/med): LOW

Date Received: 07/15/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	524	-		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	1090			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	175000			P
7440-47-3	Chromium	2.4	B		P
7440-48-4	Cobalt	6.1	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	20200			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	28300			P
7439-96-5	Manganese	11000			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	7.4	B		P
7440-09-7	Potassium	8380			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	181000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
57-12-5	Cyanide	194			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-19D

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID: L52645-1

Level (low/med): LOW

Date Received: 07/13/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	424	—		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	83.1	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.1	B		P
7440-70-2	Calcium	147000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	10.7	B		P
7440-50-8	Copper	2.8	B		P
7439-89-6	Iron	5430			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	30200			P
7439-96-5	Manganese	9430			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	18800			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	126000			P
7440-28-0	Thallium	6.5	B		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	9.5	B		P
57-12-5	Cyanide	66.8			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

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10/95

211

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-22S

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID: L52760-4

Level (low/med): LOW

Date Received: 07/17/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	953			P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	13.5			P
7440-39-3	Barium	164	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.5	B		P
7440-70-2	Calcium	217000			P
7440-47-3	Chromium	38.0			P
7440-48-4	Cobalt	18.0	B		P
7440-50-8	Copper	24.0	B		P
7439-89-6	Iron	36500			P
7439-92-1	Lead	48.4			P
7439-95-4	Magnesium	32600			P
7439-96-5	Manganese	962			P
7439-97-6	Mercury	0.19	B		AV
7440-02-0	Nickel	45.1			P
7440-09-7	Potassium	10500		J	P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	19800			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	7.2	B		P
7440-66-6	Zinc	89.7			P
57-12-5	Cyanide	10.0	U		C

Color Before: brown

Clarity Before: cloudy

Texture:

Color After: yellow

Clarity After: cloudy

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-22S
DISSOLVED

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID: DL52760-5

Level (low/med): LOW

Date Received: 07/17/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	88.0	U	N* 10	P
7440-36-0	Antimony	5.0	U	N 15	P
7440-38-2	Arsenic	4.5	B		P
7440-39-3	Barium	103	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	215000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	6.6	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	1820		N* J	P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	32400			P
7439-96-5	Manganese	950			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.5	B		P
7440-09-7	Potassium	12100		J	P
7782-49-2	Selenium	26.0		N J	P
7440-22-4	Silver	2.0	U	N 10	P
7440-23-5	Sodium	19900			P
7440-28-0	Thallium	12.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	27.7			P
57-12-5	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

DISSOLVED

TL WAS ANALYZED AT A 2X DILUTION.

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213

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-23S

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID: L52682-1

Level (low/med): LOW

Date Received: 07/15/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1760	-		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	10.4			P
7440-39-3	Barium	3250			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.1	B		P
7440-70-2	Calcium	198000			P
7440-47-3	Chromium	3.4	B		P
7440-48-4	Cobalt	6.0	B		P
7440-50-8	Copper	8.9	B		P
7439-89-6	Iron	50300			P
7439-92-1	Lead	2.9	B		P
7439-95-4	Magnesium	41600			P
7439-96-5	Manganese	10200			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	18100			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	271000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.9	B		P
7440-66-6	Zinc	11.0	B		P
57-12-5	Cyanide	263			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-24S

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID: L52751-2

Level (low/med): LOW

Date Received: 07/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	565	—		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	9.0	B		P
7440-39-3	Barium	1540			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	217000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	4.3	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	15300			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	42800			P
7439-96-5	Manganese	5020			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	9760			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	281000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
57-12-5	Cyanide	131			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-25S

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID: L52751-3

Level (low/med): LOW

Date Received: 07/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	343	-		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	416			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.4	B		P
7440-70-2	Calcium	171000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	8290			P
7439-92-1	Lead	2.5	B		P
7439-95-4	Magnesium	36900			P
7439-96-5	Manganese	3920			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	8560			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	211000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
57-12-5	Cyanide	10.0	U		C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

FORM I - IN

10/95

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

RB-01

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID: L52760-2

Level (low/med): LOW

Date Received: 07/17/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	88.0	U		P
7440-36-0	Antimony	5.5	B		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	1.0	U		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	52.0	U		P
7440-47-3	Chromium	3.4	B		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	139			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	32.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	789	U		P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	537	U		P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
57-12-5	Cyanide	10.0	U		C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

RB-01

DISSOLVED

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52645

Matrix (soil/water): Water

Lab Sample ID:DL52760-3

Level (low/med): LOW

Date Received: 07/17/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	88.0	U	N*	P
7440-36-0	Antimony	5.0	U	N	P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	2.9	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	253	B		P
7440-47-3	Chromium	2.7	B		P
7440-48-4	Cobalt	1.0	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	52.0	U	N*	P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	37.2	B		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	789	U		P
7782-49-2	Selenium	3.0	U	N	P
7440-22-4	Silver	2.0	U	N	P
7440-23-5	Sodium	537	U		P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
57-12-5	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

DISSOLVED

SUPPLEMENTAL PARAMETER RESULTS



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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52645
DATE: 07/27/99

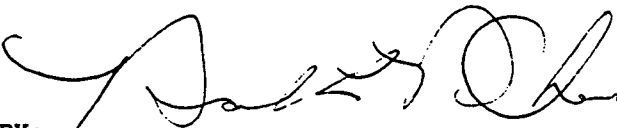
SAMPLE NUMBER- 193653 SAMPLE ID- MW-19D
DATE SAMPLED- 07/13/99
DATE RECEIVED- 07/14/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1400 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1150
RECEIVED BY- CAM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
NITRATE as N	EPA 353.3	07/15/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/15/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	07/21/99		JDC	107. mg/L
SULFIDE AS S2-	EPA 376.1	07/20/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 



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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52645
DATE: 07/27/99

SAMPLE NUMBER- 193654 SAMPLE ID- MW-16D
DATE SAMPLED- 07/13/99
DATE RECEIVED- 07/14/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1400 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1550
RECEIVED BY- CAM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
NITRATE as N	EPA 353.3	07/15/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/15/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	07/21/99		JDC	69.4 mg/L
SULFIDE AS S2-	EPA 376.1	07/20/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52645
DATE: 07/27/99

SAMPLE NUMBER- 193655 SAMPLE ID- MW-16R
DATE SAMPLED- 07/13/99
DATE RECEIVED- 07/14/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1400 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1110
RECEIVED BY- CAM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
NITRATE as N	EPA 353.3	07/15/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/15/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	07/21/99		JDC	49.4 mg/L
SULFIDE AS S2-	EPA 376.1	07/20/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52645
DATE: 07/27/99

SAMPLE NUMBER- 193656 SAMPLE ID- MW-15S
DATE SAMPLED- 07/13/99
DATE RECEIVED- 07/14/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1400 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1335
RECEIVED BY- CAM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
NITRATE as N	EPA 353.3	07/15/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/15/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	07/21/99		JDC	42.2 mg/L
SULFIDE AS S2-	EPA 376.1	07/20/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52645
DATE: 07/27/99

SAMPLE NUMBER- 193657 SAMPLE ID- MW-17S
DATE SAMPLED- 07/13/99
DATE RECEIVED- 07/14/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1400 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1550
RECEIVED BY- CAM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
NITRATE as N	EPA 353.3	07/15/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/15/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	07/21/99		JDC	9.73 mg/L
SULFIDE AS S2-	EPA 376.1	07/20/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52682
DATE: 07/26/99

SAMPLE NUMBER- 193830 SAMPLE ID- MW-23S
DATE SAMPLED- 07/14/99
DATE RECEIVED- 07/16/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1340 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1006
RECEIVED BY- CAM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
NITRATE as N	EPA 353.3	07/16/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/16/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	07/21/99		JDC	8.58 mg/L
SULFIDE AS S2-	EPA 376.1	07/20/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52682
DATE: 07/26/99

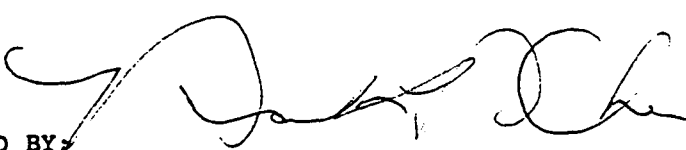
SAMPLE NUMBER- 193831 SAMPLE ID- MW-18S
DATE SAMPLED- 07/14/99
DATE RECEIVED- 07/16/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1340 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1251
RECEIVED BY- CAM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
NITRATE as N	EPA 353.3	07/16/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/16/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	07/21/99		JDC	10.0 mg/L
SULFIDE AS S2-	EPA 376.1	07/20/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52682
DATE: 07/26/99

SAMPLE NUMBER- 193832 SAMPLE ID- MW-11
DATE SAMPLED- 07/14/99
DATE RECEIVED- 07/16/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1340 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1524
RECEIVED BY- CAM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
NITRATE as N	EPA 353.3	07/16/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/16/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	07/21/99		JDC	42.2 mg/L
SULFIDE AS S2-	EPA 376.1	07/20/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52682
DATE: 07/26/99

SAMPLE NUMBER- 193833	SAMPLE ID- GW-DUP-1	SAMPLE MATRIX- WA
DATE SAMPLED- 07/14/99		
DATE RECEIVED- 07/16/99	SAMPLER- Information Not Provided	RECEIVED BY- CAM
TIME RECEIVED- 1340	DELIVERED BY- Dan Leone	TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
NITRATE as N	EPA 353.3	07/16/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/16/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	07/21/99		JDC	9.87 mg/L
SULFIDE AS S2-	EPA 376.1	07/20/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52751
DATE: 07/27/99

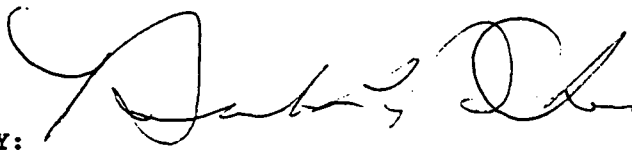
SAMPLE NUMBER- 193838 SAMPLE ID- MW-24S
DATE SAMPLED- 07/15/99
DATE RECEIVED- 07/16/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1340 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 0918
RECEIVED BY- CAM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
NITRATE as N	EPA 353.3	07/16/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/16/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	07/21/99		JDC	42.9 mg/L
SULFIDE AS S2-	EPA 376.1	07/20/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52751
DATE: 07/27/99

SAMPLE NUMBER- 193839 SAMPLE ID- MW-25S
DATE SAMPLED- 07/15/99
DATE RECEIVED- 07/16/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1340 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1030
RECEIVED BY- CAM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
NITRATE as N	EPA 353.3	07/16/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/16/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	07/21/99		JDC	48.7 mg/L
SULFIDE AS S2-	EPA 376.1	07/20/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 



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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52760
DATE: 07/26/99

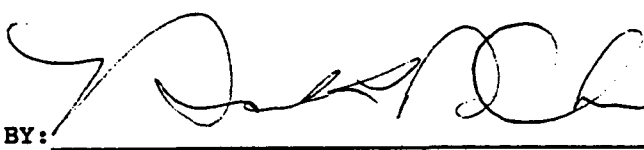
SAMPLE NUMBER- 193905 SAMPLE ID- RB-01
DATE SAMPLED- 07/16/99
DATE RECEIVED- 07/19/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1340 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1530
RECEIVED BY- CAM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
NITRATE as N	EPA 353.3	07/20/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/20/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	07/21/99		JDC	3.72 mg/L
SULFIDE AS S2-	EPA 376.1	07/20/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 



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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52760
DATE: 07/26/99

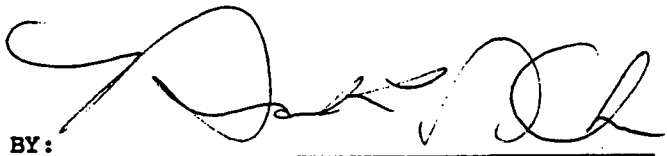
SAMPLE NUMBER- 193906 SAMPLE ID- MW-22S
DATE SAMPLED- 07/16/99
DATE RECEIVED- 07/19/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1340 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1131
RECEIVED BY- CAM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
NITRATE as N	EPA 353.3	07/20/99		JDC	0.14	mg/L
NITRITE	EPA 354.1	07/20/99		JDC	< 0.02	mg/L
SULFATE	SM15 426C	07/21/99		JDC	241.	mg/L
SULFIDE AS S2-	EPA 376.1	07/20/99		JDC	< 1.	mg/L

NYSDOH LAB ID NO. 11246

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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52760
DATE: 07/26/99

SAMPLE NUMBER- 193907 SAMPLE ID- MW-17D
DATE SAMPLED- 07/16/99
DATE RECEIVED- 07/19/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1340 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1452
RECEIVED BY- CAM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
NITRATE as N	EPA 353.3	07/20/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/20/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	07/21/99		JDC	8.15 mg/L
SULFIDE AS S2-	EPA 376.1	07/20/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 

Laboratory Narrative



6601 Kirkville Road
E. Syracuse, NY 13057-0369
Phone: (315) 432-5227
Fax: (315) 437-0571
www.galsonlabs.com

Mr. Mike Jones
Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse, NY 13214

RE: NMPC North Albany; Project No. 364.69
SDG L52645

The following package contains the analytical results of the water samples submitted to our laboratory on July 13, 14, 15, 16 and 17, 1999. The samples were received intact and under proper chain of custody. The samples were assigned to logins L52645, L52674, L52682, L52751 and L52760, and sample delivery group (SDG) L52645.

The samples submitted for nitrate, nitrite, sulfate and sulfide analyses were subcontracted to Certified Environmental Services, Inc. Their report is included in its entirety in Appendix I.

The samples are reported according to ASP Category B guidelines. Sample MW-18S was submitted for matrix spike and matrix duplicate analyses. The samples were analyzed by SW846 methods 8260, 8270, 8082, 6010/7000 and 9010.

Background levels of methylene chloride have been higher than normal due to air handling difficulties in the GC/MS volatile lab during the time period these samples were analyzed by method 8260. Method blank and sample results have ranged as high as 50 ppb in both water and soils samples. All methylene chloride results have been flagged with a "B".

I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the *package review checklists*. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or manager's designee, as verified by the following signature.

Galson Laboratories

Date: September 9, 1999

NYSDEC Sample Preparation and Analysis Summary Sheets

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
GW-DUP-1 L52682-6	Water	14-JUL-99	15-JUL-99	NA	16-JUL-99
MW-11 L52682-5	Water	14-JUL-99	15-JUL-99	NA	16-JUL-99
MW-15S L52674-2	Water	13-JUL-99	14-JUL-99	NA	15-JUL-99
MW-16D L52674-4	Water	12-JUL-99	14-JUL-99	NA	15-JUL-99
MW-16R L52674-1	Water	13-JUL-99	14-JUL-99	NA	15-JUL-99
MW-17D L52760-6	Water	16-JUL-99	17-JUL-99	NA	19-JUL-99
MW-17S L52674-3	Water	13-JUL-99	14-JUL-99	NA	15-JUL-99
MW-18S L52682-2	Water	14-JUL-99	15-JUL-99	NA	16-JUL-99
MW-18S MS L52682-3	Water	14-JUL-99	15-JUL-99	NA	16-JUL-99
MW-18S MSD L52682-4	Water	14-JUL-99	15-JUL-99	NA	16-JUL-99
MW-19D L52674-5	Water	13-JUL-99	14-JUL-99	NA	15-JUL-99
MW-22S L52760-4	Water	16-JUL-99	17-JUL-99	NA	19-JUL-99
MW-23S L52682-1	Water	14-JUL-99	15-JUL-99	NA	16-JUL-99
MW-23S DL L52682-1 DL	Water	14-JUL-99	15-JUL-99	NA	19-JUL-99
MW-24S L52751-2	Water	15-JUL-99	16-JUL-99	NA	19-JUL-99
MW-25S L52751-3	Water	15-JUL-99	16-JUL-99	NA	19-JUL-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Clean up	Dil/Conc Factor
GW-DUP-1 L52682-6	WATER	SW846 8260	NA		1
MW-11 L52682-5	WATER	SW846 8260	NA		1
MW-15S L52674-2	WATER	SW846 8260	NA		1
MW-16D L52674-4	WATER	SW846 8260	NA		1
MW-16R L52674-1	WATER	SW846 8260	NA		10
MW-17D L52760-6	WATER	SW846 8260	NA		5
MW-17S L52674-3	WATER	SW846 8260	NA		10
MW-18S L52682-2	WATER	SW846 8260	NA		1
MW-18S MS L52682-3	WATER	SW846 8260	NA		1
MW-18S MSD L52682-4	WATER	SW846 8260	NA		1
MW-19D L52674-5	WATER	SW846 8260	NA		1
MW-22S L52760-4	WATER	SW846 8260	NA		1
MW-23S L52682-1	WATER	SW846 8260	NA		1
MW-23S L52682-1	WATER	SW846 8260	NA		5
MW-24S L52751-2	WATER	SW846 8260	NA		1
MW-25S L52751-3	WATER	SW846 8260	NA		1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
GW-DUP-1 L52682-6	WATER	14-JUL-99	15-JUL-99	20-JUL-99	17-AUG-99
GW-DUP-1 DL L52682-6 DL	WATER	14-JUL-99	15-JUL-99	20-JUL-99	23-AUG-99
MW-11 L52682-5	WATER	14-JUL-99	15-JUL-99	20-JUL-99	17-AUG-99
MW-15S L52674-2	WATER	13-JUL-99	14-JUL-99	16-JUL-99	12-AUG-99
MW-16D L52645-2	WATER	12-JUL-99	13-JUL-99	15-JUL-99	12-AUG-99
MW-16R L52674-1	WATER	13-JUL-99	14-JUL-99	16-JUL-99	12-AUG-99
MW-16R DL L52674-1 DL	WATER	13-JUL-99	14-JUL-99	16-JUL-99	13-AUG-99
MW-17D L52760-6	WATER	16-JUL-99	17-JUL-99	22-JUL-99	24-AUG-99
MW-17S L52674-3	WATER	13-JUL-99	14-JUL-99	16-JUL-99	12-AUG-99
MW-18S L52682-2	WATER	14-JUL-99	15-JUL-99	20-JUL-99	18-AUG-99
MW-18S DL L52682-2 DL	WATER	14-JUL-99	15-JUL-99	20-JUL-99	19-AUG-99
MW-18S MS L52682-3	WATER	14-JUL-99	15-JUL-99	20-JUL-99	14-AUG-99
MW-18S MSD L52682-4	WATER	14-JUL-99	15-JUL-99	20-JUL-99	14-AUG-99
MW-19D L52645-1	WATER	12-JUL-99	13-JUL-99	15-JUL-99	12-AUG-99
MW-22S L52760-4	WATER	16-JUL-99	17-JUL-99	22-JUL-99	16-AUG-99
MW-23S L52682-1	WATER	14-JUL-99	15-JUL-99	20-JUL-99	13-AUG-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Clean up	Dil/Conc Factor
GW-DUP-1 L52682-6	WATER	SW846 8270	SW846/3520 /8270	None	25
GW-DUP-1 DL L52682-6 DL	WATER	SW846 8270	SW846/3520 /8270		50
MW-11 L52682-5	WATER	SW846 8270	SW846/3520 /8270		1
MW-15S L52674-2	WATER	SW846 8270	SW846/3520 /8270		1
MW-16D L52645-2	WATER	SW846 8270	SW846/3520 /8270		1
MW-16R L52674-1	WATER	SW846 8270	SW846/3520 /8270		1
MW-16R DL L52674-1 DL	WATER	SW846 8270	SW846/3520 /8270		20
MW-17D L52760-6	WATER	SW846 8270	SW846/3520 /8270		1
MW-17S L52674-3	WATER	SW846 8270	SW846/3520 /8270		1
MW-18S L52682-2	WATER	SW846 8270	SW846/3520 /8270		25
MW-18S DL L52682-2 DL	WATER	SW846 8270	SW846/3520 /8270		50
MW-18S MS L52682-3	WATER	SW846 8270	SW846/3520 /8270		1
MW-18S MSD L52682-4	WATER	SW846 8270	SW846/3520 /8270		1
MW-19D L52645-1	WATER	SW846 8270	SW846/3520 /8270		1
MW-22S L52760-4	WATER	SW846 8270	SW846/3520 /8270		1
MW-23S L52682-1	WATER	SW846 8270	SW846/3520 /8270	↓	1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
GW-DUP-1 L52682-6	WATER	14-JUL-99	15-JUL-99	20-JUL-99	29-JUL-99
MW-11 L52682-5	WATER	14-JUL-99	15-JUL-99	20-JUL-99	29-JUL-99
MW-15S L52674-2	WATER	13-JUL-99	14-JUL-99	17-JUL-99	18-JUL-99
MW-16D L52645-2	WATER	12-JUL-99	13-JUL-99	14-JUL-99	15-JUL-99
MW-16R L52674-1	WATER	13-JUL-99	14-JUL-99	17-JUL-99	18-JUL-99
MW-17D L52760-6	WATER	16-JUL-99	17-JUL-99	22-JUL-99	29-JUL-99
MW-17S L52674-3	WATER	13-JUL-99	14-JUL-99	17-JUL-99	18-JUL-99
MW-18S L52682-2	WATER	14-JUL-99	15-JUL-99	20-JUL-99	29-JUL-99
MW-18S MS L52682-3	WATER	14-JUL-99	15-JUL-99	20-JUL-99	29-JUL-99
MW-18S MSD L52682-4	WATER	14-JUL-99	15-JUL-99	20-JUL-99	29-JUL-99
MW-19D L52645-1	WATER	12-JUL-99	13-JUL-99	14-JUL-99	15-JUL-99
MW-22S L52760-4	WATER	16-JUL-99	17-JUL-99	22-JUL-99	29-JUL-99
MW-23S L52682-1	WATER	14-JUL-99	15-JUL-99	20-JUL-99	29-JUL-99
MW-24S L52751-2	WATER	15-JUL-99	16-JUL-99	21-JUL-99	30-JUL-99
MW-25S L52751-3	WATER	15-JUL-99	16-JUL-99	21-JUL-99	30-JUL-99
RB-01 L52760-2	WATER	16-JUL-99	17-JUL-99	22-JUL-99	29-JUL-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Clean up	Dil/Conc Factor
GW-DUP-1 L52682-6	Water	SPB NYSR ASP CAT B	SW846/3510	ACID WASH ALLOWED	1
MW-11 L52682-5	Water		SW846/3510		1
MW-15S L52674-2	Water		SW846/3510		1
MW-16D L52645-2	Water		SW846/3510		1
MW-16R L52674-1	Water		SW846/3510		1
MW-17D L52760-6	Water		SW846/3510		1
MW-17S L52674-3	Water		SW846/3510		1
MW-18S L52682-2	Water		SW846/3510		1
MW-18S MS L52682-3	Water		SW846/3510		1
MW-18S MSD L52682-4	Water		SW846/3510		1
MW-19D L52645-1	Water		SW846/3510		1
MW-22S L52760-4	Water		SW846/3510		1
MW-23S L52682-1	Water		SW846/3510		1
MW-24S L52751-2	Water		SW846/3510		1
MW-25S L52751-3	Water		SW846/3510		1
RB-01 L52760-2	Water		SW846/3510		1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

INORGANIC SAMPLE ANALYSIS SUMMARY

SAMPLE ID	MATRIX	INORGANICS REQUESTED	DATE REC'D	DATE ANALYZED
GW-OUP-1 L52682-6	WATER	TAL METALS CN	7/15/99	ICP : 07/30/99 Hg : 07/28/99 CN : 07/22/99
MW-11 L52682-5	WATER	TAL METALS CN	7/15/99	ICP : 07/30/99 Hg : 07/28/99 CN : 07/22/99
MW-15S L52674-2	WATER	TAL METALS CN	7/14/99	ICP : 07/30/99 Hg : 07/28/99 CN : 07/22/99
MW-16D L52645-2	WATER	TAL METALS CN	7/13/99	ICP : 07/30/99 Hg : 07/28/99 CN : 07/22/99
MW-16R L52674-1	WATER	TAL METALS CN	7/14/99	ICP : 07/30/99 Hg : 07/28/99 CN : 07/22/99
MW-16R DL52674-7	DISSOLVED WATER	TAL METALS ~~CN~~ <i>gm</i>	7/14/99	ICP : 07/30/99 Hg : 07/28/99 ~~CN : 07/22/99~~ <i>gm</i>
MW-16RMS DL52674-7S	DISSOLVED WATER	TAL METALS	7/14/99	ICP : 07/30/99 Hg : 07/28/99
MW-16RMSD DL52674-7D	DISSOLVED WATER	TAL METALS	7/14/99	ICP : 07/30/99 Hg : 07/28/99
MW-17D L52760-6	WATER	TAL METALS CN	7/17/99	ICP : 07/30/99 Hg : 07/28/99 CN : 07/22/99
MW-17S L52674-3	WATER	TAL METALS CN	7/14/99	ICP : 07/30/99 Hg : 07/28/99 CN : 07/22/99
MW-18S L52682-2	WATER	TAL METALS CN	7/15/99	ICP : 07/30/99 Hg : 07/28/99 CN : 07/22/99
MW-18SMS L52682-3S	WATER	TAL METALS CN	7/15/99	ICP : 07/30/99 Hg : 07/28/99 CN : 07/22/99
MW-18SMSD L52682-4D	WATER	TAL METALS CN	7/15/99	ICP : 07/30/99 Hg : 07/28/99 CN : 07/22/99
MW-19D L52645-1	WATER	TAL METALS CN	7/13/99	ICP : 07/30/99 Hg : 07/28/99 CN : 07/22/99
MW-22S L52760-4	WATER	TAL METALS CN	7/17/99	ICP : 07/30/99 Hg : 07/28/99 CN : 07/22/99
MW-22S DL52760-5	DISSOLVED WATER	TAL METALS ~~CN~~ <i>gm</i>	7/17/99	ICP : 07/30/99 Hg : 07/28/99 ~~CN : 07/22/99~~ <i>gm</i>
MW-23S L52682-1	WATER	TAL METALS CN	7/15/99	ICP : 07/30/99 Hg : 07/28/99 CN : 07/22/99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

INORGANIC SAMPLE ANALYSIS SUMMARY

SAMPLE ID	MATRIX	INORGANICS REQUESTED	DATE REC'D	DATE ANALYZED
MW-24S L52751-2	WATER	TAL METALS CN	7/16/99	ICP : 07/30/99 Hg : 07/28/99 CN : 07/22/99
MW-25S L52751-3	WATER	TAL METALS CN	7/16/99	ICP : 07/30/99 Hg : 07/28/99 CN : 07/22/99
RB-01 DL52760-3	DISSOLVED WATER	TAL METALS ~~CN~~ <i>in</i>	7/17/99	ICP : 07/30/99 Hg : 07/28/99 ~~CN : 07/22/99~~ <i>in</i>
RB-01 L52760-2	WATER	TAL METALS CN	7/17/99	ICP : 07/30/99 Hg : 07/28/99 CN : 07/22/99

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliance ¹				Noncompliance
					VOA	BNA	PCB	TAL	
L52645	7/12/99	1995	MW-16D	water	no	no	yes	no	VOA- blank BNA- calibration ³ , ms, msb TAL- blank
L52645	7/12/99	1995	MW-19D	water	no	no	yes	no	VOA- blank BNA- calibration ³ , ms, msb TAL- blank
L52645	7/13/99	1995	MW-15S	water	no	no	yes	no	VOA- blank BNA- calibration ³ , ms, msb, blank TAL- blank
L52645	7/13/99	1995	MW-16R	water	no	no	yes	no	VOA- blank BNA- calibration ³ , ms, msb, blank TAL- ms ⁵ , dup ⁵
L52645	7/13/99	1995	MW-17S	water	no	no	yes	no	VOA- blank BNA- calibration ³ , ms, msb, blank TAL- blank
L52645	--	1995	TB-01	water	yes	--	--	--	
L52645	7/14/99	1995	MW-11	water	no	no	yes	no	VOA- blank, calibration ³ BNA- calibration ³ , ms, msb, surrogate TAL- blank
L52645	7/14/99	1995	MW-18S	water	no	no	yes	no	VOA- blank, calibration ³ BNA- calibration ⁴ TAL- blank
L52645	7/14/99	1995	MW-23S	water	no	no	yes	no	VOA- blank, calibration ³ BNA- calibration ³ , ms, msb, surrogate ² TAL- blank
L52645	7/14/99	1995	GW-DUP-1	water	no	no	yes	no	VOA- blank, calibration ³ BNA- calibration ³ , ms, msb, is TAL- blank
L52645	--	1995	TB-02	water	no	--	--	--	VOA- calibration ³
L52645	7/15/99	1995	MW-24S	water	no	no	yes	no	VOA- blank, calibration ³ BNA- ms, msb TAL- blank

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliance ¹				Noncompliance
					VOA	BNA	PCB	TAL	
L52645	7/15/99	1995	MW-25S	water	no	no	yes	no	VOA- blank, calibration ³ BNA- calibration ³ , ms, msb, surrogate TAL- blank
L52645	--	1995	TB-03	water	no	--	--	--	VOA- calibration ³
L52645	7/16/99	1995	MW-17D	water	no	no	yes	no	VOA- blank, calibration ³ BNA- calibration ³ , ms, msb TAL- blank
L52645	7/16/99	1995	MW-22S	water	no	no	yes	no	VOA- blank, calibration ³ BNA- calibration ⁴ , surrogate, is, ms, msb TAL- ms ⁵ , dup ⁵ , total/dissolved
L52645	7/16/99	1995	RB-01	water	no	no	yes	yes	VOA- calibration ³ BNA- calibration ⁴ , surrogate, is
L52645	--	1995	TB-04	water	no	-	-	-	VOA- calibration ³

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.
- 2 The non-compliance resulted in no qualification of data.
- 3 Although the deviation resulted in the qualification of data, the laboratory was method compliant.
- 4 The calibration was method-noncompliant.
- 5 Dissolved fraction.

SDG - L52841

Samples collected 7/19 - 7/22/99

DATA REVIEW FOR

NMPC
NORTH ALBANY

SDG# L52841

VOLATILE, SEMIVOLATILE, PCB
AND INORGANIC ANALYSES

Analyses performed by:

Galson Laboratories
East Syracuse, New York

Review performed by:

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Blasland, Bouck & Lee, Inc.
Syracuse, New York

Summary

The following is an assessment of the data package for SDG# L52841 for sampling at the NMPC- North Albany. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis					
				VOA	BNA	PCB	TAL	TAL ¹	MISC ²
MW-22R	L52841-2	water	7/19/99	x	x	x	x		x
MW-22D	L52841-3	water	7/19/99	x	x	x	x		x
MW-21S	L52841-4	water	7/19/99	x	x	x	x		x
MW-21D	L52841-5	water	7/19/99	x	x	x	x		x
TB-05	L52841-1	water	--	x					
GW-DUP-2	L52864-2	water	7/20/99	x	x	x			x
MW-14 ³	L52864-3	water	7/20/99	x	x	x	x		x
MW-6D	L52864-6	water	7/20/99	x	x	x	x		x
TB-06	L52864-1	water	--	x					
MW-21R ⁴	L52899-2	water	7/21/99	x	x	x	x		x
MW-21R ⁴	L52899-3	water	7/21/99					x	
MW-9	L52899-8	water	7/21/99	x	x	x	x		x
MW-12	L52899-9	water	7/21/99	x	x	x	x		x
PZ-01S	L52899-10	water	7/21/99	x	x	x	x		x
PZ-01D	L52899-11	water	7/21/99	x	x	x	x		x
GW-DUP-2	L52899-12	water	7/21/99				x		
GW-DUP-2	L52899-13	water	7/21/99					x	
TB-06 (#2)	L52899-1	water	--	x					
RB-02	L52946-2	water	7/22/99	x	x	x	x		x
MW-3	L52946-3	water	7/22/99	x	x	x	x		x
MW-20D	L52946-4	water	7/22/99	x	x	x	x		x
MW-1	L52946-5	water	7/22/99	x	x	x	x		x
TB-07	L52946-1	water	--	x					

1 Dissolved metals.

2 Miscellaneous parameters include nitrate, nitrite, sulfate and sulfide analyses. These analyses were subcontracted to Certified Environmental Services, Inc.

3 MS/MSD analysis for volatiles, semivolatiles and PCBs performed on sample

4 MS/DUP analysis for metals and cyanide performed on sample.

VOLATILE ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8260 as referenced in NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding time for volatile analyses under NYSASP is 10 days from sample receipt. The technical holding time for unpreserved waters is 7 days from sample collection for aromatic compounds and 14 days from collection for non-aromatic compounds.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, trip, field, and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure contamination of samples during shipment. Field and rinse blanks measure contamination of samples during field operations.

No compounds were detected in the rinse blank.

Methylene chloride was detected in three of the four method blank and in one of the four trip blanks. Based on blank content, data for methylene chloride have been qualified as undetected in samples MW-22R, MW-22D, MW-21S, MW-21D and MW-14.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) limits for select compounds only and allows two outliers. A technical review of the data applies limits to all compounds with no exceptions.

The %RSD for was less than 30% and all response factors were greater than 0.05 for all compounds, with the following exception:

Instrument MSC 7/15/99

Bromomethane 37.5%

All data for bromomethane have been qualified as estimated based on the %RSD.

4.2 Continuing Calibration

The method species percent drift (%D) criteria for select compounds only. A technical review applies limits to all compounds with no exceptions.

All compounds were within 25%D, with the following exceptions:

Instrument MSC 7/20/99 12:55

Methylene chloride	-30.3%
Acetone	56.7%
2-Butanone	33.3%

Data for methylene chloride have been qualified as estimated in the associated samples TB-05, MW-22R, MW-22D, MW-21S and MW-21D. Since no acetone or 2-butanone were detected in the samples and since the compounds responses were increasing, no additional data have been qualified based on the %D.

Instrument MSC 7/21/99 12:38

Acetone	87.5%
2-Butanone	56.0%
2-Hexanone	28.0%

Since none of the listed compounds were detected in the associated samples, no data have been qualified based on the %D.

Instrument MSC 7/22/99 12:56

Acetone	111.1%
2-Butanone	73.6%
2-Hexanone	47.0%

Since none of the listed compounds were detected in the associated samples, no data have been qualified based on the %D.

Instrument MSC 7/23/99 10:54

Acetone	86.7%
2-Butanone	33.3%

Since neither of the listed compounds were detected in the associated samples, no data have been qualified based on the %D.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every experimental run.

All internal standard responses and retention times were within established limits.

7. Compound Identification

Compounds are identified on the GC/MS by using the analyte's relative retention time and ion spectra.

All identified compounds met the specified criteria.

8. Matrix Spike/Matrix Spike Duplicate

Matrix spike and matrix spike duplicate data are used to assess the precision and accuracy of the analytical method.

All matrix spike and matrix spike duplicate recoveries were within control limits. The relative percent difference between recoveries was, however, outside control limits for toluene. No data have been qualified based on the deviation.

9. Matrix Spike Blank

All matrix spike blank recoveries were within control limits.

10. Field Duplicates

Results for duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-14 / GW-DUP-2	benzene	50	45	11.0%
	toluene	1J	ND	NA
	ethylbenzene	5	4J	22.0%
	xylene (total)	9	8	12.0%

ND Not detected.

NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The field duplicate results are acceptable.

11. General Comments

The temperatures for three of the four coolers were outside control limits (at 9.4, 9.3 and 7.0°C) when received at the laboratory. No data have been qualified based on the deviations.

12. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

Volatile Organics Data Validation Checklist

	YES	NO	NA
<u>Data Completeness and Deliverables</u>			
Have any missing deliverables been received and added to the data package?	<u> </u>	<u> X </u>	<u> </u>
Is there a narrative or cover letter present?	<u> X </u>	<u> </u>	<u> </u>
Are the sample numbers included in the narrative?	<u> </u>	<u> X </u>	<u> </u>
Are the sample chain-of-custodies present?	<u> X </u>	<u> </u>	<u> </u>
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	<u> X </u>	<u> </u>	<u> </u>
<u>Holding Times</u>			
Have any holding times been exceeded?	<u> </u>	<u> X </u>	<u> </u>
<u>Surrogate Recovery</u>			
Are surrogate recovery forms present?	<u> X </u>	<u> </u>	<u> </u>
Are all the samples listed on the appropriate surrogate recovery form?	<u> X </u>	<u> </u>	<u> </u>
Was one or more surrogate recoveries outside of specified limits for any sample or blank?	<u> </u>	<u> X </u>	<u> </u>
If yes, were the samples reanalyzed?	<u> </u>	<u> </u>	<u> X </u>
Are there any transcription/calculation errors between the raw data and the summary form?	<u> </u>	<u> X </u>	<u> </u>
<u>Matrix Spikes</u>			
Is there a matrix spike recovery form present?	<u> X </u>	<u> </u>	<u> </u>
Were matrix spikes analyzed at the required frequency?	<u> X </u>	<u> </u>	<u> </u>
How many spike recoveries were outside of QC limits?	<u> 0 </u> out of <u> 10 </u>		
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?	<u> 1 </u> out of <u> 5 </u>		
<u>Blanks</u>			
Is a method blank summary form present?	<u> X </u>	<u> </u>	<u> </u>
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	<u> X </u>	<u> </u>	<u> </u>

Volatile Organics Data Validation Checklist - Page 2

	YES	NO	NA
Has a blank been analyzed at least once every twelve hours for each system used?	<u> X </u>	<u> </u>	<u> </u>
Do any method/reagent/instrument blanks have positive results?	<u> X </u>	<u> </u>	<u> </u>
Are there trip/field/rinse blanks associated with every sample?	<u> X </u>	<u> </u>	<u> </u>
Do any trip/field/rinse blanks have positive results?	<u> X </u>	<u> </u>	<u> </u>
<u>Tuning and Mass Calibration</u>			
Are the GC/MS tuning forms present for BFB?	<u> X </u>	<u> </u>	<u> </u>
Are the bar graph spectrum and mass/charge listing provided for each BFB?	<u> X </u>	<u> </u>	<u> </u>
Has a BFB been analyzed for each twelve hours of analysis per instrument?	<u> X </u>	<u> </u>	<u> </u>
Have the ion abundance criteria been met for each instrument used?	<u> X </u>	<u> </u>	<u> </u>
Are the spectra and mass calibration acceptable?	<u> X </u>	<u> </u>	<u> </u>
<u>Target Analytes</u>			
Is an organics analysis data sheet present for each of the following:			
Samples	<u> X </u>	<u> </u>	<u> </u>
Matrix spikes	<u> X </u>	<u> </u>	<u> </u>
Blanks	<u> X </u>	<u> </u>	<u> </u>
Are the reconstructed ion chromatograms present for each of the following:			
Samples	<u> X </u>	<u> </u>	<u> </u>
Matrix spikes	<u> X </u>	<u> </u>	<u> </u>
Blanks	<u> X </u>	<u> </u>	<u> </u>
Is the chromatographic performance acceptable with respect to:			
Baseline stability	<u> X </u>	<u> </u>	<u> </u>
Resolution	<u> X </u>	<u> </u>	<u> </u>
Peak shape	<u> X </u>	<u> </u>	<u> </u>
Attenuation	<u> X </u>	<u> </u>	<u> </u>

Volatile Organics Data Validation Checklist - Page 3

	YES	NO	NA
Are the mass spectra of the identified compounds present?	<u>X</u>	<u> </u>	<u> </u>
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	<u>X</u>	<u> </u>	<u> </u>
Do the samples and standard relative ion intensities agree within 20%?	<u>X</u>	<u> </u>	<u> </u>
<u>Tentatively Identified Compounds</u>			
Are all the TIC summary forms present?	<u>X</u>	<u> </u>	<u> </u>
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?	<u>X</u>	<u> </u>	<u> </u>
Are any target compounds listed as TICs?	<u>X</u>	<u> </u>	<u> </u>
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	<u>X</u>	<u> </u>	<u> </u>
Do the TIC and "best match" spectrum agree within 20%?	<u>X</u>	<u> </u>	<u> </u>
<u>Quantitation and Detection Limits</u>			
Are there any transcription/calculation errors in the Form 1 results?	<u> </u>	<u>X</u>	<u> </u>
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	<u>X</u>	<u> </u>	<u> </u>
<u>Standard Data</u>			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	<u>X</u>	<u> </u>	<u> </u>
<u>Initial Calibration</u>			
Are the initial calibration forms present for each instrument used?	<u>X</u>	<u> </u>	<u> </u>
Are the response factor RSDs within acceptable limits?	<u> </u>	<u>X</u>	<u> </u>
Are the average RRFs equal to or greater than minimum requirements?	<u>X</u>	<u> </u>	<u> </u>
Are there any transcription/calculation errors in reporting the RRFs or RSDs?	<u> </u>	<u>X</u>	<u> </u>

Volatile Organics Data Validation Checklist - Page 4

	YES	NO	NA
<u>Continuing Calibration</u>			
Are the continuing calibration forms present for each day and each instrument?	<u>X</u>	<u> </u>	<u> </u>
Has a continuing calibration standard been analyzed for each twelve hours of analysis per instrument?	<u>X</u>	<u> </u>	<u> </u>
All %D within acceptable limits?	<u> </u>	<u>X</u>	<u> </u>
Are all RF equal to or greater than minimum requirements?	<u>X</u>	<u> </u>	<u> </u>
Are there any transcription/calculation errors in reporting of RF or %D?	<u> </u>	<u>X</u>	<u> </u>
<u>Internal Standards</u>			
Are internal standard areas of every sample and blank within the upper and lower limits for each continuing calibration?	<u>X</u>	<u> </u>	<u> </u>
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	<u>X</u>	<u> </u>	<u> </u>
<u>Field Duplicates</u>			
Were field duplicates submitted with the samples?	<u>X</u>	<u> </u>	<u> </u>

Volatile Qualifier Summary
Holding Time, Surrogates, Internal Standards

Sample ID	Holding Time*	Surrogates*			Internal Standards*		
		TOL	BFB	DCE	DFB	DCB	CBZ
TB-05							
MW-22R							
MW-22D							
MW-21S							
MW-21D							
TB-06							
GW-DUP-2							
MW-14							
MW-14 MS							
MW-14 MSD							
MW-6D							
TB-06							
MW-21R							
MW-9							
MW-12							
PZ-01S							
PZ-01D							
TB-07							
RB-02							
MW-3							
MW-20D							
MW-1							

Surrogates:

TOL Toluene-d8
 BFB Bromofluorobenzene
 DCE 1,2-Dichloroethane-d4

Internal Standards:

DFB 1,4-Difluorobenzene
 DCB 1,4-Dichlorobenzene-d4
 CBZ Chlorobenzene-d5

Qualifiers:

D Diluted
 ! Recovery high
 ! Recovery low
 !! Recovery <25%

* Unless otherwise specified, all parameters are within acceptable limits.

Volatile Calibration Outliers

Instrument: MS C

Matrix: water

Date/Time	7/15/99		7/20/99 1255		7/21/99 1238		7/22/99 1256		7/23/99 1054	
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
chloromethane										
bromomethane		37.5								
vinyl chloride										
chloroethane										
methylene chloride				-30.3						
acetone				56.7		87.5		111		86.7
carbon disulfide										
1,1-dichloroethene										
1,1-dichloroethane										
1,2-dichloroethene(total)										
chloroform										
1,2-dichloroethane										
2-butanone				33.3		56.0		73.6		33.3
1,1,1-trichloroethane										
carbon tetrachloride										
bromodichloromethane										
1,2-dichloropropane										
cis-1,3-dichloropropene										
trichloroethene										
dibromochloromethane										
1,1,2-trichloroethane										
benzene										
trans-1,3-dichloropropene										
bromoform										
4-methyl-2-pentanone										
2-hexanone						28.0		47.0		
tetrachloroethene										
1,1,2,2-tetrachloroethane								25.1		
toluene										
chlorobenzene										
ethylbenzene										

Volatile Calibration Outliers - Page 2

Date/Time	7/15/99		7/20/99 1255		7/21/99 1238		7/22/99 1256		7/23/99 1054	
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
styrene										
xylene (total)										
Affected Samples	all samples		TB-05		TB06		TB06(#2)		TB07	
			MW-22R		MW6D		MW21R		RB02	
			MW-22D		GWDUP2		MW9		MW3	
			MW-21S		MW14		MW12		MW20D	
			MW-21D		MW14MS		PZ01S		MW1	
					MW14MSD		PZ01D			

Corrected Sample Analysis Data Sheets

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-DUP-2

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52864-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072108

Level: (low/med) LOW

Date Received: 07/21/99

%Moisture: not dec.

Date Analyzed: 07/21/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	45	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	4	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	8	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

GW-DUP-2

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52864-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072108

Level: (low/med) LOW

Date Received: 07/21/99

%Moisture: not dec.

Date Analyzed: 07/21/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 001634-04-4	Propane, 2-methoxy-2-methyl-	4.23	13	J
2.	C3-Substituted benzene	16.91	11	J
3. 000496-11-7	Indane	18.05	170	J
4. 000095-13-6	Indene	18.47	9	J
5.	Unknown aromatic	19.11	9	J
6.	Unknown aromatic	20.01	10	J
7.	Unknown aromatic	20.22	20	J
8. 000091-20-3	Naphthalene	20.97	80	J
9.	Methyl naphthalene	22.44	10	J
10.	Methyl naphthalene	22.70	55	J
11.				
12.				
13.				
14.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-1

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52946-5

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072313

Level: (low/med) LOW

Date Received: 07/23/99

%Moisture: not dec.

Date Analyzed: 07/23/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-1

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52946-5

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072313

Level: (low/med) LOW

Date Received: 07/23/99

%Moisture: not dec.

Date Analyzed: 07/23/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	No Volatiles Found _____			
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
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22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-12

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52899-9

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072208

Level: (low/med) LOW

Date Received: 07/22/99

%Moisture: not dec.

Date Analyzed: 07/22/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-12

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52899-9

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072208

Level: (low/med) LOW

Date Received: 07/22/99

%Moisture: not dec.

Date Analyzed: 07/22/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	No Volatiles Found _____			
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
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23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-14

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L52841

Matrix: (soil/water) Water Lab Sample ID: L52864-3

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC072109

Level: (low/med) LOW Date Received: 07/21/99

%Moisture: not dec. Date Analyzed: 07/21/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	21	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	50	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	1	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	9	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-14

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52864-3

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072109

Level: (low/med) LOW

Date Received: 07/21/99

%Moisture: not dec.

Date Analyzed: 07/21/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 001634-04-4	Propane, 2-methoxy-2-methyl-	4.24	14	J
2.	C3-Substituted benzene	16.91	12	J
3. 000496-11-7	Indane	18.06	210	J
4. 000095-13-6	Indene	18.46	14	J
5.	Unknown aromatic	20.00	13	J
6.	Unknown aromatic	20.22	25	J
7. 000091-20-3	Naphthalene	20.97	110	J
8. 000083-32-9	Acenaphthene	21.17	20	J
9. 000090-12-0	Methyl naphthalene	22.44	14	J
10.	Methyl naphthalene	22.71	72	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-20D

Lab Name: GALSON LABORATORIES	Contract: Blasland, B	
Lab Code:	Case No.: 1	SAS No.: SDG No.: L52841
Matrix: (soil/water) Water		Lab Sample ID: L52946-4
Sample wt/vol: 5 (g/mL) mL		Lab File ID: CC072312
Level: (low/med) LOW		Date Received: 07/23/99
%Moisture: not dec.		Date Analyzed: 07/23/99
GC Column: HP-624 ID: .2 (mm)		Dilution Factor: 1
Soil Extract Volume: (uL)		Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/l Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-20D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52946-4

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072312

Level: (low/med) LOW

Date Received: 07/23/99

%Moisture: not dec.

Date Analyzed: 07/23/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	No Volatiles Found _____			
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-21D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52841-5

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072011

Level: (low/med) LOW

Date Received: 07/20/99

%Moisture: not dec.

Date Analyzed: 07/20/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	8	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-21D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52841-5

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072011

Level: (low/med) LOW

Date Received: 07/20/99

%Moisture: not dec.

Date Analyzed: 07/20/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No Volatiles Found			
2.				
3.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-21R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52899-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072206

Level: (low/med) LOW

Date Received: 07/22/99

%Moisture: not dec.

Date Analyzed: 07/22/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-21R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52899-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072206

Level: (low/med) LOW

Date Received: 07/22/99

%Moisture: not dec.

Date Analyzed: 07/22/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	No Volatiles Found			
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-21S

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52841-4

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072010

Level: (low/med) LOW

Date Received: 07/20/99

%Moisture: not dec.

Date Analyzed: 07/20/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	8	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-21S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52841-4

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072010

Level: (low/med) LOW

Date Received: 07/20/99

%Moisture: not dec.

Date Analyzed: 07/20/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No Volatiles Found			
2.				
3.				
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FORM I VOA-TIC

12/91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-22D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52841-3

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072009

Level: (low/med) LOW

Date Received: 07/20/99

%Moisture: not dec.

Date Analyzed: 07/20/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	12	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-22D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52841-3

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072009

Level: (low/med) LOW

Date Received: 07/20/99

%Moisture: not dec.

Date Analyzed: 07/20/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	No Volatiles Found			
2.				
3.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-22R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52841-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072008

Level: (low/med) LOW

Date Received: 07/20/99

%Moisture: not dec.

Date Analyzed: 07/20/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

74-87-3-----Chloromethane	10	U
74-83-9-----Bromomethane	10	XHS
75-01-4-----Vinyl Chloride	10	U
75-00-3-----Chloroethane	10	U
75-09-2-----Methylene Chloride	12	U
67-64-1-----Acetone	10	U
75-15-0-----Carbon Disulfide	5	U
75-35-4-----1,1-Dichloroethene	5	U
75-34-3-----1,1-Dichloroethane	5	U
540-59-0-----1,2-Dichloroethene (total)	5	U
67-66-3-----Chloroform	5	U
107-06-2-----1,2-Dichloroethane	5	U
78-93-3-----2-Butanone	10	U
71-55-6-----1,1,1-Trichloroethane	5	U
56-23-5-----Carbon Tetrachloride	5	U
75-27-4-----Bromodichloromethane	5	U
78-87-5-----1,2-Dichloropropane	5	U
10061-01-5-----cis-1,3-Dichloropropene	5	U
79-01-6-----Trichloroethene	5	U
124-48-1-----Dibromochloromethane	5	U
79-00-5-----1,1,2-Trichloroethane	5	U
71-43-2-----Benzene	5	U
10061-02-6-----trans-1,3-Dichloropropene	5	U
75-25-2-----Bromoform	5	U
108-10-1-----4-Methyl-2-Pentanone	10	U
591-78-6-----2-Hexanone	10	U
127-18-4-----Tetrachloroethene	5	U
79-34-5-----1,1,2,2-Tetrachloroethane	5	U
108-88-3-----Toluene	5	U
108-90-7-----Chlorobenzene	5	U
100-41-4-----Ethylbenzene	5	U
100-42-5-----Styrene	5	U
1330-20-7-----Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-22R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52841-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072008

Level: (low/med) LOW

Date Received: 07/20/99

%Moisture: not dec.

Date Analyzed: 07/20/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No Volatiles Found			
2.				
3.				
4.				
5.				
6.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-3

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52946-3

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072311

Level: (low/med) LOW

Date Received: 07/23/99

%Moisture: not dec.

Date Analyzed: 07/23/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-3

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52946-3

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072311

Level: (low/med) LOW

Date Received: 07/23/99

%Moisture: not dec.

Date Analyzed: 07/23/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	No Volatiles Found			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-60A (26)

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52864-6

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072107

Level: (low/med) LOW

Date Received: 07/21/99

%Moisture: not dec.

Date Analyzed: 07/21/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-6DA *(signature)*

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52864-6

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072107

Level: (low/med) LOW

Date Received: 07/21/99

%Moisture: not dec.

Date Analyzed: 07/21/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 001634-04-4	Propane, 2-methoxy-2-methyl-	4.24	13	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-9

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52899-8

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072207

Level: (low/med) LOW

Date Received: 07/22/99

%Moisture: not dec.

Date Analyzed: 07/22/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-9

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52899-8

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072207

Level: (low/med) LOW

Date Received: 07/22/99

%Moisture: not dec.

Date Analyzed: 07/22/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	No Volatiles Found			
2.				
3.				
4.				
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6.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

PZ-01D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52899-11

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072210

Level: (low/med) LOW

Date Received: 07/22/99

%Moisture: not dec.

Date Analyzed: 07/22/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

PZ-01D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52899-11

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072210

Level: (low/med) LOW

Date Received: 07/22/99

%Moisture: not dec.

Date Analyzed: 07/22/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No Volatiles Found			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-01S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52899-10

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072209

Level: (low/med) LOW

Date Received: 07/22/99

%Moisture: not dec.

Date Analyzed: 07/22/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

PZ-01S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52899-10

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072209

Level: (low/med) LOW

Date Received: 07/22/99

%Moisture: not dec.

Date Analyzed: 07/22/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 000496-11-7	Indane	18.06	9	J
2.				
3.				
4.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RB-02

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52946-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072310

Level: (low/med) LOW

Date Received: 07/23/99

%Moisture: not dec.

Date Analyzed: 07/23/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

RB-02

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52946-2

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072310

Level: (low/med) LOW

Date Received: 07/23/99

%Moisture: not dec.

Date Analyzed: 07/23/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	No Volatiles Found _____			
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3. _____				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-05

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52841-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072007

Level: (low/med) LOW

Date Received: 07/20/99

%Moisture: not dec.

Date Analyzed: 07/20/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	9	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

TB-05

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52841-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072007

Level: (low/med) LOW

Date Received: 07/20/99

%Moisture: not dec.

Date Analyzed: 07/20/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No Volatiles Found			
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-06

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52864-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072106

Level: (low/med) LOW

Date Received: 07/21/99

%Moisture: not dec.

Date Analyzed: 07/21/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

TB-06

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52864-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072106

Level: (low/med) LOW

Date Received: 07/21/99

%Moisture: not dec.

Date Analyzed: 07/21/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	No Volatiles Found _____			
2. _____				
3. _____				
4. _____				
5. _____				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-06 (#2)

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52899-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072205

Level: (low/med) LOW

Date Received: 07/22/99

%Moisture: not dec.

Date Analyzed: 07/22/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

TB-06

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52899-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072205

Level: (low/med) LOW

Date Received: 07/22/99

%Moisture: not dec.

Date Analyzed: 07/22/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	No Volatiles Found			
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-07

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52946-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072309

Level: (low/med) LOW

Date Received: 07/23/99

%Moisture: not dec.

Date Analyzed: 07/23/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I CLP VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

TB-07

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) Water

Lab Sample ID: L52946-1

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CC072309

Level: (low/med) LOW

Date Received: 07/23/99

%Moisture: not dec.

Date Analyzed: 07/23/99

GC Column: HP-624 ID: .2 (mm)

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	No Volatiles Found			
2.				
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SEMIVOLATILE ANALYSES

Introduction

Analyses were performed according to EPA SW-846 Method 8270 as referenced in the NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The method specified holding times for semivolatile analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times are 7 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, and rinse blanks) are prepared to identify any contamination which may have been introduced in to the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

No target compounds were detected in the method or rinse blanks. Bis(2-ethylhexyl)phthalate was detected at low levels in samples MW-6D, MW-9 and MW-14. Although bis(2-ethylhexyl)phthalate was not detected in the associated blanks, it is considered a common contaminant and, as such, its presence in the samples should be considered highly suspect.

Several non-target compounds were detected in the method and rinse blanks. When common to the blank and samples, their presence in the sample have been rejected.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) limits for select compounds only and allows four outliers. A technical review of the data applies limits to all compounds with no exceptions.

The %RSD for was less than 30% and the response factors were greater than 0.01 for all compounds.

4.2 Continuing Calibration

The response for several compounds in the continuing calibration standards were outside 25% difference (%D) of the initial calibration, as summarized on the attached calibration summary sheets. All data for compounds with decreasing responses and all positive data for compounds with increasing responses have been qualified as estimated.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

Recovery for one surrogate was outside control limits in samples MW-6D and PZ-01S. Since recoveries for all remaining surrogates were within control limits, no data have been qualified based on the deviations. All other surrogate recoveries were within control limits..

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every experimental run.

The responses for one or more internal standards were below established limits in samples MW-1, MW-14MS and MW-14MSD. Data for all compounds quantitated under the noncompliant standards have been qualified as estimated based on the deviation. All other internal standard responses and retention times were within established limits.

7. Compound Identification

Compounds are identified on the GC/MS by using the analyte's relative retention time and ion spectra.

All identified compounds met the specified criteria.

8. Matrix Spike/Matrix Spike Duplicate

Matrix spike, matrix spike duplicate data are used to assess the precision and accuracy of the analytical method.

Recoveries for 4-nitrophenol and pentachlorophenol were above control limits in both the matrix spike and the matrix spike duplicate. Since neither of these compounds were detected in any of the samples and since all recoveries for the blank spike were within control limits, no data have been qualified based on spike recoveries.

9. Matrix Spike Blank

All matrix spike blank recoveries were within control limits.

10. Field Duplicate

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-14 / GW-DUP-2	Naphthalene	65	59	10.0%
	2-Methylnaphthalene	10	9 J	11.0%
	Acenaphthylene	4 J	4 J	0.0%
	Acenaphthene	67	64	5.0%
	Fluorene	11	11	0.0%
	Phenanthrene	15	15	0.0%
	Anthracene	2 J	2 J	0.0%
	Fluoranthene	4 J	5 J	22.0%
	Pyrene	6 J	6 J	0.0%
	Benzo(a)anthracene	1 J	1 J	0.0%
	Chrysene	1 J	1 J	0.0%
	Benzo(k)fluoranthene	1 J	1 J	0.0%
	Benzo(a)pyrene	1 J	2 J	66.7%

The duplicate results are acceptable.

11. General Comments

The temperatures for three of the four coolers were outside control limits (at 9.4, 9.3 and 7.0°C) when received at the laboratory. No data have been qualified based on the deviations.

12. System Performance and Overall Assessment

Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

Semi-Volatile Organics Data Validation Checklist

	YES	NO	NA
<u>Data Completeness and Deliverables</u>			
Have any missing deliverables been received and added to the data package?	<u> </u>	<u> X </u>	<u> </u>
Is there a narrative or cover letter present?	<u> X </u>	<u> </u>	<u> </u>
Are the sample numbers included in the narrative?	<u> </u>	<u> X </u>	<u> </u>
Are the sample chain-of-custodies present?	<u> X </u>	<u> </u>	<u> </u>
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	<u> X </u>	<u> </u>	<u> </u>
<u>Holding Times</u>			
Have any holding times been exceeded?	<u> </u>	<u> X </u>	<u> </u>
<u>Surrogate Recovery</u>			
Are the surrogate recovery forms present?	<u> X </u>	<u> </u>	<u> </u>
Are all the samples listed on the appropriate surrogate recovery form?	<u> X </u>	<u> </u>	<u> </u>
Were two or more base-neutral or acid surrogate recoveries outside of specified limits for any sample or blank?	<u> </u>	<u> X </u>	<u> </u>
If yes, were the samples reanalyzed?	<u> </u>	<u> </u>	<u> X </u>
Are there any transcription/calculation errors between the raw data and the summary form?	<u> </u>	<u> X </u>	<u> </u>
<u>Matrix Spikes</u>			
Is there a matrix spike recovery form present?	<u> X </u>	<u> </u>	<u> </u>
Were matrix spikes analyzed at the required frequency	<u> X </u>	<u> </u>	<u> </u>
How many spike recoveries were outside of QC limits?	<u> 4 </u> out of <u> 22 </u>		
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?	<u> 0 </u> out of <u> 11 </u>		
<u>Blanks</u>			
Is the method blank summary form present?	<u> X </u>	<u> </u>	<u> </u>
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	<u> X </u>	<u> </u>	<u> </u>

Semi-Volatile Organics Data Validation Checklist - Page 2

	YES	NO	NA
Has a blank been analyzed for each GC/MS system used?	<u>X</u>	<u> </u>	<u> </u>
Do any method blanks have positive results?	<u> </u>	<u>X</u>	<u> </u>
Do any field/rinse blanks have positive results?	<u> </u>	<u>X</u>	<u> </u>
Are there field/rinse blanks associated with every sample?	<u>X</u>	<u> </u>	<u> </u>
<u>Tuning and Mass Calibration</u>			
Are the GC/MS tuning forms present for DFTPP?	<u>X</u>	<u> </u>	<u> </u>
Are the bar graph spectrum and mass/charge listing provided for each DFTPP?	<u>X</u>	<u> </u>	<u> </u>
Has a DFTPP been analyzed for each twelve hours of analysis per instrument?	<u>X</u>	<u> </u>	<u> </u>
Have the ion abundance criteria been met for each instrument used?	<u>X</u>	<u> </u>	<u> </u>
<u>Target Analytes</u>			
Is an organics analysis data sheet present for each of the following:			
Samples	<u>X</u>	<u> </u>	<u> </u>
Matrix spikes	<u>X</u>	<u> </u>	<u> </u>
Blanks	<u>X</u>	<u> </u>	<u> </u>
Are the reconstructed ion chromatograms present for each of the following:			
Samples	<u>X</u>	<u> </u>	<u> </u>
Matrix spikes	<u>X</u>	<u> </u>	<u> </u>
Blanks	<u>X</u>	<u> </u>	<u> </u>
Is the chromatographic performance acceptable with respect to:			
Baseline stability	<u>X</u>	<u> </u>	<u> </u>
Resolution	<u>X</u>	<u> </u>	<u> </u>
Peak shape	<u>X</u>	<u> </u>	<u> </u>
Attenuation	<u>X</u>	<u> </u>	<u> </u>
Are the mass spectra of the identified compounds present?	<u>X</u>	<u> </u>	<u> </u>

Semi-Volatile Organics Data Validation Checklist - Page 3

	YES	NO	NA
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	<u>X</u>	<u> </u>	<u> </u>
Do the samples and standard relative ion intensities agree within 20%?	<u>X</u>	<u> </u>	<u> </u>
<u>Tentatively Identified Compounds</u>			
Are all the TIC summary forms present?	<u>X</u>	<u> </u>	<u> </u>
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?	<u>X</u>	<u> </u>	<u> </u>
Are any target compounds listed as TICs?	<u> </u>	<u>X</u>	<u> </u>
Are all ion present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	<u>X</u>	<u> </u>	<u> </u>
Do the TIC and "best match" spectrum agree within 20%?	<u>X</u>	<u> </u>	<u> </u>
<u>Quantitation and Detection Limits</u>			
Are there any transcription/calculation errors in the Form 1 results?	<u> </u>	<u>X</u>	<u> </u>
Are the reporting limits adjusted to reflect sample dilutions, and for soils, sample moisture?	<u>X</u>	<u> </u>	<u> </u>
<u>Standard Data</u>			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	<u>X</u>	<u> </u>	<u> </u>
<u>Initial Calibration</u>			
Are the initial calibration forms present for each instrument used?	<u>X</u>	<u> </u>	<u> </u>
Are the response factor RSDs within acceptable limits?	<u>X</u>	<u> </u>	<u> </u>
Are the average RRF equal to or greater than minimum requirements?	<u>X</u>	<u> </u>	<u> </u>
Are there any transcription/calculation error in reporting the RRF or RSD?	<u> </u>	<u>X</u>	<u> </u>

Semi-Volatile Organics Data Validation Checklist - Page 4

	YES	NO	NA
<u>Continuing Calibration</u>			
Are the continuing calibration forms present for each day and each instrument?	<u>X</u>	<u> </u>	<u> </u>
Has a continuing calibration standard been analyzed for each twelve hours of analysis per instrument?	<u>X</u>	<u> </u>	<u> </u>
All %D within acceptable limits?	<u> </u>	<u>X</u>	<u> </u>
Are all RF equal to or greater than minimum requirements?	<u>X</u>	<u> </u>	<u> </u>
Are there any transcription/calculation errors in reporting of RF or %D?	<u> </u>	<u>X</u>	<u> </u>
<u>Internal Standards</u>			
Are internal standard areas of every samples and blank within the upper and lower limits for each continuing calibration?	<u> </u>	<u>X</u>	<u> </u>
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	<u>X</u>	<u> </u>	<u> </u>
<u>Field Duplicates</u>			
Were field duplicates submitted with the samples?	<u>X</u>	<u> </u>	<u> </u>

[illegible]

D	Diluted
i	Recovery low
i	Recovery high
na	not applicable

vjt2006

Semivolatile Calibration Outliers

Instrument: MS E

Date/Time	7/26/99		7/27/99 1846							
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Phenol										
bis(2-Chloroethyl)ether										
2-Chlorophenol										
1,3-Dichlorobenzene										
1,4-Dichlorobenzene										
1,2-Dichlorobenzene										
Benzyl Alcohol										
2-Methylphenol										
2,2'-oxybis(1-Chloropropane)										
4-Methylphenol										
N-Nitroso-di-n-propylamine										
Hexachloroethane										
Nitrobenzene										
Isophorone										
2-Nitrophenol										
2,4-Dimethylphenol										
bis(2-Chloroethoxy)methane										
Benzoic Acid										
2,4-Dichlorophenol										
1,2,4-Trichlorobenzene										
Naphthalene										
4-Chloroaniline										
Hexachlorobutadiene										
4-Chloro-3-methylphenol										
2-Methylnaphthalene										
Hexachlorocyclopentadiene										
2,4,6-Trichlorophenol										
2,4,5-Trichlorophenol										
2-Chloronaphthalene										
2-Nitroaniline										
Dimethyl phthalate										
Acenaphthylene										
2,6-Dinitrotoluene										
3-Nitroaniline										
Acenaphthene										

Semivolatile Calibration Outliers - Page 2

Date/Time	7/26/99		7/27/99 1846							
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
2,4-Dinitrophenol										
4-Nitrophenol										
Dibenzofuran										
2,4-Dinitrotoluene										
Diethylphthalate										
Fluorene										
4-Chlorophenyl-phenylether										
4,6-Dinitro-2-methylphenol										
N-Nitrosodiphenylamine										
4-Bromophenyl-phenylether										
Hexachlorobenzene										
Pentachlorophenol										
Phenanthrene										
Anthracene										
Di-n-butylphthalate										
Fluoranthene										
Pyrene										
Butylbenzylphthalate										
Benzo(a)anthracene										
3,3'-Dichlorobenzidine										
Chrysene										
bis(2-ethylhexyl)phthalate										
Di-n-octylphthalate										
Benzo(b)fluoranthene										
Benzo(k)fluoranthene										
Benzo(a)pyrene										
Indeno(1,2,3-cd)pyrene										
Dibenz(a,h)anthracene										
Benzo(g,h,i)perylene										
Affected Samples:										

Semivolatile Calibration Outliers - Page 3

Instrument: MS E

Date/Time	8/12/99		8/18/99 2338		8/20/99 0110		8/20/99 1506			
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Phenol										
bis(2-Chloroethyl)ether										
2-Chlorophenol										
1,3-Dichlorobenzene										
1,4-Dichlorobenzene										
1,2-Dichlorobenzene										
Benzyl Alcohol										
2-Methylphenol										
2,2'oxybis(1-Chloropropane)										
4-Methylphenol						26.8				
N-Nitroso-di-n-propylamine				28.9		35.7				
Hexachloroethane										
Nitrobenzene										
Isophorone										
2-Nitrophenol										
2,4-Dimethylphenol										
bis(2-Chloroethoxy)methane										
Benzoic Acid										
2,4-Dichlorophenol										
1,2,4-Trichlorobenzene										
Naphthalene										
4-Chloroaniline										
Hexachlorobutadiene										
4-Chloro-3-methylphenol						26.0				
2-Methylnaphthalene										
Hexachlorocyclopentadiene				-79.9		-40.3				
2,4,6-Trichlorophenol										
2,4,5-Trichlorophenol										
2-Chloronaphthalene										
2-Nitroaniline										
Dimethyl phthalate										
Acenaphthylene										
2,6-Dinitrotoluene										
3-Nitroaniline										

Semivolatile Calibration Outliers - Page 4

Date/Time	8/12/99		8/18/99 2338		8/20/99 0110		8/20/99 1506			
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Acenaphthene										
2,4-Dinitrophenol				-68.2						
4-Nitrophenol										
Dibenzofuran										
2,4-Dinitrotoluene										
Diethylphthalate										
Fluorene										
4-Chlorophenyl-phenylether										
4,6-Dinitro-2-methylphenol				-52.9						
N-Nitrosodiphenylamine										
4-Bromophenyl-phenylether										
Hexachlorobenzene										
Pentachlorophenol				-38.6						
Phenanthrene										
Anthracene										
Di-n-butylphthalate										
Fluoranthene										
Pyrene				44.9		30.6				
Butylbenzylphthalate				72.9		55.2				
Benzo(a)anthracene										
3,3'-Dichlorobenzidine										
Chrysene										
bis(2-ethylhexyl)phthalate				81.0		68.1				
Di-n-octylphthalate				129		66.2				
Benzo(b)fluoranthene										
Benzo(k)fluoranthene										
Benzo(a)pyrene										
Indeno(1,2,3-cd)pyrene										
Dibenz(a,h)anthracene										
Benzo(g,h,i)perylene						-44.6				
Affected Samples:			MW-22R		MW14MS		RB02			
			MW-22D		MW-14MSD		MW20D			
			MW-21S				MW1			
			MW-21D							

Semivolatile Calibration Outliers - Page 5

Instrument: MS E

Date/Time	8/23/99		8/23/99 1012		8/23/99 2141		8/24/99 1417		8/25/99 0146	
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Phenol										
bis(2-Chloroethyl)ether										
2-Chlorophenol										
1,3-Dichlorobenzene										
1,4-Dichlorobenzene										
1,2-Dichlorobenzene										
Benzyl Alcohol										
2-Methylphenol										
2,2'oxybis(1-Chloropropane)										
4-Methylphenol										
N-Nitroso-di-n-propylamine										
Hexachloroethane										
Nitrobenzene										
Isophorone										
2-Nitrophenol										
2,4-Dimethylphenol										
bis(2-Chloroethoxy)methane										
Benzoic Acid										
2,4-Dichlorophenol										
1,2,4-Trichlorobenzene										
Naphthalene										
4-Chloroaniline										
Hexachlorobutadiene										
4-Chloro-3-methylphenol										
2-Methylnaphthalene										
Hexachlorocyclopentadiene										
2,4,6-Trichlorophenol										
2,4,5-Trichlorophenol										
2-Chloronaphthalene										
2-Nitroaniline										
Dimethyl phthalate										
Acenaphthylene										
2,6-Dinitrotoluene										
3-Nitroaniline										
Acenaphthene										

Semivolatile Calibration Outliers - Page 6

Date/Time	8/23/99		8/23/99 1012		8/23/99 2141		8/24/99 1417		8/25/99 0146	
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
2,4-Dinitrophenol										
4-Nitrophenol										
Dibenzofuran										
2,4-Dinitrotoluene										
Diethylphthalate										
Fluorene										
4-Chlorophenyl-phenylether										
4,6-Dinitro-2-methylphenol										
N-Nitrosodiphenylamine										
4-Bromophenyl-phenylether										
Hexachlorobenzene										
Pentachlorophenol										
Phenanthrene										
Anthracene										
Di-n-butylphthalate										
Fluoranthene										
Pyrene										
Butylbenzylphthalate										
Benzo(a)anthracene										
3,3'-Dichlorobenzidine								-31.8		
Chrysene										
bis(2-ethylhexyl)phthalate										
Di-n-octylphthalate										
Benzo(b)fluoranthene										
Benzo(k)fluoranthene										
Benzo(a)pyrene										
Indeno(1,2,3-cd)pyrene										
Dibenz(a,h)anthracene										
Benzo(g,h,i)perylene										
Affected Samples:			MW3				GW-DUP-2		PZ01D	
							MW-14			
							MW-6D			
							MW-21R			
							MW-9			
							MW-12			
							PZ-01S			

Corrected Sample Analysis Data Sheets

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-DUP-2

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L52841

Matrix: (soil/water) WATER Lab Sample ID: L52864-2

Sample wt/vol: 1000 (g/mL) mL Lab File ID: EC082406

Level: (low/med) LOW Date Received: 07/21/99

% Moisture: decanted: (Y/N) N Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/l Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
65-85-0	Benzoic acid	25	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	59	
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	9	J
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	4	J
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-DUP-2

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52864-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082406

Level: (low/med) LOW

Date Received: 07/21/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	64	
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	11	
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	15	
120-12-7-----	Anthracene	2	J
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	5	J
129-00-0-----	Pyrene	6	J
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	1	J
91-94-1-----	3,3'-Dichlorobenzidine	20	but
218-01-9-----	Chrysene	1	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	1	J
50-32-8-----	Benzo(a)pyrene	2	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

GW-DUP-2

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52864-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082406

Level: (low/med) LOW

Date Received: 07/21/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 14

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	5.31	5	J
2. ~~000123-42-2~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~10.09~~	~~17~~	~~JAB~~
3. 000098-82-8	Benzene, (1-methylethyl)-	12.74	4	J
4. 000622-96-8	Benzene, ethyl--methyl-(isom	14.38	5	J
5. 000095-63-6	Benzene, trimethyl-(isomer)	14.76	6	J
6. 000496-11-7	Indane	15.91	210	J
7. 000095-13-6	Indene	16.11	12	J
8.	Unknown	16.80	7	J
9.	Unknown	17.90	5	J
10.	Unknown	18.10	16	J
11.	Unknown	18.21	4	J
12. 000090-12-0	Naphthalene, methyl-(isomer)	20.55	73	J
13. 000581-40-8	Naphthalene, dimethyl-(isome	21.78	9	J
14. 000571-58-4	Naphthalene, dimethyl-(isome	22.03	6	J
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-1

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52946-5

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082010

Level: (low/med) LOW

Date Received: 07/23/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/20/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-1

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52946-5

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082010

Level: (low/med) LOW

Date Received: 07/23/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/20/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-1

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52946-5

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082010

Level: (low/med) LOW

Date Received: 07/23/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/20/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	10.14	15	J ✓
2.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-3

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52946-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082310

Level: (low/med) LOW

Date Received: 07/23/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/23/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-3

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52946-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082310

Level: (low/med) LOW

Date Received: 07/23/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/23/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-3

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52946-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082310

Level: (low/med) LOW

Date Received: 07/23/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/23/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	10.10	23	J 7
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-61A 125

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52864-6

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082408

Level: (low/med) LOW

Date Received: 07/21/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-6DA *Q2*

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52864-6

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082408

Level: (low/med) LOW

Date Received: 07/21/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	1	J
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-67A *(signature)*

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52864-6

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082408

Level: (low/med) LOW

Date Received: 07/21/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	9.11	6	J
2. 000123-42-2	2-Pentanone, 4-hydroxy-4-met	10.09	18	JAB
3.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-9

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-8

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082410

Level: (low/med) LOW

Date Received: 07/22/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-9

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-8

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082410

Level: (low/med) LOW

Date Received: 07/22/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	5	J
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-9

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-8

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082410

Level: (low/med) LOW

Date Received: 07/22/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	10.09	19	J ✓
2.	Unknown	26.69	5	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-12

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-9

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082411

Level: (low/med) LOW

Date Received: 07/22/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy) methane	10	U
65-85-0	Benzoic acid	25	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-12

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-9

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082411

Level: (low/med) LOW

Date Received: 07/22/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-12

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-9

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082411

Level: (low/med) LOW

Date Received: 07/22/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	10.09	18	J
2.	Unknown	13.18	6	J
3.	Unknown	13.43	4	J
4.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-14

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L52841

Matrix: (soil/water) WATER Lab Sample ID: L52864-3

Sample wt/vol: 1000 (g/mL) mL Lab File ID: EC082407

Level: (low/med) LOW Date Received: 07/21/99

% Moisture: decanted: (Y/N) N Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO. COMPOUND Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
65-85-0	Benzoic acid	25	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	65	
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	4	J
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-14

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L52841

Matrix: (soil/water) WATER Lab Sample ID: L52864-3

Sample wt/vol: 1000 (g/mL) mL Lab File ID: EC082407

Level: (low/med) LOW Date Received: 07/21/99

% Moisture: decanted: (Y/N) N Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO. COMPOUND Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	67	
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	11	
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	15	
120-12-7-----	Anthracene	2	J
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	4	J
129-00-0-----	Pyrene	6	J
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a) anthracene	1	J
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	1	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	1	J
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b) fluoranthene	10	U
207-08-9-----	Benzo(k) fluoranthene	1	J
50-32-8-----	Benzo(a) pyrene	1	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h) anthracene	10	U
191-24-2-----	Benzo(g,h,i) perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-14

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52864-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082407

Level: (low/med) LOW

Date Received: 07/21/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	9.11	10	J
2. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	10.10	18	JAB
3. 000098-82-8	Benzene, (1-methylethyl)-	12.74	4	J
4. 000611-14-3	Benzene, ethyl--methyl-(isomer)	14.39	8	J
5. 000526-73-8	Benzene, 3-trimethyl-(isomer)	14.75	7	J
6. 000095-13-6	Indene	16.12	12	J
7.	Unknown	16.80	5	J
8.	Unknown	17.90	6	J
9.	Unknown	18.10	17	J
10.	Unknown	18.21	4	J
11.	Unknown	19.84	4	J
12.	Unknown	20.11	5	J
13. 000090-12-0	Naphthalene, methyl-(isomer)	20.56	80	J
14. 000575-41-7	Naphthalene, -dimethyl-(isomer)	21.78	9	J
15. 000581-40-8	Naphthalene, -dimethyl-(isomer)	22.03	5	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-20D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52946-4

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082009

Level: (low/med) LOW

Date Received: 07/23/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/20/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-20D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52946-4

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082009

Level: (low/med) LOW

Date Received: 07/23/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/20/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-20D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52946-4

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082009

Level: (low/med) LOW

Date Received: 07/23/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/20/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	10.14	19	J
2.	Unknown	39.12	40	J
3.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-21D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52841-5

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081822

Level: (low/med) LOW

Date Received: 07/20/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/19/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-21D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L52841

Matrix: (soil/water) WATER Lab Sample ID: L52841-5

Sample wt/vol: 1000 (g/mL) mL Lab File ID: EC081822

Level: (low/med) LOW Date Received: 07/20/99

% Moisture: decanted: (Y/N) N Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/19/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.	COMPOUND	Q
99-09-2	3-Nitroaniline	U
83-32-9	Acenaphthene	U
51-28-5	2,4-Dinitrophenol	U
100-02-7	4-Nitrophenol	U
132-64-9	Dibenzofuran	U
121-14-2	2,4-Dinitrotoluene	U
84-66-2	Diethylphthalate	U
86-73-7	Fluorene	U
7005-72-3	4-Chlorophenyl-phenylether	U
534-52-1	4,6-Dinitro-2-methylphenol	U
86-30-6	N-Nitrosodiphenylamine	U
101-55-3	4-Bromophenyl-phenylether	U
118-74-1	Hexachlorobenzene	U
87-86-5	Pentachlorophenol	U
85-01-8	Phenanthrene	U
120-12-7	Anthracene	U
84-74-2	Di-n-butylphthalate	U
206-44-0	Fluoranthene	U
129-00-0	Pyrene	U
85-68-7	Butylbenzylphthalate	U
56-55-3	Benzo(a)anthracene	U
91-94-1	3,3'-Dichlorobenzidine	U
218-01-9	Chrysene	U
117-81-7	bis(2-Ethylhexyl)phthalate	U
117-84-0	Di-n-octylphthalate	U
205-99-2	Benzo(b)fluoranthene	U
207-08-9	Benzo(k)fluoranthene	U
50-32-8	Benzo(a)pyrene	U
193-39-5	Indeno(1,2,3-cd)pyrene	U
53-70-3	Dibenzo(a,h)anthracene	U
191-24-2	Benzo(g,h,i)perylene	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-21D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52841-5

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081822

Level: (low/med) LOW

Date Received: 07/20/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/19/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/l

Number TICS found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-met	10.24	20	JAB
2.	Unknown	39.50	88	J
3.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-21R

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082409

Level: (low/med) LOW

Date Received: 07/22/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy) methane	10	U
65-85-0	Benzoic acid	25	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-21R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082409

Level:- (low/med) LOW

Date Received: 07/22/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-21R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082409

Level: (low/med) LOW

Date Received: 07/22/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/24/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000123 42-2	2-Pentanone, 4-hydroxy-4-met	10.09	18	JAB
2.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-21S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52841-4

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081821

Level: (low/med) LOW

Date Received: 07/20/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/19/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-21S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52841-4

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081821

Level: (low/med) LOW

Date Received: 07/20/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/19/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-21S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52841-4

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081821

Level: (low/med) LOW

Date Received: 07/20/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/19/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	9.26	7	J
2. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	10.23	20	JAB
3.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-22D

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52841-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081820

Level: (low/med) LOW

Date Received: 07/20/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/19/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-22D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52841-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081820

Level: (low/med) LOW

Date Received: 07/20/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/19/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-22D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52841-3

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081820

Level: (low/med) LOW

Date Received: 07/20/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/19/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	9.26	5	J V
2. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	10.24	15	JAD
3.	Unknown	39.53	40	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-22R

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L52841

Matrix: (soil/water) WATER Lab Sample ID: L52841-2

Sample wt/vol: 1000 (g/mL) mL Lab File ID: EC081819

Level: (low/med) LOW Date Received: 07/20/99

% Moisture: decanted: (Y/N) N Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/19/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
65-85-0	Benzoic acid	25	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-22R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52841-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081819

Level: (low/med) LOW

Date Received: 07/20/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/19/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-22R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52841-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC081819

Level: (low/med) LOW

Date Received: 07/20/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/22/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/19/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	9.26	5	J
2. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	10.25	14	JAB
3.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-01D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-11

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082415

Level: (low/med) LOW

Date Received: 07/22/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/25/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-01D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-11

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082415

Level: (low/med) LOW

Date Received: 07/22/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/25/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

PZ-01D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-11

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082415

Level: (low/med) LOW

Date Received: 07/22/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/25/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. <u>Unknown</u>		10.09	18	J ✓
2.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-01S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-10

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082412

Level: (low/med) LOW

Date Received: 07/22/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/25/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/l

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
65-85-0-----	Benzoic acid	25	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-01S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-10

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082412

Level: (low/med) . LOW

Date Received: 07/22/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/25/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	2	J
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

PZ-01S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-10

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082412

Level: (low/med) LOW

Date Received: 07/22/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/25/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-met	10.09	21	JAB
2.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RB-02

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52946-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082007

Level: (low/med) LOW

Date Received: 07/23/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/20/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
65-85-0	Benzoic acid	25	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RB-02

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52946-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082007

Level: (low/med) LOW

Date Received: 07/23/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/20/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q

99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
86-73-7-----	Fluorene	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

RB-02

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52946-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: EC082007

Level: (low/med) LOW

Date Received: 07/23/99

% Moisture: decanted: (Y/N) N

Date Extracted: 07/26/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/20/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICS found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. _____	Unknown _____	10.14	22	J
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082 as referenced in NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.
- C Identification confirmed by GC/MS.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for PCB analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for water are 7 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed with the specified holding time.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, or rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

No Aroclors were detected in the rinse blank. Aroclor 1260 was, however, detected in the method blank PBLK6727. Since no Aroclor 1260 was detected in the associated samples, the blank content has no impact on the reported data.

3. System Performance

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

A maximum RSD of 20% is allowed. The initial calibration was within the specified limit for all Aroclors.

4.2 Continuing Calibration

A maximum %D of 15 is allowed. All continuing calibration standards were within this limit, with the following exceptions:

Instrument HP9B DB-608 7/27/99 19:46

Decachlorobiphenyl (surrogate) -18.8%

Decachlorobiphenyl (surrogate) -15.4%

Since all surrogate recoveries were within control limits, no data have been qualified based on the deviations.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

All surrogate recoveries were within control limits.

6. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns.

All quantitated peaks fell within the appropriate retention time windows. All positively identified compounds were confirmed on a second column.

7. Matrix Spike/Matrix Spike Duplicate

Matrix spike blank data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

All matrix spike and matrix spike duplicate recoveries and relative percent difference between recoveries were within control limits.

8. Matrix Spike Blank

The matrix spike blank recoveries were within control limits.

9. Field Duplicates

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-14 / GW-DUP-2	ND	--	--	NA

ND Not detected.

NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are acceptable.

10. General Comments

The temperatures for three of the four coolers were outside control limits (at 9.4, 9.3 and 7.0°C) when received at the laboratory. No data have been qualified based on the deviations.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

PCB Data Validation Checklist

	YES	NO	NA
<u>Data Completeness and Deliverables</u>			
Have any missing deliverables been received and added to the data package?	<u> </u>	<u> X </u>	<u> </u>
Is there a narrative or cover letter present?	<u> X </u>	<u> </u>	<u> </u>
Are the sample numbers included in the narrative?	<u> </u>	<u> X </u>	<u> </u>
Are the sample chain-of-custodies present?	<u> X </u>	<u> </u>	<u> </u>
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	<u> X </u>	<u> </u>	<u> </u>
<u>Holding Times</u>			
Have any holding times been exceeded?	<u> </u>	<u> X </u>	<u> </u>
<u>Surrogate Recovery</u>			
Are the surrogate recovery forms present?	<u> X </u>	<u> </u>	<u> </u>
Are all the samples listed on the appropriate surrogate recovery form?	<u> X </u>	<u> </u>	<u> </u>
Were recoveries of any surrogate outside of specified limits for any sample or blank?	<u> </u>	<u> X </u>	<u> </u>
If yes, were the samples reanalyzed?	<u> </u>	<u> </u>	<u> X </u>
Are there any transcription/calculation errors between the raw data and the summary form?	<u> </u>	<u> X </u>	<u> </u>
<u>Matrix Spikes</u>			
Is there a matrix spike recovery form present?	<u> X </u>	<u> </u>	<u> </u>
Were matrix spikes analyzed at the required frequency?	<u> X </u>	<u> </u>	<u> </u>
How many spike recoveries were outside of QC limits?	<u> 0 </u> out of <u> 2 </u>		
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?	<u> 0 </u> out of <u> 1 </u>		
<u>Blanks</u>			
Is a method blank summary form present?	<u> X </u>	<u> </u>	<u> </u>
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	<u> X </u>	<u> </u>	<u> </u>

PCB Data Validation Checklist - Page 2

	YES	NO	NA
Is the chromatographic performance acceptable for each instrument?	<u>X</u>	<u> </u>	<u> </u>
Do any method/reagent/instrument blanks have positive results?	<u>X</u>	<u> </u>	<u> </u>
Do any field/rinse/equipment blanks have positive results?	<u> </u>	<u>X</u>	<u> </u>
Are there field/rinse/equipment blanks associated with every sample?	<u>X</u>	<u> </u>	<u> </u>
<u>Calibration and GC Performance</u>			
Are the following chromatograms and integration reports present?			
peak resolution check	<u> </u>	<u>X</u>	<u> </u>
Aroclor 1016/1260	<u>X</u>	<u> </u>	<u> </u>
Aroclors 1221, 1232, 1242, 1248, and 1254	<u>X</u>	<u> </u>	<u> </u>
Is a calibration summary form present and complete for each analytical sequence?	<u>X</u>	<u> </u>	<u> </u>
Are there any transcription/calculation errors between the raw data and the forms?	<u> </u>	<u>X</u>	<u> </u>
Are the %RSD for the initial calibration within specified limits for all analytes?	<u>X</u>	<u> </u>	<u> </u>
Is the resolution between any two adjacent peaks in the resolution check mixture > 60%?	<u> </u>	<u> </u>	<u>X</u>
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	<u>X</u>	<u> </u>	<u> </u>
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	<u>X</u>	<u> </u>	<u> </u>
Are there any transcription/calculation errors between the raw data and the form?	<u> </u>	<u>X</u>	<u> </u>
Are all the percent difference (%D) values for all continuing calibration standards within specified limits?	<u> </u>	<u>X</u>	<u> </u>
<u>Analytical Sequence</u>			
Is Form VIII present and complete for each column and each period of analyses?	<u>X</u>	<u> </u>	<u> </u>
Was the proper analytical sequence followed?	<u>X</u>	<u> </u>	<u> </u>

PCB Data Validation Checklist - Page 3

	YES	NO	NA
<u>Cleanup Efficiency Verification</u>			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	<u> X </u>	<u> </u>	<u> </u>
<u>PCB Identification</u>			
Are RT of sample compounds within the established RT windows?	<u> X </u>	<u> </u>	<u> </u>
Were all positively identified compounds confirmed on a second column?	<u> X </u>	<u> </u>	<u> </u>
Was GC/MS confirmation provided when required?	<u> </u>	<u> </u>	<u> X </u>
Were there any false negatives?	<u> </u>	<u> X </u>	<u> </u>
<u>Compound Quantitation and Reported Detection Limits</u>			
Are there any transcription/calculation errors in the Form 1 results?	<u> </u>	<u> X </u>	<u> </u>
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	<u> X </u>	<u> </u>	<u> </u>
<u>Chromatogram Quality</u>			
Were the baselines stable?	<u> X </u>	<u> </u>	<u> </u>
Were any electronegative displacement (negative peaks) or unusual peaks detected?	<u> </u>	<u> X </u>	<u> </u>
<u>Field Duplicates</u>			
Were field duplicates submitted with the samples?	<u> X </u>	<u> </u>	<u> </u>

**PCB Qualifier Summary
Holding Time and Surrogates**

Sample ID	Holding Time*	Surrogates*	
		TCX	DCB
MW-22R			
MW-22D			
MW-21S			
MW-21D			
GW-DUP-2			
MW-14			
MW-14 MS			
MW-14 MSD			
MW-6D			
MW-21R			
MW-9			
MW-12			
PZ-01S			
PZ-01D			
RB-02			
MW-3			
MW-20D			
MW-1			

Surrogates:

TCX Tetrachloro-m-xylene
DCB Decachlorobiphenyl
na Not applicable

Qualifiers:

D Surrogate diluted out
+ Recovery high
- Recovery low

* Unless otherwise noted, all parameters are within specified limits.

PCB Calibration Summary

Instrument: HP9B

Column: DB-608

Date:	5/26/99- 5/27/99	7/27/99	7/28/99	7/28/99	7/28/99	7/28/99	7/29/99
Time:		1946	0018	0040	0534	0557	1000
	Initial Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont Cal.
	%RSD	%D	%D	%D	%D	%D	%D
Aroclor 1016	ok			ok		ok	
Aroclor 1221	ok						
Aroclor 1232	ok						
Aroclor 1242	ok						
Aroclor 1248	ok		ok		ok		
Aroclor 1254	ok	ok					ok
Aroclor 1260	ok			ok		ok	
Tetrachloro-m-xylene	ok	ok	ok	ok			ok
Decachlorobiphenyl	ok	-18.8	-15.4	ok			ok
Affected Samples:							

PCB Calibration Summary - Page 2

Instrument: HP9B

Column: DB-608

[illegible]

PCB Calibration Summary - Page 3

Instrument: HP9A

Column: DB-1701

Date:	5/26/99- 5/27/99	7/27/99	7/29/99			
Time:		2009	1022			
	Initial Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont Cal.
	%RSD	%D	%D	%D	%D	%D
Aroclor 1016	ok					
Aroclor 1221	ok					
Aroclor 1232	ok					
Aroclor 1242	ok					
Aroclor 1248	ok					
Aroclor 1254	ok	ok	ok			
Aroclor 1260	ok					
Tetrachloro-m-xylene	ok					
Decachlorobiphenyl	ok					
Affected Samples:						

Corrected Sample Analysis Data Sheets

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-DUP-2

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52864-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: HP9B\B072744

% Moisture: decanted: (Y/N) N

Date Received: 07/21/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/26/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/28/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.5	U
11104-28-2-----Aroclor-1221	0.5	U
11141-16-5-----Aroclor-1232	0.5	U
53469-21-9-----Aroclor-1242	0.5	U
12672-29-6-----Aroclor-1248	0.5	U
11097-69-1-----Aroclor-1254	0.5	U
11096-82-5-----Aroclor-1260	0.5	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-1

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52946-5

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072954

% Moisture: decanted: (Y/N) N

Date Received: 07/23/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/27/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/30/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-12

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-9

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072944

% Moisture: decanted: (Y/N) N

Date Received: 07/22/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/27/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/30/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-14

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L52841

Matrix: (soil/water) WATER Lab Sample ID: L52864-3

Sample wt/vol: 1050 (g/mL) mL Lab File ID: HP9B\B072745

% Moisture: decanted: (Y/N) N Date Received: 07/21/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 07/26/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/28/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	Q
12674-11-2-----	Aroclor-1016	0.48 U
11104-28-2-----	Aroclor-1221	0.48 U
11141-16-5-----	Aroclor-1232	0.48 U
53469-21-9-----	Aroclor-1242	0.48 U
12672-29-6-----	Aroclor-1248	0.48 U
11097-69-1-----	Aroclor-1254	0.48 U
11096-82-5-----	Aroclor-1260	0.48 U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-20D

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52946-4

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072953

% Moisture: decanted: (Y/N) N

Date Received: 07/23/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/27/99

Concentrated Extract Volume: 10000(uL)

Date Analyzed: 07/30/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-21D

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52841-5

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: HP9B\B072743

% Moisture: decanted: (Y/N) N

Date Received: 07/20/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/26/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/28/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.5	U
11104-28-2-----Aroclor-1221	0.5	U
11141-16-5-----Aroclor-1232	0.5	U
53469-21-9-----Aroclor-1242	0.5	U
12672-29-6-----Aroclor-1248	0.5	U
11097-69-1-----Aroclor-1254	0.5	U
11096-82-5-----Aroclor-1260	0.5	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-21R

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-2

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072942

% Moisture: decanted: (Y/N) N

Date Received: 07/22/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/27/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/30/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	1.5	
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

SAMPLE NO.

MW-21S

Contract: Blasland, B

SAS No. :

SDG No. : L52841

Lab Sample ID: L52841-4

Lab File ID: HP9B\B072742

Date Received: 07/20/99

Date Extracted:07/26/99

Date Analyzed: 07/28/99

Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-22D

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52841-3

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072741

% Moisture: decanted: (Y/N) N

Date Received: 07/20/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/26/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/28/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-22R

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52841-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: HP9B\B072740

% Moisture: decanted: (Y/N) N

Date Received: 07/20/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/26/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/28/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.5	U
11104-28-2-----Aroclor-1221	0.5	U
11141-16-5-----Aroclor-1232	0.5	U
53469-21-9-----Aroclor-1242	0.5	U
12672-29-6-----Aroclor-1248	0.5	U
11097-69-1-----Aroclor-1254	0.5	U
11096-82-5-----Aroclor-1260	0.5	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW-3

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52946-3

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072952

% Moisture: decanted: (Y/N) N

Date Received: 07/23/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/27/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/30/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-67A

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52864-6

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072748

% Moisture: decanted: (Y/N) N

Date Received: 07/21/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/26/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/28/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

MW--9

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-8

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072943

% Moisture: decanted: (Y/N) N

Date Received: 07/22/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/27/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/30/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Q

12674-11-2-----	Aroclor-1016	0.48	U
11104-28-2-----	Aroclor-1221	0.48	U
11141-16-5-----	Aroclor-1232	0.48	U
53469-21-9-----	Aroclor-1242	0.48	U
12672-29-6-----	Aroclor-1248	0.48	U
11097-69-1-----	Aroclor-1254	0.48	U
11096-82-5-----	Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

PZ-01D

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-11

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072946

% Moisture: decanted: (Y/N) N

Date Received: 07/22/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/27/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/30/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-01S

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52899-10

Sample wt/vol: 1050 (g/mL) mL

Lab File ID: HP9B\B072945

% Moisture: decanted: (Y/N) N

Date Received: 07/22/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/27/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/30/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.48	U
11104-28-2-----Aroclor-1221	0.48	U
11141-16-5-----Aroclor-1232	0.48	U
53469-21-9-----Aroclor-1242	0.48	U
12672-29-6-----Aroclor-1248	0.48	U
11097-69-1-----Aroclor-1254	0.48	U
11096-82-5-----Aroclor-1260	0.48	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RB-02

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L52841

Matrix: (soil/water) WATER

Lab Sample ID: L52946-2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: HP9B\B072951

% Moisture: decanted: (Y/N) N

Date Received: 07/23/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/27/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/30/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

Q

12674-11-2-----Aroclor-1016	0.5	U
11104-28-2-----Aroclor-1221	0.5	U
11141-16-5-----Aroclor-1232	0.5	U
53469-21-9-----Aroclor-1242	0.5	U
12672-29-6-----Aroclor-1248	0.5	U
11097-69-1-----Aroclor-1254	0.5	U
11096-82-5-----Aroclor-1260	0.5	U

FORM I PEST

INORGANIC ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 methods.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

Concentration (C) qualifiers:

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
- B The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).

Quantitation (Q) qualifiers:

- E The reported value is estimated due to the presence of interference.
- M Duplicate injection precision not met.
- N Spiked sample recovery not within control limits.
- S Reported value was determined by the method of standard additions (MSA).
- W Post-digestion spike for Furnace-AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- * Duplicate analysis not within control limits.
- + Correlation coefficient for MSA is less than 0.995.

Validation qualifiers:

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for inorganic analyses under NYSASP protocols is as follows. All holding times are measured from validated time of sample receipt (VTSR).

Metals (other than mercury)	180 days
Mercury	26 days
Cyanide	12 days

The technical holding times for inorganic analyses is as follows. All holding times are measured from date of collection.

Metals (other than mercury)	180 days
Mercury	28 days
Cyanide	14 days

All samples were analyzed within specified holding times.

2. Blank Contamination

Quality assurance blanks, i.e., method, field, or rinse blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks (including initial and continuing calibration blanks and preparation blanks) measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

All calibration, preparation and rinse blanks were found to be acceptable, with no analytes detected above the CRDL. Several compounds were, however, detected below the CRDL. Based on the similarity between blank and sample concentrations, the following data should be considered highly suspect:

Aluminum	GW-DUP-2(dissolved), MW-1, MW-3, MW-9, MW-12, MW-14, MW-20D, MW-21D, MW-22D, PZ-01S
Antimony	GW-DUP-2, MW-1, MW-3, MW-6D, MW-9, MW-12, MW-14, MW-20D, MW-21D, MW-21R, MW-21S, MW-22D, MW-22R, PZ-01S
Lead	GW-DUP-2, GW-DUP-2(dissolved), MW-1, MW-3, MW-6D, MW-9, MW-14, MW-20D, MW-21R, MW-22R, PZ-01D, PZ-01S

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the

beginning of an experimental sequence. The continuing calibration verifies that the instrument continuing performance is satisfactory.

3.1 Initial Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within control limits.

3.3 CRDL Standard

All CRDL standard recoveries were within control limits.

3.4 ICP Interference Control Sample

All ICS recoveries were acceptable.

4. Matrix Spike/Laboratory Duplicate

Matrix spike and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 Matrix spike

All matrix spike recoveries were within control limits, with the following exceptions:

Total:	within control limits	
Dissolved:	Antimony	56.9%
	Selenium	73.7%
	Silver	70.2%

Based on spike recoveries, antimony, selenium and silver data have been qualified as estimated in samples GW-DUP-2(dissolved) and MW-21R(dissolved).

4.2 Laboratory Duplicate

All laboratory duplicate results were within control limits.

5. Field Duplicate

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Duplicate Result	Sample Result	RPD
MW-21R / GW-DUP-2	aluminum	8980	9380	4%
	antimony	9.9 B	8.2 B	<CRDL
	arsenic	4.0 U	4.6 B	<CRDL
	barium	1860	1930	4%
	calcium	17000	17400	2%
	chromium	24.3	25.6	5%
	cobalt	9.9 B	9.0 B	<CRDL
	copper	6.6 B	10.6 B	<CRDL
	iron	15800	16300	3%
	lead	6.0	5.7	5%
	magnesium	8110	8410	4%
	manganese	290	297	2%
	nickel	21.9 B	21.6 B	<CRDL
	potassium	6390	6300	1%
	sodium	219000	223000	2%
	vanadium	14.3 B	14.6 B	<CRDL
	zinc	30.1	32.0	6%
	cyanide	69.0	77.2	11%

The duplicate results are acceptable.

6. Laboratory Control Sample (LCS)

All LCS recoveries were within control limits.

7. Serial Dilution

All required serial dilution results were acceptable.

8. Furnace QC

No furnace analyses were performed on the samples.

9. Method of Standard Additions (MSA)

No samples were analyzed following the method of standard additions.

10. General Comments

The temperatures for three of the four coolers were outside control limits (at 9.4, 9.3 and 7.0°C) when received at the laboratory. No data have been qualified based on the deviations.

The pH of the metals fractions for samples MW-22R, MW-22D, MW-14, MW-6D, RB-02, MW-3, MW-20D and MW-1 were greater than 2 when received at the laboratory. Samples MW-22R and MW-22D were adjusted upon receipt. No documentation indicating pH adjustment was provided for the remaining samples. Based on the missing documentation, all metals data for samples MW-14, MW-6D, RB-02, MW-3, MW-20D and MW-1 have been qualified as estimated.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checksheets

Inorganic Data Validation Checklist

	YES	NO	NA
<u>Data Completeness and Deliverables</u>			
Is there a narrative or cover letter present?	<u>X</u>	<u> </u>	<u> </u>
Are the sample numbers included in the narrative?	<u> </u>	<u>X</u>	<u> </u>
Are the sample chain-of-custodies present?	<u>X</u>	<u> </u>	<u> </u>
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	<u>X</u>	<u> </u>	<u> </u>
<u>Form I to IX</u>			
Are all the Form I through Form IX labeled with:			
Laboratory name?	<u>X</u>	<u> </u>	<u> </u>
Sample No.?	<u>X</u>	<u> </u>	<u> </u>
SDG No.?	<u>X</u>	<u> </u>	<u> </u>
Correct units?	<u>X</u>	<u> </u>	<u> </u>
Matrix?	<u>X</u>	<u> </u>	<u> </u>
<u>Raw Data</u>			
Is the digestion log for flame AA/ICP present?	<u>X</u>	<u> </u>	<u> </u>
Is the digestion log for furnace AA present?	<u> </u>	<u> </u>	<u>X</u>
Is the distillation log for mercury present?	<u>X</u>	<u> </u>	<u> </u>
Is the distillation log for cyanides present?	<u>X</u>	<u> </u>	<u> </u>
Are pH values listed?	<u>X</u>	<u> </u>	<u> </u>
pH for metals analyses <2 (waters)?	<u> </u>	<u>X</u>	<u> </u>
pH for cyanide analyses >12 (waters)?	<u>X</u>	<u> </u>	<u> </u>
Percent solids calculation present for soils/sediments?	<u> </u>	<u> </u>	<u>X</u>
Are preparation dates present on sample preparation logs/bench sheets?	<u>X</u>	<u> </u>	<u> </u>
Are the measurement read out records present for:			
ICP	<u>X</u>	<u> </u>	<u> </u>
Flame AA	<u> </u>	<u> </u>	<u>X</u>
Furnace AA	<u> </u>	<u> </u>	<u>X</u>
Mercury	<u>X</u>	<u> </u>	<u> </u>
Cyanides	<u>X</u>	<u> </u>	<u> </u>

Inorganic Data Validation Checklist - Page 2

	YES	NO	NA
Is the data legible?	<u>X</u>	<u> </u>	<u> </u>
Is the data properly labeled?	<u>X</u>	<u> </u>	<u> </u>
<u>Holding Times</u>			
Were mercury analyses performed within 28 days?	<u>X</u>	<u> </u>	<u> </u>
Were cyanide distillations performed within 14 days?	<u>X</u>	<u> </u>	<u> </u>
Were other metal analysis performed within 6 months?	<u>X</u>	<u> </u>	<u> </u>
<u>Form I (Final Data)</u>			
Are all forms complete?	<u>X</u>	<u> </u>	<u> </u>
Are correct units indicated on Form I's?	<u>X</u>	<u> </u>	<u> </u>
Are soil sample results for each parameter corrected for percent solids?	<u> </u>	<u> </u>	<u>X</u>
Are all "less than IDL" values properly coded with "U"?	<u>X</u>	<u> </u>	<u> </u>
Are the correct concentration qualifiers used with final data?	<u>X</u>	<u> </u>	<u> </u>
Is a brief physical description of samples given on Form I's?	<u>X</u>	<u> </u>	<u> </u>
<u>Calibration</u>			
Is a record of at least 2 point calibration present for ICP analysis?	<u>X</u>	<u> </u>	<u> </u>
Is a record of 5 point calibration present for Hg analysis?	<u>X</u>	<u> </u>	<u> </u>
Is a record of 4 point calibration present for:			
Flame AA?	<u> </u>	<u> </u>	<u>X</u>
Furnace AA?	<u> </u>	<u> </u>	<u>X</u>
Cyanides?	<u>X</u>	<u> </u>	<u> </u>
Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?	<u>X</u>	<u> </u>	<u> </u>
Is correlation coefficient less than .995 for:			
Mercury Analysis?	<u> </u>	<u>X</u>	<u> </u>
Cyanide Analysis?	<u> </u>	<u>X</u>	<u> </u>

Inorganic Data Validation Checklist - Page 3

	YES	NO	NA
Atomic Absorption Analysis?	<u> </u>	<u> </u>	<u> X </u>
Form II A (Initial and Continuing Calibration Verification)			
Present and complete for all analytes?	<u> X </u>	<u> </u>	<u> </u>
Are all calibration standards (initial and continuing) within control limits for:			
Metals (90-110%)?	<u> X </u>	<u> </u>	<u> </u>
Hg (80-120%)?	<u> X </u>	<u> </u>	<u> </u>
Cyanides (85-115%)?	<u> X </u>	<u> </u>	<u> </u>
Was continuing calibration performed every 10 samples or every 2 hours?	<u> X </u>	<u> </u>	<u> </u>
Was the ICV for cyanides distilled?	<u> X </u>	<u> </u>	<u> </u>
Form II B (CRDL Standards for AA and ICP)			
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?	<u> </u>	<u> </u>	<u> X </u>
Was a mid-range calibration verification standard distilled and analyzed for cyanide analysis?	<u> X </u>	<u> </u>	<u> </u>
Was a 2xCRDL (or 2xIDL when IDL>CRDL) standard (CRI) analyzed for each ICP run?	<u> X </u>	<u> </u>	<u> </u>
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB, and twice every eight hours for each ICP run?	<u> X </u>	<u> </u>	<u> </u>
Are CRA and CRI standards within control limits for metals (60-120%)?	<u> X </u>	<u> </u>	<u> </u>
Is mid-range standard within control limits for cyanide (80-120%)?	<u> X </u>	<u> </u>	<u> </u>
Form III (Initial and Continuing Calibration Blanks)			
Present and complete?	<u> X </u>	<u> </u>	<u> </u>
Was an initial calibration blank analyzed?	<u> X </u>	<u> </u>	<u> </u>
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	<u> X </u>	<u> </u>	<u> </u>
Are all calibration blanks (when IDL<CRDL) less than or equal to the Contract Required Detection Limits (CRDLs)?	<u> X </u>	<u> </u>	<u> </u>

Inorganic Data Validation Checklist - Page 4

	YES	NO	NA
Are all calibration blanks less than two times Instrument Detection Limit (when $IDL > CRDL$)?	<u> </u>	<u> </u>	<u> X </u>
Form III (Preparation Blank)			
Was one prep. blank analyzed for:			
each Sample Delivery Group (SDG)?	<u> X </u>	<u> </u>	<u> </u>
each batch of digested samples?	<u> X </u>	<u> </u>	<u> </u>
each matrix type?	<u> X </u>	<u> </u>	<u> </u>
Is concentration of prep. blank value less than the CRDL (when $IDL \leq CRDL$)?	<u> X </u>	<u> </u>	<u> </u>
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	<u> </u>	<u> </u>	<u> X </u>
Is concentration of prep. blank value less than two times IDL (when $IDL > CRDL$)?	<u> </u>	<u> </u>	<u> X </u>
Is concentration of prep. blank below the negative CRDL?	<u> </u>	<u> X </u>	<u> </u>
Form IV (ICP Interference Check Sample)			
Present and complete?	<u> X </u>	<u> </u>	<u> </u>
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	<u> X </u>	<u> </u>	<u> </u>
Are all ICS results inside the control limits ($\pm 20\%$)?	<u> X </u>	<u> </u>	<u> </u>
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?	<u> </u>	<u> </u>	<u> X </u>
Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)			
Present and complete for:			
each SDG?	<u> X </u>	<u> </u>	<u> </u>
each matrix type?	<u> X </u>	<u> </u>	<u> </u>
Was field blank used for spiked sample?	<u> </u>	<u> X </u>	<u> </u>
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits (75-125)?	<u> </u>	<u> X </u>	<u> </u>
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?	<u> X </u>	<u> </u>	<u> </u>

Inorganic Data Validation Checklist - Page 5

	YES	NO	NA
<u>Aqueous</u>			
Are any spike recoveries:			
less than 30%?	<u> </u>	<u> X </u>	<u> </u>
between 30-74%?	<u> X </u>	<u> </u>	<u> </u>
between 126-150%?	<u> </u>	<u> X </u>	<u> </u>
greater than 150%?	<u> </u>	<u> X </u>	<u> </u>
<u>Soil/Sediment</u>			
Are any spike recoveries:			
less than 10%?	<u> </u>	<u> </u>	<u> X </u>
between 10-74%?	<u> </u>	<u> </u>	<u> X </u>
between 126-200%?	<u> </u>	<u> </u>	<u> X </u>
greater than 200%?	<u> </u>	<u> </u>	<u> X </u>
<u>Form VI (Lab Duplicates)</u>			
Present and complete for:			
each SDG?	<u> X </u>	<u> </u>	<u> </u>
each matrix type?	<u> X </u>	<u> </u>	<u> </u>
Was field blank used for duplicate analysis?	<u> </u>	<u> X </u>	<u> </u>
Are all values within control limits (RPD 20% or difference $\leq \pm$ CRDL)?	<u> X </u>	<u> </u>	<u> </u>
If no, are all results outside the control limits flagged with an * on Form I's and VI?	<u> </u>	<u> </u>	<u> X </u>
<u>Aqueous</u>			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?	<u> </u>	<u> X </u>	<u> </u>
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?	<u> </u>	<u> X </u>	<u> </u>
<u>Soil/Sediment</u>			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) > 100%?	<u> </u>	<u> </u>	<u> X </u>
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5xCRDL) > 2xCRDL?	<u> </u>	<u> </u>	<u> X </u>

Inorganic Data Validation Checklist - Page 6

	YES	NO	NA
<u>Field Duplicates</u>			
Were field duplicates analyzed?	<u>X</u>	<u> </u>	<u> </u>
<u>Aqueous</u>			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times CRDL?	<u> </u>	<u>X</u>	<u> </u>
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?	<u> </u>	<u>X</u>	<u> </u>
<u>Soil/Sediment</u>			
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?	<u> </u>	<u> </u>	<u>X</u>
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL) > 2xCRDL?	<u> </u>	<u> </u>	<u>X</u>
<u>Form VII (Laboratory Control Sample)</u>			
Was one LCS prepared and analyzed for:			
each SDG?	<u>X</u>	<u> </u>	<u> </u>
each batch samples digested/distilled?	<u>X</u>	<u> </u>	<u> </u>
<u>Aqueous LCS</u>			
Is any LCS recovery:			
less than 50%?	<u> </u>	<u>X</u>	<u> </u>
between 50% and 79%?	<u> </u>	<u>X</u>	<u> </u>
between 121% and 150%?	<u> </u>	<u>X</u>	<u> </u>
greater than 150%?	<u> </u>	<u>X</u>	<u> </u>
<u>Solid LCS</u>			
Is LCS "Found" value higher than the control limits on Form VII?	<u> </u>	<u> </u>	<u>X</u>
Is LCS "Found" lower than the control limits on Form VII?	<u> </u>	<u> </u>	<u>X</u>
<u>Form IX (ICP Serial Dilution)</u>			
Was Serial Dilution analysis performed for:			
each SDG?	<u>X</u>	<u> </u>	<u> </u>
each matrix type?	<u>X</u>	<u> </u>	<u> </u>

Inorganic Data Validation Checklist - Page 7

	YES	NO	NA
Was field blank(s) used for Serial Dilution Analysis?	<u> </u>	<u> X </u>	<u> </u>
Are results outside control limit flagged with an "E" on Form I's and Form IX when initial concentration on Form IX is equal to 50 times IDL or greater.	<u> </u>	<u> </u>	<u> X </u>
Are any required % difference values:			
> 10%?	<u> </u>	<u> X </u>	<u> </u>
≥ 100%?	<u> </u>	<u> X </u>	<u> </u>
<u>Furnace Atomic Absorption (AA) QC Analysis</u>			
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?	<u> </u>	<u> </u>	<u> X </u>
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?	<u> </u>	<u> </u>	<u> X </u>
Were dilutions analyzed for samples with analytical spike recovery less than 40%?	<u> </u>	<u> </u>	<u> X </u>
Is analytical spike recovery outside the control limits (85-115%) for any sample?	<u> </u>	<u> </u>	<u> X </u>
<u>Form VIII (Method of Standard Addition Results)</u>			
Present?	<u> </u>	<u> X </u>	<u> </u>
If no, is any Form I result coded with "S" or "+"?	<u> </u>	<u> X </u>	<u> </u>
Was MSA required for any sample but not performed?	<u> </u>	<u> X </u>	<u> </u>
Is the coefficient of correlation for MSA less than 0.995 for any sample?	<u> </u>	<u> </u>	<u> X </u>
Is the coefficient of correlation for MSA less than 0.990 for any sample?	<u> </u>	<u> </u>	<u> X </u>
Are MSA calculations outside the linear range of the calibration curve generated at the beginning of the analytical run?	<u> </u>	<u> </u>	<u> X </u>
Was proper quantitation procedure followed?	<u> </u>	<u> </u>	<u> X </u>
<u>Dissolved/Total for Inorganic/Total Analytes</u>			
Were any analyses performed for dissolved as well as total analytes on the same sample.	<u> X </u>	<u> </u>	<u> </u>

Inorganic Data Validation Checklist - Page 8

	YES	NO	NA
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if greater than CRDL)	_____	<u>X</u>	_____
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?	_____	<u>X</u>	_____
Field Blank			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?	_____	<u>X</u>	_____
If no, was field blank value already rejected due to other QC criteria?	_____	_____	<u>X</u>
Form X, XI, XII (Verification of Instrumental Parameters)			
Is verification report present for :			
Instrument Detection Limits (quarterly)?	<u>X</u>	_____	_____
ICP Interelement Correlation Factors (annually)?	<u>X</u>	_____	_____
ICP Linear Ranges (quarterly)?	<u>X</u>	_____	_____
Are IDLs present for:			
all the analytes?	<u>X</u>	_____	_____
all the instruments used?	<u>X</u>	_____	_____
Is IDL greater than CRDL for any analyte?	_____	<u>X</u>	_____
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.	_____	_____	<u>X</u>
Was any sample result higher than the linear range of ICP.	<u>X</u>	_____	_____
Was any sample result higher than the highest calibration standard for non-ICP parameters?	<u>X</u>	_____	_____
If yes for any of the above, was the sample diluted to obtain the result on Form I?	<u>X</u>	_____	_____
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?	_____	_____	<u>X</u>
< 10%?	_____	_____	<u>X</u>

Corrected Sample Analysis Data Sheets

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-14

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52841

Matrix (soil/water): Water

Lab Sample ID: L52864-3

Level (low/med): LOW

Date Received: 07/21/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	265			P
7440-36-0	Antimony	8.6	B		P
7440-38-2	Arsenic	27.0			P
7440-39-3	Barium	1470			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	253000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.6	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	8880			P
7439-92-1	Lead	4.6			P
7439-95-4	Magnesium	47400			P
7439-96-5	Manganese	8170			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	10300			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	342000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
57-12-5	Cyanide	688			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

CN WAS ANALYZED AT A 2.5X DILUTION.

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-20D

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52841

Matrix (soil/water): Water

Lab Sample ID: L52946-4

Level (low/med): LOW

Date Received: 07/23/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	138	B		P
7440-36-0	Antimony	8.6	B		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	186	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	307000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.2	B		P
7440-50-8	Copper	41.8			P
7439-89-6	Iron	151			P
7439-92-1	Lead	4.1			P
7439-95-4	Magnesium	69100			P
7439-96-5	Manganese	893			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5440			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	454000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	29.8			P
57-12-5	Cyanide	10.0	U		C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-21D

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52841

Matrix (soil/water): Water

Lab Sample ID: L52841-5

Level (low/med): LOW

Date Received: 07/20/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	368			P
7440-36-0	Antimony	9.6	B		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	1210			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	272000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	1.3	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	23800			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	55200			P
7439-96-5	Manganese	5350			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	8980			P
7782-49-2	Selenium	3.9	B		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	215000			P
7440-28-0	Thallium	6.1	B		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.1	B		P
57-12-5	Cyanide	108			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

FORM I - IN

10/95

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NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-21R

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52841

Matrix (soil/water): Water

Lab Sample ID: L52899-2

Level (low/med): LOW

Date Received: 07/22/99

Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9380			P
7440-36-0	Antimony	8.2	B		P
7440-38-2	Arsenic	4.6	B		P
7440-39-3	Barium	1930			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	17400			P
7440-47-3	Chromium	25.6			P
7440-48-4	Cobalt	9.0	B		P
7440-50-8	Copper	10.6	B		P
7439-89-6	Iron	16300			P
7439-92-1	Lead	5.7			P
7439-95-4	Magnesium	8410			P
7439-96-5	Manganese	297			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	21.6	B		P
7440-09-7	Potassium	6300			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	223000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	14.6	B		P
7440-66-6	Zinc	32.0			P
57-12-5	Cyanide	77.2			C

Color Before: grey

Clarity Before: cloudy

Texture:

Color After: light yell

Clarity After: cloudy

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: Galson Laboratories

Contract: BBL

MW-21R

DISSOLVED

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52841

Matrix (soil/water): Water

Lab Sample ID: DL52899-3

Level (low/med): LOW

Date Received: 07/22/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	88.0	U		
7440-36-0	Antimony	5.0	X	X US	P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	1820			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	15400			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	4.4	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	237			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	3500	B		P
7439-96-5	Manganese	92.8			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5040			P
7782-49-2	Selenium	3.5	B	N J	P
7440-22-4	Silver	2.0	X	N US	P
7440-23-5	Sodium	217000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
57-12-5	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

DISSOLVED

NA WAS ANALYZED AT A 10X DILUTION.

FORM I - IN

10/95

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NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-21S

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52841

Matrix (soil/water): Water

Lab Sample ID: L52841-4

Level (low/med): LOW

Date Received: 07/20/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	88.0	U		P
7440-36-0	Antimony	6.3	B		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	168	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	233000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.8	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	1680			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	40700			P
7439-96-5	Manganese	5520			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	8100			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	40600			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
57-12-5	Cyanide	19.7			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-22D

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52841

Matrix (soil/water): Water

Lab Sample ID: L52841-3

Level (low/med): LOW

Date Received: 07/20/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	189	B		P
7440-36-0	Antimony	8.4	B		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	4830			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	199000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	1.5	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	3940			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	51300			P
7439-96-5	Manganese	3250			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	3550	B		P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	34300			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.6	B		P
57-12-5	Cyanide	10.0	U		C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-22R

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52841

Matrix (soil/water): Water

Lab Sample ID: L52841-2

Level (low/med): LOW

Date Received: 07/20/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	328			P
7440-36-0	Antimony	7.1	B		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	7700			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	116000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.1	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	363			P
7439-92-1	Lead	3.1			P
7439-95-4	Magnesium	30400			P
7439-96-5	Manganese	1500			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	9610			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	130000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
57-12-5	Cyanide	10.0	U		C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

FORM I - IN

10/95

214

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-3

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52841

Matrix (soil/water): Water

Lab Sample ID: L52946-3

Level (low/med): LOW

Date Received: 07/23/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	121	B		P
7440-36-0	Antimony	10.2	B		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	251			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	288000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	1.6	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	208.0	U		P
7439-92-1	Lead	2.4	B		P
7439-95-4	Magnesium	79300			P
7439-96-5	Manganese	7950			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	25200			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	323000			P
7440-28-0	Thallium	8.3	B		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
57-12-5	Cyanide	10.0	U		C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT 10X DILUTION.

FE WAS ANALYZED AT A 4X DILUTION.

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-67A

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52841

Matrix (soil/water): Water

Lab Sample ID: L52864-6

Level (low/med): LOW

Date Received: 07/21/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	956			P
7440-36-0	Antimony	7.1	B		P
7440-38-2	Arsenic	5.8	B		P
7440-39-3	Barium	253			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	246000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	1.6	B		P
7440-50-8	Copper	4.9	B		P
7439-89-6	Iron	44100			P
7439-92-1	Lead	7.4			P
7439-95-4	Magnesium	36200			P
7439-96-5	Manganese	3960			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	11500			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	203000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.1	B		P
7440-66-6	Zinc	22.8			P
57-12-5	Cyanide	224			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-9

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52841

Matrix (soil/water): Water

Lab Sample ID: L52899-8

Level (low/med): LOW

Date Received: 07/22/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	121	B		P
7440-35-0	Antimony	6.0	B		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	120	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.4	B		P
7440-70-2	Calcium	240000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.1	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	833			P
7439-92-1	Lead	4.2			P
7439-95-4	Magnesium	63600			P
7439-96-5	Manganese	1130			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	6350			P
7782-49-2	Selenium	3.0	B		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	277000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	5.1	B		P
57-12-5	Cyanide	10.0	U		C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

PZ-01D

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52841

Matrix (soil/water): Water

Lab Sample ID: L52899-11

Level (low/med): LOW

Date Received: 07/22/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	843			P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	17.3			P
7440-39-3	Barium	459			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	121000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	6.4	B		P
7439-89-6	Iron	13400			P
7439-92-1	Lead	3.9			P
7439-95-4	Magnesium	13700			P
7439-96-5	Manganese	1630			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5540			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	116000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	9.3	B		P
57-12-5	Cyanide	27.9			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

PZ-01S

Lab Name: Galson Laboratories

Contract: BBL

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52841

Matrix (soil/water): Water

Lab Sample ID: L52899-10

Level (low/med): LOW

Date Received: 07/22/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	111	B		P
7440-36-0	Antimony	6.4	B		P
7440-38-2	Arsenic	4.1	B		P
7440-39-3	Barium	190	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	144000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	21000			P
7439-92-1	Lead	2.5	B		P
7439-95-4	Magnesium	17000			P
7439-96-5	Manganese	1790			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	10900			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	98300			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
57-12-5	Cyanide	33.1			C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

RB-02

Lab Name: Galson Laboratories

Contract: L3L

Lab Code: 11626

Case No.:

SAS No.:

SDG No.: L52841

Matrix (soil/water): Water

Lab Sample ID: L52846-2

Level (low/med): LOW

Date Received: 07/23/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	104	B		P
7440-36-0	Antimony	9.8	B		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	1.0	U		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	205	B		P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	52.0	U		P
7439-92-1	Lead	2.6	B		P
7439-95-4	Magnesium	67.9	B		P
7439-96-5	Manganese	3.5	B		P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	789	U		P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	537	U		P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
57-12-5	Cyanide	10.0	U		C

Color Before: colorless

Clarity Before: clear

Texture:

Color After: colorless

Clarity After: clear

Artifacts:

Comments:

SUPPLEMENTAL PARAMETER RESULTS



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Fax 315-478-2107

REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52841
DATE: 08/05/99

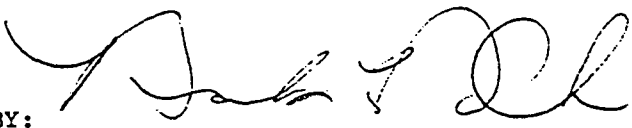
SAMPLE NUMBER- 194271 SAMPLE ID- MW-22R
DATE SAMPLED- 07/19/99
DATE RECEIVED- 07/21/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1405 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1128
RECEIVED BY- CAM
TYPE SAMPLE- Composite

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
NITRATE as N	EPA 353.3	07/22/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/22/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	08/02/99		JDC	3.96 mg/L
SULFIDE AS S2-	EPA 376.1	07/30/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 



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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52841
DATE: 08/05/99

SAMPLE NUMBER- 194272 SAMPLE ID- MW-22D
DATE SAMPLED- 07/19/99
DATE RECEIVED- 07/21/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1405 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1326
RECEIVED BY- CAM
TYPE SAMPLE- Composite

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		BY	RESULT	UNITS
		DATE	TIME			
NITRATE as N	EPA 353.3	07/22/99		JDC	< 0.05	mg/L
NITRITE	EPA 354.1	07/22/99		JDC	< 0.02	mg/L
SULFATE	SM15 426C	08/02/99		JDC	3.50	mg/L
SULFIDE AS S2-	EPA 376.1	07/30/99		JDC	< 1.	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 



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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52841
DATE: 08/05/99

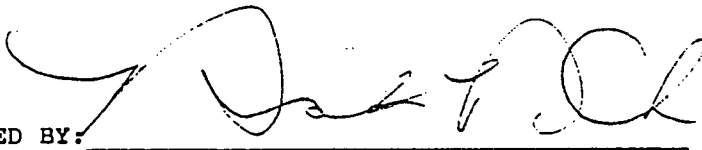
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DATE SAMPLED- 07/19/99
DATE RECEIVED- 07/21/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1405 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1510
RECEIVED BY- CAM
TYPE SAMPLE- Composite

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		BY	RESULT UNITS
		DATE	TIME		
NITRATE as N	EPA 353.3	07/22/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/22/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	08/02/99		JDC	247. mg/L
SULFIDE AS S2-	EPA 376.1	07/30/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 



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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52841
DATE: 08/05/99

SAMPLE NUMBER- 194274 SAMPLE ID- MW-21D
DATE SAMPLED- 07/19/99
DATE RECEIVED- 07/21/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1405 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA

RECEIVED BY- CAM
TYPE SAMPLE- Composite

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		BY	RESULT UNITS
		DATE	TIME		
NITRATE as N	EPA 353.3	07/22/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/22/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	08/02/99		JDC	29.7 mg/L
SULFIDE AS S2-	EPA 376.1	07/30/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 



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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52864
DATE: 08/05/99

SAMPLE NUMBER- 194275 SAMPLE ID- GW-DUP-2
DATE SAMPLED- 07/20/99
DATE RECEIVED- 07/21/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1405 DELIVERED BY- Dan Leone

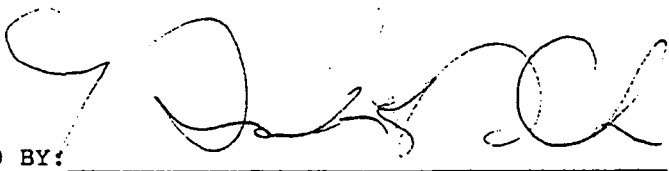
SAMPLE MATRIX- WA

RECEIVED BY- CAM
TYPE SAMPLE- NA

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		BY	RESULT	UNITS
		DATE	TIME			
NITRATE as N	EPA 353.3	07/22/99		JDC	< 0.05	mg/L
NITRITE	EPA 354.1	07/22/99		JDC	< 0.02	mg/L
SULFATE	SM15 426C	08/02/99		JDC	4.20	mg/L
SULFIDE AS S2-	EPA 376.1	07/30/99		JDC	< 1.	mg/L

NYSDOH LAB ID NO. 11246

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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52864
DATE: 08/05/99

SAMPLE NUMBER- 194276 SAMPLE ID- MW-14
DATE SAMPLED- 07/20/99
DATE RECEIVED- 07/21/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1405 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1230
RECEIVED BY- CAM
TYPE SAMPLE- NA

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		BY	RESULT	UNITS
		DATE	TIME			
NITRATE as N	EPA 353.3	07/22/99		JDC	< 0.05	mg/L
NITRITE	EPA 354.1	07/22/99		JDC	< 0.02	mg/L
SULFATE	SM15 426C	08/02/99		JDC	4.20	mg/L
SULFIDE AS S2-	EPA 376.1	07/30/99		JDC	< 1.	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: _____



Certified
Environmental
Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52864
DATE: 08/05/99

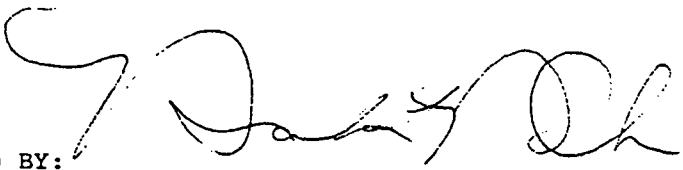
SAMPLE NUMBER- 194277 SAMPLE ID- MW-6A
DATE SAMPLED- 07/20/99
DATE RECEIVED- 07/21/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1405 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1443
RECEIVED BY- CAM
TYPE SAMPLE- NA

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
NITRATE as N	EPA 353.3	07/22/99		JDC	< 0.05 mg/L
NITRITE	EPA 354.1	07/22/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	08/02/99		JDC	250. mg/L
SULFIDE AS S2-	EPA 376.1	07/30/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 



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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52899
DATE: 08/05/99

SAMPLE NUMBER- 194397 SAMPLE ID- MW-21R
DATE SAMPLED- 07/21/99
DATE RECEIVED- 07/23/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1345 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 0845
RECEIVED BY- CAM
TYPE SAMPLE- NA

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		BY	RESULT	UNITS
		DATE	TIME			
NITRATE as N	EPA 353.3	07/23/99		JDC	< 0.05	mg/L
NITRITE	EPA 354.1	07/23/99		JDC	< 0.02	mg/L
SULFATE	SM15 426C	08/02/99		JDC	4.20	mg/L
SULFIDE AS S2-	EPA 376.1	07/30/99		JDC	< 1.	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 



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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52899
DATE: 08/05/99

SAMPLE NUMBER- 194398 SAMPLE ID- MW-9
DATE SAMPLED- 07/21/99
DATE RECEIVED- 07/23/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1345 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1550
RECEIVED BY- CAM
TYPE SAMPLE- NA

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		BY	RESULT UNITS
		DATE	TIME		
NITRATE as N	EPA 353.3	07/23/99		JDC	0.09 mg/L
NITRITE	EPA 354.1	07/23/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	08/02/99		JDC	151. mg/L
SULFIDE AS S2-	EPA 376.1	07/30/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 



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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52899
DATE: 08/05/99

SAMPLE NUMBER- 194399 SAMPLE ID- MW-12
DATE SAMPLED- 07/21/99
DATE RECEIVED- 07/23/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1345 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1345
RECEIVED BY- CAM
TYPE SAMPLE- NA

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		BY	RESULT	UNITS
		DATE	TIME			
NITRATE as N	EPA 353.3	07/23/99		JDC	< 0.05	mg/L
NITRITE	EPA 354.1	07/23/99		JDC	< 0.02	mg/L
SULFATE	SM15 426C	08/02/99		JDC	131.	mg/L
SULFIDE AS S2-	EPA 376.1	07/30/99		JDC	< 1.	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 



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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52899
DATE: 08/05/99

SAMPLE NUMBER- 194400 SAMPLE ID- PZ-01S
DATE SAMPLED- 07/21/99
DATE RECEIVED- 07/23/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1345 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1047
RECEIVED BY- CAM
TYPE SAMPLE- NA

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT	UNITS
		DATE	TIME	BY		
NITRATE as N	EPA 353.3	07/23/99		JDC	< 0.05	mg/L
NITRITE	EPA 354.1	07/23/99		JDC	< 0.02	mg/L
SULFATE	SM15 426C	08/02/99		JDC	12.3	mg/L
SULFIDE AS S2-	EPA 376.1	07/30/99		JDC	< 1.	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 



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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52899
DATE: 08/05/99

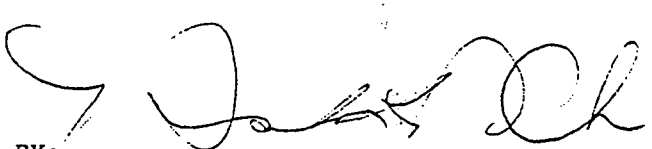
SAMPLE NUMBER- 194401 SAMPLE ID- PZ-01D
DATE SAMPLED- 07/21/99
DATE RECEIVED- 07/23/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1345 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1137
RECEIVED BY- CAM
TYPE SAMPLE- NA

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		BY	RESULT	UNITS
		DATE	TIME			
NITRATE as N	EPA 353.3	07/23/99		JDC	< 0.05	mg/L
NITRITE	EPA 354.1	07/23/99		JDC	< 0.02	mg/L
SULFATE	SM15 426C	08/02/99		JDC	45.3	mg/L
SULFIDE AS S2-	EPA 376.1	07/30/99		JDC	< 1.	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 



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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52946
DATE: 08/05/99

SAMPLE NUMBER- 194402 SAMPLE ID- RB-02
DATE SAMPLED- 07/22/99
DATE RECEIVED- 07/23/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1345 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1530
RECEIVED BY- CAM
TYPE SAMPLE- NA

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT	UNITS
		DATE	TIME	BY		
NITRATE as N	EPA 353.3	07/23/99		JDC	< 0.05	mg/L
NITRITE	EPA 354.1	07/23/99		JDC	< 0.02	mg/L
SULFATE	SM15 426C	08/02/99		JDC	4.20	mg/L
SULFIDE AS S2-	EPA 376.1	07/30/99		JDC	< 1.	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 



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Fax 315-478-2107

REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52946
DATE: 08/05/99

SAMPLE NUMBER- 194403 SAMPLE ID- MW-3
DATE SAMPLED- 07/22/99
DATE RECEIVED- 07/23/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1345 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1058
RECEIVED BY- CAM
TYPE SAMPLE- NA

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
NITRATE as N	EPA 353.3	07/23/99		JDC	0.07 mg/L
NITRITE	EPA 354.1	07/23/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	08/02/99		JDC	52.4 mg/L
SULFIDE AS S2-	EPA 376.1	07/30/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 



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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52946
DATE: 08/05/99

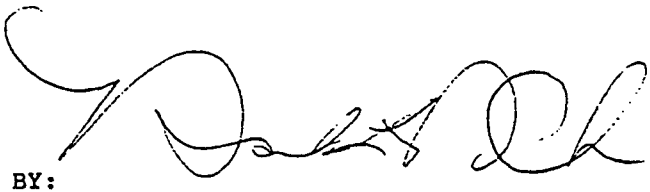
SAMPLE NUMBER- 194404 SAMPLE ID- MW-20D
DATE SAMPLED- 07/22/99
DATE RECEIVED- 07/23/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1345 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1345
RECEIVED BY- CAM
TYPE SAMPLE- NA

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
NITRATE as N	EPA 353.3	07/23/99		JDC	1.68 mg/L
NITRITE	EPA 354.1	07/23/99		JDC	0.06 mg/L
SULFATE	SM15 426C	08/02/99		JDC	143. mg/L
SULFIDE AS S2-	EPA 376.1	07/30/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 



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REPORT OF ANALYSES

GALSON LABORATORIES
6601 KIRKVILLE RD. EAST
E. SYRACUSE, NY 13057-
Attn: MR. MICHAEL BUCHANAN

PROJECT NAME: L52946
DATE: 08/05/99

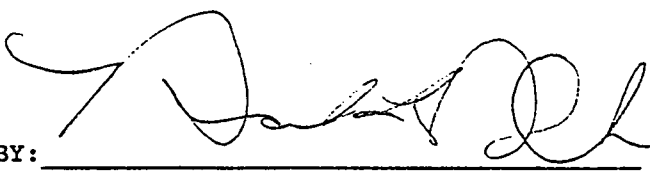
SAMPLE NUMBER- 194405 SAMPLE ID- MW-1
DATE SAMPLED- 07/22/99
DATE RECEIVED- 07/23/99 SAMPLER- Information Not Provided
TIME RECEIVED- 1345 DELIVERED BY- Dan Leone

SAMPLE MATRIX- WA
TIME SAMPLED- 1505
RECEIVED BY- CAM
TYPE SAMPLE- NA

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
NITRATE as N	EPA 353.3	07/23/99		JDC	1.78 mg/L
NITRITE	EPA 354.1	07/23/99		JDC	< 0.02 mg/L
SULFATE	SM15 426C	08/02/99		JDC	125. mg/L
SULFIDE AS S2-	EPA 376.1	07/30/99		JDC	< 1. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 

Laboratory Narrative



6601 Kirkville Road
E. Syracuse, NY 13057-0369
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www.galsonlabs.com

Mr. Mike Jones
Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse, NY 13214

RE: NMPC North Albany; Project No. 364.69
SDG L52841

The following package contains the analytical results of the water samples submitted to our laboratory on July 20, 21, 22 and 23, 1999. The samples were received intact and under proper chain of custody. The samples were assigned to logins L52841, L52864, L52899 and L52946, and sample delivery group (SDG) L52841.

The samples submitted for nitrate, nitrite, sulfate and sulfide analyses were subcontracted to Certified Environmental Services, Inc. Their report is included in its entirety in Appendix I.

Samples MW-2R and MW-22D, submitted for metals analysis, were received at pH 4. Upon receipt, 1:1 nitric acid was added until a pH of less than 2 was obtained as required for preservation.

The samples are reported according to ASP Category B guidelines. Samples MW-14 and MW-21R were submitted for matrix spike and matrix duplicate analyses. The samples were analyzed by SW846 methods 8260, 8270, 8082, 6010/7000 and 9010.

I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the *package review checklists*. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or manager's designee, as verified by the following signature.

Galson Laboratories

Date: September 15, 1999



NYSDEC Sample Preparation and Analysis Summary Sheets

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
GW-DUP-2 L52864-2	WATER	20-JUL-99	21-JUL-99	NA	21-JUL-99
MW-1 L52946-5	WATER	22-JUL-99	23-JUL-99	NA	23-JUL-99
MW-12 L52899-9	WATER	21-JUL-99	22-JUL-99	NA	22-JUL-99
MW-14 L52864-3	WATER	20-JUL-99	21-JUL-99	NA	21-JUL-99
MW-14MS L52864-4	WATER	20-JUL-99	21-JUL-99	NA	21-JUL-99
MW-14MSD L52864-5	WATER	20-JUL-99	21-JUL-99	NA	21-JUL-99
MW-20D L52946-4	WATER	22-JUL-99	23-JUL-99	NA	23-JUL-99
MW-21D L52841-5	WATER	19-JUL-99	20-JUL-99	NA	20-JUL-99
MW-21R L52899-2	WATER	21-JUL-99	22-JUL-99	NA	22-JUL-99
MW-21S L52841-4	WATER	19-JUL-99	20-JUL-99	NA	20-JUL-99
MW-22D L52841-3	WATER	19-JUL-99	20-JUL-99	NA	20-JUL-99
MW-22R L52841-2	WATER	19-JUL-99	20-JUL-99	NA	20-JUL-99
MW-3 L52946-3	WATER	22-JUL-99	23-JUL-99	NA	23-JUL-99
MW-6D L52864-6	WATER	20-JUL-99	21-JUL-99	NA	21-JUL-99
MW-9 L52899-8	WATER	21-JUL-99	22-JUL-99	NA	22-JUL-99
PZ-01D L52899-11	WATER	21-JUL-99	22-JUL-99	NA	22-JUL-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Clean up	Dil/Conc Factor
GW-DUP-2 L52864-2	WATER	SW846 8260	NA		1
MW-1 L52946-5	WATER	SW846 8260	NA		1
MW-12 L52899-9	WATER	SW846 8260	NA		1
MW-14 L52864-3	WATER	SW846 8260	NA		1
MW-14MS L52864-4	WATER	SW846 8260	NA		1
MW-14MSD L52864-5	WATER	SW846 8260	NA		1
MW-20D L52946-4	WATER	SW846 8260	NA		1
MW-21D L52841-5	WATER	SW846 8260	NA		1
MW-21R L52899-2	WATER	SW846 8260	NA		1
MW-21S L52841-4	WATER	SW846 8260	NA		1
MW-22D L52841-3	WATER	SW846 8260	NA		1
MW-22R L52841-2	WATER	SW846 8260	NA		1
MW-3 L52946-3	WATER	SW846 8260	NA		1
MW-6D L52864-6	WATER	SW846 8260	NA		1
MW-9 L52899-8	WATER	SW846 8260	NA		1
PZ-01D L52899-11	WATER	SW846 8260	NA		1

SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
GW-DUP-2 L52864-2	WATER	20-JUL-99	21-JUL-99	26-JUL-99	24-AUG-99
MW-1 L52946-5	WATER	22-JUL-99	23-JUL-99	26-JUL-99	20-AUG-99
MW-12 L52899-9	WATER	21-JUL-99	22-JUL-99	26-JUL-99	24-AUG-99
MW-14 L52864-3	WATER	20-JUL-99	21-JUL-99	26-JUL-99	24-AUG-99
MW-14MS L52864-4	WATER	20-JUL-99	21-JUL-99	26-JUL-99	20-AUG-99
MW-14MSD L52864-5	WATER	20-JUL-99	21-JUL-99	26-JUL-99	20-AUG-99
MW-20D L52946-4	WATER	22-JUL-99	23-JUL-99	26-JUL-99	20-AUG-99
MW-21D L52841-5	WATER	19-JUL-99	20-JUL-99	22-JUL-99	19-AUG-99
MW-21R L52899-2	WATER	21-JUL-99	22-JUL-99	26-JUL-99	24-AUG-99
MW-21S L52841-4	WATER	19-JUL-99	20-JUL-99	22-JUL-99	19-AUG-99
MW-22D L52841-3	WATER	19-JUL-99	20-JUL-99	22-JUL-99	19-AUG-99
MW-22R L52841-2	WATER	19-JUL-99	20-JUL-99	22-JUL-99	19-AUG-99
MW-3 L52946-3	WATER	22-JUL-99	23-JUL-99	26-JUL-99	23-AUG-99
MW-6D L52864-6	WATER	20-JUL-99	21-JUL-99	26-JUL-99	24-AUG-99
MW-9 L52899-8	WATER	21-JUL-99	22-JUL-99	26-JUL-99	24-AUG-99
PZ-01D L52899-11	WATER	21-JUL-99	22-JUL-99	26-JUL-99	25-AUG-99

SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Clean up	Dil/Conc Factor
GW-DUP-2 L52864-2	WATER	SW846 8270	SW846/3520 /8270	NONE	1
MW-1 L52946-5	WATER	SW846 8270	SW846/3520 /8270		1
MW-12 L52899-9	WATER	SW846 8270	SW846/3520 /8270		1
MW-14 L52864-3	WATER	SW846 8270	SW846/3520 /8270		1
MW-14MS L52864-4	WATER	SW846 8270	SW846/3520 /8270		1
MW-14MSD L52864-5	WATER	SW846 8270	SW846/3520 /8270		1
MW-20D L52946-4	WATER	SW846 8270	SW846/3520 /8270		1
MW-21D L52841-5	WATER	SW846 8270	SW846/3520 /8270		1
MW-21R L52899-2	WATER	SW846 8270	SW846/3520 /8270		1
MW-21S L52841-4	WATER	SW846 8270	SW846/3520 /8270		1
MW-22D L52841-3	WATER	SW846 8270	SW846/3520 /8270		1
MW-22R L52841-2	WATER	SW846 8270	SW846/3520 /8270		1
MW-3 L52946-3	WATER	SW846 8270	SW846/3520 /8270		1
MW-6D L52864-6	WATER	SW846 8270	SW846/3520 /8270		1
MW-9 L52899-8	WATER	SW846 8270	SW846/3520 /8270		1
PZ-01D L52899-11	WATER	SW846 8270	SW846/3520 /8270	X	1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
GW-DUP-2 L52864-2	WATER	20-JUL-99	21-JUL-99	26-JUL-99	28-JUL-99
MW-1 L52946-5	WATER	22-JUL-99	23-JUL-99	27-JUL-99	30-JUL-99
MW-12 L52899-9	WATER	21-JUL-99	22-JUL-99	27-JUL-99	30-JUL-99
MW-14 L52864-3	WATER	20-JUL-99	21-JUL-99	26-JUL-99	28-JUL-99
MW-14MS L52864-4	WATER	20-JUL-99	21-JUL-99	26-JUL-99	28-JUL-99
MW-14MSD L52864-5	WATER	20-JUL-99	21-JUL-99	26-JUL-99	28-JUL-99
MW-20D L52946-4	WATER	22-JUL-99	23-JUL-99	27-JUL-99	30-JUL-99
MW-21D L52841-5	WATER	19-JUL-99	20-JUL-99	26-JUL-99	28-JUL-99
MW-21R L52899-2	WATER	21-JUL-99	22-JUL-99	27-JUL-99	30-JUL-99
MW-21S L52841-4	WATER	19-JUL-99	20-JUL-99	26-JUL-99	28-JUL-99
MW-22D L52841-3	WATER	19-JUL-99	20-JUL-99	26-JUL-99	28-JUL-99
MW-22R L52841-2	WATER	19-JUL-99	20-JUL-99	26-JUL-99	28-JUL-99
MW-3 L52946-3	WATER	22-JUL-99	23-JUL-99	27-JUL-99	30-JUL-99
MW-6D L52864-6	WATER	20-JUL-99	21-JUL-99	26-JUL-99	28-JUL-99
MW-9 L52899-8	WATER	21-JUL-99	22-JUL-99	27-JUL-99	30-JUL-99
PZ-01D L52899-11	WATER	21-JUL-99	22-JUL-99	27-JUL-99	30-JUL-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Clean up	Dil/Conc Factor
GW-DUP-2 L52864-2	Water	ECED NYSDDEC ASD CAT B	SW846/3510	ACID WASH ALLOWED	1
MW-1 L52946-5	Water		SW846/3510		1
MW-12 L52899-9	Water		SW846/3510		1
MW-14 L52864-3	Water		SW846/3510		1
MW-14MS L52864-4	Water		SW846/3510		1
MW-14MSD L52864-5	Water		SW846/3510		1
MW-20D L52946-4	Water		SW846/3510		1
MW-21D L52841-5	Water		SW846/3510		1
MW-21R L52899-2	Water		SW846/3510		1
MW-21S L52841-4	Water		SW846/3510		1
MW-22D L52841-3	Water		SW846/3510		1
MW-22R L52841-2	Water		SW846/3510		1
MW-3 L52946-3	Water		SW846/3510		1
MW-6D L52864-6	Water		SW846/3510		1
MW-9 L52899-8	Water		SW846/3510		1
PZ-01D L52899-11	Water		SW846/3510		1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

INORGANIC SAMPLE ANALYSIS SUMMARY

SAMPLE ID	MATRIX	INORGANICS REQUESTED	DATE REC'D	DATE ANALYZED
GW-DUP-2 L52899-12	WATER	TAL METALS CN	7/22/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/29/99
GW-DUP-2 DL52899-13	DISSOLVED WATER	TAL METALS	7/22/99	ICP : 08/03/99 Hg : 07/29/99
MW-1 L52946-5	WATER	TAL METALS CN	7/23/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/29/99
MW-12 L52899-9	WATER	TAL METALS CN	7/22/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/29/99
MW-14 L52864-3	WATER	TAL METALS CN	7/21/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/29/99
MW-20D L52946-4	WATER	TAL METALS CN	7/23/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/29/99
MW-21D L52841-5	WATER	TAL METALS CN	7/20/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/22/99
MW-21R L52899-2	WATER	TAL METALS CN	7/22/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/29/99
MW-21R DL52899-3	DISSOLVED WATER	TAL METALS	7/22/99	ICP : 08/03/99 Hg : 07/29/99
MW-21RMS L52899-4S	WATER	TAL METALS CN	7/22/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/29/99
MW-21RMS DL52899-5S	DISSOLVED WATER	TAL METALS	7/22/99	ICP : 08/03/99 Hg : 07/29/99
MW-21RMSD L52899-6D	WATER	TAL METALS CN	7/22/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/29/99
MW-21RMSD DL52899-7D	DISSOLVED WATER	TAL METALS	7/22/99	ICP : 08/03/99 Hg : 07/29/99
MW-21S L52841-4	WATER	TAL METALS CN	7/20/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/22/99
MW-22D L52841-3	WATER	TAL METALS CN	7/20/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/22/99
MW-22R L52841-2	WATER	TAL METALS CN	7/20/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/22/99
MW-3 L52946-3	WATER	TAL METALS CN	7/23/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/29/99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

INORGANIC SAMPLE ANALYSIS SUMMARY

SAMPLE ID	MATRIX	INORGANICS REQUESTED	DATE REC'D	DATE ANALYZED
MW-6D L52864-6	WATER	TAL METALS CN	7/21/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/29/99
MW-9 L52899-8	WATER	TAL METALS CN	7/22/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/29/99
PZ-01D L52899-11	WATER	TAL METALS CN	7/22/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/29/99
PZ-01S L52899-10	WATER	TAL METALS CN	7/22/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/29/99
RB-02 L52946-2	WATER	TAL METALS CN	7/23/99	ICP : 08/03/99 Hg : 07/29/99 CN : 07/29/99

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliance ¹				Noncompliance
					VOA	BNA	PCB	TAL	
L52841	7/19/99	1995	MW-22R	water	no	no	no	no	VOA - calibration ³ , blank BNA - ms ² , calibration ⁴ PCB - blank ² TAL - blank
L52841	7/19/99	1995	MW-22D	water	no	no	no	no	VOA - calibration ³ , blank BNA - ms ² , calibration ⁴ PCB - blank ² TAL - blank
L52841	7/19/99	1995	MW-21S	water	no	no	no	no	VOA - calibration ³ , blank BNA - ms ² , calibration ⁴ PCB - blank ² TAL - blank
L52841	7/19/99	1995	MW-21D	water	no	no	no	no	VOA - calibration ³ , blank BNA - ms ² , calibration ⁴ PCB - blank ² TAL - blank
L52841	--	1995	TB-05	water	no	--	--	--	VOA - calibration ³
L52841	7/20/99	1995	GW-DUP-2	water	no	no	no	--	VOA - calibration ³ BNA - ms ² , calibration ³ PCB - blank ²
L52841	7/20/99	1995	MW-14	water	no	no	no	no	VOA - calibration ³ , blank BNA - ms ² , calibration ³ PCB - blank ² TAL - blank, pH
L52841	7/20/99	1995	MW-6D	water	no	no	no	no	VOA - calibration ³ BNA - ms ² , calibration ³ , surr ² PCB - blank ² TAL - blank, pH
L52841	--	1995	TB-06	water	no	--	--	--	VOA - calibration ³
L52841	7/21/99	1995	MW-21R	water	no	no	yes	no	VOA - calibration ³ BNA - ms ² , calibration ³ TAL - blank, ms ⁵

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliance ¹				Noncompliance
					VOA	BNA	PCB	TAL	
L52841	7/21/99	1995	MW-9	water	no	no	yes	no	VOA - calibration ³ BNA - ms ² , calibration ³ TAL - blank
L52841	7/21/99	1995	MW-12	water	no	no	yes	no	VOA - calibration ³ BNA - ms ² , calibration ³ TAL - blank
L52841	7/21/99	1995	PZ-01S	water	no	no	yes	no	VOA - calibration ³ BNA - ms ² , calibration ³ , surr ² TAL - blank
L52841	7/21/99	1995	PZ-01D	water	no	no	yes	no	VOA - calibration ³ BNA - ms ² TAL - blank
L52841	7/21/99	1995	GW-DUP-2	water	--	--	--	no	TAL - blank, ms ⁵
L52841	--	1995	TB-06 (#2)	water	no	--	--	--	VOA - calibration ³
L52841	7/22/99	1995	RB-02	water	no	yes	yes	no	VOA - calibration ³ TAL - pH
L52841	7/22/99	1995	MW-3	water	no	no	yes	no	VOA - calibration ³ BNA - ms ² TAL - blank, pH
L52841	7/22/99	1995	MW-20D	water	no	no	yes	no	VOA - calibration ³ BNA - ms ² TAL - blank, pH
L52841	7/22/99	1995	MW-1	water	no	no	yes	no	VOA - calibration ³ BNA - ms ² , is TAL - blank, pH
L52841	--	1995	TB-07	water	no	--	--	--	VOA - calibration ³

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.
- 2 The non-compliance resulted in no qualification of data.
- 3 Although the deviation resulted in the qualification of data, the laboratory was method compliant.
- 4 The calibration was method-noncompliant.
- 5 Dissolved fraction.

SDG - L52869

Samples collected 7/15/99



Galson
Laboratories

6601 Kirkville Road
E. Syracuse, NY 13057-0369
Phone: (315) 432-5227
Fax: (315) 437-0571
www.galsonlabs.com

August 13, 1999

DOH ELAP# 11626

Mr. Mike Jones
Blasland, Bouck & Lee
6723 Towpath Road
Box 66
Syracuse, NY 13214

Re: Client Account# 12806

Login# L52869

Dear Mr. Jones:

Enclosed are the analytical results of the samples received by and analyzed by Saybolt Inc on July 16, 1999. Their report is enclosed in its entirety.

Please contact our Client Services Department at (315) 437-7252, extension 116, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,

Galson Laboratories

F. Joseph Unangst
FOR:

F. Joseph Unangst
Laboratory Director

Enclosure(s)





**6601 Kirkville Road East
E. Syracuse, New York 13057
315 437-7252 • 888-577-5227**

companyName
Blossland Buckt
Lee

Project Name / Number
NIMO N. Albany
36469015

☒ - Standard Service
☐ - * Rush Service

Date requested by:

Ph # (315)-446-9120

Fax # () - -

Send Report to: Mike Jones
6723 Township Rd.
Syracuse NY 13214

Send Invoice to: Symo

P.O. # 36469015

Page | o

PARAMETERS FOR ANALYSIS

SAMPLE ID	Date	Time	TYPE			Chain of Custody Record						VISO	Spec	Interf	PAH's	BTEX	PCB's	Cyan	TALN	TPH	RTU
			Comp.	Grab	Aqueous	Soil	Other	Laboratory	ID	Number											
MW-7	7/10/99	1230	X					L52869-1			X	X	X	X	X	X	X	X	X	X	X
MW-6A	7/15/99	1315	X					L52869-2			X	X	X	X	X	X	X	X	X	X	X
Extra Volume MW-7 one 40 ml VOA	7/13/99	1515	X																		
Extra Volume MW-6A two 40 ml VOAs	7/13/99	1715	X																		

*All subcontracted to Saybolt

REMARKS: These are the priorities for analysis respectively.

Total Containers - 7

Please analyze accordingly. Any questions, please call L. Mokry

① Physical Characterization - viscosity, specific gravity, interfacial tension. ② Analytical - PAHs, BTEX, PCBs, cyanide, TAL Metals, TPH, BTUs

SAMPLER'S NAME: Leanne Sanders

SIGNATURE: James Sand

VOC Pres	U	P	AU	NA

SAMPLES RELINQUISHED BY:

SAMPLES RECEIVED BY:

Custody Seal Intact?	☐ Yes	☐ No	☒ N.A.
Shipment Complete?	☐ Yes	☐ No	

NAME: Thane Sanders DATE: 7/15/99
SIGNATURE: [Signature] TIME: 1400

NAME: _____ DATE: _____
SIGNATURE: _____ TIME: _____

Temp 20 °C TS TB TM TD

NAME: _____ DATE: _____
SIGNATURE: _____ TIME: _____

Received For Laboratory By: [Signature] DATE: 7-16-81
(Signature) TIME: 1630

Airbill # *WAF-2*

NAME: _____ DATE: _____
SIGNATURE: _____ TIME: _____

Received For Laboratory By: _____ DATE: _____
(Signature) _____ TIME: _____



ANALYSIS SUMMARY REPORT

Saybolt, Inc.
PO Box 517
Folcroft, PA 19032-0517

GSA Group: 51969
Date Reported: 08/05/1999
Date Received: 07/23/1999

Purchase Order: 10624
Project No.:

Test Analysis	Results as Received	Units	Limit of Quantitation
Sample: 270968 - 07/15/1999 - MW-7			
ICSTB Metals by ICP, Solids, Trace			
Aluminum	50	mg/kg	20
Antimony	ND	mg/kg	6
Arsenic	2	mg/kg	1
Barium	0.6	mg/kg	0.5
Beryllium	ND	mg/kg	0.5
Cadmium	ND	mg/kg	0.5
Calcium	ND	mg/kg	200
Chromium	ND	mg/kg	1
Cobalt	ND	mg/kg	1
Copper	ND	mg/kg	1
Iron	190	mg/kg	10
Lead	3	mg/kg	1
Magnesium	ND	mg/kg	200
Manganese	3.3	mg/kg	0.5
Nickel	ND	mg/kg	2
Potassium	ND	mg/kg	200
Selenium	ND	mg/kg	1.5
Silver	ND	mg/kg	0.5
Sodium	ND	mg/kg	200
Thallium	ND	mg/kg	1
Vanadium	ND	mg/kg	4
Zinc	2	mg/kg	2
0159D Mercury by Cold Vapor AA, Solids	ND	mg/kg	0.25
0518 BTU, Solids	15.700	BTU/lb	500
6242L Cyanide, Automated	ND	mg/kg	0.5
6776 Specific Gravity, ASTM D70	1.17		(1) 0.50
0538H TPH, Gasoline Range Organics, SW	329,000,000	ug/kg	100,000,000
1216D Polychlorinated Biphenyls, Oils			
Aroclor-1016	ND	mg/kg	5
Aroclor-1221	ND	mg/kg	5
Aroclor-1232	ND	mg/kg	5
Aroclor-1242	ND	mg/kg	5
Aroclor-1248	ND	mg/kg	5
Aroclor-1254	ND	mg/kg	5
Aroclor-1260	ND	mg/kg	5



ANALYSIS SUMMARY REPORT

Page 2

Saybolt, Inc.

GSA Group: 51969

Test Analysis	Results as Received	Units	Limit of Quantitation
Sample:270968 - 07/15/1999 - MW-7			
0539H TPH, Diesel Range Organics	30,000,000	ug/kg	24,900,000
8261C Volatiles, TCL List			
Benzene	1,340,000	ug/kg	200,000
Ethylbenzene	4,340,000	ug/kg	200,000
Toluene	1,510,000	ug/kg	200,000
Xylene (total)	1,730,000	ug/kg	800,000
6721C Polynuclear Aromatic Hydrocarbons			
Acenaphthene	10,600,000	ug/kg	3,960,000
Acenaphthylene	21,300,000	ug/kg	3,960,000
Anthracene	9,010,000	ug/kg	3,960,000
Benzo(a)anthracene	8,160,000	ug/kg	3,960,000
Benzo(a)pyrene	9,870,000	ug/kg	3,960,000
Benzo(b)fluoranthene	5,750,000	ug/kg	396,000
Benzo(ghi)perylene	7,890,000	ug/kg	3,960,000
Benzo(k)fluoranthene	4,920,000	ug/kg	396,000
Chrysene	6,660,000	ug/kg	3,960,000
Dibenzo(a,h)anthracene	360,000	ug/kg	39,600
Fluoranthene	26,200,000	ug/kg	3,960,000
Fluorene	10,400,000	ug/kg	3,960,000
Indeno(1,2,3-cd)pyrene	2,580,000	ug/kg	39,600
1-Methylnaphthalene	7,200,000	ug/kg	3,960,000
2-Methylnaphthalene	14,300,000	ug/kg	3,960,000
Naphthalene	116,000,000	ug/kg	15,800,000
Phenanthrene	52,000,000	ug/kg	3,960,000
Pyrene	42,200,000	ug/kg	3,960,000
Sample:270969 - 07/15/1999 - MW-6A			
ICSTB Metals by ICP, Solids, Trace			
Aluminum	22	mg/kg	20
Antimony	ND	mg/kg	6
Arsenic	ND	mg/kg	1
Barium	ND	mg/kg	0.5
Beryllium	ND	mg/kg	0.5
Cadmium	ND	mg/kg	0.5
Calcium	ND	mg/kg	200
Chromium	ND	mg/kg	1
Cobalt	ND	mg/kg	1
Copper	ND	mg/kg	1
Iron	135	mg/kg	10



ANALYSIS SUMMARY REPORT

Page 3

Saybolt, Inc.

GSA Group: 51969

Test Analysis	Results as Received	Units	Limit of Quantitation
Sample: 270969 - 07/15/1999 - MW-6A			
ICSTB Metals by ICP, Solids, Trace			
Lead	2	mg/kg	1
Magnesium	ND	mg/kg	200
Manganese	0.9	mg/kg	0.5
Nickel	ND	mg/kg	2
Potassium	ND	mg/kg	200
Selenium	ND	mg/kg	1.5
Silver	ND	mg/kg	0.5
Sodium	ND	mg/kg	200
Thallium	ND	mg/kg	1
Vanadium	ND	mg/kg	4
Zinc	ND	mg/kg	2
0159D Mercury by Cold Vapor AA, Solids	ND	mg/kg	0.25
518 BTU, Solids	16,400	BTU/lb	500
0242L Cyanide, Automated	ND	mg/kg	0.5
6776 Specific Gravity, ASTM D70	1.18		(2) 0.50
038H TPH, Gasoline Range Organics, SW	153,000,000	ug/kg	100,000,000
0216D Polychlorinated Biphenyls, Oils			
Aroclor-1016	ND	mg/kg	10
Aroclor-1221	ND	mg/kg	10
Aroclor-1232	ND	mg/kg	10
Aroclor-1242	ND	mg/kg	10
Aroclor-1248	ND	mg/kg	10
Aroclor-1254	ND	mg/kg	10
Aroclor-1260	ND	mg/kg	10
0539H TPH, Diesel Range Organics	421,000,000	ug/kg	124,000,000
8261C Volatiles, TCL List			
Benzene	2,280,000	ug/kg	200,000
Ethylbenzene	6,400,000	ug/kg	200,000
Toluene	2,000,000	ug/kg	200,000
Xylene (total)	1,910,000	ug/kg	800,000
6711C Polynuclear Aromatic Hydrocarbons			
Acenaphthene	24,200,000	ug/kg	9,900,000
Acenaphthylene	9,860,000	ug/kg	990,000
Anthracene	8,880,000	ug/kg	990,000
Benzo(a)anthracene	8,690,000	ug/kg	990,000
Benzo(a)pyrene	10,500,000	ug/kg	990,000
Benzo(b)fluoranthene	4,390,000	ug/kg	990,000
Benzo(ghi)perylene	9,490,000	ug/kg	990,000



ANALYSIS SUMMARY REPORT

Page 4

Saybolt, Inc.

GSA Group: 51969

<u>Test Analysis</u>	<u>Results as Received</u>	<u>Units</u>	<u>Limit of Quantitation</u>
Sample: 270969 - 07/15/1999 - MW-6A			
6721C Polynuclear Aromatic Hydrocarbons			
Benzo(k)fluoranthene	5,080,000	ug/kg	990,000
Chrysene	7,280,000	ug/kg	990,000
Dibenzo(a,h)anthracene	225,000	ug/kg	99,000
Fluoranthene	22,800,000	ug/kg	9,900,000
Fluorene	7,770,000	ug/kg	990,000
Indeno(1,2,3-cd)pyrene	954,000	ug/kg	99,000
1-Methylnaphthalene	6,330,000	ug/kg	990,000
2-Methylnaphthalene	13,700,000	ug/kg	990,000
Naphthalene	102,000,000	ug/kg	9,900,000
Phenanthrene	46,700,000	ug/kg	9,900,000
Pyrene	42,900,000	ug/kg	9,900,000

(1) Specific Gravity was subcontracted to Texas Oiltech Laboratories in Houston, Texas and analyzed by ASTM D70. Result is 1.1730.

(2) Result is 1.1803.

Test Method Summary:

59D- SW-846 7471A	0518 - ASTM D240-76	0538H- SW-846 8015A MOD
39H- SW-846 8015A MOD	1216D- SW846 8082	6242L- SW-846 9012
6721C- SW-846 8270C	6776 - ASTM D70	8261C- SW-846 8260B
ICSTB- SW-846 6010B		

NE - Compound was analyzed but not detected.



BLASLAND, BOUCK & LEE, INC.
engineers & scientists