

December 8, 2009

Mr. Amen Omorogbe New York State Department of Environmental Conservation MGP Remedial Section, Division of Environmental Remediation Bureau of Western Remedial Action, 11<sup>th</sup> Floor 625 Broadway Albany, New York 12233-7017

> Re: Bay Shore/Brightwaters Former MGP Site Surface Water Sampling Results

# Dear Mr. Omorogbe:

We are providing this letter to summarize the results of the surface water sampling that was conducted in September 2008. The surface water sampling program was implemented as a result of discussions between National Grid, the New York State Department of Environmental Conservation (NYSDEC) and the Suffolk County Department of Health Services (SCDHS).

# Surface Water Sampling Activities

The September 2008 surface water sampling activities were conducted in accordance with the NYSDEC-approved Work Plan dated, August 15, 2008, with subsequent NYSDEC-approved modified sampling locations. The Work Plan included the collection of surface water samples from eight locations in five surface water bodies including Lawrence Creek, Lawrence Lake, O-Co-Nee Pond (a.k.a., O-Co-Nee Lake), the Unnamed Pond (headwaters of O-Co-Nee Pond), and Watchogue Creek/Crum's Brook located in Bay Shore and Brightwaters, New York. The locations of these surface water bodies in relation to the Bay Shore/Brightwaters former MGP site and its designated site operable units (OU-1, OU-2, OU-3 and OU-4) are depicted on Figure 1.

On behalf of National Grid, GEI Consultants, Inc. (GEI) collected the surface water samples on September 5 and September 25, 2008 from six of the eight locations identified in the Work Plan. The surface water bodies, sample locations and sample designations are shown on Figure 2. Insufficient depth of water at locations BBSW-15 and BBSW-16 in Watchogue Creek/Crum's Brook prevented sample collection at these locations. Samples LCSW-02 and LCSW-05 were obtained from Lawrence Creek, a tidally influenced saline water body. The samples were collected in accordance with the Work Plan at two depths (1 foot off the bottom and 3 inches from the surface and designated PW and SW, respectively) at three of the six locations including LCSW-02, LCSW-05 and BBSW-07. At the remaining three locations, the samples were only collected from one interval (approximately 3 inches below the water surface) due to depth restrictions (i.e., depth to bottom was less than 6 inches).

#### Field Parameter Measurements

Field parameter measurements were collected as part of the September 2008 surface water sampling process and included conductivity, dissolved oxygen, oxygen release potential, pH, salinity, temperature and turbidity. Sampling activities and related information are documented on the sample collection form which is included as Attachment A. A review of the recorded parameters on the sampling form, specifically conductivity and salinity, illustrates the distinct difference in water quality between Lawrence Creek, a saline water body, and the fresh water locations sampled. The measurements for each of these parameters between these surface water bodies differed between one and two orders-of-magnitude.

#### **Laboratory Analysis**

The laboratory analyses for all nine samples included volatile organic compounds (VOCs) via United States Environmental Protection Agency (USEPA) Method 8260 and semi-volatile organic compounds (SVOCs) via USEPA Method 8270. Additional analysis for these samples included chloride, sulfate, ammonia (not distilled), nitrite, nitrate and ortho-phosphate. Samples were submitted to H2M Labs, Inc., a New York State Environmental Laboratory Approval Program (ELAP)-certified laboratory.

# **Dissolved Oxygen Profiling**

In addition to the collection of surface water samples for water quality purposes, dissolved oxygen profiling was conducted at locations within five tidal/saline water bodies, including Lawrence Creek and those with similar hydrologic and geographic conditions/characteristics, in order to preliminarily evaluate any potential that oxygen injection being used to remediate the OU-2 groundwater plume could be impacting Lawrence Creek. The nearest oxygen injection system, installed as part of the remedy for the Bay Shore/Brightwaters former MGP site, is located in the vicinity of the intersection of Manatuck Lane and Garner Lane a few hundred feet upgradient of Lawrence Creek. The water bodies at which dissolved oxygen profiling was conducted included Lawrence Creek and the following saline surface waters closest to Lawrence Creek with similar hydrologic and geographic conditions/characteristics: Brightwaters Canal, Orowoc Creek, Penataquit Creek, and Watchogue Creek (see Figure 1). The dissolved oxygen levels were measured using a Horiba (Model U-22) at approximate 2-foot horizons from near the water surface downward through the water column at each water body.

#### **Summary of Results**

The validated analytical results from the September 2008 surface water sampling event are summarized in Table 1. The laboratory report Form 1s are provided in Attachment B. The analytical results for the fresh water bodies (Lawrence Lake, O-Co-Nee.Pond, the Unnamed Pond, and Watchogue Creek/Crum's Brook) were compared to the New York State Ambient Water Quality Standards (6NYCRR § 703) and Guidance Values (Division of Water Technical and Operational Guidance Series 1.1.1) for fresh water Classes A, A-S, AA and AA-S – Source

of Drinking Water (surface water). These standards and guidance values provide the most stringent level of comparison (for the contaminants of concern) for the greatest level of protection of public health. The analytical results for Lawrence Creek, a saline water body, were compared to standards and guidance values for its saline surface water body classification, Class SC, as designated in Western Suffolk County Waters (6NYCRR § 925).

There were no detections above the standards or guidance values for VOCs or SVOCs for any of the surface water samples collected (see Table 1). Detections of VOCs below standards or guidance values were found in only two of the nine samples collected, in samples obtained from Lawrence Creek and Watchogue Creek/Crum's Brook.

VOC detections in the sample from Watchogue Creek/Crum's Brook (BBSW-17) were limited to 1 microgram per liter ( $\mu$ g/L) and 2  $\mu$ g/L of cis-1,2-dichloroethane and MTBE, respectively, both of which are not MGP-related compounds.

In Lawrence Creek, naphthalene was detected in the VOC analysis of sample LCSW-02-PW at a concentration of 10  $\mu$ g/L; however, naphthalene was not detected in the SVOC analysis for this sample.

The only SVOC detections were for two compounds at estimated concentrations below detection levels, and standards and guidance values. These detections were identified in three samples and included bis(2-ethylhexyl)phthalate at 1  $\mu$ g/L in the Unnamed Pond and O-Co-Nee Pond, and 4-nitroaniline at 5  $\mu$ g/L in Watchogue Creek/Crum's Brook.

For the remaining sample analytes (chloride, ammonia, nitrate, nitrite, sulfate and orthophosphate), there were no detections above the respective fresh or saline surface water standards or guidance values.

The results of the dissolved oxygen profiling, conducted during the September 2008 surface water sampling event, are presented in Table 2. These profiles indicated that low and high tidal measurements of the dissolved oxygen in Lawrence Creek were below or within the range of dissolved oxygen concentrations measured in nearby Brightwaters Canal, Orowoc Creek, Penataquit Creek, and Watchogue Creek. Therefore, based on the data, it is concluded that the operation of the oxygen injection system upgradient of Lawrence Creek is not having any affect on oxygen levels in Lawrence Creek.

#### Comparison to Historical Data

On behalf of National Grid, GEI conducted an extensive file review of the historical (pre-2006, as well as two sampling events in 2006) surface water quality data made available by SCDHS for the surface water bodies located within the vicinity of the site. These surface water bodies included O-Co-Nee Pond, the Unnamed Pond, Lawrence Lake, Penataquit Creek, and Watchogue Creek/Crum's Brook (see Figure 1).

The historical data reviewed included records from as early as the 1960s. The data also included information gathered during the Flow Augmentation Needs Studies (FANS) conducted in the late 1970s, as well as other historical data gathered by SCDHS. The data reviewed for each of the water bodies listed above included: 20 sampling dates between April 1978 and August of 1979, and seven sampling dates between May 1990 and November 2006 for the Unnamed Pond, O-Co-Nee Pond and Lawrence Lake; 34 sampling dates between May 1966 and September 1980, and another 34 sampling dates between May 1990 and December 2004 for Penataquit Creek; and 13 sampling dates between September 1976 and April 1979, and five sampling dates between August 1997 and May 2005 for Watchogue Creek/Crum's Brook.

Detailed documentation of the sampling methodologies utilized and specific sample collection information was not available for review. Therefore, comprehensive statistical comparisons of some of these historic data in relation to the data collected by GEI as part of the September 2008 surface water sampling program (conducted in accordance with the NYSDEC-approved Work Plan), could not be appropriately made. For example, dissolved oxygen methodologies and time of sample collection relative to temperature and tidal stage were unknown for historic data.

There were no exceedances of surface water standards and guidance values for VOCs, SVOCs or the other targeted analytes in the September 2008 surface water sampling program. The focus of the review presented below is concentrated on the principal compounds of concern at the Bay Shore/Brightwaters former MGP site. These compounds include VOCs (specifically, benzene, toluene, ethylbenzene and xylenes [BTEX], and naphthalene), and SVOCs (specifically, polycyclic aromatic hydrocarbons [PAHs]). Historical dissolved oxygen levels were also reviewed. The findings of this review are summarized below.

#### **VOCs**

The historic data indicates that there were no detections of BTEX reported in samples collected from either Penataquit Creek or Watchogue Creek/Crum's Brook. BTEX has sporadically been detected in Lawrence Lake with a maximum detection of  $15~\mu g/L$  of total xylenes in a sample collected in 1990. The data from the only two sampling events for VOCs at O-Co-Nee Pond (2005 and 2006) indicated minor detections for BTEX (<5  $\mu g/L$ ).

Detections of naphthalene were limited to O-Co-Nee Pond (1  $\mu$ g/L in May 2000) and Watchogue Creek/Crum's Brook (0.6  $\mu$ g/L in May 2005). Naphthalene analysis was only conducted a limited number of times for each of the three water bodies (excluding O-Co-Nee Pond) beginning in 1997.

An additional non-MGP compound of note reported in the historic surface water data is methyl tert-butyl ether (MTBE), a gasoline additive. MTBE, analyzed for in six sampling events since 1997, has been consistently detected in Watchogue Creek/Crum's Brook with a maximum detection of 26  $\mu$ g/L in May 2005. Minor detections (< 2  $\mu$ g/L) of MTBE have also been recorded in O-Co-Nee Pond, although there was only limited data available (two sampling events).

#### **SVOCs**

No detections of PAHs or naphthalene were reported in Lawrence Lake during the two sampling events (2000 and 2005) in which samples were analyzed for SVOCs. Two sampling events were conducted at Penataguit Creek (1998 and 2001); however, the only SVOC analyzed was benzo(a)pyrene and it was not detected. No other detections were reported.

SVOC analysis was performed on samples collected during two sampling events at O-Co-Nee Pond (May 2005 and December 2006). Several PAHs were detected at low levels including naphthalene (< 0.7 μg/L) and chrysene, fluoranthene, phenanthrene, pyrene and acenaphthene (all below 1 µg/L). SVOCs were analyzed in only one sampling event at Watchogue Creek/Crum's Brook (May 2005). Several PAHs were detected at low levels including naphthalene (0.6 µg/L) and acenaphthene, fluorene, fluoranthene, phenanthrene, 1methylnaphthalene and 2-methylnaphthalene (all below 1 μg/L).

#### Dissolved Oxygen

Dissolved oxygen levels for Lawrence Lake, O-Co-Nee Pond, Penataquit Creek and Watchogue Creek/Crum's Brook were reviewed. Minimum, maximum and average levels of dissolved oxygen readings were calculated for the database.

Dissolved oxygen levels in Lawrence Lake were recorded 14 times from May 1978 to May 1979 at SCDHS station number 527-05 (Station 14-10 in the FANS) and seven times at the same station between August 1997 and April 2005. The minimum, maximum and average levels for the May 1978 to May 1979 and August 1997 to April 2005 periods, respectively, are as follows: minimum levels of 7.1 and 5.2 mg/L; maximum levels of 12.8 and 15 mg/L; and average levels of 9.8 and 8.7 mg/L.

Dissolved oxygen levels in O-Co-Nee Pond were recorded 34 times from April 1978 to November 1978 at three stations and one time at three stations in May 2005. It could not be confirmed if the stations used during the FANS corresponded to the stations used during the 2005 event. The minimum, maximum and average levels for April 1978 to November 1979 are as follows: minimum level of 6.0 mg/L; maximum level of 12.0; and average level of 8.2 mg/L. Dissolved oxygen levels of 8.0 mg/L, 8.6 mg/L and 12.8 mg/L were recorded at the three stations in May 2005.

Dissolved oxygen levels in Penataquit Creek were recorded three times from August 1978 to November 1978 at SCDHS station number 535-15 (Station 16-11 in the FANS) and 24 times at the same station between March 1998 and December 2004. The minimum, maximum and average levels for the August 1978 to November 1978 and March 1998 to December 2004 periods, respectively, are as follows: minimum levels of 6.4 and 3 mg/L; maximum levels of 6.8 and 10.5 mg/L; and average levels of 6.5 and 7.4 mg/L.

Dissolved oxygen levels in Watchogue Creek/Crum's Brook were recorded 12 times from April 1978 to April 1979 at SCDHS station number 530-5 (Station 15-2 in the FANS) and six times at the same station between August 1997 and May 2005. The minimum, maximum and average levels for the April 1978 to April 1979 and August 1997 to May 2005 periods, respectively, are as follows: minimum levels of 2.1 and 1.2 mg/L; maximum levels of 7.0 and 9.4 mg/L; and average levels of 4.5 and 5.2 mg/L.

#### Conclusions

The lack of detections of MGP-related constituents (those present in the OU-2 and OU-3 groundwater plumes) in the surface water samples and the lack of detections of these compounds above the New York State Ambient Water Quality Standards and Guidance Values for surface waters provides evidence supporting that the surface water bodies involved in this study have not been adversely impacted by the groundwater plumes.

Dissolved oxygen levels in Lawrence Creek are not being affected by operation of the nearby oxygen injection system. Low and high tidal measurements of dissolved oxygen levels in Lawrence Creek collected during the September 2008 surface water sampling program were below or within the range of dissolved oxygen concentrations measured in nearby similar water bodies including Brightwaters Canal, Watchogue Creek, Penataquit Creek, and Orowoc Creek.

If you have any questions, feel free to contact me at (516) 545-2586.

Sincerely,

William J. Ryan Project Manager

Enclosure

cc:

S. Karpinski (NYSDOH)

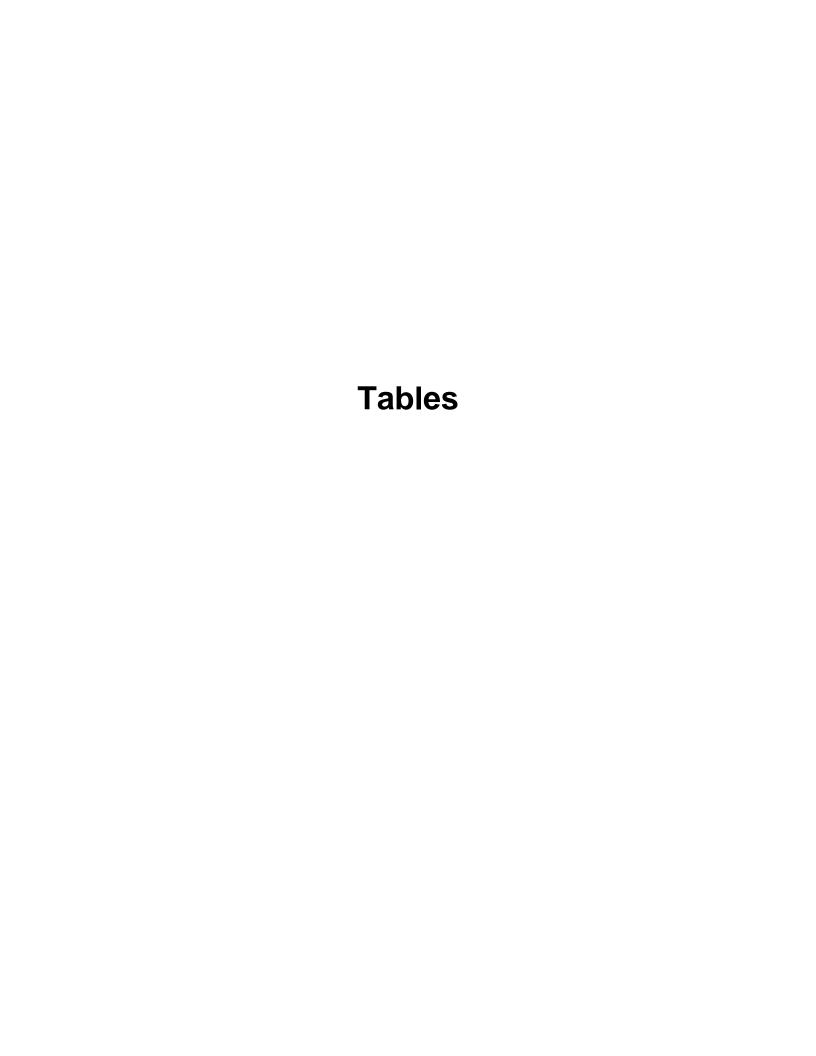
R. Paulsen (SCDHS)

A. Juchatz (SCDEE)

T. Leissing (National Grid)

J. Christman (National Grid)

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# Table 1 Analytical Results Surface Water Quality Data Bay Shore, New York

		Fresh Water Bodies					
		Lawrence Lake		Lawrence Lake Unnamed Pond Creek/ Cr		Watchogue Creek/ Crum's O-Co-Nee Pond Brook	
Sample Name: Sample Date:	NYS AWQS (1)	BBSW-07-PW 9/5/2008	BBSW-07-SW 9/5/2008	BBSW-12 9/25/2008	BBSW-17 9/5/2008	BBSW-18 9/25/2008	Duplicate of: BBSW-18 9/25/2008
VOCs (μg/L)							
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	1 J	10 U	10 U
Methyl tert-butyl ether (MTBE)	NE	10 U	10 U	10 U	2 J	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U
Total VOCs	NE	ND	ND	ND	3	ND	ND
SVOCs (µg/L)							
Bis(2-ethylhexyl)phthalate	5	10 U	10 U	1 J	10 U	1 J	10 U
Nitroaniline, 4-	5*	25 U	25 U	25 U	5 J	25 U	25 U
Total SVOCs	NE	ND	ND	1	5	1	ND
Other (mg/L)							
Chloride	250	44.5	44.4	39.3	62.8	41.7	42
Nitrogen, Ammonia	NE	0.11	0.1 U	0.1	0.3	0.16	0.14
Nitrogen, Nitrate	10		0.1 U	0.69	0.1	0.31	0.31
Sulfate	250	23.7	23.7	20.4	12.8	18.7	18.8

		Lawrence Creek (Saline Water Body)				
				Duplicate of:		
Sample Name:		LCSW-02-PW	LCSW-02-SW	LCSW-02-SW	LCSW-05-PW	LCSW-05-SW
Sample Date:	NYS AWQS (2)	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008
VOCs (μg/L)						
Dichloroethene, cis-1,2-	NE	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether (MTBE)	NE	10 U	10 U	10 U	10 U	10 U
Naphthalene	16	10	10 U	10 U	10 U	10 U
Total VOCs	NE	10	ND	ND	ND	ND
SVOCs (µg/L)						
Bis(2-ethylhexyl)phthalate	NE	10 U	10 U	10 U	10 U	10 U
Nitroaniline, 4-	NE	25 U	25 U	25 U	25 U	25 U
Total SVOCs	NE	ND	ND	ND	ND	ND
Other (mg/L)						
Chloride	NE	16,600	13,600	9,940	17,500	13,900
Nitrogen, Ammonia	NE	0.45	0.58	0.57	0.49	0.28
Nitrogen, Nitrate	NE	0.1 U	0.11	0.1 U	0.12	0.11
Sulfate	NE	2,160	1,720	1,490	2,270	1,790

#### Notes:

ug/L - micrograms per liter or parts per billion (ppb)

VOCs - volatile organic compounds

SVOCs - semivolatile organic compounds

Total VOCs, and Total SVOCs are calculated using detects only

- (1) NYS AWQS New York State Ambient Water Quality Standards and Guidance Values for fresh water classes A,A-S,AA,AA-S surface water
- (2) NYS AWQS New York State Ambient Water Quality Standards and Guidance Values for saline water class SC surface water
- \* indicates the value is a guidance value and not a standard

NE- not established

ND - not detected; total concentration is listed as ND because no compounds were detected in the group

Only compounds with detections listed on table Bolding indicates a detected result value

#### Validation Qualifiers:

- U indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis
- J estimated value below detection level



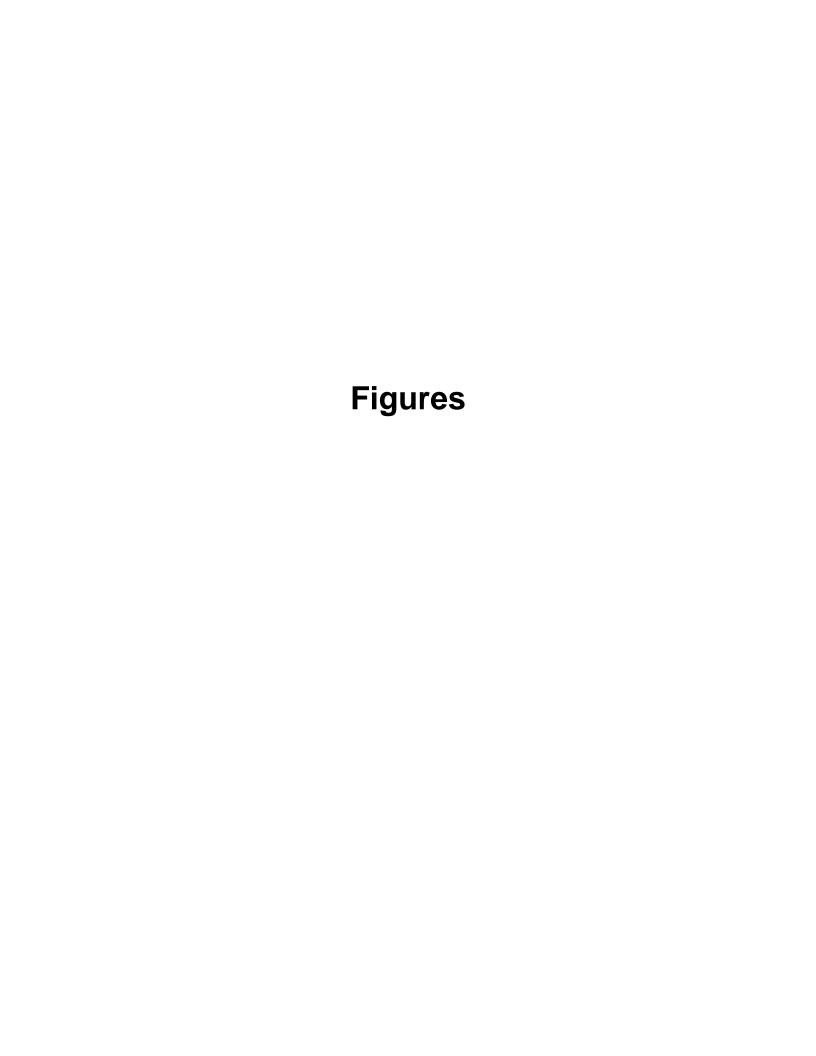
Table 2
Dissolved Oxygen Profiles at Lawrence Creek and
Nearby Saline Water Bodies at High and Low Tides
Bay Shore, New York

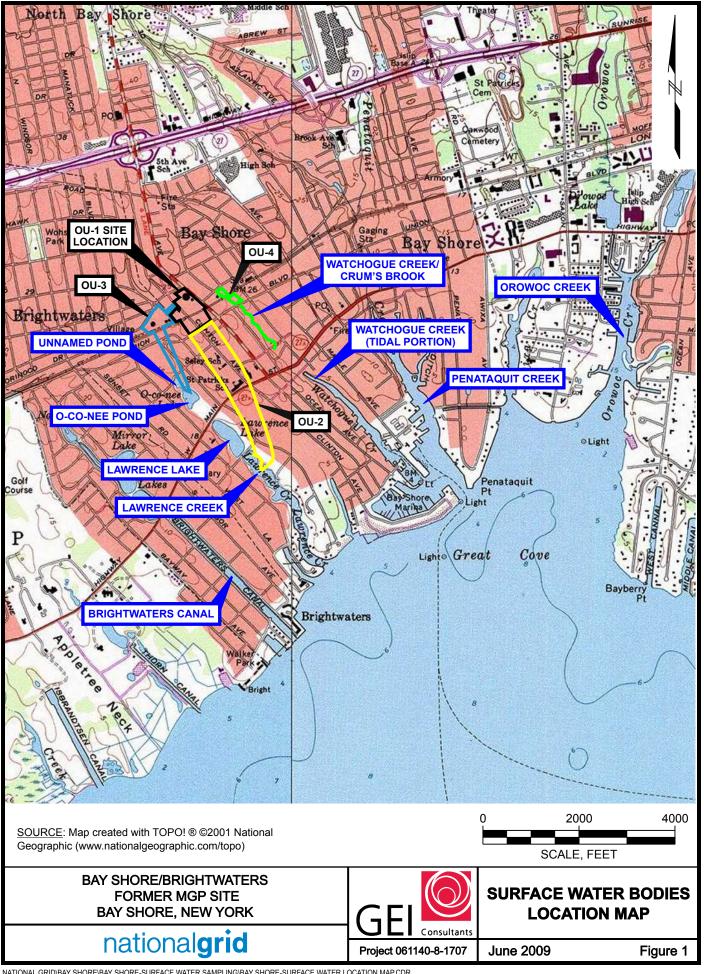
		Low Tide		High Tide			
Sample Location	Depth of Sample <sup>(1)</sup> (ft)	DO (mg/L)	Total Depth <sup>(2)</sup> (ft)	Depth of Sample (ft)	DO (mg/L)	Total Depth <sup>(2)</sup> (ft)	
	0.25	8.64		-	-		
Lawrence Creek	2	3.91		02	10.32		
(at LCSW-05)	4	3.68	10.1	4	5.89	11.5	
(at LC3VV-05)	6	4.03		6	3.65		
	8	5.57		8	3.96		
Lawrence Creek (south of LCSW-05)	1.5	7.26	1.8	1.5	14.82	2.5	
Lawrence Creek	0.25	5.75	3.8	1	12.14	1 F	
(at LCSW-02)		4.38	3.0	3	5.7	4.5	
Brightwaters Canal -1	1	5.96	2.2	1	6.41	2.8	
	1.5	5.47		1.5	7.19	6	
Brightwaters Canal -2	3.5	5.29	5.3	3.5	5.85		
	-	-		5.5	5.82		
Brightwaters Canal -3	1	6.31	4		6.71	4.8	
	3	5.32	7	3	6.17		
Lawrence Creek (Manatuck Lane Spillway)	1	7.22	1.5	1	8.26	2	
Watahagua Craok 1	1.5	4.87	3.2	1	5.54	4	
Watchogue Creek-1	-	-	3.2	3	5.57		
Watchogue Creek-2	0.5	9.32	3.8	1	4.53	4.5	
Watchogue Creek-2	2	4.77	3.0	3	5.25	4.5	
Watchogue Creek-3	0.5	5.82	3.5	1	5.18	4.1	
Waterlogue Creek-3	2	4.52	5.5	3	5.08	4.1	
	1	7.97		2	9.96		
Panataquit Creek-1	3	5.56	5.9	4	8.8	6.8	
	5	5.51		6	8.71		
Penataquit Creek-2	1	6.44	3.8	1.5	8.03	4.6	
1 Chataquit Orccit-2	3	4.54	0.0	3.5	9	7.0	
Orowoc Creek	1	7.94	1.5	1.5	7.58	2.2	

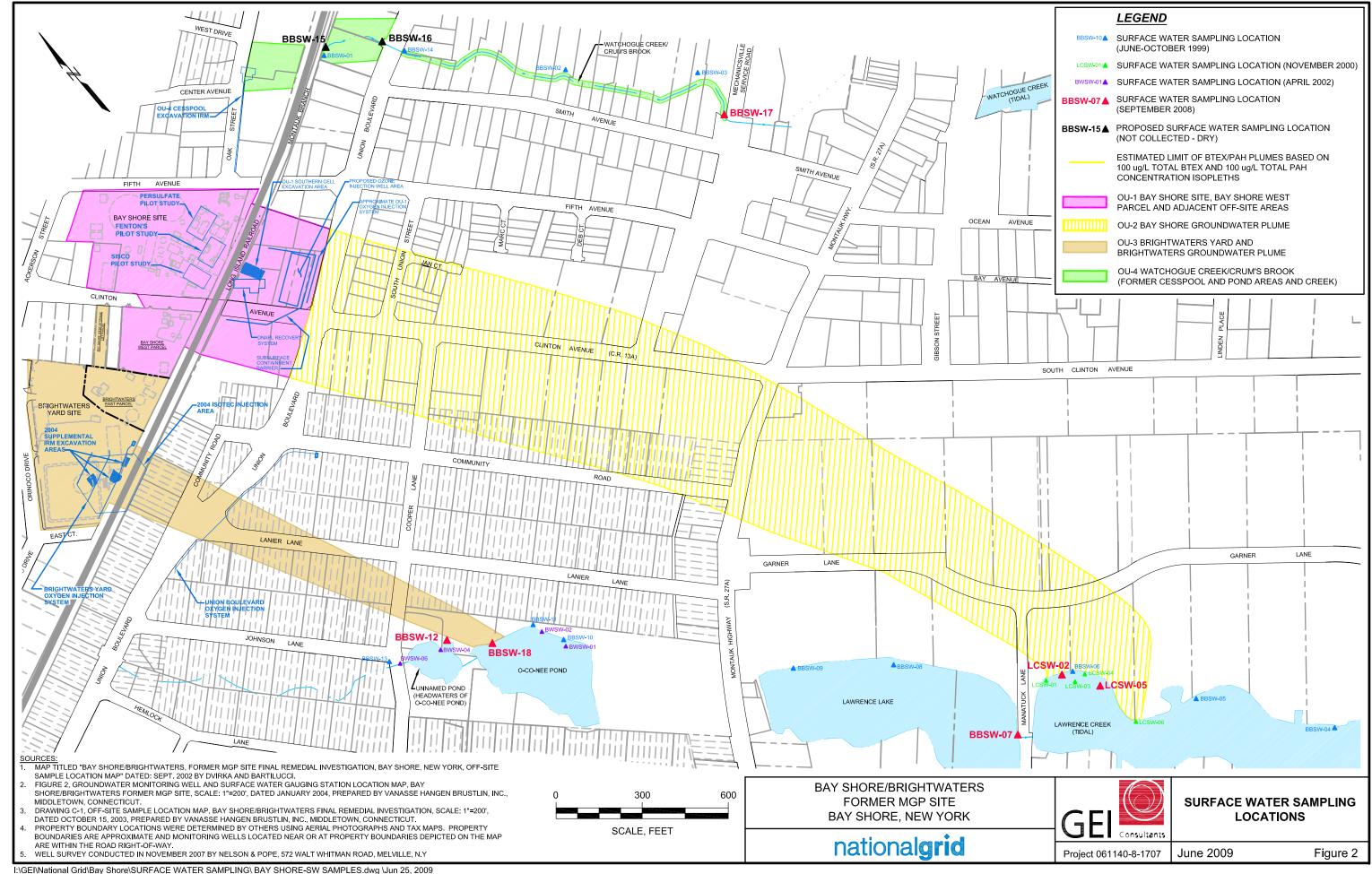
<sup>(1)</sup> Depth of sample below water surface

<sup>(2)</sup> Total depth of water column at sampling point from water surface to bottom











# ATTACHMENT A Surface Water Sample Data Form

**Project:** Bay Shore/Brighwaters Former MGP Site

Sampling Crew: Chris Morris/ Bryan Paraspolo Sampling Method: Low flow

Purging Method: Peristaltic Pump Sample Analysis: VOCs,SVOCs, chloride, sulfate, ammonia (not distilled)

nitrate, nitrite, ortho-phosphate

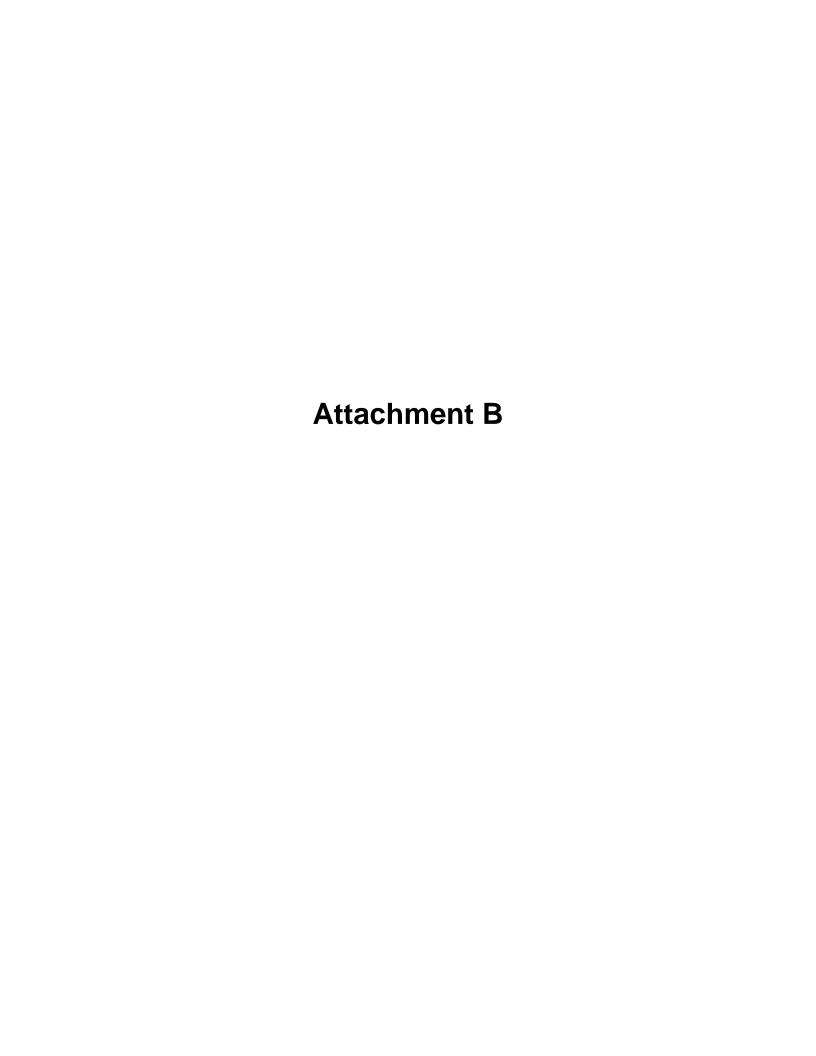
	Purge Data													
Sample ID	Sample	Volume Purged	Purge	Time	рН	Conductivity	Turbidity	Dissolved Oxygen	Temperature	Salinity	ORP	Secchi Dis	c Depth (ft.)	Total Depth
	Time	(gallons)	Start	Finish	(Std. Units)	(mS/cm)	(NTU)	(mg/l)	(Cel.)	(%)	(mV)	Up	Down	(ft.)
LCSW-05 PW	0720	1	0702	0718	7.20	48.2	8.0	5.57	23.01	3.2	-84	3.0	3.1	10.1
LCSW-05 SW	0740	1	0725	0738	8.29	38.8	0.0	8.64	23.19	2.5	38	3.0	5.1	10.1
LCSW-02 PW	0815	1	0807	0813	7.64	48.1	0.0	4.38	23.44	3.2	-51	2.9	3.0	3.8
LCSW-02 SW	0840	1	0828	0838	7.47	44.6	23.4	5.75	23.22	2.9	14	2.9	3.0	0.0
BBSW-07 PW	1130	1	1119	1128	7.79	0.390	20.8	7.69	26.24	0.0	78	1.3	1.3	2.3
BBSW-07 SW	1200	1	1150	1158	7.46	0.183	16.6	7.76	27.95	0.0	61	1.0	1.0	2.0
BBSW-17	1255	1	1241	1252	7.25	0.281	0.0	6.37	23.86	0.0	-5	NM	NM	0.55
BBSW-12	1530	1	1520	1528	6.40	0.539	0.0	9.68	19.60	0.02	3	NM	NM	0.33
BBSW-18	1540	1	1535	1539	6.64	0.506	5.0	12.08	19.50	0.02	26	NM	NM	0.33

Notes:

Samples collected on 9/5/08 excluding BBSW-12 & BBSW-18, which were collected on 9/25/08.

NM: Not measured since water body was too shallow.





Site: Bay Shore Surface Water Sampling Laboratory: H2M Laboratories, Melville, NY

**Report No.:** GEI171 - 0810543

**Reviewer:** Lorie MacKinnon/GEI Consultants

Date: October 9, 2008

# Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
BBSW-07-PW	0810543-01	VOC, SVOC
BBSW-07-SW	0810543-02	VOC, SVOC
BBSW-17	0810543-03	VOC, SVOC
Blind Dup-01	0810543-04	VOC, SVOC
Field blank	0810543-05	VOC, SVOC
LCSW-02-PW	0810543-06	VOC, SVOC
LCSW-02-SW	0810543-07	VOC, SVOC
LCSW-05-PW	0810543-08	VOC, SVOC
LCSW-05-SW	0810543-09	VOC, SVOC
TB 090508	0810543-10	VOC

Associated QC Samples(s): Field/Trip Blank: Field blank, TB 090508

Field Duplicate pair: LCSW-02-SW/Blind Dup-01

The above-listed surface water samples, field blank, and trip blank sample were collected on September 5, 2008 and were analyzed for volatile organic compounds (VOCs) by SW-846 method 8260B and semivolatile organic compounds (SVOCs) by SW-846 method 8270C. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999) and the *USEPA Region II Functional Guidelines for Evaluating Organic Analyses* (March 2001), modified as necessary to accommodate the non-CLP methodology used.

The organic data were evaluated based on the following parameters:

- \* Data Completeness
  - Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
  - Initial and Continuing Calibrations
  - Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
  - Laboratory Control Sample (LCS) Results
- Internal Standards
- \* Field Duplicate Results

Laboratory Job GEI171, Organics, Page 1 of 6

- \* Tentatively Identified Compounds
  - Quantitation Limits and Data Assessment
- \* Sample Quantitation and Compound Identification
- \* All criteria were met.

All results are usable for project objectives with the exception of 2-propanol, 1,4-dioxane, and ethanol in all samples, which were rejected due to low response factors (RFs).

Qualifications were not applied to the data as a result of sampling error. Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select VOC and SVOC results which were below the lowest calibration standard. These results were qualified as estimated (J). These results can be used for project objectives as estimated values which may have a minor impact on the data usability.
- The positive result for acetone in sample LCSW-02-PW was qualified as nondetect (U) at the quantitation limit due to laboratory blank contamination. The result can be used for project objectives as a nondetect which may have a minor impact on the data usability.
- The positive and nondetect results for chloromethane, allyl chloride, acetone, 2,2,4-trimethylpentane, and hexachlorobutadiene in all samples were qualified as estimated (J/UJ) due to continuing calibration nonconformances. The direction of the bias cannot be determined from these nonconformances. The results can be used for project objectives as estimated values and nondetects with estimated quantitation limits which may have a minor impact on the data usability.
- The nondetect results for 2-propanol, 1,4-dioxane, and ethanol in all samples were rejected (R) due to low initial and continuing calibration RFs. The results are not usable for project objectives which may have a major impact on the data usability.
- The nondetect results for benzo(k)fluoranthene in all samples were qualified as estimated (UJ) due to low LCS recovery. The results may be biased low. The results can be used for project objectives as nondetects with estimated quantitation limits which may have a minor impact on the data usability.

The validation findings were based on the following information.

#### **Data Completeness**

The data package was complete as defined under the requirements for the NYSDEC ASP category B deliverables for the VOC and SVOC analyses.

### **Holding Times and Sample Preservation**

All holding time and sample preservation criteria were met in the VOC and SVOC analyses.

# **GC/MS Tunes**

All criteria were met in the VOC and SVOC analyses.

# **Initial and Continuing Calibrations**

#### VOC

Compounds that did not meet criteria in the VOC calibrations are summarized in the following tables.

Instrument ID HP5973-1 Compound	IC 08/07/08	CC 09/08/08 17:06
2-propanol	+ (0.033)	+ (0.026)
1,4-dioxane	+(0.004)	+ (0.003), XX (30.5%)
Ethanol	+ (0.006)	+ (0.005)
Chloromethane		XX (30.3%)
Allyl chloride		XX (28.1%)
Acetone		XX (29.9%)
2,2,4-Trimethylpentane		XX (28.5%)
Hexachlorobutadiene		XX (44.4%)
Samples Affected	All samples listed	All samples

X = Initial calibration (IC) relative standard deviation (%RSD) > 30 for GC/MS (VOC and SVOC) and >20 for GC (pesticide/PCBs and herbicides); estimate (J) positive and blank-qualified (UJ) results only.

The nondetect results for 1,4-dioxane, 2-propanol, and ethanol in all samples were rejected (R) due to low response factors in the initial and continuing calibrations.

XX = Continuing calibration (CC) percent difference (%D) > 25; estimate (J/UJ) positive and nondetect results.

XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.

<sup>+=</sup> Response factor (RRF) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

The positive and nondetect results for chloromethane, allyl chloride, acetone, 2,2,4-trimethylpentane, and hexachlorobutadiene in all samples were estimated (J/UJ) due to calibration nonconformances.

#### **SVOC**

Compounds that did not meet criteria in the SVOC calibrations are summarized in the following table.

Instrument ID HP5972 Compound	CC 09/16/08 16:32	
2-Nitroaniline	XX (72.9%)	
Benzo(ghi)perylene	XX (30.0%)	
Samples Affected	QC samples only	

- X = Initial calibration (IC) relative standard deviation (%RSD) > 30 for GC/MS (VOC and SVOC) and >20 for GC (pesticide/PCBs and herbicides); estimate (J) positive and blank-qualified (UJ) results only.
- XX = Continuing calibration (CC) percent difference (%D) > 25; estimate (J/UJ) positive and nondetect results.
- XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.
- += Response factor (RRF) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

Validation actions were not required as QC samples only were affected.

#### **Blanks**

Target compounds were not detected in the VOC and SVOC method blank samples. Target compounds were not detected in the VOC trip blank and field blank sample. Target compounds were detected in the VOC storage blank and SVOC field blank sample. The presence of blank contamination indicates that false positives may exist for this compound in the associated samples. Action Levels (ALs) were established at 10x (for common contaminants) and 5x (for other compounds) the concentrations detected. The following table summarizes the contamination.

Compound	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Acetone	Storage blank	All samples	3 ug/L	30 ug/L
Carbon disulfide	Storage blank	All samples	5 ug/L	15 ug/L
2-Butanone	Storage blank	All samples	3 ug/L	30 ug/L
Bis(2-ethylhexyl)phthalate	Field blank	All samples	1 ug/L	10 ug/L

Sample results were qualified as follows:

Laboratory Job GEI171, Organics, Page 4 of 6

- If sample concentration was < the quantitation limit (QL) and ≤ the Action Level, qualify the result as a nondetect (U) at the QL.
- If sample concentration was > the QL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.
- If the sample concentration was > the QL and > the Action Level, qualification of the data was not required.

The positive result for acetone in sample LCSW-02-PW was qualified as nondetect (U) at the quantitation limit due to laboratory storage blank contamination.

TICs were detected in the method blank samples. Validation actions were not required on this basis.

# Surrogate Recoveries

All recovery criteria were met in the VOC and SVOC analyses.

#### MS/MSD Results

MS/MSD analyses were performed on designated sample BBSW-07-SW for VOC and SVOC. All recovery and RPD criteria were met.

# **Internal Standards**

All recovery criteria were met in the VOC and SVOC analyses.

#### **LCS Results**

#### VOC

All criteria were met in the VOC analyses.

#### **SVOC**

The following table lists the compounds recovered outside of control limits in the LCS analyses and the resulting validation actions.

Compound	Recovery (%)	Control limits	Associated samples	Validation Actions
2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	106 113	11-101 47-107	All samples	Validation action was not required as the affected results were nondetect and therefore not affected by the potential high bias.
Benzo(k)fluoranthene	40	53-159	All samples	Estimate (UJ) the nondetect results for benzo(k)fluoranthene in all samples.

Laboratory Job GEI171, Organics, Page 5 of 6

Compound	Recovery (%)	Control limits	Associated samples	Validation Actions
2,4-Dinitrophenol	104	11-101	QC samples	Validation action was not required on this basis.

# **Field Duplicate Results**

Samples LCSW-02-SW and Blind Dup-1 were submitted as the field duplicate pair with this sample group. All results were nondetect in these samples.

#### **Tentatively Identified Compounds**

All criteria were met.

#### **Quantitation Limits and Data Assessment**

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC and SVOC analyses. These results were qualified as estimated (J) by the laboratory.

# Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted in the VOC and SVOC analyses.

Site:

Bay Shore Surface Water Sampling

Laboratory:

H2M Laboratories, Melville, NY

Report No.:

GEI180 - 0811481

Reviewer:

Lorie MacKinnon/GEI Consultants

Date:

October 15, 2008

### **Samples Reviewed and Evaluation Summary**

FIELD ID	LAB ID	FRACTIONS VALIDATED
Blind Duplicate-2	0811481-01	VOC, SVOC
Field blank-2	0811481-02	VOC, SVOC
BBSW-12	0811481-03	VOC, SVOC
BBSW-18	0811481-04	VOC, SVOC
TB 092508	0811481-05	VOC
Associated QC Samples(s):	Field/Trip Blank:	Field blank, TB 092508

The above-listed surface water samples, field blank, and trip blank sample were collected on September 25, 2008 and were analyzed for volatile organic compounds (VOCs) by SW-846 method 8260B and semivolatile organic compounds (SVOCs) by SW-846 method 8270C. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999) and the *USEPA Region II Functional Guidelines for Evaluating Organic Analyses* (March 2001), modified as necessary to accommodate the non-CLP methodology used.

Field Duplicate pair: BBSW-18/Blind Duplicate-2

The organic data were evaluated based on the following parameters:

- Data Completeness
- \* Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
  - Initial and Continuing Calibrations
  - Blanks
- Surrogate Recoveries
  - Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
  - Laboratory Control Sample (LCS) Results
- Internal Standards
- \* Field Duplicate Results
- \* Tentatively Identified Compounds
  - Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification
- \* All criteria were met.

Laboratory Job GEI180, Organics, Page 1 of 6

All results are usable for project objectives, with the exception of 1,4-dioxane and ethanol in all samples, which were rejected due to low response factors (RFs).

Qualifications were not applied to the data as a result of sampling error. Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select SVOC results which were below the lowest calibration standard. These results were qualified as estimated (J). These results can be used for project objectives as estimated values which may have a minor impact on the data usability.
- The nondetect results for acetone, methyl tert-butyl ether, 2-propanol, hexachlorobutadiene, 2-chloronaphthalene, 2-nitroaniline, and 2,4-dinitrophenol in all samples were qualified as estimated (UJ) due to continuing calibration nonconformances. The direction of the bias cannot be determined from these nonconformances. The results can be used for project objectives as nondetects with estimated quantitation limits which may have a minor impact on the data usability.
- The nondetect results for 1,4-dioxane and ethanol in all samples were rejected (R) due to low initial and continuing calibration RFs. The results are not usable for project objectives which may have a major impact on the data usability.

The validation findings were based on the following information.

#### **Data Completeness**

The data package was complete as defined under the requirements for the NYSDEC ASP category B deliverables for the VOC and SVOC analyses.

#### **Holding Times and Sample Preservation**

All holding time and sample preservation criteria were met in the VOC and SVOC analyses.

# **GC/MS Tunes**

All criteria were met in the VOC and SVOC analyses.

# **Initial and Continuing Calibrations**

#### VOC

Compounds that did not meet criteria in the VOC calibrations are summarized in the following table.

Laboratory Job GEI180, Organics, Page 2 of 6

Instrument ID HP5973-1 Compound	IC 09/30/08	CC 10/01/08 17:23
2-propanol		XX (27.8%)
I,4-dioxane	+ (0.004)	+ (0.003)
Ethanol	+ (0.011)	+ (0.009)
Trans-1,2-dichloroethene	X (33.1%)	
Methyl tert-butyl ether	X (30.3%)	XX (31.5%)
Hexachlorobutadiene	X (36.4%)	XX (33.8%)
Acetone		XX (29.1%)
Samples Affected	All samples	All samples

- X = Initial calibration (IC) relative standard deviation (%RSD) > 30 for GC/MS (VOC and SVOC) and >20 for GC (pesticide/PCBs and herbicides); estimate (J) positive and blank-qualified (UJ) results only.
- XX = Continuing calibration (CC) percent difference (%D) > 25; estimate (J/UJ) positive and nondetect results.
- XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.
- += Response factor (RRF) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

The nondetect results for 1,4-dioxane and ethanol in all samples were rejected (R) due to low response factors in the initial and continuing calibrations.

Validation actions were not required for trans-1,2-dichloroethene, methyl tert-butyl ether, and hexachlorobutadiene due to initial calibration nonconformances as positive results only are affected and these compounds were not detected in the project samples.

The nondetect results for acetone, methyl tert-butyl ether, 2-propanol, and hexachlorobutadiene in all samples were estimated (UJ) due to calibration nonconformances.

# **SVOC**

Compounds that did not meet criteria in the SVOC calibrations are summarized in the following table.

Instrument ID HP5972 Compound	CC 10/02/08 14:48
2-Chloronaphthalene	XX (27.5%)
2-Nitroaniline	XX (78.8%)

Instrument ID HP5972 Compound	CC 10/02/08 14:48
2,4-Dinitrophenol	XX (30.2%)
Samples Affected	All samples

- X = Initial calibration (IC) relative standard deviation (%RSD) > 30 for GC/MS (VOC and SVOC) and >20 for GC (pesticide/PCBs and herbicides); estimate (J) positive and blank-qualified (UJ) results only.
- XX = Continuing calibration (CC) percent difference (%D) > 25; estimate (J/UJ) positive and nondetect results.
- XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.
- += Response factor (RRF)  $\leq$  0.05; Estimate (J) positive results and reject (R) nondetect results.

The nondetect results for 2-chloronaphthalene, 2-nitroaniline, and 2,4-dinitrophenol in all samples were qualified as estimated (UJ) due to continuing calibration nonconformances.

#### **Blanks**

#### VOC

Target compounds were not detected in the VOC field and trip blank samples. Methylene chloride was detected in the method blank sample. The presence of blank contamination indicates that false positives may exist for this compound in the associated samples. Action Levels (ALs) were established at 10x (for common contaminants) and 5x (for other compounds) the concentrations detected. The following table summarizes the contamination.

Compound	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Methylene chloride	Method blank	All samples	l ug/L	10 ug/L

Sample results were qualified as follows:

- If sample concentration was < the quantitation limit (QL) and ≤ the Action Level, qualify the result as a nondetect (U) at the QL.
- If sample concentration was > the QL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.
- If the sample concentration was > the QL and > the Action Level, qualification of the data was not required.

Validation actions were not required on this basis as methylene chloride was not detected in the project samples.

#### **SVOC**

Target compounds were not detected in the SVOC method and field blank samples.

Laboratory Job GEI180, Organics, Page 4 of 6

TICs were detected in the method and field blank samples. TICs which were detected in the samples at levels less than ten times those in the associated method and field blanks, were rejected (R).

### **Surrogate Recoveries**

All recovery criteria were met in the VOC and SVOC analyses.

#### MS/MSD Results

#### VOC

MS/MSD analyses were performed on designated sample BBSW-12. All recovery and RPD criteria were met.

#### **SVOC**

MS/MSD analyses were performed on designated sample BBSW-12. The recoveries for 4-nitrophenol (94, 95), 2,4-dinitrotoluene (99, 97), and pentachlorophenol (115, 115) were above the control limits in the MS/MSD. Validation actions were not required on this basis as the affected results were nondetect and therefore not affected by the potential high bias.

# **Internal Standards**

All recovery criteria were met in the VOC and SVOC analyses.

#### **LCS Results**

#### **SVOC**

The following table lists the compounds recovered outside of control limits in the LCS analyses and the resulting validation actions.

Compound	Recovery (%)	Control limits	Associated samples	Validation Actions
2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol 4-Nitrophenol 2,4-Dinitrotoluene	124 117 88 98	11-101 47-107 10-80 24-94	All samples	Validation action was not required as the affected results were nondetect and therefore not affected by the potential high bias.
Pentachlorophenol	108	9-103		

#### VOC

All criteria were met in the VOC analyses.

# Field Duplicate Results

Samples BBSW-18 and Blind Duplicate-2 were submitted as the field duplicate pair with this sample group. The following table summarizes the RPD of the detected analyte, which was acceptable.

Compound	BBSW-18	Blind Duplicate-2	RPD
	(ug/L)	(ug/L)	(%)
Bis(2-ethylhexyl)phthalate	1	10 U	NC, Within the QL

NC - Not calculable

For aqueous results > 5xQL and RPD > 30; estimate (J) results in the field duplicate pair.

For aqueous results < 5xQL; the sample and duplicate results must be within the QL.

#### **Tentatively Identified Compounds**

All criteria were met.

# **Quantitation Limits and Data Assessment**

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the SVOC analyses. These results were qualified as estimated (J) by the laboratory.

# Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted in the VOC and SVOC analyses.

Site:

Bay Shore Surface Water Sampling H2M Laboratories, Melville, NY

Laboratory: Report No.:

GEI171 - 0801543

Reviewer:

Lorie MacKinnon/GEI Consultants

Date:

October 9, 2008

### Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
BBSW-07-PW	0810543-01	Wet Chemistry
BBSW-07-SW	0810543-02	Wet Chemistry
BBSW-17	0810543-03	Wet Chemistry
Blind Dup-01	0810543-04	Wet Chemistry
Field blank	0810543-05	Wet Chemistry
LCSW-02-PW	0810543-06	Wet Chemistry
LCSW-02-SW	0810543-07	Wet Chemistry
LCSW-05-PW	0810543-08	Wet Chemistry
LCSW-05-SW	0810543-09	Wet Chemistry
Associated QC Samples(s):	Field Blank:	Field blank

Field Duplicate pair: LCSW-02-SW/Blind Dup-01

The above-listed surface water samples and field blank sample were collected on September 5, 2008and were analyzed for wet chemistry parameters which included chloride and sulfate by EPA method 300.0, ammonia by EPA method 350.1, nitrate and nitrite by EPA method 353.2, and orthophosphate by standard method 4500. The data validation was performed in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540/R-04/004 (October 2004) and the USEPA Region 2 Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program, SOP HW-2, Revision 13 (September 2005), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
- **Instrument Calibration**
- Contract Required Quantitation Limit (CRQL) Standard Recoveries
- Blank Analysis Results
- Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results NA •
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Duplicate Results
  - Field Duplicate Results
- Laboratory Control Sample (LCS) Results

- NA Serial Dilution Results
- \* Detection Limits Results
- \* Sample Quantitation Results
- \* All criteria were met for this parameter.

NA - Not applicable to the methods reviewed.

#### Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives.

Qualifications applied to the data as a result of sampling error are discussed below.

• The positive results for chloride in samples LCSW-02SW and Blind Dup-01 were qualified as estimated (J) due to high relative percent difference (RPD) in the evaluation of the field duplicate. The direction of the bias cannot be determined from this nonconformance. These results are usable for project objectives as estimated values which may have a minor effect on the data usability.

Qualifications were not applied to the data as a result of analytical error.

### **Data Completeness**

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

#### **Holding Times and Sample Preservation**

All criteria were met.

#### **Instrument Calibration**

All recovery criteria were met.

#### CRQL Standard Recoveries

All recovery criteria were met.

#### **Blank Results**

Analytes were not detected in the laboratory blank samples and field blank sample.

#### **MS** Results

The laboratory performed the MS analyses on designated sample BBSW-07SW for chloride, nitrate, nitrite, ammonia, orthophosphate, and sulfate. All criteria were met.

#### **Laboratory Duplicate Results**

Laboratory duplicate analyses were performed on designated sample BBSW-07SW for chloride, nitrate, nitrite, ammonia, orthophosphate, and sulfate. All criteria were met.

# Field Duplicate Results

Samples LCSW-02SW and Blind Dup-01 were submitted as the field duplicate pair with this sample group. The following table summarizes the RPDs of the detected analytes, all of which were acceptable with the exception of chloride. The positive results for chloride in samples LCSW-2SW and Blind Dup-01 were estimated (J).

Analyte	LCSW-02SW (mg/L)	Blind Dup-01 (mg/L)	RPD (%)
Chloride	13,600	9940	31.1
Sulfate	1720	1490	14.3
Ammonia	0.58	0.57	0.2
Nitrate	0.11	0.10 U	NC, Within the QL

For aqueous results > 5xQL and RPDs >30; estimate (J) results in the field duplicate pair. For aqueous results < 5xQL; the sample and duplicate results must be within the QL.

#### LCS Results

All criteria were met.

#### **Detection Limits Results**

All criteria were met.

#### Sample Quantitation Results

Calculations were spot-checked; no discrepancies were noted.

Site:

Bay Shore Surface Water Sampling

Laboratory: Report No.:

H2M Laboratories, Melville, NY GEI180 - 08011481

Reviewer:

Lorie MacKinnon/GEI Consultants

Date:

October 15, 2008

# Samples Reviewed and Evaluation Summary

LAB ID	FRACTIONS VALIDATED
0811481-01	Wet Chemistry
0811481-02	Wet Chemistry
0811481-03	Wet Chemistry
0811481-04	Wet Chemistry
Field Blank:	Field blank-2 BBSW-18/Blind Duplicate-2
	0811481-01 0811481-02 0811481-03 0811481-04 Field Blank:

The above-listed surface water samples and field blank sample were collected on September 25, 2008 and were analyzed for wet chemistry parameters which included chloride and sulfate by EPA method 300.0, ammonia by EPA method 350.1, nitrate and nitrite by EPA method 353.2, and orthophosphate by standard method 4500. The data validation was performed in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540/R-04/004 (October 2004) and the USEPA Region 2 Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program, SOP HW-2, Revision 13 (September 2005), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
- **Instrument Calibration**
- Contract Required Quantitation Limit (CRQL) Standard Recoveries
- Blank Analysis Results
- Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results NA •
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- **Laboratory Duplicate Results**
- Field Duplicate Results
- Laboratory Control Sample (LCS) Results
- NA Serial Dilution Results
- **Detection Limits Results**
- Sample Quantitation Results
- All criteria were met for this parameter.

NA – Not applicable to the methods reviewed.

#### Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives.

Qualifications were not applied to the data as a result of sampling error. Qualifications were not applied to the data as a result of analytical error.

# **Data Completeness**

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

#### **Holding Times and Sample Preservation**

All criteria were met.

#### **Instrument Calibration**

All recovery criteria were met.

# **CRQL Standard Recoveries**

All recovery criteria were met.

#### **Blank Results**

Analytes were not detected in the laboratory blank samples and field blank sample.

#### **MS Results**

The laboratory performed the MS analyses on designated sample BBSW-12 for chloride, nitrate, nitrite, ammonia, orthophosphate, and sulfate. All criteria were met.

#### **Laboratory Duplicate Results**

Laboratory duplicate analyses were performed on designated sample BBSW-12 for chloride, nitrate, nitrite, ammonia, orthophosphate, and sulfate. All criteria were met.

#### **Field Duplicate Results**

Samples BBSW-18 and Blind Duplicate-2 were submitted as the field duplicate pair with this sample group. The following table summarizes the RPDs of the detected analytes, all of which were within the acceptance criteria.

Analyte	BBSW-18 (mg/L)	Blind Duplicate-2 (mg/L)	RPD (%)
Chloride	41.7	42.0	0.7
Sulfate	18.7	18.8	0.5
Ammonia	0.16	0.14	1.3
Nitrate	0.31	0.31	0

For aqueous results > 5xQL and RPDs >30; estimate (J) results in the field duplicate pair. For aqueous results < 5xQL; the sample and duplicate results must be within the QL.

# **LCS Results**

All criteria were met.

# **Detection Limits Results**

All criteria were met.

# **Sample Quantitation Results**

Calculations were spot-checked; no discrepancies were noted.

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBSW-12

Lab Name: H2M LABS, INC. Contract:	
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Matrix: (soil/water) WATER Lab Sample ID: 0811481-003A

Sample wt/vol:  $\frac{5}{2}$  (g/mL)  $\frac{ML}{ML}$  Lab File ID:  $\frac{V\F37824.D}{N}$ 

Level: (low/med) LOW Date Received: 09/26/08

% Moisture: not dec. Date Analyzed: 10/01/08

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: ( $\mu$ L) Soil Aliquot Volume ( $\mu$ L)

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
	1,4-Dioxane	-500° K	***
75-71-8		10	υ
74-87-3		10	Ü
75-01-4	Vinyl chloride	10	U
	1,3-Butadiene	10	U
106-99-0	Bromomethane	10	υ
74-83-9	Freon-114	10	υ
76-14-2	Chloroethane	10	U
75-00-3	Trichlorofluoromethane	10	Ū
75-69-4		10	U
75-35-4	1,1-Dichloroethene	10	υ
107-05-1	Allyl Chloride	10	Ü
76-13-1	Freon-113	10	U
108-05-4	Vinyl acetate	10	υJ° Υ
67-64-1	Acetone Carbon disulfide	10	Ü
75-15-0		10	υ
109-99-9	Tetrahydrofuran	10	U
75-09-2	Methylene chloride	10	Ū
156-60-5	trans-1,2-Dichloroethene	10	UJ 1
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	0
67-66-3	Chloroform	10	i ü
71-55-6	1,1,1-Trichloroethane	10	i ü
1.42-82-5	Heptane	10	U
110-82-7	Cyclohexane	10	1 0
540-84-1	2,2,4-Trimethylpentane	10	<del>  0</del> -
56-23-5	Carbon tetrachloride		ינט י
67-63-0	2-Propanol	500	<del></del>
71-43-2	Benzene	10	U
107-06-2		1.0	U
79-01-6		10	U
78-87-5		10	Ü
75-27-4		10	υ
10061-01-5	cis-1,3-Dichloropropene	10	י ט

#### EPA SAMPLE NO.

# VOLATILE ORGANICS ANALYSIS DATA SHEET

BBSW-12	

Lab Name:	H2M LABS,	INC.	Contract:	

Matrix: (soil/water) WATER Lab Sample ID: 0811481-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F37824.D

Level: (low/med) LOW Date Received: 09/26/08

% Moisture: not dec. Date Analyzed: 10/01/08

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: ( $\mu$ L) Soil Aliquot Volume ( $\mu$ L)

#### CONCENTRATION UNITS:

		0110021212		
CAS NO.	COMPOUND	µg/L or µg/Kg) UG/L	Q	
108-10-1	4-Methyl-2-pentanone	10	ט [	
108-88-3	Toluene	10	U '	
75-07-0	Acetaldehyde	10	U	
25168-05-2	Chlorotoluene	10	Ü	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U j	
127-18-4	Tetrachloroethene	10	υ	
591-78-6	2-Hexanone	10	U	
124-48-1	Dibromochloromethane	10	Ü	
106-93-4	1,2-Dibromoethane	10	υ	
108-90-7	Chlorobenzene	10	υ	
100-41-4	Ethylbenzene	10	ט	
630-20-6	1,1,1,2-Tetrachloroethane	10	υ	
110-54-3	Hexane	10	U	
108-38-3/106-42-3	m,p-Xylene .	10	U	
95-47-6	o-Xylene	10	U	
100-42-5	Styrene	10	U	
75-25-2	Bromoform	10	υ	
98-82-8	Isopropylbenzene	10	Ü	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
103-65-1	n-Propylbenzene	10	U	
108-67-8/622-96-8	1,3,5-Trimethylbenzene/P-ethyltoluen	e 10	υ	
95-63-6	1,2,4-Trimethylbenzene	10	U	
541-73-1	1,3-Dichlorobenzene	10	Ü	
64-17-5	Ethanol	-500 R	- <del>1)</del> <b>v</b>	
106-46-7	1,4-Dichlorobenzene	10	U	
91-20-3	Naphthalene	10	U	
95-50-1	1,2-Dichlorobenzene	10	0	
87-68-3	Hexachlorobutadiene	10	UJ <b>V</b>	
	1,2,4-Trichlorobenzene	10	U	
120-82-1	1,2,4-11101010112011			

GEI180 S3

.2 Ward

#### 16

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

*** **	SAMPLE	
BBSV		

Lab Name:	H2M LABS, I	NC.	Contract:						
Lab Code:	10478	Case No.	: KEY-GEI	SAS No.:		SDG No.	: <u>GEI</u>	180	
Matrix: (soil		WATER		3	Lab Sample	ID:	0811481	<u> AE00-</u>	
Sample wt/vol			(g/mL) M	<u>L</u>	Lab File I	D:	<u>V\F3782</u>	<u>4.D</u>	
Level: (low		WC			Date Recei	ved:	09/26/0	<u>8</u>	
% Moisture: n	ot dec.				Date Analy	/zed:	10/01/0	8	
GC Column: D	B-624	ID: <u>0.18</u>	(mm)		Dilution I	Pactor:	1.00		
Soil Extract Volume:			(µ1)	(pl)		Soil Aliquot Volume		<u>0</u>	(hr)
				CONCENTR	ATION UNI	rs:			
Number TICs f	Tound:	0		(µg/L or	μg/Kg)		UG/L		~~;
C	AS NUMBER		COMPOUND NA	ME	RT	EST.CO	NC.	Ď	

GEI180 S40

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				1 220 20
Lab Name: H2M LABS,	INC.	Contract		CONTROL OF THE PARTY OF THE PAR
Lab Code: <u>10478</u>	Case No.: KEY-	GEI SAS	No.:	SDG No.: GEI180
Matrix: (soil/water)	WATER		Lab Sample ID:	0811481-003B
Sample wt/vol:	1000 (g/mL)	ML	Lab File ID:	<u>A\C43004.D</u>
Level: (low/med)	TOM		Date Received:	09/26/08
% Moisture:	Decanted: (Y/N)	<u>N</u> .	Date Extracted:	10/01/08
Concentrated Extract	Volume: <u>1000</u>	(μ <b>L</b> )	Date Analyzed:	10/02/08
Injection Volume:	<u>2</u> (μL)		Dilution Factor:	1.00
GPC Cleanup: (Y/N)	<u>n</u> pH:		Extraction: (Type)	SEPF

### CONCENTRATION UNITS:

		<b>44.1.32.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.</b>	
CAS NO.	COMPOUND	( $\mu$ g/L or $\mu$ g/Kg) <u>UG/L</u>	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	υ
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	ט
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	υ
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	υ
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol/	10	ū
111-91-1	Bis(2-chloroethoxy)methane	10	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	1.0	U
87-68-3	Hexachlorobutadiene	10	Ü
59-50-7	4-Chloro-3-methylphenol	10	ū
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	ט
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	υŢ
88-74-4	2-Nitroaniline	25	υJ
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	Ü
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	25	υJ
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U

GEI180 S4

BBSW-12

Lab Name: H2M LABS, INC. Contract:	
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Lab Code: 10478 Case No.: KEY-GEI SAS No.: SDG No.: GEI180

Lab Sample ID: 0811481-003B Matrix: (soil/water) WATER

Lab File ID: A\C43004.D Sample wt/vol:  $\underline{1000}$  (g/mL)  $\underline{\text{ML}}$ 

Level: (low/med) Date Received: 09/26/08 LOW

Date Extracted: 10/01/08 % Moisture: Decanted: (Y/N) N

Date Analyzed: 10/02/08 Concentrated Extract Volume: 1000 (µL)

Injection Volume:  $\underline{2}$  ( $\mu L$ ) Dilution Factor: 1.00

Extraction: (Type) <u>SEPF</u> GPC Cleanup: (Y/N)  $\underline{N}$  pH:

CONCENTRATION UNITS: 

CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	υ
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	1.0	υ
100-01-6	4-Nitroaniline	25	Ü
534-52-1	4,6-Dinitro-2-methylphenol	25	Ü
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	υ
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	J.
117-84-0	Di-n-octyl phthalate /	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

(1) Cannot be separated from Diphenylamine

Mysolic.
GEII80 S42

### 1G

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.	
0.000141	

Lab Name:	<u>H2M LABS. INC.</u>			Contra					
Lab Code:	<u>10478</u>	Case No.:	KEY-GEI	SAS No.:	<del></del> _	SDG No.:	<u>GEI1</u>	80	
Matrix: (soìl/wa	iter)	WATER			Lab Sample If	): <u>(</u>	<u>)811481-</u>	003B	
Sample wt/vol:		<u>1000</u>	(g/mL)	<u>ML</u>	Lab File ID:	•	A\C43004	<u>.D</u>	
Level: (low/m		WC			Date Receive	d:	09/26/08		
% Moisture:		Decant	ed:(Y/N)	И	Date Extracte	d:	10/01/08		
Concentrated	Extract Volume:		1000	(الإ)	Date Analyze	d:	10/02/08		
Injection Volur	_	(µl)			Dilution Facto	r:	1.00		
GPC Cleanup:	The Party of the Control of the Cont	<u>ч</u> рН:			Extraction: (T	ype)	SEPF		
0, 0 0,					CONCENTRATIO	ON UNITS:			
Number TICs	found: Z				(µg/L or µg/Kg)	<u>UG/L</u>			~**
[	CAS NUMBER		COMPOUNE	NAME	RT	EST.CO		Q	1
1.		(DEL) Alkar	ne: Straight-C	Chain (11.08)	11.08		2		-
2		(DEL) Alkar	ne: Straight-C	Chain (11.98)	11.98		2	J	ρ
£ -,,	000057-10-3	n-Hexadeca	anoic acid		13.09	****			0
4		unknown (1	3.65)		13.65		-3	d-	E. N.
5	,	unknown (1	3.81)		13.81		2	J// <sub>0</sub>	Ò
6	000057-11-4	Octadecand	oic acid		13.96		43 3-	.,	K. R
7		unknown (1	4.48)		14.48		3	J	21.00
8	2.47.	unknown (1	5.52)		15.52		ა	BJM BJM	R
9	. 007683-64-9	Squalene			15.68		0	UJIV	`L.,

OLM04.2

FORM I SV-TIC

## H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747 (631) 694-3040 FAX: (631) 420-8436 NYSDOH (D# 10478

### LABORATORY RESULTS

Lab No. : 0811481-003

Sample Information...
Type: Surface Water

Origin:

GEI Consultants, Inc. 455 Winding Brook Drive Glastonbury, CT 06033 Attn To: Matt O'Neil

Client ID. : BBSW-12

Collected : 9/25/2008 3:30:00 PM Received : 9/26/2008 11:07:00 AM

Collected By CM99
Copies To :Original

CC

Parameter(s)	Results	Qualifier D.F.	<u>Units</u>	Method Number	Analyzed
Chloride	39.3	1	mg/L	E300.0	10/01/2008 9:10 PM
Sulfate	20.4	1	mg/L	E300.0	10/01/2008 9:10 PM
Nitrogen, Ammonia (As N)	0.10	1	mg/L	E350.1	09/29/2008 1:54 PM
Nitrite as N	< 0.10	1	mg/L	E353.2	09/26/2008 5:26 PM
Nitrate as N	0,69	1	mg/L	E353.2	10/02/2008 2:52 PM
Ortho Phosphate	< 0.05	1	mg/L	SM4500-P E	09/27/2008 10:34 AM

Qualifiers:

E - Value above quantitation range

O - Results for Dilution

D.F. = Dilution Factor

Date Reported:

10/6/2008

Joann M. Slavin

Laboratory Manager

B Alosi

EPA SAMPLE NO.

BBSW-17

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: KEY-GEI SAS No.: SDG No.: GEI171

Lab Sample ID: 0810543-003A Matrix: (soil/water) WATER

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F37479.D

Date Received: 09/05/08 Level: (low/med) LOW

Date Analyzed: 09/08/08 % Moisture: not dec.

ID: 0.18 (mm) Dilution Factor: 1.00GC Column: DB-624

( $\mu$ L) Soil Aliquot Volume ( $\mu$ L) Soil Extract Volume:

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
123-91-	1 1,4-Dioxane	500~ €	₩
75-71-		10	U
74-87-		10	บฏ
75-01-		10	U
106-99-		10	บ
74-83-		10	U
76-14-		10	U
75-00-		10	U
75-69-	4 Trichlorofluoromethane	10	U
75-35-		10	Ũ
107-05-		10	ប្បី
76-13-		10	U
108-05-		10	U
67-64-		1.0	υJ
75-15-		10	Ü
109-99-	9 Tetrahydrofuran	10	ט
75-09-	2 Methylene chloride	10	U
156-60-		10	U
1634-04	4 Methyl tert-butyl ether	2	J
75-34-	3 1,1-Dichloroethane	10	U
156-59-	2 cis-1,2-Dichloroethene	1	Ĵ
78-93	3 2-Butanone	10	u
67-66-	3 Chloroform	10	บ
71-55	6 1,1,1-Trichloroethane	10	U
142-82-	5 Heptane	10	U
110-82		10	ן ו
540-84	1 2,2,4-Trimethylpentane	10	U,
56-23		10	บ
67-63		·500→ R	_ <del>U</del>
71-43		10	υ
107-06		10	U
79-01		10	U
78-87		. 10	υ
75-27		10	U
10061-01		1.0	U

OLM04.2

Soil Extract Volume:

EPA SAMPLE N
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BBSW-17

Lab Name:	H2M LABS,	INC.	Con	tract:	***************************************	
Lab Code:	10478	Case No.:	KEY-GEI	SAS No.	*	SDG No.: GEI171
Matrix: (sc	oil/water)	WATER		Lal	b Sample ID:	0810543-003A
Sample wt/v	rol: <u>5</u>	(g/mL	) <u>ML</u>	La	b File ID:	<u>V\F37479.D</u>
Level: (1	.ow/med)	TOM		Dа	te Received:	09/05/08
% Moisture:	not dec.			Da	te Analyzed:	09/08/08
GC Column:	DB-624	ID	: <u>0.18</u> (mm	) Di	lution Factor:	1.00

( $\mu$ L) Soil Aliquot Volume ( $\mu$ L)

### CONCENTRATION UNITS:

CAS NO.	COMPOUND	μg/L or μg/Kg) UG/L	Q
	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
75-07-0	Acetaldehyde	10	U
25168-05-2	Chlorotoluene	10 .	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
110-54-3	Hexane	10	U
108-38-3/106-42-3	m,p-Xylene	10	Ŭ
95-47-6	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	Ü
79-34-5	1,1,2,2-Tetrachloroethane	10	U
103-65-1	n-Propylbenzene	10	Ū
108-67-8/622-96-8	1,3,5-Trimethylbenzene/P-ethyltoluen	e 10	Ū
95-63-6	1,2,4-Trimethylbenzene	10	υ
541-73-1	1,3-Dichlorobenzene	10	บ
64-17-5	Ethanol	-500° R	~ሁ
106-46-7	1,4-Dichlorobenzene	10	U
91-20-3	Naphthalene	10	U
95-50-1	1,2-Dichlorobenzene	10	Ū
87-68-3	Hexachlorobutadiene	10	UJ
120-82-1	1,2,4-Trichlorobenzene	10	U

80/20 GE1171 S39

### 1F

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO.	
BBSV	1-17		
24 12-11-			

Lab Name:	H2M LABS, INC	<u>.</u>		CONCLUC				
Lab Code:	10478	Case No.	: KEA-GEI	SAS No.:		SDG No.	: <u>GEI171</u>	
Matrix: (soil	(/water)	WATER			Lab Sample	ID:	0810543-003A	
Sample wt/vol	l: <u>5</u>		(g/mL)	ML	Lab File I	D: <u>'</u>	V\F37479.D	
Level: (lov	v/med) <u>LOW</u>				Date Recei	ved:	09/05/08	
% Moisture: n	not dec.			•	Date Analy	zed:	09/08/08	
GC Column: [	DB-624	ID: 0.18	(mm)		Dilution F	actor:	1.00	
Soil Extract	Volume:		(µ1)		Soil Aliqu	ot Volume:	<u>0</u>	(μ <b>L</b> )
				CONCENT	RATION UNIT	`S:		
Number TICs	found:	0		(μg/L c	or μg/Kg)	Ü	IG/L	
C	AS NUMBER		COMPOUND	NAME	RT	EST.COM	ic. Q	:

EPA SAMPLE NO.

BBSW-17

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478 Case No.: KEY-GEI SAS No.:

SDG No.: GEI171

Matrix: (soil/water) WATER

0810543-003B A\C42703.D

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

Level: (low/med) LOW

Date Received:

09/05/08

Lab Sample ID:

% Moisture: Decanted: (Y/N) N Date Extracted: 09/09/08

Date Analyzed: 09/12/08

Concentrated Extract Volume: 1000 (µL)

Injection Volume:  $\frac{2}{2}$  ( $\mu$ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N)  $\underline{N}$  pH: \_\_\_\_

Extraction: (Type) SEPF

CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	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
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1.0	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		10	U
105-67-9		10	U
111-91-1		10	U
120-83-2		10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3		10	U
106-47-8		10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6		10	Ü
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4		25	U
91-58-7		10	Ü
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	Ŭ
208-96-8		10	Ŭ
606-20-2		10	U
99-09-2		25	U
83-32-9		10	U
51-28-5		25	U
100-02-7		25	U
132-64-9		10	Ü

EPA SA	WET	r v	10
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BBSW-17

Lab Name: H2M LABS, INC.

Contract:

SDG No.: GEI171

Lab Code: 10478 Case No.: KEY-GEI SAS No.:

Matrix: (soil/water) WATER

0810543-003B Lab Sample ID:

Sample wt/vol:

1000

(g/mL) ML

Lab File ID:

A\C42703.D

Level: (low/med)

LOW

Date Received:

09/05/08

% Moisture:

Decanted: (Y/N) N Date Extracted:

09/09/08

Concentrated Extract Volume:  $1000 \, (\mu L)$  Date Analyzed:

09/12/08

Injection Volume:  $\frac{2}{2}$  ( $\mu$ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_

Extraction: (Type) SEPF

### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	1.0	Ŭ
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	5 !	J
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	1.0	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
and the second s	Pentachlorophenol	25	υ
87-86-5 85-01-8	Phenanthrene	10	U
	Anthracene	10	U
120-12-7	Carbazole	10	U
86-74-8	Di-n-butyl phthalate	10	U
84-74-2	Fluoranthene	10	U
206-44-0		10	U
129-00-0	Pyrene	10	Ŭ
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	υ
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	uј
207-08-9	Benzo(k) fluoranthene	10	U
50-32-8	Benzo(a) pyrene	10	υ
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	1 20	

(1) Cannot be separated from Diphenylamine

Sell S42 GEITTI S42

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

 EPA SAMPLE NO.
BBSW-17

Lab Name:	H2M LABS.	INC.				Contra	ct:						
Lab Code:	10478		Case No.:	KEY-GE	1	SAS No.:	<u></u>	_	SDG No	).:	<u>GEI</u>	<u>171</u>	
Matrix: (soi	I/water)		WATER				Lat	Sample ID:	:	<u>0810</u>	543-	003B	
Sample wt			1000	(g/mL)	ML		Lat	File ID:		<u>A\C4</u>	2703	3.D	
Level: (lo		L(	DW .				Dai	te Received:		09/05	5/08		
% Moisture			Decan	ted:(Y/N)	V	<u>1</u>	Da	te Extracted	:	09/09	9/08		
	ted Extract Volume:			1000	(µl)		Da	te Analyzed:		09/1	<u>2/08</u>		
Injection V	olume:	2	(µl)		•		Dili	ution Factor:		1.00			
,	 nup: (Y/N)	<u>N</u>	 Į pH:				Ext	traction: (Typ	oe)	SEP	E		
	, , ,						CONC	ENTRATION	UNITS:				
Number TI	Cs found:	5					(µg/L d	or µg/Kg)	<u>UG/L</u>				
	CAS NUMBER			COMPOUN	D NAI	ME	1	RT	EST.CC	DNC.		Q	1
i	1. 000106-51-4		p-Benzoqui	none				4.00		·	5	JN 	
<u></u>	2.		unknown					5.74			3	Β'n	
	3.			henol isome		a		5.91			2		
ļ-	4.			benzenamin				11.57			6	Mr	
3			i dimothylnit	rahanzanam	ai ani	omer	1	11.81			V	V Y	

OEM171 S43

# HZM LABS, INC.

575 Bread Hollow Road, Melville NY 11747 (631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID#10478

LABORATORY RESULTS

Lab No. : 0810543-003

Sample Information...
Type: Surface Water

Origin:

GEI Consultants, Inc. 455 Winding Brook Drive Glastonbury, CT 06033 Attn To: Matt O'Neil

Client ID. : BBSW-17

Collected :9/5/2008 12:55:00 PM Received :9/5/2008 3:25:00 PM

Collected By CM99
Copies To :Original

CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number Analyzed
Chloride	62.8		5	mg/L	E300.0 09/11/2008 6:24 PM
Sulfate	12.8		1	mg/L	E300.0 09/12/2008 8:39 PM
Nitrogen, Ammonía (As N)	0.30		1	mg/L	E350.1 09/10/2008 1:37 PM
Nitrite as N	< 0.10		1	mg/L	E353.2 09/06/2008 10:15 AM
Nitrate as N	0.10		1	mg/L	E353.2 09/15/2008 12:19 PM
Ortho Phosphate	< 0.0500	1	1	mg/L	SM4500-P E 09/06/2008 10:02 AM

Qualifiers:

E - Value above quantilation range

D - Results for Dilution

D.F. = Dilution Factor

Date Reported:

9/22/2008

Joann M. Slavin

Laboratory Manager

EPA SAMPLE NO.

BBSW-18

Ĺab	Name:	H2M LABS, INC.	Contract:	-

Lab Code: 10478 Case No.: KEY-GEI SAS No.: SDG No.: GEI180

Lab Sample ID: 0811481-004A Matrix: (soil/water) WATER

Sample wt/vol:  $\underline{5}$  (g/mL)  $\underline{\text{ML}}$  Lab File ID:  $\underline{\text{V}\backslash\text{F37827.D}}$ 

Date Received: 09/26/08 Level: (low/med) LOW

Date Analyzed: 10/02/08 % Moisture: not dec.

ID: 0.18 (mm) Dilution Pactor: 1.00GC Column: DB-624

Soil Aliquot Volume (µL) Soil Extract Volume: (µL)

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Ω	
	2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	- <del>500</del>	₩ 🗸	
	1,4-Dioxane Dichlorodifluoromethane	10	U	
75-71-8		10	υ	
74-87-3	Chloromethane	10	บ	
75-01-4	Vinyl chloride	10	υ	
106-99-0	1,3-Butadiene	10	U	
74-83-9	Bromomethane	10	U	
76-14-2	Freon-114	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	10	U	
75-35-4	1,1-Dichloroethene	10	U	
107-05-1	Allyl Chloride	10	U	
76-13-1	Freon-113	10	U	
108-05-4	Vinyl acetate	10	UJT	/
67-64-1	Acetone	10	- U - U	
75-15-0	Carbon disulfide	· · · · · · · · · · · · · · · · · · ·	0	
109-99-9	Tetrahydrofuran	10	<del></del>	
75-09-2	Methylene chloride	10	- 0	
156-60-5	trans-1,2-Dichloroethene	10	UJU	
1634-04-4	Methyl tert-butyl ether	10		
75-34-3	1,1-Dichloroethane	10	U	
156-59-2	cis-1,2-Dichloroethene	1.0	<u> </u>	
78-93-3	2-Butanone	10	U	
67-66-3	Chloroform	10	U	
71-55-6	1,1,1-Trichloroethane	10	Ü	
142-82-5	Heptane	10	U	
	Cyclohexane	10	U	
110-82-7	2,2,4-Trimethylpentane	10	U	
540-84-1	Carbon tetrachloride	10	U	
56-23-5		500	UJ.	
67-63-0	2-Propanol	10	U	10
71-43-2	Benzene	10	U	4,
107-06-2	1,2-Dichloroethane	10	0	S
79-01-6	Trichloroethene	10	Ü	GEI180 S45
78-87-5	1,2-Dichloropropane		0	2
75-27-4		10	U	同
10061-01-5	cis-1,3-Dichloropropene	10		
	FORM I VOA - 1	OL	M04.2 W	0/20/02 man 08

Soil Extract Volume:

EPA SAMPLE NO.

BBSW-18

Lab Name: H2M LABS,	INC. Cont	ract:	
Lab Code: 10478	Case No.: KEY-GEI S	AS No.:	SDG No.: GEI180
Matrix: (soil/water)	WATER	Lab Sample ID:	0811481-004A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	V\F37827.D
Level: (low/med)	LOW	Date Received:	09/26/08
% Moisture: not dec.		Date Analyzed:	10/02/08
GC Column: DB-624	ID: 0.18 (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(μ <u>τ</u> )	Soil Aliquot Vol	lume (µL)

		Olecontright tor.	
CAS NO.	COMPOUND	pg/L or pg/Kg) <u>UG/L</u>	Q
108-10-1	4-Methyl-2-pentanone	10	υ
108-88-3	Toluene	10	υ
75-07-0	Acetaldehyde	10	υ
25168-05-2	Chlorotoluene 4	10	υ
10061-02-6	trans-1,3-Dichloropropene	10	Ü
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	Ü
106-93-4	1,2-Dibromoethane	10	0
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
110-54-3	Hexane	10	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	υ
98-82-8	Isopropylbenzene	10	υ
79-34-5	1,1,2,2-Tetrachloroethane	10	υ
103-65-1	n-Propylbenzene	10	U
	1,3,5-Trimethylbenzene/P-ethyltoluen	e 10	U
108-67-8/622-96-8 95-63-6	1,2,4-Trimethylbenzene	10	U
	1,3-Dichlorobenzene	10	U
541-73-1	Ethanol	-500- R	~ <del>U</del> *
64-17-5	1,4-Dichlorobenzene	10	U
106-46-7	Naphthalene	10	υ
91-20-3	1,2-Dichlorobenzene	10	U
95-50-1	Hexachlorobutadiene	10	UJ
87-68-3		10	U
120-82-1	1,2,4-Trichlorobenzene		

### 15

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO.	
BBSV	9-18		

Lab Name:	H2M LABS,	INC	<u>:</u>			Contract					
Lab Code:	10478		Case No.	: KEY-GEI	SA	S No.: _		SDG No	o.: <u>GEI</u>	180	
Matrix: (soil			WATER				Lab Sample	ID:	0811481	-004A	
Sample wt/vol				(g/mL)	ML		Lab File 1	D:	V\F3782	7.D	
Level: (low		LOW					Date Recei	lved:	09/26/0	8	
% Moisture:							Date Analy	yzed:	10/02/0	<u>)8</u>	
	DB-624		ID: <u>0.18</u>	(mm)			Dilution	Factor:	1.00		
Soil Extract	Volume:			(pl)			Soil Aliqu	uot Volume	e:	0	(µL)
						CONCENT	RATION UNI	TS:			
Number TICs	found:		0			(µg/L o	r µg/Kg)	·······	UG/L		
	AS NUMBER			COMPOUND	NAME		RT	EST.C	ONC.	Q	

BBSW-18

Lab Name:	H2M LABS, INC.	Contract:	

Lab Code: 16478 Case No.: KEY-GEI SAS No.:

SDG No.: GEI180

Matrix: (soil/water) WATER

Lab Sample ID: 0811481-004B

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

A\C43007.D

Level: (low/med) LOW Date Received: 09/26/08

% Moisture: Decanted: (Y/N) N Date Extracted: 10/01/08

Concentrated Extract Volume: 1000 ( $\mu L$ ) Date Analyzed: 10/02/08

Injection Volume:  $\underline{2}$  ( $\mu$ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_

Extraction: (Type) SEPF

### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	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		10	U
106-46-7		10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1		10	ט
106-44-5	4-Methylphenol	10	υ
621-64-7	N-Nitroso-di-n-propylamine	10	n n
67-72-1		10	U
98-95-3		10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9		10	U
111-91-1		1.0	U
120-83-2		10	Ŭ
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8		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	Ü
88-06-2		10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	บู
88-74-4	2-Nitroaniline	25	ប្ប
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2		25	U
83-32-9		10	Ü
51-28-5		25	បុរុ
100-02-7	The state of the s	25	U
	Dibenzofuran	10	U

GE1180 S48

BBSW-18

Lab	Name:	H2M LABS,	INC.	Contract:	
-----	-------	-----------	------	-----------	--

Lab Code: 10478 Case No.: KEY-GEI SAS No.:

SDG No.: GEI180

Matrix: (soil/water) WATER

Lab Sample ID:

0811481-004B

Sample wt/vol:

Lab File ID:

A\C43007.D

1000

(g/mL) <u>ML</u>

Level: (low/med)

LOW

Date Received:

09/26/08

% Moisture:

Decanted: (Y/N)

N

Date Extracted:

10/01/08

Concentrated Extract Volume: 1000 (µL)

Date Analyzed:

10/02/08

Injection Volume:  $\underline{2}$  ( $\mu L$ )

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N

рн: \_

Extraction: (Type) SEPF

### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	Ü
1.01-55-3	4-Bromophenyl-phenylether	- 10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	ซ
85-01-8	Phenanthrene	10	υ
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	υ
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	Ŭ
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3 - Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	ប
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	J
117-84-0	Di-n-octyl phthalate	1.0	Ü
205-99-2	Benzo(b) fluoranthene	10	υ
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	υ
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	υ
53-70-3	Dibenzo(a,h)anthracene	10	Ų
191-24-2	Benzo(q,h,i)perylene	1.0	Ũ

(1) Cannot be separated from Diphenylamine

### 1G

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
BBSW-18

Lab Nam	e: <u>H2M LABS.</u>	INC.		Conu	act				
Lab Code	: <u>10478</u>	Case N	o.: <u>KEY-G</u>	EI SAS No.:	Made of the Comment	SDG No.:	<u>GEI</u>	<u>180</u>	
Matrix: (s	oil/water)	WATER	<u> </u>	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Lab Sample II	D: <u>081</u>	1481-	<u>004B</u>	
Sample v	vt/vol:	<u>1000</u>	(g/mL)	ML	Lab File ID:	A\C	43007	7 <u>.D</u>	
Level: (I	ow/med)	LOW			Date Receive	d: <u>09/</u>	26/08		
% Moistu	re:	Dec	anted:(Y/N)	N	Date Extracte	d: <u>10/</u>	01/08		
Concentr	ated Extract Volume	:	1000	(µI)	Date Analyze	d: <u>10/</u>	02/08		
Injection	Volume:	(الا) 2			Dilution Facto	r: <u>1.0</u>	Q		
GPC Cle	anup: (Y/N)	<u>N</u> pł	<del>-1</del> :		Extraction: (T	ype) <u>SE</u>	PE		
					CONCENTRATIO	ON UNITS:			
Number 1	TICs found:	<u>5</u>			(μg/L or μg/Kg)	<u>UG/L</u>			
ĺ	CAS NUMBER	?	COMPOU	ND NAME	RT	EST.CONC.		Q	-
	1.	(DEL) A	kane: Branch	ed	9.14		3	J	
İ	2. 000057-10-3	n-Hexad	ecanoic acid		13.09		· Francisco		Ŗ
	3. 000057-11-4	Octadeo	anoic acid		13.96		44-		R
į	4.	unknow	າ (15.52)		15.52		3	J	
	5. 007683-64-9	Squalen	е		15.68		12~	BUN	R
	6	unknowi	າ (17.27)		17.27		2	<u>J</u>	j

Solvalo, destroy GEI180 S50

OLM04.2

## H2M LABS, INC.

575 Broad Hollow Road, Metrille NY 11747 (631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID#10478

LABORATORY RESULTS

Lab No.: 0811481-004

Sample Information... Type: Surface Water

Origin:

GEI Consultants, Inc. 455 Winding Brook Drive Glastonbury, CT 06033 Attn To : Matt O'Neil

Client ID. : BBSW-18

:9/25/2008 3:40:00 PM Collected Received :9/26/2008 11:07:00 AM

Collected By CM99 Copies To :Original

CC

					ويون والمستقدة و
Parameter(s)	<u>Results</u>	Qualifier	<u>D.F.</u>	Units	Method Number Analyzed
Chloride	41.7		1	mg/L	E300.0 10/01/2008 10:32 PM
Sulfate	18.7		1	mg/L	E300.0 10/01/2008 10:32 PM
Nitrogen, Ammonia (As N)	0.16		1	mg/L	E350.1 09/29/2008 1:58 PM
Nitrite as N	< 0.10		1	mg/L	E353.2 09/26/2008 5:29 PM
Nitrate as N	0.31		1	mg/L	E353.2 10/02/2008 2:55 PM
Ortho Phosphate	< 0.05		1	mg/L	SM4500-P E 09/27/2008 10:37 AM

Qualifiers:

E - Value above quantitation range

D - Results for Dilution

D.F. = Dilution Factor

Date Reported:

10/6/2008

Joann M. Slavin

Laboratory Manager

Solston SSI

Page 4 of 4

# Duplicate of BBSW-18

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BLIND DUPLICATE-2

Contract: Lab Name: H2M LABS, INC. Lab Code: 10478 Case No.: KEY-GEI SAS No.: SDG No.: GEI180

Lab Sample ID: 0811481-001A Matrix: (soil/water) WATER

Sample wt/vol:  $\underline{5}$  (g/mL)  $\underline{ML}$ 

Lab File ID: V\F37823.D

Level: (low/med) LOW

Date Received: 09/26/08

% Moisture: not dec.

Date Analyzed: 10/01/08

GC Column: DB-624

ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume:

(μL) Soil Aliquot Volume (μL)

CAS NO.	COMPOUND	(pg/L or pg/Kg) UG/L	Q
123-91-1	1,4-Dioxane	500 R	₩
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	υ
75-01-4	Vinyl chloride	10	Ü
	1,3-Butadiene	10	Ü
106-99-0	Bromomethane	10	Ü
74-83-9	Freon-114	10	Ü
76-14-2	Chloroethane	10	Ü
75-00-3	Trichlorofluoromethane	10	ΰ
75-69-4	1,1-Dichloroethene	10	Û
75-35-4		10	Ü
107-05-1	Allyl Chloride Freon-113	10	U
76-13-1	· · · · · · · · · · · · · · · · · · ·	10	U
108-05-4	Vinyl acetate	10	UJ
67-64-1	Acetone	10	Ü
75-15-0	Carbon disulfide	10	Ü
109-99-9	Tetrahydrofuran	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	υJ
1634-04-4	Methyl tert-butyl ether	10	υ
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	υ
78-93-3	2-Butanone	10	C
67-66-3	Chloroform	10	13
71-55-6	1,1,1-Trichloroethane	10	Ü
142-82-5	Heptane	1 10	U
110-82-7	Cyclohexane	10	U
540-84-1	2,2,4-Trimethylpentane		U
56-23-5	Carbon tetrachloride	10	UT
67-63-0	2-Propanol	500	· · · · · · · · · · · · · · · · · · ·
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U

BBSW-18

### 1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BLIND DUPLICATE-2

Lab Name: H2M LABS	B, INC.	Contract		
Lab Code: <u>10478</u>	Case No.: KEY-	GEI SAS N	o.:	SDG No.: GEI180
Matrix: (soil/water	) WATER	; ; ; ; <b>L</b>	ab Sample ID:	0811481-001A
Sample wt/vol:	(g/mL) <u>ML</u>	L	ab File ID:	V\F37823.D
Level: (low/med)	TOM	D	Date Received:	09/26/08
% Moisture: not dec	:-	D	ate Analyzed:	10/01/08
GC Column: DB-624	ID: 0.3	<u>18</u> (mm) D	Dilution Factor:	1.00
Soil Extract Volume		μ <b>L</b> ) S	Soil Aliquot Volu	me (μL)

### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
75-07-0	Acetaldehyde	10	0
25168-05-2	Chlorotoluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	υ
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	Ü
110-54-3	Hexane	10	U
108-38-3/106-42-3	m,p-Xylene	10	0
95-47-6	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
103-65-1	n-Propylbenzene	10	U
108-67-8/622-96-8	1,3,5-Trimethylbenzene/P-ethyltoluen	e 10	Ü
95-63-6	1,2,4-Trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	υ
64-17-5	Ethanol	-500- R	~⊕ <b>√</b>
106-46-7	1,4-Dichlorobenzene	10	U
91-20-3	Naphthalene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	ሀፓ ነ
120-82-1	1,2,4-Trichlorobenzene	10	Ü

At in

GEI180 S2

# Duplicate of BBSW-18

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. BLIND DUPLICATE-2

Contract; Lab Name: H2M LABS, INC. Case No.: KEY-GEI SAS No.: SDG No.: GEI180 Lab Code: 10478 Lab Sample ID: 0811481-001A Matrix: (soil/water) WATER Lab File ID: V\F37823.D (g/mL) ML Sample wt/vol: 5 Date Received: 09/26/08 Level: (low/med) LOW Date Analyzed: 10/01/08 % Moisture: not dec. Dilution Factor: 1.00 ID: 0.18 (mm) GC Column: DB-624 Soil Aliquot Volume:  $0 (\mu L)$ (µl) Soil Extract Volume: CONCENTRATION UNITS: (µg/L or µg/Kg) Number TICs found: Q RT EST.CONC. COMPOUND NAME CAS NUMBER

# Duplicate of BBSW-18

EPA SAMPLE NO.

BLIND DUP-2

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC.

Contract:

SDG No.: GEI180

Lab Code: 10478 Matrix: (soil/water) WATER

Case No.: KEY-GEI SAS No.:

Lab Sample ID:

0811481-0018

Sample wt/vol:

1000 (g/mL) ML Lab File ID:

A\C43002.D

Level: (low/med)

LOW

Date Received:

09/26/08

% Moisture:

Decanted: (Y/N) N Date Extracted: 10/01/08

Concentrated Extract Volume: 1000 (µL)

.Date Analyzed:

10/02/08

Injection Volume:  $\underline{2}$  ( $\mu$ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_

Extraction: (Type) SEPF

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	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	Ū
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1.2-Dichlorobenzene	10	υ
95-48-7	2-Methylphenol	10	U
108-60-1	2,2 -oxybis(1-Chloropropane)	10	υ
106-44-5	4-Methylphenol	10	υ
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	1.0	υ
78-59-1	Isophorone	10	υ
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	Ü
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	1.0	U
106-47-8	4-Chloroaniline	10	Ü
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	Ü
91-57-6		10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	υŢ
88-74-4	2-Nitroaniline	25	U J
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	25	υJ
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	Ü

# Duplicate of

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BLIND DUP-2

Contract: Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No.: KEY-GEI SAS No.:

SDG No.: GEI180

Matrix: (soil/water) WATER

Lab Sample ID:

0811481-001B

Sample wt/vol:

1000

(g/mL) ML

Lab File ID:

A\C43002.D

Level: (low/med)

TOM

Date Received: 09/26/08

% Moisture:

Decanted: (Y/N) N

Date Extracted: 10/01/08

Concentrated Extract Volume: 1000 (µL) Date Analyzed:

10/02/08

Injection Volume:  $\underline{2}$  ( $\mu L$ )

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_

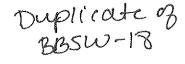
Extraction: (Type) SEPF

### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	Q
121-14-2	2,4-Dinitrotoluene ,	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	υ
86-73-7	Fluorene	10	Ų
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinítro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	Ŭ
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	Ŭ
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3 -Dichlorobenzidine	10	σ
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	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

(1) Cannot be separated from Diphenylamine

OLM04.2



16

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BLIND DUP-2

Lab Name:	H2M LABS, INC	<u>'.</u>		Contra	Ct:		
Lab Code:	10478	Case N	o.: <u>KEY-G</u>	SAS No.:		SDG No.:	<u>GEI180</u>
Matrix: (soil/wate	er)	WATER	3		Lab Sample ID:	<u>08</u>	11481-001B
Sample wt/vol:	•	1000	(g/mL)	<u>ML</u>	Lab File ID:	<u>A\0</u>	C43002.D
Level: (low/med	i)	LOW			Date Received:	<u>09</u>	/26/08
% Moisture:		Dec	canted:(Y/N)	<u>N</u>	Date Extracted:	<u>10</u>	<u>/01/08</u>
Concentrated Ex	dract Volume:		1000	(µl)	Date Analyzed:	<u>10</u>	<u>/02/08</u>
Injection Volume		(µ!)		n	Dilution Factor:	1.0	<u>00</u>
GPC Cleanup:	17.77	<u>Й</u> Ь	H:		Extraction: (Type	e) <u>Sf</u>	<u>PF</u>

### CONCENTRATION UNITS:

Number	TICs found:	9	(μg/L or μg/Kg)	<u>UG/L</u>		
, turnsor	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q	
	1 000057-10-3	n-Hexadecanoic acid	13.08		-344	R
	2. 000629-96-9	1-Eicosanol	13.65	<u></u>		R
	3	unknown (13.8)	13.80	2_	<u> </u>	
	4 000057-11-4	Octadecanoic acid	13.96		- JN (	K.
	5 .	unknown (14.49)	14.49			\$
	6.	unknown (15.04)	15.04		r r	4
	7.	unknown (15.52)	15.52	3	BalN→	R
	8. 007683-64-9	Squalene	15.67	<del></del>	10014	113
	9.	unknown (17.28)	17.28	<u> </u>	1 3	.]

GEI180 S29

OLM04.2

(631) 694-3040 . FAX: (631) 420-8436 NYSDOHID# 10478

Duplicate of BBSW18

### LABORATORY RESULTS

Lab No.: 0811481-001

Sample Information... Type: Surface Water

Origin:

GEI Consultants, Inc. 455 Winding Brook Drive Glastonbury, CT 06033

Attn To: Matt O'Neil

:9/25/2008 Collected

;9/26/2008 11:07:00 AM Received

575 Broad Hollow Road, Metrille NY 11747

Collected By CM99 Copies To :Original

CC

						ACC-100-100-100-100-100-100-100-100-100-1
Parameter(s)	Results	Qualifier	D.F.	<u>Units</u>	Method Number	Analyzed
	42.0	<del></del>	1	mg/L	E300.0	10/01/2008 8:30 PM
Chloride Sulfate	18.8		1	mg/L	E300.0	10/01/2008 8:30 PM
Nitrogen, Ammonia (As N)	0.14		1	mg/L	E350.1	09/29/2008 1:47 PM
Nitrite as N	< 0.10		1	mg/L	E353.2	09/26/2008 5:23 PM
Nitrate as N	0.31		1	mg/L	E353.2	10/02/2008 2:49 PM
Ortho Phosphate	< 0.05		1	mg/L	SM4500-P E	09/27/2008 10:32 AM

Client ID. ; BLIND DUPLICATE-2

Qualifiers:

E - Value above quantitation range

D - Results for Dilution

D.F. = Dilution Factor

Date Reported:

10/6/2008

Joann M. Slavin

Laboratory Manager

10/20/28 NO/20/28

lB

### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBSW-07-PW

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478 Case No.: KEY-GEI SAS No.: SDG No.: GEI171

Matrix: (soil/water) WATER

Lab Sample ID: 0810543-001A

Sample wt/vol:  $\underline{5}$  (g/mL)  $\underline{\text{ML}}$ 

Lab File ID: V\F37475.D

Level: (low/med) LOW

Date Received: 09/05/08

% Moisture: not dec.

Soil Extract Volume: ( $\mu$ L) Soil Aliquot Volume ( $\mu$ L)

Date Analyzed: 09/08/08

CAS NO.	COMPOUND	( $\mu$ g/L or $\mu$ g/Kg) $\overline{U}$ G/L	Q	
<del></del>		-500→ R	-t- /	
123-91-1	1,4-Dioxane	10	U	
	Dichlorodifluoromethane	10	UJV	
	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
106-99-0	1,3-Butadiene	10	ט	
74-83-9	Bromomethane	10	Ü	
76-14-2	Freon-114	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	10	Ü	
75-35-4	The same of the sa	10	UJ J	
107-05-1	Allyl Chloride	10	U	
76-13-1	Freon-113	10	Ü	
108-05-4	Vinyl acetate	10	บฏ 🐱	
67-64-1	Acetone	10	U	
75-15-0	Carbon disulfide		ΰ	
109-99-9	Tetrahydrofuran	10	Ū	
75-09-2	Methylene chloride	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
1634-04-4	Methyl tert-butyl ether	10	U	
75-34-3	1,1-Dichloroethane	10	U	
156-59-2	cis-1,2-Dichloroethene	10	<u> </u>	
78-93-3	2-Butanone	10	U	
67-66-3	Chloroform	10	Ŭ	
71-55-6	1,1,1-Trichloroethane	10	U	
142-82-5	Heptane	10	U	
110-82-7	Cyclohexane	10	U	
540-84-1	2,2,4-Trimethylpentane	10	UJ	
56-23-5	Carbon tetrachloride	10	U	
67-63-0	2-Propano1	. <del></del>		
71-43-2	Benzene	10	Ŭ	
	1,2-Dichloroethane	10	U	
107-06-2	Trichloroethene	10	Ü	
79-01-6	1,2-Dichloropropane	10	U	
78-87-5		10	U	
75-27-4	Bromodichloromethane	1.0	U	
10061-01-5	cis-1,3-Dichloropropene		<del></del>	

EPA SAMPLE NO.

BBSW-07-PW

Lab Name:	H2M LABS,	INC.	Contra	ct:	
Lab Code:	10478	Case No.:	KEY-GEI SAS	No.:	SDG No.: GEI171
Matrix: (so	il/water)	WATER		Lab Sample ID:	0810543-001A
Sample wt/v	vol: <u>5</u>	(g/mL)	ML	Lab File ID:	<u>V\F37475.D</u>
Level: (1	.ow/med)	TOM		Date Received:	09/05/08
% Moisture:	not dec.			Date Analyzed:	09/08/08
GC Column:	DB-624	ID:	0.18 (mm)	Dilution Factor:	1.00
Soil Extra	ct Volume:		(μ <b>L</b> )	Soil Aliquot Volv	une (μL)

CAS NO.	COMPOUND	μg/L or μg/Kg) UG/L	Q
108-10-1	4-Methyl-2-pentarione	10	U
108-30 1	Toluene	10	U
75-07-0	Acetaldehyde	10	U
25168-05-2	Chlorotoluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-93-4	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
	Hexane	10	U
110-54-3	m,p-Xylene	10	U
108-38-3/106-42-3	o-Xylene	10	บ
100-42-5	Styrene	10	ΰ
75-25-2	Bromoform	10	Ŭ
	Isopropylbenzene	10	Ŭ
98-82-8	1,1,2,2-Tetrachloroethane	10	Ŭ
79-34-5	n-Propylbenzene	10	Ü
103-65-1	1,3,5-Trimethylbenzene/P-ethyltoluen	e 10	Ü
108-67-8/622-96-8	1,2,4-Trimethylbenzene	10	U
95-63-6	1,3-Dichlorobenzene	10	U
541-73-1		-500° R	·U
64-17-5	Ethanol	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-20-3	Naphthalene	10	U
95-50-1	1,2-Dichlorobenzene	10	บร
87-68-3	Hexachlorobutadiene	10	U
120-82-1	1,2,4-Trichlorobenzene	1 20	

1 F

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO.	_
BBSV	V-07-PW		

Lab Name:	H2M LABS, IN	IC.		Cont	ract:	- <del></del>				
Lab Code:	10478	Case No.	: KEY-GEI	SAS No.	· :		SDG No.	: GEI	171	
Matrix: (soi)		WATER			I	ab Sample	e ID:	0810543	-001A	
Sample wt/vo			(g/mL) M	1 <u>L</u>	1	ab File 1	ID:	V\F3747	5.D	
_	w/med) <u>LO</u>	<u>M</u>			Ι	ate Recei	ived:	09/05/0	<u>8</u>	
% Moisture:	not dec.				r	Date Analy	/zed:	09/08/0	<u>8</u>	
GC Column:	DB-624	ID: 0.18	(mm)		I	Dilution i	Factor:	1.00		
Soil Extract	Volume:		(µ1)		\$	Boil Aliq	uot Volume:		0	(μ <u>L</u> )
				CON	CENTRI	ATION UNI	rs:			
Number TICs	found:	0		(μg,	/L or	μg/Kg)	<u></u>	IG/L	,	***
3	CAS NUMBER		COMPOUND N	AME		RT	EST.CO	1C.	Q	

15 GE1171 S26

EPA SAMPLE NO.

BBSW-07-PW

Lab Name: H2M LABS, INC.

Contract:

R

SDG No.: GEI171

Lab Code: 10478 Case No.: KEY-GEI SAS No.:

Lab Sample ID:

0810543-001B

Matrix: (soil/water) WATER

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

Lab File ID:

A\C42699.D

Level: (low/med) LOW

Date Received:

09/05/08

% Moisture: Decanted:(Y/N) N

Date Extracted: 09/09/08

Concentrated Extract Volume:  $1000 - (\mu L)$ 

Date Analyzed: 09/12/08

Injection Volume:  $\frac{2}{2}$  ( $\mu$ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Extraction: (Type) <u>SEPF</u>

		. /* /X@) GC/I	i Q
AS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	ן ט
	Phenol	10	U
108-93-2 I	Bis(2-chloroethyl)ether	10	
95-57-8 2	2-Chlorophenol	10	U
541-73-1	,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1 1	1,2-Dichlorobenzene	10	
00 40 7		1.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	
	4-Methylphenol	10	<del>U</del> <del>U</del>
	N-Nitroso-di-n-propylamine	10	
	Hexachloroethane	10	<u>U</u>
	Nitrobenzene	10	U
	Isophorone	10	Ü
	2-Nitrophenol	10	ט
	2,4-Dimethylphenol	10	U
	Bis (2-chloroethoxy) methane	10	U
	2,4-Dichlorophenol	10	U
	1,2,4-Trichlorobenzene	10	U
		10	U
	Naphthalene	10	U
	4-Chloroaniline	10	U
	Hexachlorobutadiene	10	U
	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	Ū
	Hexachlorocyclopentadiene	10	U ·
88-06-2	2,4,6-Trichlorophenol	25	Ū
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	25	Ü
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	Ü
208-96-8	Acenaphthylene	10	Ū
606-20-2	2,6-Dinitrotoluene	25	
99-09-2	3-Nitroaniline	10	
83-32-9	Acenaphthene		
51-28-5	2,4-Dinitrophenol	25	er !
		25	
and the second s		1 10	<u>V</u> j
100-02-7 132-64-9	4-Nitrophenol Dibenzofuran FORM I SV- 1	25 10 OLM04	4.2 Waillet

EPA SAMPL	E NO
-----------	------

BBSW-07-PW

Lab Name: H2M LABS, INC.

Contract: \_

SDG No.: GEI171

Lab Code: 10478 Case No.: KEY-GEI

SAS No.:

0810543-001B

Matrix: (soil/water) WATER

1000

(g/mL) ML

Lab Sample ID: Lab File ID:

A\C42699.D

Level: (low/med)

Sample wt/vol:

Date Received:

09/05/08

LOW

% Moisture:

Decanted: (Y/N) N

Date Extracted: 09/09/08

Concentrated Extract Volume:  $\underline{1000}$  ( $\mu L$ )

Date Analyzed: 09/12/08

Injection Volume: 2

 $(\mu L)$ 

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_

Extraction: (Type) SEPF

### CONCENTRATION UNITS:

		• • • •	
CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	Q
121-14-2	2 2,4-Dinitrotoluene	10	U
84-66-2		10	Ŭ
		10	U
7005-72-3		10	Ŭ
86-73-1 100-01-6		25	<u> </u>
		25	<u> </u>
534-52-		10	<u> </u>
86-30-		10	U
101-55		10	U
118-74-		25	υ
87-86-		10	U
85-01-		10	U
120-12-		10	U
86-74-		10	U
84-74-		10	U
206-44-		10	U
129-00-		10	U
85-68-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10	U
91-94-		10	U
56-55-		10	U
218-01-	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10	U
117-81-		1.0	Ü
117-84-		10	U
205-99-	- MARTIN ST. T. L. S.	10	UĴ
207-08-		10	U
50-32-		10	U
193-39-		10	Ŭ
53-70-		10	Ü
191-24-	-2 Benzo(g,h,i)perylene		

(1) Cannot be separated from Diphenylamine

Sellolo's Sellolo GEII71 S28

### 1G

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Contract:

EP	A SAMPLE NO.
	BBSW-07-PW

Lab Name:	H2M LABS, IN	IC.					Contrac	t:			
Lab Hame	10478		Case	No.:	KEY-GE	į SA	S No.:		SDG No	.: <u>GEI</u>	<u>171</u>
Lab code.	10.110							Lab Sample ID:		0810543	-001B
Matrix: (soil/water)	}		TAW	<u>ER</u>							0.0
Sample wt/vol:			1000		(g/mL)	<u>ML</u>		Lab File ID:		A\C4269	<u>9.17</u>
		, ,						Date Received:		09/05/08	
Level: (low/med)		LC	W							00/00/00	
% Moisture:			C	ecant	ted:(Y/N)	И		Date Extracted:		09/09/08	
, ,					1000	(비)		Date Analyzed:		09/12/08	:
Concentrated Ext	ract Volume:					- (6-7				1.00	
Injection Volume:		2	(µI)					Dilution Factor:		1.00	
GPC Cleanup: (	.,		<u>l</u>	pH:				Extraction: (Type	∍)	SEPF	
O, 0 D	•							CONCENTRATION	UNITS:		
Number TICs fou	nd:	<u>6</u>					- ,	(µg/L or µg/Kg)	<u>UG/L</u> EST.CO	ONIC	Τα
,					COMPOSIN	EN ALAKAE	<u>:</u>	RT !	にっしい	プロ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	1 😘

·TiCs found:	6	(P3-1 - F3- 3)		
CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
		4.00	2	JN
1. 000106-51-4	p-Benzoquinone n-Hexadecanoic acid	13.34	2	JN_
2 . 000057-10-3	(DEL) Alkane: Branched	15.61	3	J
3.	unknown (15.73)	15.73	44	<u> </u>
	unknown (16.08)	16.08	4_	J
6	unknown (16.93)	16.93	2	_ <u></u>
7	unknown (17.71)	17.71	<u> </u>	J

OLMO4.2 CEII 1 829

## HZM LABS, INC.

575 Broad Hollow Road, Meiville NY 11747 (631) 694-3040 . FAX: (631) 420-8436 NYSDOHID# 10478

LABORATORY RESULTS

Lab No.: 0810543-001

Sample Information... Type: Surface Water

Origin:

GEI Consultants, Inc.

455 Winding Brook Drive Glastonbury, CT 06033 Attn To: Matt O'Neil

Collected

:9/5/2008 11:30:00 AM :9/5/2008 3:25:00 PM Received

Collected By CM99 Copies To :Original

CC

Parameter(s)	Re <u>sults</u>	Qualifier	D.F.	<u>Units</u>	Method Number	Analyzed
Chloride	44.5		5	mg/L	E300.0	09/11/2008 5:30 PM
Sulfate	23.7		1	mg/L	E300.0	09/12/2008 7:45 PM
Nitrogen, Ammonia (As N)	0.11		1	mg/L	E350.1	09/10/2008 1:32 PM
Nitrite as N	< 0.10		1	mg/L	£353.2	09/06/2008 10:10 AM
Nitrate as N	< 0.10		1	mg/L	E353.2	09/15/2008 12:14 PM 09/06/2008 9:54 AM
Ortho Phosphate	< 0.0500	)	1	mg/L	SM4500-P E	U9/U6/2006 9.34 AW

Client ID. : BBSW-07-PW

Qualifiers.

E - Value above quantitation range

D - Results for Dilution

D.F. = Dilution Factor

Date Reported :

9/22/2008

Joann M. Slavin

Laboratory Manager

CEIITI S30

#### 1A

### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBSW-07-SW

Lab Name: H2M LABS,	INC. Contra-	ct:
Lab Code: 10478	Case No.: <u>KEY-GEI</u> SAS	No.: SDG No.: GEI171
Matrix: (soil/water)	WATER	Lab Sample ID: 0810543-002A
Sample wt/vol: 5	(g/mL) ML	Lab File ID: V\F37476.D
Level: (low/med)	rom	Date Received: 09/05/08
% Moisture: not dec.		Date Analyzed: 09/08/08
GC Column: DB-624	'ID: 0.18 (mm)	Dilution Factor: 1.00
Soil Extract Volume:	(μζ)	Soil Aliquot Volume $(\mu L)$

### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
123-91-1	1.4-Dioxane	500° R	÷
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	υĵ
75-01-4	Vinyl chloride	10	U
106-99-0	1,3-Butadiene	10	U
74-83-9	Bromomethane	10	U
76-14-2	Freon-114	10	Ŭ
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	<u> </u>
107-05-1	Allyl Chloride	10	UJ
76-13-1	Freon-113	10	U
108-05-4	Vinyl acetate	10	U
67-64-1	Acetone	10	UJ
75-15-0	Carbon disulfide	10	U
1.09-99-9	Tetrahydrofuran	10	U
75-09-2	Methylene chloride	10	Ü
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U_
75-34-3	1,1-Dichloroethane	. 10	U
156-59-2	cis-1,2-Dichloroethene	10	Ü
78-93-3	2-Butanone	10	Ü
67-66-3	Chloroform	10	Ü
71-55-6	1,1,1-Trichloroethane	10	U
142-82-5	Heptane	10	U
110-82-7	Cyclohexane	10	U
540-84-1	2,2,4-Trimethylpentane	1.0	UJ
56-23-5	Carbon tetrachloride	10	U
67-63-0	2-Propanol	<u>-500</u> ~ R	~ <del>[]</del>
71-43-2	Benzene	10	Ü
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U

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EPA SAMPLE NO.

BBSW-07-SW

Lab Name: H2	M LABS, I	NC.	Contra	ct:	
Lab Code: 10	478	Case No.:	KEY-GEI SAS	No.:	SDG No.: GEI171
Matrix: (soil,	/water)	WATER		Lab Sample ID:	0810543-002A
Sample wt/vol	: <u>5</u>	(g/mL)	ML	Lab File ID:	V\F37476.D
Level: (low	/med)	TOM	\$	Date Received:	09/05/08
% Moisture: n	ot dec.			Date Analyzed:	09/08/08
GC Column:	DB-624	ID:	0.18 (mm)	Dilution Factor:	1.00
Soil Extract	Volume:	Figure annual Co. S. C. C. Comm. An	(µL)	Soil Aliquot Vol	ime (µL)

### CONCENTRATION UNITS:

CAS NO.	COMPOUND	μg/L or μg/Kg) UG/L	Q	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	10	U	
75-07-0	Acetaldehyde	10	U	-
25168-05-2	Chlorotoluene	10	U	:
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
127-18-4	Tetrachloroethene	10	U	j
591-78-6	2-Hexanone	10	U	1
124-48-1	Dibromochloromethane	10	U	
106-93-4	1.2-Dibromoethane	10	U	
108-90-7	Chlorobenzene	10	U	.:
100-41-4	Ethylbenzene	10	Ŭ	_
630-20-6	1,1,1,2-Tetrachloroethane	10	Ü	-;
110-54-3	Hexane	10	U	_
108-38-3/106-42-3	m,p-Xylene	10	U	1
95-47-6	o-Xylene	10	Ü	_
100-42-5	Styrene	10	U	_
75-25-2	Bromoform	10	U	_
98-82-8	Isopropylbenzene	10	U	_
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	_
103-65-1	n-Propylbenzene	10	U	
108-67-8/622-96-8	1,3,5-Trimethylbenzene/P-ethyltoluen	e 10	ū	
95-63-6	1,2,4-Trimethylbenzene	10	U	اٰ_
541-73-1	1,3-Dichlorobenzene	10	Ŭ	╛.
64-17-5	Ethanol	~500 · R	¥	_
106-46-7	1,4-Dichlorobenzene	1.0	Ŭ	1
91-20-3	Naphthalene	10	U	
95-50-1	1,2-Dichlorobenzene	10	U	1
87-68-3	Hexachlorobutadiene	10	UJ"	V
120-82-1	1,2,4-Trichlorobenzene	10	U	

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#### 1F

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
BESW-07-SW

Contract: Lab Name: H2M LABS, INC. Case No.: KEY-GEI SAS No.: SDG No.: GEI171 Lab Code: 10478 Lab Sample ID: 0810543-002A WATER Matrix: (soil/water) Lab File ID: V\F37476.D (g/mL) <u>ML</u> Sample wt/vol: 5 Date Received: 09/05/08 Level: (low/med) LOW Date Analyzed: 09/08/08 % Moisture: not dec. Dilution Factor: 1.00 GC Column: DB-624 ID: 0.18 (mm) Soil Aliquot Volume: 0 (µL)  $(\mu 1)$ Soil Extract Volume: CONCENTRATION UNITS: (μg/L or μg/Kg) Number TICs found: COMPOUND NAME RT EST.CONC. : CAS NUMBER

A GE1171 S33

EPA SAMPLE NO.

BBSW-07-SW

Lab Name: H2M LABS, INC.

Contract:

SDG No.: GEI171

Lab Code: 10478 Case No.: KEY-GEI SAS No.:

Lab Sample ID:

0810543-002B

Matrix: (soil/water) WATER Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

A\C42700.D

Level: (low/med) LOW

Date Received: 09/05/08

% Moisture: Decanted: (Y/N) N.

Date Extracted: 09/09/08

Concentrated Extract Volume: 1000 ( $\mu L$ )

Date Analyzed: 09/12/08

Injection Volume:  $2 \qquad (\mu L)$ 

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_

Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	Q
108-95	-2 Phenol	10	<u>u</u>
111-44	2)	1.0	U
95-57		10	U
541-73		10	<u> </u>
106-46		1.0	Ü
95~50		10	U
95-30 95-48		10	U
108-60		10	U
106-44		10	U
621-64		10	U
67-72		10	U
98-95		10	U
78-59		10	U
88-75	The state of the s	10	U
105-67		10	U
111-91		10	U
120-83		10	Ŭ
120-82		10	U
91-20		1.0	U
106-4		10	<u> </u>
87-68		10	. U
59-50	A CONTRACTOR OF THE PARTY OF TH	10	U
91-5		10	Ü
77-4		10	U
88-0	A PARTY AND A PART	10	Ü
95-9		25	υ
91-5		10	U
88-7		25	Ü
131-1		10	Ü
208-9		10	U
606-2		10	U
99-0		25	U
		10	U
83-3		25	U
51-2		25	Ŭ
100-0		10	υ
132-6	4-9 Dibenzofuran		L

OEII71 S34

#### 10

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBSW-07-SW

Contract: Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No.: KEY-GEI

SAS No.:

SDG No.: GEI171

Matrix: (soil/water) WATER

Lab Sample ID:

0810543-002B

Sample wt/vol:

1000

(g/mL) ML

Lab File ID:

A\C42700.D

Level: (low/med)

LOW

Date Received:

09/05/08

% Moisture:

Decanted: (Y/N) N

Date Extracted:

09/09/08

Concentrated Extract Volume:  $1000 (\mu L)$ 

Date Analyzed:

09/12/08

Injection Volume:  $\frac{2}{2}$  (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Extraction: (Type) SEPF

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	Q
	2,4-Dinitrotoluene	10	U
121-14-2	Diethylphthalate	10	U
84-66-2	4-Chlorophenyl-phenylether	10	U
7005-72-3	Fluorene	10	U
86-73-7	4-Nitroaniline	25	U
100-01-6	4,6-Dinitro-2-methylphenol	25	Ü
534-52-1	N-Nitrosodiphenylamine	10	U
86-30-6	4-Bromophenyl-phenylether	10	U
101-55-3	Hexachlorobenzene	10	U
118-74-1	Pentachlorophenol	25	U
87-86-5	Phenanthrene	10	U
85-01-8	The state of the s	1.0	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene Physical Physi	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3 -Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	UJV
207-08-9	Benzo(k)fluoranthene	10	<b>U</b>
50-32-8	Benzo(a)pyrene		Ū
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	<u>u</u>
191-24-2	Benzo(g,h,i)perylene	10	

(1) Cannot be separated from Diphenylamine

1000 July CEII71 835

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BBSW-07-SW

Lab Name:	H2M LABS, INC.					Contra	ct:			
Lab Code:	10478	Case	No.:	KEY-G	<u>=1</u>	SAS No.:		SDG No	.: <u>GEI171</u>	
Matrix: (soil/wate		WATE	<u>ER</u>				Lab Sample ID:		0810543-002B	
Sample wt/vol:	• /	1000		(g/mL)	ML.	•	Lab File ID:		A\C42700.D	
Level: (low/med	ı\	LOW					Date Received:		09/05/08	
	''		ecante	ed:(Y/N)	7	1	Date Extracted:		09/09/08	
% Moisture:  Concentrated Ex	tract Volume:			1000	(µI)		Date Analyzed:		09/12/08	
		(µI)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Dilution Factor:		1.00	
Injection Volume			рН:				Extraction: (Type	∌}	SEPE	
GPC Cleanup:	(1714)	<u></u>	<b>F</b>				CONCENTRATION	UNITS:		
Number TICs for	und:	<u>6</u>					(µg/L or µg/Kg)	UG/L.	2NO T C	

r TICs found:	6	(Have or having)		
CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
	Bonnowijoono	4.01	2	JN
1, 000106-51-4	p-Benzoquinone Hydroquinone	7.07	2	JN
2. 000123-31-9	(DEL) Alkane: Branched	15.62	3	J
A	unknown (15.72)	15.72	4_	J
5	unknown (16.09)	16.09	3	J
6	unknown (16.93)	16.93	3	
7	unknown (17.71)	17.71	3	

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# H2M LABS, INC.

575 Broad Hollow Road, Metville NY 11747 (631) 694-3040 . FAX: (631) 420-8436 NYSDOHID#10478

LABORATORY RESULTS

Lab No.: 0810543-002

Sample Information...
Type: Surface Water

) po : Odinado 114.

Origin:

GEI Consultants, Inc. 455 Winding Brook Drive Glastonbury, CT 06033

Attn To: Matt O'Neil

Client ID. : BBSW-07-SW

Collected : 9/5/2008 12:00:00 PM Received : 9/5/2008 3:25:00 PM

Collected By CM99
Copies To Original

CC

Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>	Method Number	<u>Analyzed</u>
Chloride	44.4		5	mg/L	E300.0	09/11/2008 5:44 PM
Sulfate	23.7		1	mg/L	E300.0	09/12/2008 7:59 PM
Nitrogen, Ammonia (As N)	< 0.10		1	mg/L	E350.1	09/10/2008 1:33 PM
Nitrite as N	< 0.10		1	mg/L	E353.2	09/06/2008 10:11 AM
Nitrate as N	< 0.10		1	mg/L	E353.2	09/15/2008 12:16 PM
Ortho Phosphate	< 0.0500		1	mg/L	SM4500-P E	09/06/2008 9:56 AM

Qualifiers

E - Value above quantitation range

D - Results for Dilution

D.F. = Dilution Factor

Date Reported .

9/22/2008

Joann M. Slavin

Laboratory Manager

20 Set 171 S37

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSW-02-PW

Lab Name:	H2M LABS,	INC.	Contra	ct:	
Lab Code:	10478	Case No.:	KEY-GEI SAS	No.:	SDG No.: GEI171
Matrix: (so	il/water)	WATER		Lab Sample ID:	0810543-006A
Sample wt/v	ol: <u>5</u>	(g/mL)	ML	Lab File ID:	V\F37481.D
Level: (1	ow/med)	TOM		Date Received:	09/05/08
% Moisture:	not dec.			Date Analyzed:	09/09/08
GC Column:	DB-624	ID:	0.18 (mm)	Dilution Factor:	1.00
Soil Extrac	t Volume:		(μω)	Soil Aliquot Vol	ume (µL)

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
	1,4-Dioxane	500 R	-6-
75-71-8		10	U
	Chloromethane	10	บรูป
75-01-4	Vinyl chloride	10	U
106-99-0	1.3-Butadiene	10	Ü
74-83-9	Bromomethane	10	U
76-14-2	Freon-114	10	Ü
75-00-3	Chloroethane	10	υ
	Trichlorofluoromethane	10	U
75-69-4	1,1-Dichloroethene	10	Ü
75-35-4	Allyl Chloride	10	UJ
107-05-1	Freon-113	10	U
76-13-1	Vinyl acetate	10	U
108-05-4		-3- 10 UJ	.J-v }
67-64-1	Acetone Carbon disulfide	10	U
75-15-0		10	U
109-99-9		10	υ
75-09-2		10	บ
156-60-5		10	U
1634-04-4		10	U
75-34-3		10	Ū
156-59-2	The state of the s	10	U
78-93-3	***************************************	10	U
67-66-3		10	U
71-55-6		10	U
142-82-5	· · · · · · · · · · · · · · · · · · ·	10	Ü
110-82-7	Cyclohexane		UT
540-84-1		10	U U
56-23-5			- <del></del>
67-63-0	2-Propanol	500. R	U
71-43-2	Benzene	10	<u> </u>
107-06-2	1,2-Dichloroethane	1.0	Ü
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4		10	l U
10061-01-9		10	U

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# VOLATILE ORGANICS ANALYSIS DATA SHEET

ELED A	CAMPLE	MO
EPA	SAMPLE	NO

LCSW-02-PW

Lab Name: H2M LABS,	INC. Con	tract:	
Lab Code: 10478	Case No.: KEY-GEI	SAS No.:	SDG No.: GEI171
Matrix: (soil/water)	WATER	Lab Sample ID:	0810543-006A
Sample wt/vol: $\underline{5}$	(g/mL) ML	Lab File ID:	<u>V\F37481.D</u>
Level: (low/med)	LOW	Date Received:	09/05/08
% Moisture: not dec.		Date Analyzed:	09/09/08
GC Column: DB-624	ID: 0.18 (mm	) Dilution Factor:	1.00
Soil Extract Volume:	(μ <b>L</b> )	Soil Aliquot Vol	ume (μΣ)

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	ıg/L or μg/Kg) <u>UG/L</u>	Q
108-10-1	4-Methvl-2-pentanone	10	Ü
108-88-3	Toluene	10	U
75-07-0	The state of the s	10	U
25168-05-2	Chlorotoluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	Ü
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	Ŭ
124-48-1	Dibromochloromethane	10	U
106-93-4	1.2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	Ŭ
100-41-4	Ethylbenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
110-54-3	Hexane	10	U
108-38-3/106-42-3	m,p-Xylene	10	<u> </u>
95-47-6	o-Xylene	10	U
100-42-5	Styrene	10	<u> </u>
75-25-2	Bromoform	10	Ŭ
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
103-65-1	n-Propylbenzene	10	U
108-67-8/622-96-8	1,3,5-Trimethylbenzene/P-ethyltoluene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	Ü
64-17-5	Ethanol	-500 R	ູ້ປະ
106-46-7	1,4-Dichlorobenzene	10	U
91-20-3	Naphthalene	10	: 
95-50-1	1,2-Dichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	UJ
120-82-1	1,2,4-Trichlorobenzene	10	U

20/10/ch

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# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

 SAMPLE	
 V-02-P₩	

Lab Name: 11214 LAB	s, INC	<u>.</u> .		Co	ntract	;				
Lab Code: 10478		Case No.	: KEY-GEI	SAS N	lo.:		SDG No.:	GEI1	71	
Matrix: (soil/water)		WATER				Lab Sample	e ID: <u>08</u>	810543-0	A 8 0 0	
Sample wt/vol: $\frac{5}{2}$			(g/mL)	ML		Lab File :	$\overline{\Lambda}$	\F37481	<u>. D</u>	
Level: (low/med)	POM					Date Rece	ived: 0	9/05/08		
% Moisture: not dec.						Date Analy	yzed: <u>0</u>	9/09/08		
GC Column: DB-624		ID: <u>0.18</u>	(mm)			Dilution :	Factor: 1	.00		
Soil Extract Volume:			(µ1)			Soil Aliq	uot Volume:		<u>0</u>	(μL)
				cc	NCENTE	LATION UNI	rs:			
Number TICs found:		0		( p	g/L or	μg/Kg)	UG	<u>/L</u>	and the Part Part Williams	_,
CAS NUMBE	ER		COMPOUND	NAME		RT	EST.CONC	. ·	Q	

OLM04.2

Monda Monda Memas

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSW-02-PW

Lab	Name:	H2M LABS,	INC.	Contract:	
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Lab Code: 10478 Case No.: KEY-GEI SAS No.:

SDG No.: GEI171

Matrix: (soil/water) WATER

Lab Sample ID:

0810543-006B

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

Lab File ID:

A\C42706.D

Level: (low/med) LOW

Date Received: 09/05/08

% Moisture: Decanted: (Y/N) N Date Extracted: 09/09/08

Concentrated Extract Volume: 1000 ( $\mu$ L) Date Analyzed:

09/12/08

Injection Volume:  $\underline{2}$  ( $\mu$ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N)  $\underline{N}$  pH:

Extraction: (Type) SEPF

#### CONCENTRATION UNITS:

Phenol	10	* *
	l	U
Bis(2-chloroethyl)ether	10	U
2-Chlorophenol	10	Ü
	10	U
	10	Ŭ
	10	U
2-Methylphenol	10	U
2,2'-oxybis(1-Chloropropane)	10	U
4-Methylphenol	10	Ü
	10	U
Hexachloroethane :	10	U
Nitrobenzene	10	U
	10	U
	10	U
2,4-Dimethylphenol	10	υ
Bis(2-chloroethoxy)methane	10	υ
	10	υ
	10	U
	10	U
4-Chloroaniline	10	υ
Hexachlorobutadiene	10	U
	10	U
	10	U
Hexachlorocyclopentadiene	10	U
	10	U
	25	U
2-Chloronaphthalene	10	U
2-Nitroaniline	25	U
Dimethylphthalate	10	บ
· · · · · · · · · · · · · · · · · · ·	10	บ
	10	U
	25	U
1	10	υ
The state of the s	25	U
	25	U
-1	10	Ü
	1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Methylphenol 2,2'-oxybis(1-Chloropropane) 4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Isophorone 2-Nitrophenol 2,4-Dimethylphenol Bis(2-chloroethoxy)methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline Dimethylphthalate Acenaphthylene 2,6-Dinitrotoluene 3-Nitroaniline Acenaphthene 2,4-Dinitrophenol 4-Nitrophenol 4-Nitrophenol	1,3-Dichlorobenzene   10

OLM04.2

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSW-02-PW

Lab	Name:	H2M LABS, INC.	Contract:	
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Lab Code: 10478 Case No.: KEY-GEI SAS No.:

SDG No.: GEI171

Matrix: (soil/water) WATER

Lab Sample ID:

0810543-006B

Sample wt/vol:

1000

Lab File ID: (g/mL) ML

A\C42706.D

Date Received:

Level: (low/med) LOW

09/05/08

% Moisture:

Decanted: (Y/N) N

Date Extracted:

09/09/08

Concentrated Extract Volume:  $1000 (\mu L)$ 

Date Analyzed:

09/12/08

Injection Volume:  $\underline{2}$  ( $\mu L$ )

Dilution Factor:

1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_

Extraction: (Type) SEPF

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	Q
121-14-2	2,4-Dinitrotoluene	10	ָט
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	Ŭ
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	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	Ü
87~86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	Ü
84-74-2	Di-n-butyl phthalate	1.0	Ŭ
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	Ŭ
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	<u> </u>
207-08-9	Benzo(k)fluoranthene	10	uJ"
50-32-8	Benzo(a)pyrene	10	Ü
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	υ
191-24-2		10	U

(1) Cannot be separated from Diphenylamine

1G

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

LCSW-02-PW

Lab Name:	H2M LABS, INC	<u>).</u>				Contrac	Ųŧ.				
Lab Code:	10478	C	ase No.:	KEY-GE	<u>[</u>	SAS No.:			SDG No	.: <u>GE</u> I	<u>171</u>
Matrix: (soil/water)	)	W	ATER				į	Lab Sample I	D:	0810543	-006B
Sample wi/vol:		<u>1(</u>	000	(g/mL)	ML	<u>-</u>	i	Lab File ID:		A\C4270	<u>6.D</u>
Level: (low/med)		LOW						Date Receive	d:	09/05/08	
% Moisture:			Decante	ed:(Y/N)	į	<u> </u>		Date Extracte	d:	09/09/08	
Concentrated Ext	ract Volume:			1000	(µI)			Date Analyze	d:	09/12/08	
Injection Volume:	2	4)	ıl)	· · · · · · · · · · · · · · · · · · ·	-			Dilution Facto	or:	<u>1.00</u>	
GPC Cleanup: (1	Y/N)	<u>N</u>	рН:					Extraction: (T	уре)	<u>SEPF</u>	
							СО	NCENTRATIO	STINU NC		
Number TICs four	nd:	<u>0</u>					(µg	/L or µg/Kg)	<u>UG/L</u>		1
CA	S NUMBER		(	COMPOUN	AN C	ME		RT	EST.CC	MC.	Q

OLM04.2

2 distributed (May 10%)

# HZM LABS, INC.

575 Broad Hollow Road, Melville NY 11747 (631) 694-3040 . FAX: (631) 420-8436 NYSDOHID# 10478

LABORATORY RESULTS

Lab No.: 0810543-006

Sample Information...
Type: Surface Water

Origin:

GEI Consultants, Inc. 455 Winding Brook Drive Glastonbury, CT 06033 Attn To: Matt O'Neil

Collected : 9/5/2008 8:15:00 AM

Received : 9/5/2008 3:25:00 PM
Collected By CM99
Copies To : Original

CC

Parameter(s)	Results		D.F.	<u>Units</u>	Method Number	Analyzed
Chloride	16600		500	mg/L	E300.0	09/12/2008 8:53 PM
Sulfate	2160		200	mg/L	E300.0	09/11/2008 7:05 PM
Nitrogen, Ammonia (As N)	0.45		1	mg/L	E350.1	09/10/2008 1:45 PM
Nitrite as N	< 0.10		1	mg/L	E353.2	09/06/2008 10:18 AM
Nitrate as N	< 0.10		1	mg/L	E353.2	09/15/2008 12:23 PM
Ortho Phosphate	< 0.0500	ı	1	mg/L	SM4500-P E	09/06/2008 10:08 AM

Client ID. : LCSW-02-PW

Qualifiers.

É - Value above quantitation range

D - Results for Dilution

D.F. = Dilution Factor

Date Reported:

9/22/2008

Joann M. Slavin

Laboratory Manager

m'sizifor

#### 1A

#### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSW-02-SW

Lab Name: H2M LABS,	INC.	Contra	ct:	
Lab Code: <u>10478</u>	Case No.:	KEY-GEI SAS	No.:	SDG No.: GEI171
Matrix: (soil/water)	WATER		Lab Sample ID:	0810543-007A
Sample wt/vol: 5	(g/mL)	ML	Lab File ID:	V\F37482.D
Level: (low/med)	LOW		Date Received:	09/05/08
% Moisture: not dec.			Date Analyzed:	09/09/08
GC Column: DB-624	ID:	0.18 (mm)	Dilution Factor:	1.00
Soil Extract Volume:		(μL)	Soil Aliquot Volu	ime (µL)

#### CONCENTRATION UNITS:

CAS NO. COMPOUND		(μg/L or μg/Kg) UG/L	
123-91-1	1,4-Dioxane	500 R	₩.
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	սյ ՝
75-01-4	Vinyl chloride	10	U
	1,3-Butadiene	1.0	Ũ
74-83-9	Bromomethane	10	Ŭ
76-14-2	Freon-114	10	Ũ
75-00-3	Chloroethane	10	บ
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
107-05-1	Allyl Chloride	10	υĵ
76-13-1	Freon-113	10	Ū
108-05-4	Vinyl acetate	10	U
67-64-1	Acetone	10	ሀጋ" ነ
75-15-0	Carbon disulfide	10	U
109-99-9	Tetrahydrofuran	10	U
75-09-2	Methylene chloride	10	Ü
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	IJ
71-55-6	1,1,1-Trichloroethane	10	Ü
142-82-5	Heptane	10	U
110-82-7	Cyclohexane	10	Ŭ
540-84-1	2,2,4-Trimethylpentane	10	UJ.
56-23-5	Carbon tetrachloride	10	U
67-63-0	2-Propanol	<del>500-</del> R	-£2-
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	Ŭ
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	Ŭ
75-27-4		10	Ü
10061-01-5		10	Ū

6 20 4 GE1171 S66

#### 18

#### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA S	AMP	LE	NO
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LCSW-02-SW

Lab Name:	H2M LABS,	INC.	Contra	ct:	
Lab Code:	10478	Case No.:	KEY-GEI SAS	No.:	SDG No.: GEI171
Matrix: (so	oil/water)	WATER		Lab Sample ID:	0810543-007A
Sample wt/v	/ol: <u>5</u>	(g/mL	ML	Lab File ID:	V\F37482.D
Level: (1	.ow/med)	TOM		Date Received:	09/05/08
% Moisture:	not dec.			Date Analyzed:	09/09/08
GC Column:	DB-624	ID:	0.18 (mm)	Dilution Factor:	1.00
Soil Extrac	ct Volume:		(μL)	Soil Aliquot Volu	ıme (μL)

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) UG/L	Q	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	108-88-3 Toluene		U	
75-07-0	Acetaldehyde	10	U	
25168-05-2	Chlorotoluene	10	U	
10061-02-€	trans-1,3-Dichloropropene	1.0	Ű	
79-00-5	1,1,2-Trichloroethane	1.0	Ű	
127-18-4	Tetrachloroethene	10	Ŭ	
591-78-6	2-Hexanone	10	υ	
124-48-1	Dibromochloromethane	10	U	
106-93-4	1,2-Dibromoethane	10	U	
108-90-7	Chlorobenzene	10	Ŭ	
100-41-4	Ethylbenzene	10	Ŭ	
630-20-6	1,1,1,2-Tetrachloroethane	10	U	
110-54-3	Hexane	10	U	
108-38-3/106-42-3	m,p-Xylene	10	U	
95-47-6	o-Xylene	10	U	
100-42-5	Styrene	10	U	
75-25-2	Bromoform	10	Ü	
98-82-8	Isopropylbenzene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	υ	
103-65-1	n-Propylbenzene	10	U	
108-67-8/622-96-8	1,3,5-Trimethylbenzene/P-ethyltoluen	e 10	U	
95-63-6	1,2,4-Trimethylbenzene	10	U	
541-73-1	1,3-Dichlorobenzene	10	U	
64-17-5	Ethanol	-500→ R	-£%-	
106-46-7	1,4-Dichlorobenzene	10	U	
91-20-3	Naphthalene	10	U	
95-50-1	1,2-Dichlorobenzene	10	U	
87~68-3	Hexachlorobutadiene	10	υJ	
120-82-1	1,2,4-Trichlorobenzene	10	υ	

1 F

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	SAMPLE	
LCS	1-02-SW	-

Contract: \_\_\_\_ Lab Name: H2M LABS, INC. SAS No.: SDG No.: GEI171 Case No.: KEY-GEI Lab Code: 10478 Lab Sample ID: 0810543-007A WATER Matrix: (soil/water) Lab File ID: V\F37482.D (g/mL) MLSample wt/vol: 5 09/05/08 Date Received: Level: (low/med) LOW Date Analyzed: 09/09/08 % Moisture: not dec. Dilution Factor: 1.00 ID: 0.18 (mm) GC Column: DB-624 Soil Aliquot Volume:  $0 (\mu L)$  $(\mu l)$ Soil Extract Volume: CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L Number TICs found: EST.CONC. COMPOUND NAME RT CAS NUMBER

OLM04.2

80/10/C/20 Sel 1711 S68

#### EPA SAMPLE NO.

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

LCSW-02-SW

Lab 1	Name:	H2M LABS,	INC.	Contract:	
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Lab Code: 10478 Case No.: KEY-GEI SAS No.:

SDG No.: GEI171

Matrix: (soil/water) WATER

Lab Sample ID:

0810543-007B

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

A\C42707.D

Level: (low/med) LOW

Date Received:

09/05/08

% Moisture: Decanted: (Y/N) N Date Extracted: 09/09/08

Concentrated Extract Volume: 1000 ( $\mu$ L)

Date Analyzed:

09/12/08

Injection Volume: 2 ( $\mu$ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_

Extraction: (Type) SEPF

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) $UG/L$	Q
108-95-2	Phenol	10	ប
111-44-4	Bis(2-chloroethyl)ether	10	Ŭ
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
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	υ
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	Ü
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	υ
105-67-9	2,4-Dimethylphenol	10	Ũ
111-91-1	Bis(2-chloroethoxy)methane	10	υ
120-83-2	2,4-Dichlorophenol	10	บ
120-82-1	1,2,4-Trichlorobenzene	10	υ
91-20-3	Naphthalene	10	Ü
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	υ
59-50-7	4-Chloro-3-methylphenol	10	υ
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	υ
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	Ü
88-74-4	2-Nitroaniline '	25	U
131-11-3	Dimethylphthalate	10	Ŭ
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	3.0	U
51-28-5	2,4-Dinitrophenol	25	Ü
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U

### EPA SAMPLE NO.

LCSW-	02-SW	

				LCSW-02-SW
Lab Name: H2M LABS,	INC.	Contrac	t:	
Lab Code: 10478	Case No.: KEY	Y-GEI SAS	S No.:	SDG No.: GET171
Matrix: (soil/water)	WATER		Lab Sample ID:	0810543-007B
Sample wt/vol:	1000 (g/mL	) <u>ML</u>	Lab File ID:	A\C42707.D
Level: (low/med)	<u> LOW</u>		Date Received:	09/05/08
% Moisture:	Decanted: (Y/N)	й	Date Extracted:	09/09/08
Concentrated Extract	Volume: <u>1000</u>	(μ <b>L</b> )	Date Analyzed:	09/12/08
Injection Volume:	<u>2</u> (μL)		Dilution Factor:	1.00

GPC Cleanup: (Y/N) N pH:

Extraction: (Type) SEPF

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	Q
121-14-2	2,4-Dinitrotoluene	10	Ü
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	ប
86-73-7	Fluorene	10	υ
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	Ü
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	Ū
120-12-7	Anthracene	1.0	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	υ
91 - 94 - 1	3,3 -Dichlorobenzidine	10	Ü
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	υ
205-99-2	Benzo(b) fluoranthene	10	υ
207-08-9	Benzo(k)fluoranthene	10	UJ* Y
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

(1) Cannot be separated from Diphenylamine

100,000 GEII71 S70

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

LCSW-02-SW

Lab Name:	H2M LABS, INC.				Contract	<del></del>			
Lab Code:	10478	Case No.:	KEY-GEI	SA	S No.:		SDG No	.: <u>GE</u>	<u>1171</u>
Matrix: (soil/wate	er)	WATER				Lab Sample I	D:	0810543	<u>-0078</u>
Sample wt/vol:		<u>1000</u>	(g/mL)	ML		Lab File ID:		A\C4270	7.D
Level: (low/med	i) Lo	OW				Date Receive	d:	09/05/08	į
% Moisture:		Decante	ed:(Y/N)	<u>N</u>		Date Extracte	d:	09/09/08	<u> </u>
Concentrated Ex	tract Volume:		1000	(իլ)		Date Analyze	d:	09/12/08	3
Injection Volume	2:	(µl)				Dilution Facto	or:	1.00	
GPC Cleanup:	1 (N/Y)	 ₫ pH:	********			Extraction: (T	ype)	SEPF	
					C	ONCENTRATIO	ON UNITS:		
Number TICs for	and: <u>1</u>				()	ug/L or µg/Kg)	<u>UG/L</u>		
C	AS NUMBER	(	COMPOUND	NAME		RT	EST.CC	NC.	Q
1		unknown	<del></del>			16.16		2	₽Ĵ

OLM04.2

FORM I SV-TIC

4.2 Walnuts GEITTI STI

# H2M LABS, INC.

575 Broad Hollow Road, Metville NY 11747 (631) 694-3040 FAX: (631) 420-8436 NYSDOHID# 10478

LABORATORY RESULTS

Lab No. : 0810543-007

Sample Information... Type: Surface Water

Origin:

GEI Consultants, Inc. 455 Winding Brook Drive Glastonbury, CT 06033

Attn To: Matt O'Neil

:9/5/2008 8:40:00 AM Collected :9/5/2008 3:25:00 PM

Collected By CM99 Copies To :Original

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Received

Parameter(s)	<u>Results</u> Qualif	ier D.F.	<u>Units</u>	Method Number	<u>Analyzed</u>
Chloride	13600 J	500	rng/L	E300.0	09/12/2008 9:06 PM
Sulfate	1720	200	mg/L	E300.0	09/11/2008 7:18 PM
Nitrogen, Ammonia (As N)	0.58	1	mg/L	E350.1	09/10/2008 1:47 PM
Nitrite as N	< 0.10	1	mg/L	E353.2	09/06/2008 10:20 AM
Nitrate as N	0.11	1	mg/L	E353.2	09/15/2008 12:24 PM
Ortho Phosphate	< 0.0500	1	mg/L	SM4500-P E	09/06/2008 10:10 AM

Client ID. : LCSW-02-SW

Qualifiers:

E - Value above quantitation range

D - Results for Dilution

D.F. = Dilution Factor

Date Reported:

9/22/2008

Joann M. Slavin

Laboratory Manager

1910 CE1171 S72

Duplicate of LCSW-02-SW

3.7

#### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BLIND DUP-01

Lab Name: H2M	LABS, INC	•	Co	ntra	ct:	· · · · · · · · · · · · · · · · · · ·		
Lab Code: 104	<u>78</u> Ca	se No.:	KEY-GEI	SAS	No.:		SDG No.:	GEI171
Matrix: (soil/v	vater)	WATER			Lab	Sample ID:	0810543-0	04A
Sample wt/vol:	<u>5</u>	(g/mL)	WL		Lab	File ID:	V\F37480.1	D
Level: (low/	ned) <u>L</u> C	<u>w</u> C			Date	Received:	09/05/08	
% Moisture: not	dec.				Date	Analyzed:	09/09/08	
GC Column: DE	3-624	ID:	<u>0.18</u> (m	m)	Dilu	ntion Factor:	1.00	
Soil Extract Vo	olume:		(μL)		Soil	i Aliquot Volu	ume	(μ <b>L</b> )

#### CONCENTRATION UNITS:

CAS NO. COMPOUND		(μg/L or μg/Kg) UG/L		
123-91-1	1,4-Dìoxane	-500° R	fu .	
75-71-8	Dichlorodifluoromethane	20	U	
74-87-3	Chloromethane	10	UJ V	
75-01-4	Vinyl chloride	10	U	
106-99-0	1,3-Butadiene	10	υ	
74-83-9	Bromomethane	10	υ	
76-14-2	Freon-114	10	υ	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	10	U·	
75-35-4	1,1-Dichloroethene	10	U	
107-05-1	Allyl Chloride	10	UJ	
76-13-1	Freon-113	10	U	
108-05-4	Vinyl acetate	10	U	
67-64-1	Acetone	10	ប្ប 🦖	
75-15-0	Carbon disulfide	10	Ŭ	
109-99-9	Tetrahydrofuran	10	U	
75-09-2	Methylene chloride	10	U	
156-60-5	trans-1,2-Dichloroethene	10	υ	
1634-04-4	Methyl tert-butyl ether	10	U	
75-34-3	1,1-Dichloroethane	10	U	
156-59-2	cis-1,2-Dichloroethene	10	u u	
78-93-3	2-Butanone	10	U	
67-66-3	Chloroform	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
142-82-5	Heptane	10	U	
110-82-7	Cyclohexane	1.0	U	
540-84-1	2,2,4-Trimethylpentane	10	uľ,	
56-23-5	Carbon tetrachloride	10	U	
67-63-0	2-Propanol	500. R	ტ• ₩	
71-43-2	Benzene	10	υ	
107-06-2	1,2-Dichloroethane	10	Ū	
79-01-6	Trichloroethene	10	U	
78-87-5	1,2-Dichloropropane	10	Ü	
75-27-4	Bromodichloromethane	10	Ū	
10061-01-5	cis-1,3-Dichloropropene	10	υ	

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OLM04.2

USW-02-SU

### 1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BLIND DUP-01

Lab Name:	H2M LABS,	INC.	Co.	ntra	ct:	
Lab Code:	10478	Case No.:	KEY-GEI	SAS	No.:	SDG No.: GEI171
Matrix: (so	il/water)	WATER			Lab Sample ID:	0810543-004A
Sample wt/v	ol: <u>5</u>	(g/mL	) <u>ML</u>		Lab File ID:	V\F37480.D
Level: (1	ow/med)	LOW			Date Received:	09/05/08
% Moisture:	not dec.				Date Analyzed:	09/09/08
GC Column:	DB-624	ID	: <u>0.18</u> (m	m)	Dilution Factor:	1.00
Soil Extrac	t Volume:	g gyada is sancha had	(μL)		Soil Aliquot Volu	nme (μL)

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND (	μg/L or μg/Kg) UG/L	Ω	
108-10-1	4-Methyl-2-pentanone	10	U	
	Toluene	10	U	
108-88-3	Acetaldehyde	10	U	
75-07-0	Chlorotoluene	10	υ	
25168-05-2	trans-1,3-Dichloropropene	10	U	
10061-02-6	1,1,2-Trichloroethane	10	U	
79-00-5	Tetrachloroethene	10	υ	
127-18-4	2-Hexanone	10	U	
591-78-6	Dibromochloromethane	10	. U	
124-48-1		10	U	
	1,2-Dibromoethane	10	Ü	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
630-20-6	1,1,1,2-Tetrachloroethane	10	U	
110-54-3	Hexane	10	Ü	
108-38-3/106-42-3	m,p-Xylene	10	Ü	
95-47-6	o-Xylene	10	Ü	
100-42-5	Styrene	10	U	
75-25-2	Bromoform	10	U	
98-82-8	Isopropylbenzene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	Ü	
103-65-1	n-Propylbenzene			
108-67-8/622-96-8	1,3,5-Trimethylbenzene/P-ethyltoluen	e 10	U	
95-63-6	1,2,4-Trimethylbenzene		U	
541-73-1	1,3-Dichlorobenzene	10	-13%	
64-17-5	Ethanol	-500 R	i u	
106-46-7	1,4-Dichlorobenzene	10		
91-20-3	Naphthalene	10	U	
95-50-1	1,2-Dichlorobenzene	10	U	
87-68-3	Hexachlorobutadiene	10	U_}'&	
120-82-1	1,2,4-Trichlorobenzene	10	U	

20/00 Sel 171 S46

Diplicate of LCSW-00-SW

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# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
BLIND DUP-01

Contract: Lab Name: H2M LABS, INC. Case No.: KEY-GEI SAS No.: SDG No.: GEI171 Lab Code: 10478 Lab Sample ID: 0810543-004A WATER Matrix: (soil/water) V\F37480.D Lab File ID: (g/mL) ML Sample wt/vol: 5 09/05/08 Date Received: Level: (low/med) LOW Date Analyzed: 09/09/08 % Moisture: not dec. Dilution Factor: 1.00 GC Column: DB-624 ID: 0.18 (mm) Soil Aliquot Volume:  $\underline{0}$  ( $\mu$ L) (µ1) Soil Extract Volume: CONCENTRATION UNITS:  $(\mu g/L \text{ or } \mu g/Kg)$ Number TICs found: EST.CONC. COMPOUND NAME CAS NUMBER

4 SEII71 S47

# Duplaste of LCSW-03-SW

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BLIND DUP-01

Lab Name: <u>H2M LABS</u> ,	INC.		Cont	ract:	
Lab Code: 10478	Case	No : KEY-C	BEI	SAS No.:	SDG No.: GEI171
Matrix: (soil/water)	WATER			Lab Sample ID:	0810543-004B
Sample wt/vol:	1000	(g/mL)	M.L.	Lab File ID:	A\C42704.D
Level: (low/med)		TOM		Date Received:	09/05/08

% Moisture: Decanted: (Y/N) N Date Extracted: 09/09/08

Dilution Factor: 1.00

Concentrated Extract Volume:  $1000 \, (\mu L)$  Date Analyzed: 09/12/08

Injection Volume:  $\underline{2}$  ( $\mu L$ )

Extraction: (Type) SEPF GPC Cleanup: (Y/N) N pH:

#### CONCENTRATION UNITS:

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
108-95-2	Phenol	10	Ŭ
111-44-4		10	U
95-57-8		10	<u>U •</u>
541-73-1		10	U
106-46-7		10	U
95-50-1		10	U
95-48-7		10	U
108-60-1		10	U
106-44-5		10	U.
621-64-7		10	U
67-72-1		10	Ŭ
98-95-3		10	Ü
78-59-1		10	U
88-75-5	Annual Section Communication C	10	U
105-67-9		10	U
111-91-1	the state of the s	10	U
120-83-2		10	Ü
120-82-1		10	U
91-20-		10	U
106-47-8		10	Ü
87-68-		10	Ü
59-50-		10	U
91-57-		10	U
77-47-		10	U
88-06-		10	ַ ע
95-95-		25	U
91-58-		10	U
88-74-		25	U
131-11-		10	U
208-96-	AND	10	U
606-20-		10	U
99-09-		25	U
		10	U
83-32-		25	Ü
51-28-		25	U
100-02-	9 Dibenzofuran	10	Ü

John John Marion 
# uplicate of LCSW-02-SW

10 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

BLIND DUP-01

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: KEY-GEI SAS No.:

SDG No.: GEI171

Matrix: (soil/water) WATER

Lab Sample ID:

0810543-004B

Sample wt/vol:

1000

(g/mL) ML

Lab File ID:

A\C42704.D

Level: (low/med)

LOW

Date Received:

09/05/08

% Moisture:

Decanted: (Y/N) N

Date Extracted: 09/09/08

Concentrated Extract Volume: 1000 (µL) Date Analyzed:

09/12/08

Injection Volume:  $2 \qquad (\mu L)$ 

Dilution Factor: 1.00

GPC Clearup: (Y/N) N pH: \_\_\_\_

Extraction: (Type) SEPF

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
121-14-2	2,4-Dinitrotoluene	1.0	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	Ŭ
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	ប
534-52-1	4,6-Dinitro-2-methylphenol	25	U
	N-Nitrosodiphenylamine	10	υ
86-30-6	4-Bromophenyl-phenylether	10	U
101-55-3	Hexachlorobenzene	10	Ū
118-74-1	Pentachlorophenol	25	U
87-86-5	Phenanthrene	10	U
85-01-8		10	Ü
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	Ü
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	υ
85-68-7	Butyl benzyl phthalate	10	Ų
91-94-1	3,3'-Dichlorobenzidine	10	Ū
56-55-3	Benzo(a) anthracene	10	Ū
218-01-9	Chrysene	10	υ
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	Ü
205-99-2	Benzo(b) fluoranthene	10	υJ
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	n
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene		TI-
191-24-2	Benzo(g,h,i)perylene	10	

<sup>(1)</sup> Cannot be separated from Diphenylamine

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Duplicate of LCSW-02-SU

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BLIND DUP-01

Lab Name:	H2M LABS, INC.			COIL	act			
Lab Code:	10478	Case No.:	KEY-GEI	SAS No.	-	SDG N	o.: <u>GEI</u>	<u>1171</u>
Matrix: (soil/water	)	WATER			Lab Samp	ole ID:	0810543	<u>-0048</u>
Sample wt/vol:		<u>1000</u>	(g/mL)	ML	Lab File II	O:	A\C4270-	<u>4.D</u>
Level: (low/med)	) L(	WC			Date Rec	eived:	09/05/08	
% Moisture:		Decant	ed:(Y/N)	N	Date Extr	acted:	09/09/08	:
Concentrated Ext	ract Volume:		1000	(h)	Date Ana	lyzed:	09/12/08	:
Injection Volume:	2	(ایر)			Dilution F	actor:	<u>1.00</u>	
GPC Cleanup: (	Y/N) <u>1</u>	_ <u>l</u> pH:			Extraction	n: (Type)	SEPF	
					CONCENTR	ATION UNITS:		
Number TICs fou	nd: <u>1</u>				(μg/L or μg/K	g) <u>UG/L</u>	2	·
	AS NUMBER	(	COMPOUND	NAME	RT	EST.C	ONC.	Q
	00057-10-3	n-Hexadeca	noic acid		13.	33	3	JN

OLM04.2

4.2 Work 100 OFFICE OFF



575 Broad Hollow Road, MeVille NY 11747 (631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478 LABORATORY RESULTS

Dylicate of LCSW-02 SW

Lab No. : 0810543-004

Sample Information...
Type: Surface Water

Origin:

GEI Consultants, Inc. 455 Winding Brook Drive Glastonbury, CT 06033

Attn To : Matt O'Neil

Collected : 9/5/2008

Received : 9/5/2008 3:25:00 PM

Collected By CM99
Copies To :Original

CC

00					
Parameter(s)	Results Qualifier	D.F.	<u>Units</u>	Method Number	<u>Analyzed</u>
	9940 T	200	mg/L	E300.0	09/11/2008 6:38 PM
Chloride	1490	200	mg/L	E300.0	09/11/2008 6:38 PM
Sulfate	0.57	1	mg/L	E350.1	09/10/2008 1:38 PM
Nitrogen, Ammonía (As N) Nitrite as N	< 0.10	1	mg/L	E353.2	09/06/2008 10:16 AM
Nitrate as N	< 0.10	1	mg/L	E353.2	09/15/2008 12:20 PM
Ortho Phosphate	< 0.0500	1	mg/L	SM4500-P E	09/06/2008 10:04 AM

Client ID. : BLIND DUP-01

Qualifiers:

E - Value above quantitation range

D - Results for Dilution

D.F. = Ditution Factor

Date Reported:

9/22/2008

Joann M. Slavin

Laboratory Manager

3/3/5/68

#### VOLATILE ORGANICS ANALYSIS DATA SHEET

TEN OMETERS IN	EPA	SAMPLE	NO
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LCSW-05-PW

Lab Name: H2M LABS,	INC. Contr	act:	
Lab Code: 10478	Case No.: <u>KEY-GEI</u> SA	S No.:	SDG No.: GEI171
Matrix: (soil/water)	WATER	Lab Sample ID:	0810543-008A
Sample wt/vol: $\frac{5}{}$	(g/mL) ML	Lab File ID:	V\F37483.D
Level: (low/med)	TOM	Date Received:	09/05/08
% Moisture: not dec.		Date Analyzed:	09/09/08
GC Column: DB-624	ID: <u>0.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(μ <b>L</b> )	Soil Aliquot Vol	ume (µL)

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	( $\mu$ g/L or $\mu$ g/Kg) $\underline{\text{UG/L}}$	Q
123-91-1	1,4-Dioxane	<del>500</del> → R	₩ ✓
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	υŢ
75-01-4	Vinyl chloride	10	U
106-99-0	1,3-Butadiene	10	U
74-83-9	Bromomethane	10	υ
76-14-2	Freon-114	10	U
75-00-3	Chloroethane	10	Ü
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
107-05-1	Allyl Chloride	10	UJ V
76-13-1	Freon-113	10	Ŭ
108-05-4	Vinyl acetate	10	U
67-64-1	Acetone	10	UJ
75-15-0	Carbon disulfide	10	Ü
109-99-9	Tetrahydrofuran	10	U
75-09-2	Methylene chloride	10	ŭ
156-60-5	trans-1,2-Dichloroethene	10	Ü
1634-04-4	Methyl tert-butyl ether	10	Ŭ
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	υ
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	Ū
142-82-5	Heptane	10	U
110-82-7	Cyclohexane	1.0	U.
540-84-1	2,2,4-Trimethylpentane	10	U ],
56-23-5	Carbon tetrachloride	10	Ü
67-63-0	2-Propanol	500. R	<del>``</del> }} <b>√</b>
71-43-2	Benzene	10	Ŭ :
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U

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OLM04.2

FORM I VOA - 1

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#### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LAI	BS, INC.	Contra	ct:	
Lab Code: 10478	Case No.:	KEY-GEI SAS	No.:	SDG No.: GEI171
Matrix: (soil/wate	r) <u>WATER</u>		Lab Sample ID:	0810543-008A
Sample wt/vol:	<u>5</u> (g/mL	) WL	Lab File ID:	<u>V\F37483.D</u>
Level: (low/med)	FOM		Date Received:	09/05/08
% Moisture: not de	С.		Date Analyzed:	09/09/08
GC Column: DB-62	<u>4</u> ID	: <u>0.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volum	e:	(μ <b>L</b> )	Soil Aliquot Volu	ime (μL)

#### CONCENTRATION UNITS:

	(	CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
108-10-1	4-Methyl-2-pentanone	1.0	U
108-88-3	Toluene	10	U
75-07-0	Acetaldehyde	10	U
25168-05-2	Chlorotoluene	10	υ
10061-02-6	trans-1,3-Dichloropropene	10	Ü
79-00-5	1,1,2-Trichloroethane	10	υ
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	υ
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	u
100-41-4	Ethylbenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	Ŭ
110-54-3	Hexane	10	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	10	υ
100-42-5	Styrene	10	υ
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8/622-96-8	1,3,5-Trimethylbenzene/P-ethyltoluen	e 10	UU
95-63-6	1,2,4-Trimethylbenzene	10	U
541-73-1	1.3-Dichlorobenzene	10	U
64-17-5	Ethanol	500° R	- th-
106-46-7	1,4-Dichlorobenzene	10	υ
91-20-3	Naphthalene	10	Ŭ
95-50-1	1,2-Dichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	υJ" '
120-82-1	1,2,4-Trichlorobenzene	10	Ü

20/10/01/20 Sept 11/10/20 Sept

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# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	SAMPLE	co-suscess week
	N - 05 - PW	

Contract: Lab Name: H2M LABS, INC. SAS No.: SDG No.: GEI171 Case No.: KEY-GEI Lab Code: 10478 Lab Sample ID: 9810543-008A Matrix: (soil/water) WATER V\F37483.D Lab File ID: (g/mL) MLSample wc/vol: 5 Date Received: 09/05/08 Level: (low/med) LOW 09/09/08 Date Analyzed: % Moisture: not dec. Dilution Factor: 1.00 ID: 0.18 (mm) GC Column: DB-624 Soil Aliquot Volume:  $0 \quad (\mu L)$  $(\mu l)$ Soil Extract Volume: CONCENTRATION UNITS: UG/L (μg/L or μg/Kg) Number TICs found: EST.CONC. RTCOMPOUND NAME CAS NUMBER

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### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEW OWNERS INC	EPA	SAMPLE	МО
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Contract: Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No.: KEY-GEI SAS No.:

SDG No.: GEI171

Matrix: (soil/water) WATER

Lab Sample ID:

0810543-0088

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

Lab File ID:

A\C42708.D

Level: (low/med) LOW

Date Received:

09/05/08

% Moisture: Decanted: (Y/N) N Date Extracted:

09/09/08

Concentrated Extract Volume: 1000 ( $\mu$ L) Date Analyzed:

09/12/08

Injection Volume:  $\underline{2}$  ( $\mu L$ )

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_

Extraction: (Type) SEPF

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	1.0	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	υ
95-50-1	1.2-Dichlorobenzene	1.0	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		10	U
105-67-9		10	U
111-91-1		10	U
120-83-2	- i	10	U
120-82-1		10	<u>U</u>
91-20-3		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	UU
77-47-4	Hexachlorocyclopentadiene	10	Ŭ
88-06-2	2,4,6-Trichlorophenol	10	U
95 - 95 - 4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4		25	U
131-11-3		10	U
208-96-8		10	U
606-20-2		10	U
99-09-2		25	<u> </u>
83-32-9		10	U
	2,4-Dinitrophenol	25	U
	4-Nitrophenol	25	U
	Dibenzofuran	10	U

OLM04.2

FORM I SV- 1

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSW-05-PW

Lab	Name:	H2M LABS,	INC.	Contract:	
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Lab Code: 10478 Case No.: KEY-GEI SAS No.:

SDG No.: GEI171

Matrix: (soil/water) WATER

Lab Sample ID:

0810543-008B

Sample wt/vol: 1000

(g/mL) <u>ML</u>

Lab File ID:

A\C42708.D

Level: (low/med) LOW

Date Received:

09/05/08

% Moisture:

Date Extracted:

09/09/08

Decanted: (Y/N) N

Concentrated Extract Volume: 1000 ( $\mu$ L) Date Analyzed:

09/12/08

Injection Volume:  $\underline{2}$  ( $\mu L$ )

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_

Extraction: (Type) SEPF

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	Ü
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	ŭ
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	Ü
86-30-6	N-Nitrosodiphenylamine	10	Ü
101-55-3	4-Bromophenyl-phenylether	10	U
· · · · · · · · · · · · · · · · · · ·	Hexachlorobenzene	10	U
118-74-1	Pentachlorophenol	25	U
87-86-5	Phenanthrene	10	U
85-01-8	Anthracene	10	U
120-12-7	Carbazole	10	υ
86-71-8		10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	υ
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	ΰ
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	Ü
117-81-7	Bis(2-ethylhexyl)phthalate	10	Ü
117-84-0	Di-n-octyl phthalate	10	Ü
205-99-2	Benzo(b)fluoranthene	10	ับ า
207-08-9	Benzo(k)fluoranthene	The second secon	U
50-32-8	Benzo(a)pyrene	10	<u>u</u>
193-39-5	Indeno(1,2,3-cd)pyrene	10	<u>U</u>
53-70-3	Dibenzo(a,h)anthracene	10	
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1G

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

 SAMPLE NO.
LCSW-05-PW

Lab Name:	H2M LABS, INC.			Contra	ct:			
Lab Code:	10478	Case No.:	KEY-GEI	SAS No.:		SDG No.:	GEI17	1
Matrix: (soil/wate	er)	WATER			Lab Sample ID:	0810	543-00	) <u>8B</u>
Sample wt/vol:		<u>1000</u>	(g/mL)	ML.	Lab File ID:	<u>A\C4</u>	2708.£	Ď
Level: (low/med	j) L(	OW			Date Received:	09/05	5/08	
% Moisture:		Decante	ed:(Y/N)	N	Date Extracted:	09/09	9/08	
Concentrated Ex	dract Volume:		1000	(الم)	Date Analyzed:	09/12	2/08	
Injection Volume	2	(µl)			Dilution Factor:	<u>1.00</u>		
GPC Cleanup:	<u>1</u> (N/Y)	 <u>1</u> pH:			Extraction: (Type	e) <u>SEP</u>	E	
					CONCENTRATION	UNITS:		
Number TICs for	und: <u>1</u>				(µg/L or µg/Kg)	<u>UG/L</u>		~~~~~
C	AS NUMBER	(	COMPOUND	NAME	RT	EST.CONC.		Q
٦	000450-86-7	Phytot Uz	1 KARLIA		13.98		3	JW

401219/2 GEI171 S78 OLM04.2

# H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747 (631) 694-3040. FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Lab No.: 0810543-008

Sample Information... Type: Surface Water

Origin:

GEI Consultants, Inc. 455 Winding Brook Drive Glastonbury, CT 06033 Matt O'Neil Attn To:

Collected

:9/5/2008 7:20:00 AM :9/5/2008 3:25:00 PM

Collected By CM99 Copies To :Original

Received

Parameter(s)	Results		<u>.F.</u>	<u>Units</u>	Method Number	<u>Analyzed</u>
Chloride	17500		500	mg/L	E300.0	09/12/2008 9:20 PM
Sulfate	2270		200	mg/L	E300.0	09/11/2008 7:32 PM
Nitrogen, Ammonia (As N)	0.49		1	mg/L	E350.1	09/10/2008 1:48 PM
Nitrite as N	< 0.10		1	mg/L	£353.2	09/06/2008 10:23 AM
Nitrate as N	0.12		1	mg/L	E353.2	09/15/2008 12:25 PM
Ortho Phosphate	< 0.0500	ı	1	mg/L	SM4500-P E	09/06/2008 10:12 AM

Client ID. : LCSW-05-PW

Qualifiers.

E - Value above quantitation range

D - Results for Dilution

D.F. = Dilution Factor

Date Reported:

9/22/2008

Joann M. Slavin

Laboratory Manager

Land Selection GEII71 S79

#### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSW-05-SW

Lab Name: H2M LABS	, INC.	Contract:	
Lab Code: 10478	Case No.: KEY-GEI	SAS No.:	SDG No.: GEI171
Matrix: (soil/water)	WATER	Lab Sample ID:	0810543-009A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	V\F37484.D
Level: (low/med)	FOM	Date Received:	09/05/08
% Moisture: not dec		Date Analyzed:	09/09/08
GC Column: DB-624	ID: <u>0.18</u>	(mm) Dilution Factor:	1.00
Soil Extract Volume	: (μΙ,)	Soil Aliquot Vol	iume (μL)

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	( $\mu$ g/L or $\mu$ g/Kg) $\underline{\text{UG/L}}$	Q
123-91-1	1,4-Dioxane	-500 R	₩.
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	Uj ·
75-01-4	Vinyl chloride	10	U
106-99-0	1,3-Butadiene	10	U
74-83-9	Bromomethane	10	Ū
76-14-2	Freon-114	10	Ŭ
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	Ŭ
75-35-4	1,1-Dichloroethene	10	U
107-05-1	Allyl Chloride	10	υJ
76-13-1	Freon-113	10	υ
108-05-4	Vinyl acetate	10	U
67-64-1	Acetone	10	UJ
75-15-0	Carbon disulfide	10	U
109-99-9	Tetrahydrofuran	10	U
75-09-2	Methylene chloride	10	ŭ
1.56-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	<u> </u>
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
142-82-5	Heptane	10	U
110-82-7	Cyclohexane	10	U
540-84-1	2,2,4-Trimethylpentane	10	υJ
56-23-5	Carbon tetrachloride	10	U
67-63-0	2-Propanol	-500~ R	_ <del>-</del> &
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	IJ
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	Ü
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	ប

OLM04.2

#### 1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSW-05-SW

Lab Name: H2M LABS,	INC. Contra	ct:	
Lab Code: 10478	Case No.: <u>KEY-GEI</u> SAS	No.:	SDG No.: GEI171
Matrix: (soil/water)	WATER	Lab Sample ID:	0810543-009A
Sample wt/vol: $\frac{5}{}$	(g/mL) ML	Lab File ID:	V\F37484.D
Level: (low/med)	row	Date Received:	09/05/08
% Moisture: not dec.	2 	Date Analyzed:	09/09/08
GC Column: DB-624	ID: <u>0.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(μ <u>L</u> )	Soil Aliquot Volv	ume (µL)

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	μg/L or μg/Kg) <u>UG/L</u>	Q
108-10-1	4-Methyl-2-pentanone	10	Ŭ
108-88-3	Toluene	10	Ü
75 - 07 - 0	Acetaldehyde	10	ប
25168-05-2	Chlorotoluene	10	Ü
10061-02-6	trans-1,3-Dichloropropene	10	Ü
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106~93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
110-54-3	Hexane	10	U
108-38-3/106-42-3	m,p-Xylene	1.0	Ŭ
95-47-6	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
103-65-1	n-Propylbenzene	10	U
108-67-8/622-96-8	1,3,5-Trimethylbenzene/P-ethyltoluene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
64-17-5	Ethanol	500 R	f-
106-46-7	1,4-Dichlorobenzene	10	Ŭ
91-20-3	Naphthalene	10	IJ
95-50-1	1,2-Dichlorobenzene	10	Ŭ
87-68-3	Hexachlorobutadiene	10	บฏ
120-82-1	1,2,4-Trichlorobenzene	10	U

John Sellins

1 F

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	SAMPLE	
LCSV	1-05-SW	

Lab Name:	H2M LABS,	INC.	Cont	ract:			
Lab Code:	10478	Case No	: KEY-GEI SAS No	.:	SDG No.: GE	<u> 1171</u>	
Matrix: (soi:	l/water)	WATER		Lab Sampl	e ID: <u>081054</u>	3-0097	
Sample wt/vo	i: <u>5</u>		(g/mL) ML	Lab File	ID: <u>V\F374</u>	84.D	
Level: (lo	w/med) <u>l</u>	-OW		Date Rece	ived: <u>09/05/</u>	08	
% Moisture: 1	not dec.			Date Anal	yzed: <u>09/09/</u>	80	
GC Column: ]	DB-624	ID: <u>0.18</u>	(mm)	Dilution	Factor: 1.00		
Soil Extract	Volume:		(µ1)	Soil Aliq	puot Volume:	<u>0</u>	(µL)
			CON	CENTRATION UNI	TS:		
Number TICs	found:	0	(μg,	/L or μg/Kg)	UG/L		- 4
	CAS NUMBER		COMPOUND NAME	RT	EST, CONC.	Q	

OLM04.2

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSW-05-SW

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: KEY-GEI SAS No.:

SDG No.: GEI171

Matrix: (soil/water) WATER

Lab Sample ID:

0810543-009B

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

Lab File ID:

A\C42709.D

Level: (low/med) LOW

Date Received: 09/05/08

% Moisture: Decanted: (Y/N) N Date Extracted: 09/09/08

Concentrated Extract Volume:  $1000 \, (\mu L)$  Date Analyzed: 09/13/08

Injection Volume:  $2 (\mu L)$ 

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_

Extraction: (Type) SEPF

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	( $\mu$ g/L or $\mu$ g/Kg) $\underline{ t UG/L}$ Q	•

108-95-2	Phenol	10	Ü
111-44-4	Bis(2-chloroethyl)ether	10	υ
95-57-8	2-Chlorophenol	10	ΰ
	1,3-Dichlorobenzene	10	υ
541-73-1	1,4-Dichlorobenzene	10	ט
106-46-7	1,2-Dichlorobenzene	10	U
95-50-1	2-Methylphenol	10	U
95-48-7	2,2'-oxybis(1-Chloropropane)	1.0	U
108-60-1	4-Methylphenol	10	U
106-44-5	N-Nitroso-di-n-propylamine	10	U
621-64-7	N-Nitroso-di-Propyramine  Hexachloroethane	10	υ
67-72-1		10	U
98-95-3	Nitrobenzene	10	υ
78-59-1	Isophorone	10	υ
88-75-5	2-Nitrophenol	10	ט ו
105-67-9	2,4-Dimethylphenol	10	υ
111-91-1	Bis(2-chloroethoxy)methane	10	υ
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	ט ו
87-68-3	Hexachlorobutadiene	10	<del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del>
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	- u
77-47-4	Hexachlorocyclopentadiene		<del></del>
88-06-2	2,4,6-Trichlorophenol	10	u u
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	
88-74-4	2-Nitroaniline	25	<u> </u>
1.31-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	Ü
99-09-2	3-Nitroaniline	25	ט
83-32-9	Acenaphthene	1.0	<u> </u>
51-28-5	2,4-Dinitrophenol 2	25	ū
100-02-7	. 1	25	U
132-64-9		10	U
132-64-9	DINCHIOLOGIC	3	

10 2 July 10 J

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPLE	NO
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CCM-	05-50	

tract:

Lab Code: 10478

Case No.: KEY-GEI

SAS No.:

SDG No.: GEI171

Matrix: (soil/water) WATER

 $(\mu L)$ 

Lab Sample ID:

0810543-009B

Sample wt/vol:

1000

ML(g/mL)

Lab File ID:

A\C42709.D

Level: (low/med)

LOW

Date Received:

09/05/08

% Moisture:

Decanted: (Y/N)

N

Date Extracted:

09/09/08

Concentrated Extract Volume:

1000

Date Analyzed:

09/13/08

Injection Volume:

2  $(\mu \mathbf{L}_i)$ 

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N

рН;

Extraction: (Type) SEPF

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	υ
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	Ü
86-73-7	Fluorene	10	ប
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	Ü
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
	Phenanthrene	10	U
85-01-8	Anthracene	10	U
120-12-7	Carbazole	10	บ
86-74-8	Di-n-butyl phthalate	10	υ
84-74-2	Fluoranthene	10	U
206-44-0		10	Ü
129-00-0	Pyrene Butyl benzyl phthalate	10	U
85-68-7	3,3°-Dichlorobenzidine	10	υ
91-94-1	Benzo(a)anthracene	10	Ü
56-55-3		10	U
218-01-9	Chrysene	10	υ
117-81-7	Bis(2-ethylhexyl)phthalate	10	Ū
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	υŋ
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		

<sup>(1)</sup> Cannot be separated from Diphenylamine

1G

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

LCSW-05-SW

Lab Namo	e: <u>H2M LABS.</u>	INC.			Contra	act:	<del></del>			
Lab Code	e: <u>10478</u>	Cas	se No.:	KEY-GEI	SAS No.:			SDG No	.: <u>GEI</u>	<u>171</u>
Matrix: (s	oil/water)	<u>W</u> A	<u>ATER</u>			ł	Lab Sample ID:		0810543	009B
Sample v		<u>100</u>	00	(g/mL)	<u>ML</u>	١	Lab File ID:		A\C4270	<u>9.D</u>
Level: (I	ow/med)	LOW				İ	Date Received:		09/05/08	
% Moistu			Decant	ed:(Y/N)	N		Date Extracted:		09/09/08	
	ated Extract Volume	:		1000	(الإ)		Date Analyzed:		09/13/08	
Injection	Volume:	2 (µf	)				Dilution Factor:		<u>1.00</u>	
•	anup: (Y/N)	И	pH:				Extraction: (Typ	e)	SEPF	
						CO	NCENTRATION	UNITS:		
Number '	TICs found:	3				(µg.	/L or µg/Kg)	<u>UG/L</u>		
(1405.11201	CAS NUMBER	₹		COMPOUND	NAME		RT	EST.CC	DNC.	Q
;	1. 000057-10-3		exadeca	noic acid			13.33		5	JN
	2. 000057-11-4		adecano				14.17		9	JN
	3 007683-64-9		ialene				15.90		3	L JN

3, 007683-64-9

Squalene

OLM04.2

Solida Sel 171 S85

## HZM LABS, NC.

575 Broad Hollow Road, Metalle NY 11747 (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Lab No.: 0810543-009

Sample Information... Type: Surface Water

Origin:

GEI Consultants, Inc. 455 Winding Brook Drive Glastonbury, CT 06033

Attn To: Matt O'Neil

Client ID.: LCSW-05-SW

Collected

:9/5/2008 7:40:00 AM

Received

:9/5/2008 3:25:00 PM

Collected By CM99 Copies To : Original

CC

						A STATE OF THE PARTY OF THE PAR
Parameter(s)	Results	Qualifier	D.F.	<u>Units</u>	Method Number	<u>Analyzed</u>
Chloride	13900		500	mg/L	E300.0	09/12/2008 10:00 PM
Sulfate	1790		200	mg/L	E300.0	09/11/2008 8:12 PM
Nitrogen, Ammonia (As N)	0.28		1	mg/L	E350.1	09/10/2008 1:49 PM
Nitrite as N	< 0.10		1	mg/L	E353.2	09/06/2008 10:24 AM
Nitrate as N	0.11		1	mg/L	E353.2	09/15/2008 12:29 PM
Ortho Phosphate	< 0.0500	1	1	mg/L	SM4500-P E	09/06/2008 10:14 AM

Qualifiers.

E - Value above quantitation range

D - Results for Dilution

D.F. = Dilution Factor

Date Reported :

9/22/2008

Joann M. Slavin

Laboratory Manager

Solved Sell 71 S86

Page 9 of 9

EPA S	АМР	$_{ m LE}$	NO
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FIELD BLANK

Lab Name: 1	H2M LABS, I	NC.	Co	ntract:			
Lab Code: 1	10478	Case No.:	KEY-GEI	SAS No.:		SDG No.:	GEI171
Matrix: (soi	.l/water)	WATER		Lab	Sample ID:	0810543-0	05A
Sample wt/vo	ol: <u>5</u>	(g/mL)	MT	Lab	File ID:	V\F37471.	<u>D</u>
Level: (lo	ow/med)	LOW		Date	Received:	09/05/08	
& Moisture:	not dec.			Date	Analyzed:	09/08/08	

GC Column: DB-624

ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume:

(μL) Soil Aliquot Volume (μL)

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	( $\mu$ g/L or $\mu$ g/Kg) $\underline{\text{UG/L}}$	Q
		500° R	U 7
123-91-		10	Ū
75-71-		10	บไ"เ
74-87-		10	Ü
75-01-		10	U
106-99-		10	U
74-83-		10	υ
76-14-		10	Ŭ
75-00-		10	U
75-69-		10	υ
75-35-		10	UJ"
107-05-		10	U
76-13-		10	υ
108-05-		10	บไ
67-64-	1 Acetone	1.0	บ
75-15-		10	Ü
109-99-	9 Tetrahydrofuran	10	υ
75-09-		10	u
156-60-	5 trans-1,2-Dichloroethene	10	U
1634-04-	4 Methyl tert-butyl ether	10	U
75-34-	3 1,1-Dichloroethane	10	U
156-59-			U
78-93-	3 2-Butanone	10	<del>  U</del>
67-66-		10	U
71-55-	6 . 1,1,1-Trichloroethane	10	U
142-82-	5 Heptane	10	
110-82	7 Cyclohexane	10	U
540-84	1 2,2,4-Trimethylpentane	10	uj
56-23-		: 10	U
67-63		500. R	{J <sub>a</sub>
71-43	The state of the s	10	U
107-06		10	U
79-01		10	U
78-87		10	υ
75-27		10	U
10061-01		10	Ŭ

EPA SAMPLE NO.

FIELD BLANK

Lab Name: H2M LABS,	INC. Contra	act:	
Lab Code: 10478	Case No.: KEY-GEI SAS	Ио.:	SDG No.: GEI171
Matrix: (soil/water)	WATER	Lab Sample ID:	0810543-005A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	V\F37471.D
Level: (low/med)	LOW	Date Received:	09/05/08
% Moisture: not dec.		Date Analyzed:	09/08/08
GC Column: DB-624	ID: <u>0.18</u> (mun)	Dilution Factor:	1.00
Soil Extract Volume:	(μL)	Soil Aliquot Vol	tume (μL)

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	μg/L or μg/Kg) UG/L	Q
108-10-1	4-Methyl-2-pentanone	10	Ŭ
108-88-3	Toluene	10	U
75-07-0	Acetaldehyde	10	υ
	Chlorotoluene	10	Ŭ
25168-05-2	trans-1,3-Dichloropropene	10	U
10061-02-6	1,1,2-Trichloroethane	10	Ŭ
	Tetrachloroethene	10	υ
127-18-4	2-Hexanone	10	บ
591-78-6	Dibromochloromethane	. 10	U
124-48-1	1,2-Dibromoethane	10	υ
106-93-4	Chlorobenzene	10	Ŭ
108-90-7		10	U
100-41-4	Ethylbenzene 1,1,1,2-Tetrachloroethane	10	U
630-20-6	The state of the s	10	Ü
110-54-3	Hexane	10	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	10	Ŭ
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	Ŭ
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
103-65-1	n-Propylbenzene		U
108-67-8/622-96-8	1,3,5-Trimethylbenzene/P-ethyltoluen	10	U
95-63-6	1,2,4-Trimethylbenzene	10	Ü
541-73-1	1,3-Dichlorobenzene	500→ R	- <del>U</del> -
64-17-5	Ethanol	10	U
106-46-7	1,4-Dichlorobenzene	1.0	U
9320-3	Naphthalene	10	U
95-50-1	1,2-Dichlorobenzene		UJ (
87-68-3	Hexachlorobutadiene	10	U U
120-82-1	1,2,4-Trichlorobenzene	10	1

of a GEII71 SS3

OLM04.2

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## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	MPLE	NO.	
 	BLAN	<	

Contract: Lab Name: H2M LABS, INC. Case No.: KEY-GEI SAS No.: SDG No.: GEI171 Lab Code: 10478 Lab Sample ID: 0810543-005A WATER Matrix: (soil/water) V\F37471.D Lab File ID: ML(g/mL) Sample wt/vol: 5 Date Received: 09/05/08 Level: (low/med) LOW 09/08/08 Date Analyzed: % Moisture: not dec. Dilution Factor: 1.00 ID: 0.18 (mm) GC Column: DB-624 Soil Aliquot Volume:  $\underline{0}$  ( $\mu$ L)  $(\mu\perp)$ Soil Extract Volume: CONCENTRATION UNITS:  $(\mu g/L \text{ or } \mu g/Kg)$ Number TICs found: EST.CONC. RT COMPOUND NAME CAS NUMBER

EPA S	AMPLE	NO
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FIELD BLANK-2

Lab	Name:	H2M LABS,	INC.	Contract:	
-----	-------	-----------	------	-----------	--

Lab Code: 10478 Case No.: KEY-GEI SAS No.: SDG No.: GEI180

Matrix: (soil/water) WATER Lab Sample ID: 0811481-002A

Sample wt/vol:  $\frac{5}{2}$  (g/mL) ML Lab File ID:  $\frac{\text{V} \setminus \text{P37820.D}}{\text{V} \setminus \text{P37820.D}}$ 

Level: (low/med) LOW Date Received: 09/26/08

% Moisture: not dec.

Date Analyzed: 10/01/08

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: ( $\mu$ L) Soil Aliquot Volume ( $\mu$ L)

### CONCENTRATION UNITS:

AS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
		-500 €	-fr- /
	1,4-Dioxane Dichlorodifluoromethane	10	υ
75-71-8	Chloromethane	10	U
74-87-3		10	υ
75-01-4	Vinyl chloride	10	υ
106-99-0	1,3-Butadiene	10	Ü
74-83-9	Bromomethane	10	U
76-14-2	Freon-114	10	υ
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	Ü
107-05-1	Allyl Chloride	10	Ü
76-13-1	Freon-113	10	U
108-05-4	Vinyl acetate	10	UJ
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
109-99-9	Tetrahydrofuran	10	Ü
75-09-2	Methylene chloride	10	Ü
156-60-5	trans-1,2-Dichloroethene	10	UT
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	1 0
142-82-5	Heptane	10	T 0
110-82-7	Cyclohexane	10	U
540-84-1	2,2,4-Trimethylpentane		U
56-23-5	Carbon tetrachloride	10	บู
67-63-0	2-Propanol		U
71-43-2	Benzene	10	1 0
107-06-2	1,2-Dichloroethane	10	
79-01-6		10	U
78-87-5	1,2-Dichloropropane	10	0
75-27-4	Bromodichloromethane -	10	U
10061-01-5	cis-1,3-Dichloropropene	10	0

Soil Extract Volume:

EPA	SAMPLE	ΝО
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FIELD BLANK-2

Lab Name: H2M LA	BS, INC.	Conti	ract:	
Lab Code: 10478	Case No.:	KEY-GEI SA	S No.:	SDG No.: GEI180
Matrix: (soil/wate	er) <u>WATER</u>		Lab Sample ID:	0811481-002A
Sample wt/vol:	<u>5</u> (g/m	nL) <u>ML</u>	Lab File ID:	V\F37820.D
Level: (low/med)	<u> LOW</u>		Date Received:	09/26/08
% Moisture: not d	ec.		Date Analyzed:	10/01/08
GC Column: DB-63	2 <u>4</u> I	D: 0.18 (mm)	Dilution Factor	<u>1.00</u>
cail Extract Volu	me:	(μ <u>ι</u> .)	Soil Aliquot Vo	lume (µL)

### CONCENTRATION UNITS:

	COMPOUND (µg	/L or pg/Kg) UG/L	Q	
CAS NO.		10	Ų	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	10	υ	
75-07-0	Acetaldehyde	10	Ü	
25168-05-2	Chlorotoluene	10	υ	
10061-02-6	trans-1,3-Dichloropropene	10	Ü	
79-00-5	1,1,2-Trichloroethane	10	υ	
127-18-4	Tetrachloroethene	10	υ	
591-78-6	2-Hexanone	10	Ü	
124-48-1	Dibromochloromethane	10	U	
106-93-4	1,2-Dibromoethane	10	Ü	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	1.0	υ	
630-20-6	1,1,1,2-Tetrachloroethane	10	U	
110-54-3	Hexane	10	U	
108-38-3/106-42-3	m,p-Xylene	10	U	
95-47-6	o-Xylene	10	υ	
100-42-5	Styrene	10	Ü	
75-25-2	Bromoform	10	Ü	
98-82-8	Isopropylbenzene	10	υ	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
103-65-1	n-Propylbenzene	10	D	
108-67-8/622-96-8	1,3,5-Trimethylbenzene/P-ethyltoluene	10	i u	
95-63-6	1,2,4-Trimethylbenzene	10	1 0	
541-73-1	1,3-Dichlorobenzene	-500° R	-()*	
64-17-5	Ethanol		0	
106-46-7	1,4-Dichlorobenzene	10	1 - <del>0</del>	
91-20-3	Naphthalene	10	U	
95-50-1	1,2-Dichlorobenzene	10	UJ	
87-68-3	Hexachlorobutadiene	10	1 0.3	
120-82-1	1,2,4-Trichlorobenzene	10	<u> </u>	

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## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. FIELD BLANK-2

Lab Wame:	H2M LABS, INC	<u> </u>		00000000					
Lab Code:	10478	Case No.	: KEY-GET	SAS No.:		SDG No	.: <u>GEI18</u>	30	
Matrix: (soi)	l/water)	WATER			Lab Sample	e ID:	0811481-0	<u> </u>	
Sample wt/vo.			(g/mL)	ML	Lab File 1	ID:	<u>V\F37820</u>	<u>. D</u>	
	w/med) LCW	1			Date Recei	ived:	09/26/08		
% Moisture:	not dec.				Date Analy	yzed:	10/01/08		
GC Column:	DB-624	ID: 0.18	(mm)		Dilution	Factor:	1.00		
Soil Extract	Volume:		(pl)		Soil Aliqu	uot Volume	:	0	(µL)
				CONCENT	RATION UNI	TS:			
Number TICs	found:	0		. (μg/L o	r μg/Kg)		UG/L		}
	CAS NUMBER		COMPOUND N	AME	RT	EST.CO	ONC.	Q	

EPA SAMPLE NO.

FIELD BLANK

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478 Case No.: KEY-GEI SAS No.:

SDG No.: GEI171

Matrix: (soil/water) WATER

Lab File ID:

0810543-005B

Sample wt/vol:  $\underline{1000}$  (g/mL)  $\underline{\text{ML}}$ 

Lab Sample ID:

A\C42705.D

Level: (low/med) LOW

Date Received:

09/05/08

% Moisture:

Decanted: (Y/N) N

Date Extracted: 09/09/08

Concentrated Extract Volume: 1000 ( $\mu$ L)

Date Analyzed: 09/12/08

Injection Volume:  $\underline{2}$  ( $\mu L$ )

Dilution Factor: 1.00

GPC Cleanup: (Y/N)  $\underline{N}$  pH:

Extraction: (Type) SEPF

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	υ
541-73-1	1,3-Dichlorobenzene	10	Û
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	Ŭ
108-60-1	2,2[-oxybis(1-Chloropropane)	1.0	Ŭ
106-44-5	4-Methylphenol	10	υ
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	Ü
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	<u> </u>
120-83-2	2,4-Dichlorophenol	1.0	U
120-83-2	1,2,4-Trichlorobenzene	1.0	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3		10	Ŭ
59-50-7		10	<u> </u>
91-57-6		10	u
77-47-4		10	U
88-06-2		10	U
95-95-4		25	U
91-58-7		10	U
88-74-4		25	Ü
131-11-3		10	U
208-96-8		10	U
		10	υ
606-20-2 99-09-2		25	υ
		10	บ
83-32-9		25	U
51-28-5		25	ľ
100-02-7		10	Ü
132-64-9	Dibenzofuran	1 10	

FIELD BLANK

Lab	Name:	H2M LABS,	INC.	Cont	ract:	
Lab	Code:	10478	Case No.:	KEY-GEI	SAS No.:	SDG No.: GEI171

 Matrix:
 (soil/water)
 WATER
 Lab Sample ID:
 0810543-005B

 Sample wt/vol:
 1000
 (g/mL)
 ML
 Lab File ID:
 A\C42705.D

Level: (low/med)  $\underline{LOW}$  Date Received:  $\underline{09/05/08}$ 

% Moisture: Decanted: (Y/N) N Date Extracted: 09/09/08

Concentrated Extract Volume: 1000 ( $\mu$ L) Date Analyzed: 09/12/08

Injection Volume:  $\underline{2}$  ( $\mu L$ ) Dilution Factor:  $\underline{1.00}$ 

GPC Cleanup: (Y/N)  $\underline{N}$  pH: Extraction: (Type)  $\underline{SEPF}$ 

#### CONCENTRATION UNITS:

121-14-2   2,4-Dinitrotoluene   10	CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
84-66-2       Diethylphthalate       10       U         7005-72-3       4-Chlorophenyl-phenylether       10       U         86-73-7       Fluorene       10       U         100-01-6       4-Nitroaniline       25       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         87-86-5       Pentachlorobenzene       10       U         87-86-5       Pentachlorophenol       25       U         85-01-8       Phenanthrene       10       U         120-12-7       Anthracene       10       U         86-74-8       Carbazole       10       U         86-74-8       Carbazole       10       U         84-74-2       Di-n-butyl phthalate       10       U         129-00-0       Pyrene       10       U         85-68-7       Butyl benzyl phthalate       10       U         91-94-1       3,3'-Dichlorobenzidine       10       U         218-01-9       Chrysene       10       U         117-81-7       Bis (2-ethylhexyl)	121-14-2	2,4-Dinitrotoluene	10	U
7005-72-3    4-Chlorophenyl-phenylether			10	U
86-73-7   Pluorene   10			10	U
100-01-6    4-Nitroaniline			10	U
S34-52-1		4-Nitroaniline	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         86-74-8       Carbazole       10       U         84-74-2       Di-n-butyl phthalate       10       U         206-44-0       Fluoranthene       10       U         129-00-0       Pyrene       10       U         85-68-7       Butyl benzyl phthalate       10       U         91-94-1       3,3'-Dichlorobenzidine       10       U         218-01-9       Chrysene       10       U         117-81-7       Bis (2-ethylhexyl) phthalate       1       J         117-84-0       Di-n-octyl phthalate       1       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         53-70-3			25	U
101-55-3    4-Bromophenyl-phenylether			10	υ
118-74-1   Hexachlorobenzene   10   U	the same of the sa		10	Ü
87-86-5       Pentachlorophenol       25       U         85-01-8       Phenanthrene       10       U         120-12-7       Anthracene       10       U         86-74-8       Carbazole       10       U         84-74-2       Di-n-butyl phthalate       10       U         206-44-0       Fluoranthene       10       U         129-00-0       Pyrene       10       U         85-68-7       Butyl benzyl phthalate       10       U         91-94-1       3,3'-Dichlorobenzidine       10       U         56-55-3       Benzo(a) anthracene       10       U         218-01-9       Chrysene       10       U         117-81-7       Bis(2-ethylhexyl) phthalate       1       J         117-84-0       Di-n-octyl phthalate       1       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			10	υ
85-01-8         Phenanthrene         10         U           120-12-7         Anthracene         10         U           86-74-8         Carbazole         10         U           84-74-2         Di-n-butyl phthalate         10         U           206-44-0         Fluoranthene         10         U           129-00-0         Pyrene         10         U           85-68-7         Butyl benzyl phthalate         10         U           91-94-1         3,3'-Dichlorobenzidine         10         U           56-55-3         Benzo(a)anthracene         10         U           218-01-9         Chrysene         10         U           117-81-7         Bis(2-ethylhexyl)phthalate         1         J*           117-84-0         Di-n-octyl phthalate         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	The second secon	Pentachlorophenol	25	U
120-12-7   Anthracene	The same of the sa		10	U
86-74-8       Carbazole       10       U         84-74-2       Di-n-butyl phthalate       10       U         206-44-0       Fluoranthene       10       U         129-00-0       Pyrene       10       U         85-68-7       Butyl benzyl phthalate       10       U         91-94-1       3,3'-Dichlorobenzidine       10       U         56-55-3       Benzo(a) anthracene       10       U         218-01-9       Chrysene       10       U         117-81-7       Bis (2-ethylhexyl) phthalate       1       J'         117-84-0       Di-n-octyl phthalate       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			10	U
84-74-2       Di-n-butyl phthalate       10       U         206-44-0       Fluoranthene       10       U         129-00-0       Pyrene       10       U         85-68-7       Butyl benzyl phthalate       10       U         91-94-1       3,3'-Dichlorobenzidine       10       U         56-55-3       Benzo(a)anthracene       10       U         218-01-9       Chrysene       10       U         117-81-7       Bis (2-ethylhexyl)phthalate       1       J'         117-84-0       Di-n-octyl phthalate       10       U         205-99-2       Benzo(b) fluoranthene       10       U         207-08-9       Benzo(k) fluoranthene       10       UJ'         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		1	10	U
206-44-0   Fluoranthene   10   U		Di-n-butyl phthalate	10	U
129-00-0         Pyrene         10         U           85-68-7         Butyl benzyl phthalate         10         U           91-94-1         3,3°-Dichlorobenzidine         10         U           56-55-3         Benzo(a) anthracene         10         U           218-01-9         Chrysene         10         U           117-81-7         Bis (2-ethylhexyl) phthalate         1         J           117-84-0         Di-n-octyl phthalate         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			10	U
85-68-7         Butyl benzyl phthalate         10         U           91-94-1         3,3'-Dichlorobenzidine         10         U           56-55-3         Benzo(a)anthracene         10         U           218-01-9         Chrysene         10         U           117-81-7         Bis(2-ethylhexyl)phthalate         1         J'           117-84-0         Di-n-octyl phthalate         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		Pyrene	10	υ
91-94-1         3,3 - Dichlorobenzidine         10         U           56-55-3         Benzo(a) anthracene         10         U           218-01-9         Chrysene         10         U           117-81-7         Bis (2-ethylhexyl) phthalate         1         J           117-84-0         Di-n-octyl phthalate         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			10	U
56-55-3         Benzo(a) anthracene         10         U           218-01-9         Chrysene         10         U           117-81-7         Bis(2-ethylhexyl) phthalate         1         J           117-84-0         Di-n-octyl phthalate         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		3,3'-Dichlorobenzidine	10	υ
218-01-9   Chrysene			10	U
117-81-7       Bis(2-ethylhexyl)phthalate       1       J         117-84-0       Di-n-octyl phthalate       10       U         205-99-2       Benzo(b)fluoranthene       10       U         207-08-9       Benzo(k)fluoranthene       10       UJ*         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		Chrysene	10	
117-84-0         Bi-n-octyl phthalate         10         U           205-99-2         Benzo(b) fluoranthene         10         U           207-08-9         Benzo(k) fluoranthene         10         U 3°           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		1	1	J
205-99-2   Benzo(b) fluoranthene   10   U	The second secon		10	
207-08-9   Benzo(k) fluoranthene   10   UJ*			10	
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		Benzo(k)fluoranthene	10	uj i
193-39-5         Indeno(1,2,3-cd)pyrene         10         U           53-70-3         Dibenzo(a,h)anthracene:         10         U	The same are a superior of the same and the		10	U
53-70-3 Dibenzo(a,h)anthracene: 10 U	CONTRACTOR OF THE CONTRACTOR O		10	U
			10	U
	191-24-2	Benzo(g,h,i)perylene	10	Ŭ

(1) Cannot be separated from Diphenylamine

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.	
FIELD BLANK	

Lab Name:	H2M LABS, INC.			`	OOHII BCI.				
Lab Code:	10478	Case No.:	KEY-GE	<u>:</u> 1 SAS	6 No.: _		SDG No	.: <u>GE</u> I	<u>171</u>
Matrix: (soil/wate	er)	<u>WATER</u>				Lab Sample I	D:	0810543	<u>-005B</u>
Sample wt/vol:		<u>1000</u>	(g/mL)	ML		Lab File ID:		A\C4270	<u>5.D</u>
Level: (low/me	d) L	OW				Date Receive	d:	09/05/08	
% Moisture:		Decant	ed:(Y/N)	N		Date Extracte	d:	09/09/08	
Concentrated E	xtract Volume:		1000	(µI)		Date Analyze	d:	09/12/08	
Injection Volume	e: 2	(الإ)				Dilution Facto	or:	<u>1.00</u>	
GPC Cleanup:	(Y/N) <u>1</u>	<u>и</u> рН:	***********			Extraction: (T	уре)	<u>SEPF</u>	
					CC	ONCENTRATION	ON UNITS:		
Number TICs fo	ound: 1				(բյ	g/L or µg/Kg)	<u>UG/L</u>		· · · · · · · · · · · · · · · · · · ·
	CAS NUMBER		COMPOUN	D NAME		RT	EST.CC	NC.	Q
	007683-64-9	Squalene				15.90		3	JN

OLM04.2

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### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLK-2

Contract: Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No.: KEY-GEI SAS No.:

SDG No.: GEI180

Matrix: (soil/water) WATER

Lab Sample ID:

0811481-0028

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

Lab File ID:

A\C43003.D

Level: (low/med) <u>LOW</u>

Date Received:

09/26/08

% Moisture: Decanted: (Y/N) N Date Extracted: 10/01/08

Concentrated Extract Volume:  $1000 \, (\mu L)$  Date Analyzed: 10/02/08

Injection Volume:  $\underline{2}$  ( $\mu$ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N PH:

Extraction: (Type) SEPF

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	Q
108-95-2	Phenol	10	υ
111-44-4	Bis(2-chloroethyl)ether	10	Ü
95-57-8	2-Chlorophenol	10	Ű
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	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	υ
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	Ü
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	<u> </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	1.0	Ü
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	Ű
95-95-4	2,4,5-Trichlorophenol	25	บ
91-58-7	2-Chloronaphthalene	10	UJ
88-74-4	2-Nitroaniline	25	UJ
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	Ü
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	Ű
51-28-5	2,4-Dinitrophenol	25	υŢ
100-02-7		25	Ü
132-64-9	Dibenzofuran	10	ΰ

OLM04.2

FORM I SV- 1

EPA SAMPLE NO.

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD BLK-2

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: KEY-GEI ŞAS No.:

Matrix: (soil/water) WATER

Lab Sample ID:

0811481-002B

SDG No.: GEI180

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

Lab File ID:

A\C43003.D

Level: (low/med) LOW

Dace Received:

09/26/08

% Moisture: Decanted: (Y/N) N

Date Extracted: 10/01/08

Concentrated Extract Volume: 1000 ( $\mu$ L)

Date Analyzed: 10/02/08

Injection Volume:  $\underline{2}$  ( $\mu L$ )

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_

Extraction: (Type) SEPF

#### CONCENTRATION UNITS:

(μg/L or μg/Kg) <u>UG/L</u> Q COMPOUND CAS NO.

121-14-2	2,4-Dinitrotoluene	10	υ
84-66-2	Diethylphthalate	10	υ
7005-72-3	4-Chlorophenyl-phenylether	10	Ū
86-73-7	Fluorene	10	υ
100-01-6	4-Nitroaniline	25	Ŭ
534-52-1	4,6-Dinitro-2-methylphenol	25	Ü
86-30-6	N-Nitrosodiphenylamine	10	ū
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	ַ
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	Ü
86-74-8	Carbazole	1.0	U
84-74-2	Di-n-butyl phthalate	10	Ū
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	υ
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,37-Dichlorobenzidine	1.0	U
56-55-3	Benzo(a)anthracene	10	บ
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	υ
117-84-0	Di-n-octyl phthalate	10	Ü
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	1.0	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	i u

(1) Cannot be separated from Diphenylamine

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

3

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FIELD BLK-2

Lab Name	e: <u>H2</u> l	M LABS, INC.				Contra	ct:			
Lab Code	: <u>10</u> 4	<u> 178</u>	Case No.:	KEY-GEI	[ 8	SAS No.:		SDG No	o.: <u>GE</u> I	180
Matrix: (so	oil/water)		WATER				Lab Sample I	D:	0811481	-002B
Sample w	√l/vol:		<u>1000</u>	(g/mL)	ML		Lab File ID:		A\C4300	<u>3.D</u>
Level: (le	ow/med)	L	OW				Date Receive	ed:	09/26/08	
% Moistui	re:		Decant	ed:(Y/N)	N		Date Extracte	ed:	10/01/08	
Concentra	ated Extrac	t Volume:		1000	(µI)		Date Analyze	ed:	10/02/08	
Injection \	Volume:	2	(µt)		•		Dilution Facto	or:	<u>1.00</u>	
•	anup: (Y/N	1 (	 <u>I</u> рН:				Extraction: (T	уре)	SEPF	
	, ,	,					CONCENTRATION	ON UNITS:		
Number 3	FICs found:	<u>6</u>					(µg/L or µg/Kg)	<u>UG/L</u>		
[	CAS	NUMBER		COMPOUND	MAN C	E	RT	EST.C	ONC.	Q
-	1 ,		unknown (7	.5)			7.50		2	<u>J</u>
<u></u>	2. 0000	57-10-3	n-Hexadeca	noic acid			13.08		2	JN

unknown (13.65)

unknown (14.49)

unknown (15.04)

Octadecanoic acid

3

6.

000057-11-4

13.65

13.95

14.49

15.04

OLM04.2 CE1180 836

## HZM LABS, INC.

575 Broad Hollow Road, Metville NY 11747 (631) 694-3040. FAX: (631) 420-8436. NYSDOH ID#10478

LABORATORY RESULTS

Lab No.: 0810543-005

Sample Information...

Type: Field Blank

Origin:

GEI Consultants, Inc. 455 Winding Brook Drive Glastonbury, CT 06033 Attn To: Matt O'Neil

Collected :9/5/ Received :9/5/

:9/5/2008 1:10:00 PM :9/5/2008 3:25:00 PM

Collected By CM99
Copies To :Original

CC

	_					
Parameter(s)	<u>Results</u>	Qualifier	<u>D.F.</u>	<u>Units</u>	Method Number	Analyzed
Chloride	< 2.00		1	mg/L	E300.0	09/11/2008 6:51 PM
Sulfate	< 5.00		1	mg/L	£300.0	09/11/2008 6:51 PM
Nitrogen, Ammonia (As N)	< 0.10		1	mg/L	E350.1	09/10/2008 1:44 PM
Nitrite as N	< 0.10		1	mg/L	E353.2	09/06/2008 10:17 AM
Nitrate as N	< 0.10		1	mg/L	E353.2	09/15/2008 12:22 PM
Ortho Phosphate	< 0.0500	•	1	mg/L	SM4500-P E	09/06/2008 10:06 AM

Client ID. : FIELD BLANK

Qualifiers:

E - Value above quantitation range

D - Results for Dilution

D.F. = Dilution Factor

Date Reported:

9/22/2008

Joann M. Slavin

Laboratory Manager

9,516,000 SELLTI SS8

## H2M LABS, NC.

575 Broad Hollow Road, Mielville NY 11747 (631) 694-3040 . FAX: (631) 420-8436 NYSDOHID#10478

LABORATORY RESULTS

Lab No. : 0811481-002

Sample Information...

Type: Field Blank

Origin:

GEI Consultants, Inc. 455 Winding Brook Drive Glastonbury, CT 06033 Attn To: Matt O'Neil

1 :9/25/2008 4:30:00 PM

Collected Received

:9/26/2008 11:07:00 AM

Collected By CM99
Copies To :Original

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Parameter(s)	<u>Results</u>	Qualifier	D.F.	<u>Units</u>	Method Number	Analyzed
Chloride	< 2.00		1	mg/L	E300.0	10/01/2008 8:57 PM
Sulfate	< 5.00		1	mg/L	E300.0	10/01/2008 8:57 PM
Nitrogen, Ammonia (As N)	< 0.10		1	mg/L	E350.1	09/29/2008 1:48 PM
Nitrite as N	< 0.10		1	mg/L	E353.2	09/26/2008 5:25 PM
Nitrate as N	< 0.10		1	mg/L	E353.2	10/02/2008 2:50 PM
Ortho Phosphate	< 0.05		1	mg/L	SM4500-P E	09/27/2008 10:33 AM

Client ID. : FIELD BLANK-2

Qualifiers:

E - Value above quantitation range

D - Results for Dilution

D.F. = Dilution Factor

Date Reported :

10/6/2008

Joann M. Slavin

Laboratory Manager

S GEII8

#### 1A

## VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB 090508

Lab Name:	H2M LABS, ]	INC.	Co	ontract	t:			
Lab Code:	10478	Case No.:	KEY-GEI	SAS N	io.:		SDG No.:	GEI171
Matrix: (so	il/water)	WATER		I	Lab :	Sample ID:	0810543-0	10A
Sample wt/v	ol: <u>5</u>	(g/mL	) <u>ML</u>	1	Lab :	File ID:	V\F37472.	<u>D</u>
Level: (l	ow/med)	FOM		1	Date	Received:	09/05/08	
% Moisture:	not dec.			1	Date	Analyzed:	09/08/08	
GC Column:	DB-624	ID	: <u>0.18</u> (n	am) I	Dilu	tion Factor:	1.00	
Soil Extrac	t Volume:		(μL)	i	Soil	Aliquot Volu	we	(μĽ)

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	$(\mu g/L \text{ or } \mu g/Kg) \frac{UG/L}{L}$	Q
123-91-1	1,4-Dioxane	<del>500</del> ~ B	-fJr- ,
75-71-8	Dichlorodifluoromethane	10	υ
74-87-3	#	10	ប្ប
75-01-4	Vinyl chloride	10	Ü
106-99-0	1,3-Butadiene	10	U
74-83-9	Bromomethane	10	U
76-14-2	Freon-114	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
107-05-1	Allyl Chloride	10	υŢ
76-13-1	Freon-113	10	U
108-05-4	Vinyl acetate	10	U
67-64-1	Acetone	10	U.T
75-15-0	Carbon disulfide	10	Ü
109-99-9	: Tetrahydrofuran	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	1.0	U
142-82-5	Heptane	10	Ü
110-82-7	Cyclohexane	10	Ü
540-84-1	2,2,4-Trimethylpentane	10	UJ
56-23-5	Carbon tetrachloride	10	U
67-63-0	2-Propanol	500- R	- <del>U</del> -
71-43-2	Benzene	10	U
107-06-2		10	U
79-01-6	Trichloroethene	10	υ
78-87-5		10	Ü
75-27-4	Bromodichloromethane	10	U
10061-01-5		10	ט
1006±-01-5		1	

GE1171 S8

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## 1B

### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

тв 090508

Lab Name: H2M LAB	s, INC.	Contra	.ct:	
Lab Code: 10478	Case No.:	KEY-GEI SAS	No.:	SDG No.: GEI171
Matrix: (soil/water	water		Lab Sample ID:	0810543-010A
Sample wt/vol:	<u>5</u> (g/mL	) WI	Lab File ID:	<u>V\F37472.D</u>
Level: (low/med)	LOW		Date Received:	09/05/08
% Moisture: not dec	:.		Date Analyzed:	09/08/08
GC Column: DB-624	ID	: <u>0.18</u> (mm)	Dilution Factor:	1.00
Coil Patroot Wolume	•	(uL)	Soil Aliquot Volu	ume (μL)

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	μg/L or μg/Kg) UG/L	Q
108-10-1	4-Methyl-2-pentanone	10	Ü
108-88-3	Toluene	10	U
75-07-0	Acetaldehyde	10	U
25168-05-2	Chlorotoluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U j
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
110-54-3	Hexane	10	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	10	Ü
100-42-5	Styrene	10	Ų
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	Ŭ
103-65-1	n-Propylbenzene	10	U
108-67-8/622-96-8	1,3,5-Trimethylbenzene/P-ethyltoluene	9 10	U
95-63-6	1,2,4-Trimethylbenzene	10	Ü
541-73-1	1,3-Dichlorobenzene	10	U
64-17-5	Ethanol	500 R	-U ~
106-46-7	1,4-Dichlorobenzene	10	υ
91-20-3	Naphthalene	10	Ų
95-50-1	1,2-Dichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	υŢ
120-82-1	1,2,4-Trichlorobenzene	10	U

GE1171 S8

1 F

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	
TB	090508	

Contract: Lab Name: H2M LABS, INC. Case No.: KEY-GEI SAS No.: SDG No.: GEI171 Lab Code: 10478 Lab Sample ID: 0810543-010A Matrix: (soil/water) WATER Lab File ID: V\F37472.D (q/mL) ML Sample wt/vol: 5 Date Received: 09/05/08 Level: (low/med) LOW Date Analyzed: 09/08/08 % Moisture: not dec. Dilution Factor: 1.00 GC Column: DB-624 ID: 0.18 (mm) Soil Aliquot Volume:  $\underline{0}$  ( $\mu$ L) (µl) Soil Extract Volume: CONCENTRATION UNITS: Number TICs found: (μg/L or μg/Kg) UG/L EST. CONC. COMPOUND NAME RT Q CAS NUMBER

EPA SAMPLE NO.

TB 092508

Lab Name:	H2M LABS,	INC.	Co	ntra	ct:	
Lab Code:	10478	Case No.:	KEY-GEI	SAS	No.:	SDG No.: GEI180
Matrix: (so	oil/water)	WATER			Lab Sample ID:	0811481-005A
Sample wt/v	vol: <u>5</u>	(g/mL	) <u>ML</u>		Lab File ID:	<u>V\F37821.D</u>
Level: (1	.ow/med)	row	s <sup>‡</sup>	Ŧ	Date Received:	09/26/08
% Moisture:	not dec.				Date Analyzed:	10/01/08
GC Column:	DB-624	ID	: <u>0.18</u> (m	m	Dilution Factor:	1.00
Soil Extrac	t Volume:	g in special to a simple special to the	(μ <b>L</b> )		Soil Aliquot Volu	ime (μL)

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	( $\mu$ g/L or $\mu$ g/Kg) $\underline{U}$ G/L	Q
123-91-1	1,4-Dioxane	-500° R	₽.
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	Ü
75-01-4	Vinyl chloride	10	<u> </u>
106-99-0	1,3-Butadiene	10	U
74-83-9	Bromomethane	10	0
76-14-2	Freon-114	10	U
75-00-3	Chloroethane	10	υ
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	ŭ
107-05-1	Allyl Chloride	10	U
76-13-1	Freon-113	10	U
108-05-4	Vinyl acetate	10	U
67-64-1	Acetone	10	ប្ប
75-15-0	Carbon disulfide	10	U
109-99-9	Tetrahydrofuran	10	Ū.
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	Ü
1634-04-4	Methyl tert-butyl ether	10	บม
75-34-3	1,1-Dichloroethane	10	Ü
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	Ü
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
142-82-5	Heptane	10	0
110-82-7	Cyclohexane	10	U
540-84-1	2,2,4-Trimethylpentane	10	U
56-23-5	Carbon tetrachloride	10	U
67-63-0	2-Propanol	500	uj
71-43-2	Benzene	10	Ü
107-06-2	1.2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U

3F1180 S5

Soil Extract Volume:

EPA SAMPLE NO.

TB 092508

Lab Name: H2M LABS,	INC.	Contra	ct:	
Lab Code: 10478	Case No.:	KEY-GEI SAS	йо.:	SDG No.: GEI180
Matrix: (soil/water)	WATER		Lab Sample ID:	0811481-005A
Sample wt/vol: 5	(g/mL)	ML	Lab File ID:	<u>V\F37821.D</u>
Level: (low/med)	TOM		Date Received:	09/26/08
% Moisture: not dec.			Date Analyzed:	10/01/08
GC Column: DB-624	ID:	0.18 (mm)	Dilution Factor:	1.00
Soil Extract Volume:		(μ <b>L</b> )	Soil Aliquot Vol	ume (μL)

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND (P	g/L or µg/Kg) <u>UG/L</u>	Q
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	υ
75-07-0	Acetaldehyde	10	U
25168-05-2	Chlorotoluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	υ
127-18-4	Tetrachloroethene	10	Ü
591-78-6	2-Hexanone	10	υ
124-48-1	Dibromochloromethane	10	U
106-93-4	1.2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	Ü
630-20-6	1,1,1,2-Tetrachloroethane	10	U
110-54-3	Hexane	10	U
108-38-3/106-42-3	m,p-Xylene	10	Ū
95-47-6	o-Xylene	10	Ü
100-42-5	Styrene	10	υ
75-25-2	Bromoform	10	Ü
98-82-8	Isopropylbenzene	10	Ü
79-34-5	1,1,2,2-Tetrachloroethane	10	U
103-65-1	n-Propylbenzene	10	Ü
108-67-8/622-96-8	1,3,5-Trimethylbenzene/P-ethyltoluene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
64-17-5		- <del>500</del> - R	₩-
106-46-7	1,4-Dichlorobenzene	10	υ
91-20-3	Naphthalene	10	υ
95-50-1	1,2-Dichlorobenzene	10	Ü
87-68-3	Hexachlorobutadiene	10	UJ
120-82-1	1,2,4-Trichlorobenzene	10	U

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### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

 SAMPLE	NO.	
 092508		

Lab Name: <u>H2M LABS, IN</u>	<u>C.</u>	Contract:					
Lab Code: 10478	Case No	: <u>KEY-GEI</u> SA	s No.:		SDG No.:	GEI180	
Matrix: (soil/water)	WATER			Lab Sample	e ID: <u>0811</u>	481-005A	
Sample wt/vol: 5		(â∖wr) Wr		Lab File 1	D: <u>V\F3</u>	7821.D	
Level: (low/med) LO	}			Date Recei	ived: <u>09/2</u>	6/08	
% Moisture: not dec.				Date Analy	yzed: <u>10/0</u>	1/08	
GC Column: DB-624	ID: 0.18	(mm)		Bilution	Factor: 1.00		
Soil Extract Volume:		(µ1)		Soil Aliq	not Volume:	<u>0</u>	(µL)
CONCENTRATION UNITS:							
Number TICs found:	0		(µg/L or	μg/Kg)	UG/L		<del>-</del> 7
CAS NUMBER		COMPOUND NAME		RT	EST.CONC.	Q	

OEII80 SZ4

OEII80 SZ4

OEII80 SZ4