



May 8, 2013

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Mr. Kent Johnson  
Senior Engineering Geologist  
New York State Dept. of Environmental Conservation  
Division of Environmental Remediation  
Remedial Section B – Remedial Bureau E  
625 Broadway  
Albany, NY 12233-7017

**SUBJECT: Q1 2013 Groundwater Monitoring Program Report  
Safety-Kleen Service Center - 60 Seabro Avenue  
North Amityville, New York**

Dear Mr. Johnson:

This letter serves as the Safety-Kleen Systems, Inc. (Safety-Kleen) first quarter 2013 groundwater monitoring report for the referenced site (**Attachment 1 - Site Map**) Groundwater and soil sampling were completed on March 14, 2013 and soil re-sampling on March 21, 2013. Field services were performed by Basile Environmental Solutions, LLC (BES).

The samples were sent to Test America, Inc. (TA). TA's New Jersey laboratory performed both the Mineral Spirit Range Organics (MSRO) as well as the Volatile Organic Compound (VOC) analyses. TA holds both NY NELAP and NYDOH certifications.

#### **1.0 QUARTERLY GROUNDWATER SAMPLING PROGRAM**

On March 15<sup>th</sup>, 2013 TA notified BES that the DW-1 soil bottom samples were not received within the specified preservation temperature. BES instructed the laboratory to discard the samples. Re-sampling was performed on March 21, 2013. The set was received at the laboratory within acceptable holding and preservation temperatures.

BES determined that ice/cooling packs were not present in the soil sample cooler (they were shipped separately from the water samples) when it was sent to the laboratory. Sampling procedures were reviewed with BES field personnel and the process modified to ensure sufficient cooling materials are placed in coolers prior to shipment.

The following was performed during the monitoring event (as required):

- Measurement of the depth to water (DTW) at each monitoring well, four vapor points and one drywell;
- Monitoring point development for groundwater field/lab parameter measurement;
- Collection of groundwater samples from site monitoring points, and soil samples from one drywell;
- Packing (on ice) and delivery of the sample set to a TA sample collection location, TA courier, or shipment to the laboratory via overnight commercial courier.

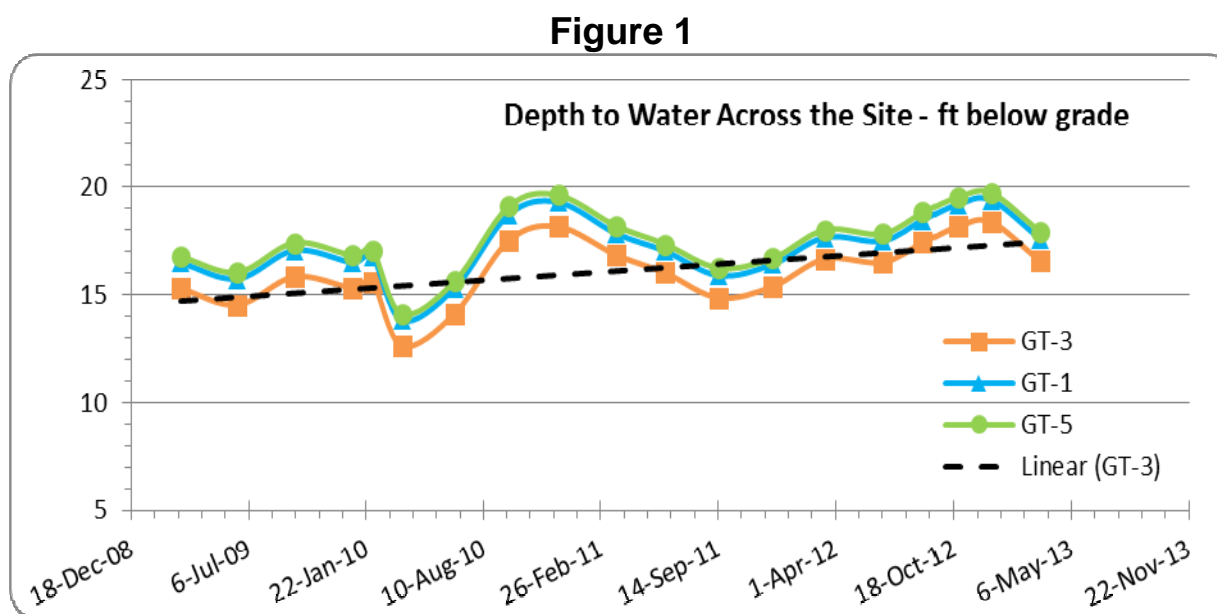
### 1.1 Monitoring Point Field Parameter Collection & Summary

Monitoring wells GT-1 through GT-5, VE-1R, VE-5, VP-A, VP-B, and DW-1 were gauged and field indicator parameters were collected. DW-1 was dry.

Temperature, pH, conductivity, dissolved oxygen, oxidation/reduction potential (ORP), visual turbidity and dissolved ozone were recorded. The field/sampling data is included as **Attachment 2**. The historic to current field data is presented as **Attachment 3 - Table 1**.

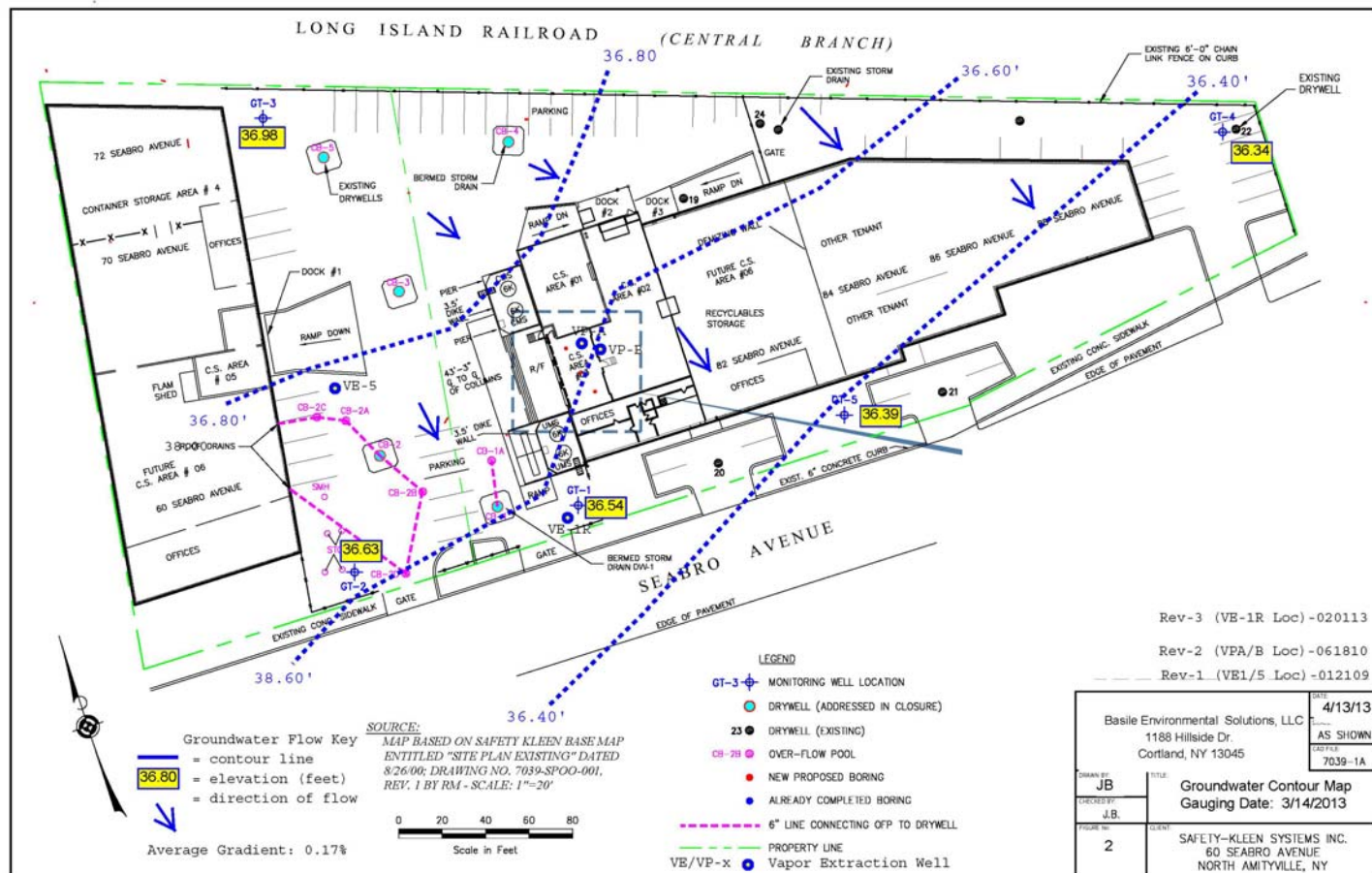
Depth-to-water varied seasonally, and ranged from 15.96 feet (GT-4) to 17.90 (GT-5) feet below grade. Comparatively, the water table was on average 1.80 feet higher than reported in December 2012; not uncommon for spring conditions.

The depth to water at selected site monitoring wells is presented below as **Figure 1**. The historical data continues to show that the water table is deeper now than reported historically and continues to trend lower.



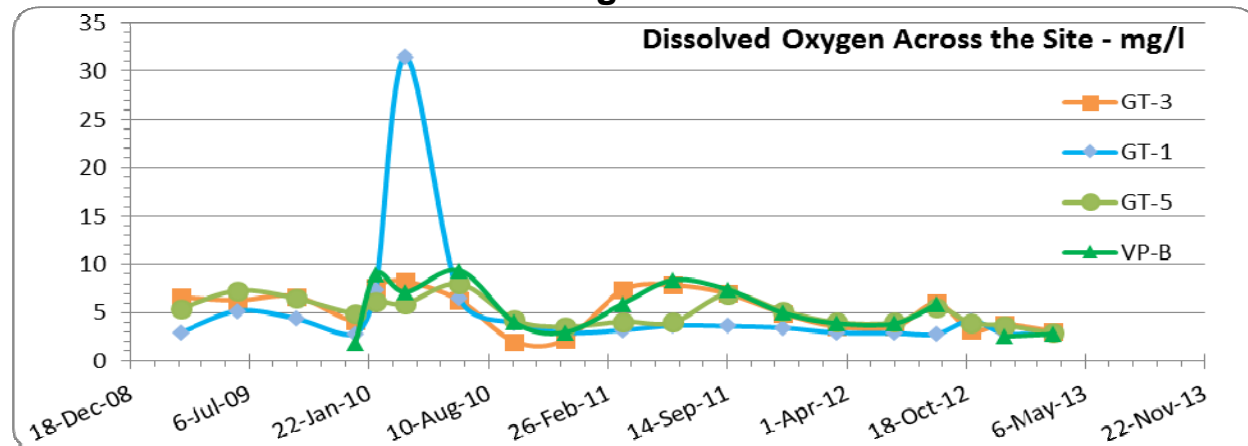
**Figure 2** depicts the flow conditions for March 14, 2013. The direction of groundwater flow was generally consistent with historic trends; south-southeasterly. The average gradient was measured at 0.17 % versus 0.16% as reported for December 2012.

**Figure 2**



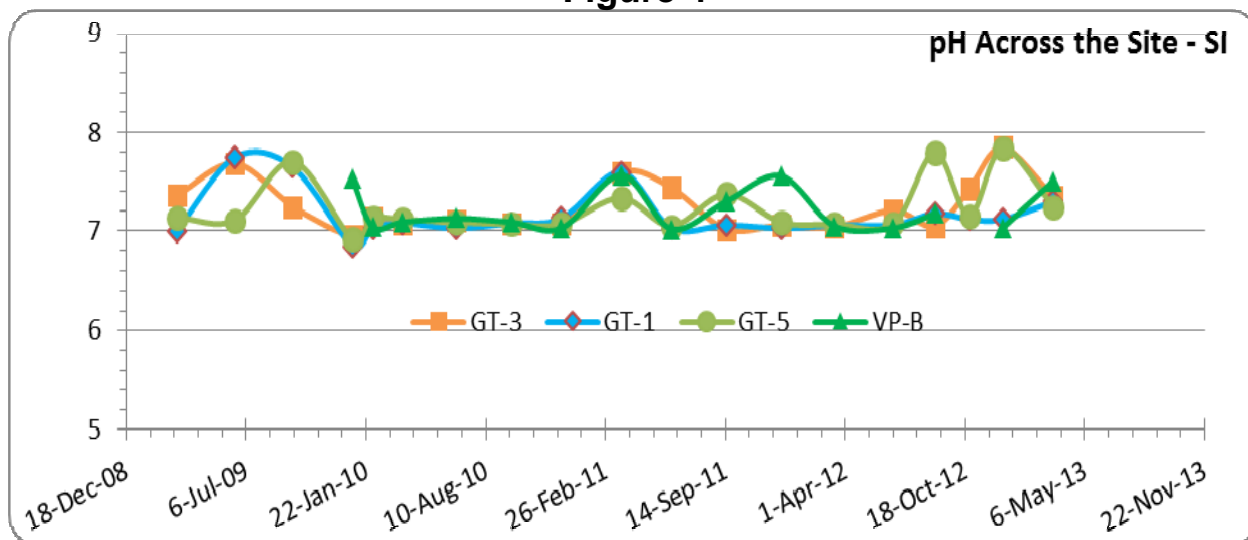
The DO concentrations on-site were between 1.95 milligrams/liter (mg/l) at VP-A to 4.00 mg/l at GT-4. The DO concentrations are similar to historic levels in the area of GT-1/VE-1.

**Figure 3**



Generally, the pH across the site is relatively neutral (**Figure 4**), and remains within the range (6 - 8) for naturally occurring groundwater.

**Figure 4**



## 1.2 Quarterly Groundwater Sampling

Monitoring wells GT-1, GT-2, GT-3 and GT-5, vapor extraction/monitoring points VE-1R, VE-5, VP-A and VP-B were purged of 3 to 5 well volumes (conditions permitting) of groundwater with a submersible pump or bailer prior to sampling.

Groundwater samples were collected with dedicated, disposable polyethylene bailers and placed into glass containers provided by TA as specified for each analysis. A duplicate sample was collected for quality assurance purposes from well GT-1 and labeled Duplicate.

Samples were kept cool during transport to the laboratory, were accompanied by chain-of-custody documents and a trip blank. The samples arrived at the laboratory within acceptable USEPA and NYSDEC holding times and preservation requirements.

TA analyzed the samples for Volatile Organic Compounds (VOCs) via EPA Method 8260B, and for Mineral Spirit-Range Organics (MSRO) via Modified EPA Method 8015B.

## 1.3 Catch Basin DW-1 Media Sampling

DW-1 did not contain standing water and therefore a soil sample was collected. As noted earlier, the submitted sample was collected on March 21, 2013. Specifically the sample, duplicate, and MS/MSD were retained using a new disposable geoprobe-type acetate sleeve. The sleeve was pushed approximately ½ to 1 foot into the bottom sediments of the dry well and retrieved (sampling from above ground).

The soil/sediment sample was removed from the sleeve, and then Encore<sup>(R)</sup> tubes were used to retain and preserve them (pushed directly into the sample). They were placed in a cooler, on-ice and transported to the laboratory the same day via a TA courier. The samples arrived intact and properly preserved.

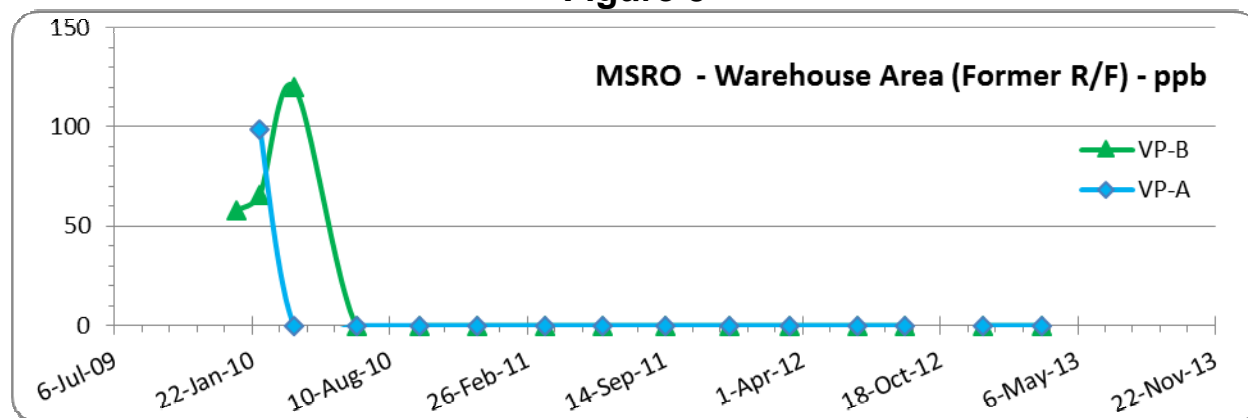
## 2.0 QUARTERLY ANALYTICAL RESULTS

Historic (through September 2009) data are presented in **Attachment 3, Table 2**. The groundwater quality data are summarized in **Attachment 3, Table 3**. The laboratory analytical reports are included as **Attachment 4** (on CD, executive summaries in print).

**VOCS:** Select target VOCs were detected above the method detection limits (EPA Method 8260B) in monitoring points GT-1 (and its duplicate), GT-2, VE-5, VP-A, VP-B and DW-1; none above the respective standards, with the exception at GT-1; 1, 4 dichlorobenzene was detected at 3.6 parts per billion (ppb). The standard is 3 ppb. **Attachment 3 - Table 3** summarizes the positive detections noted at and above the regulatory limit/project-specific lab reporting limits. All detections recorded above the method detection limits can be found in the laboratory reports Executive Summaries (**Attachment 4**).

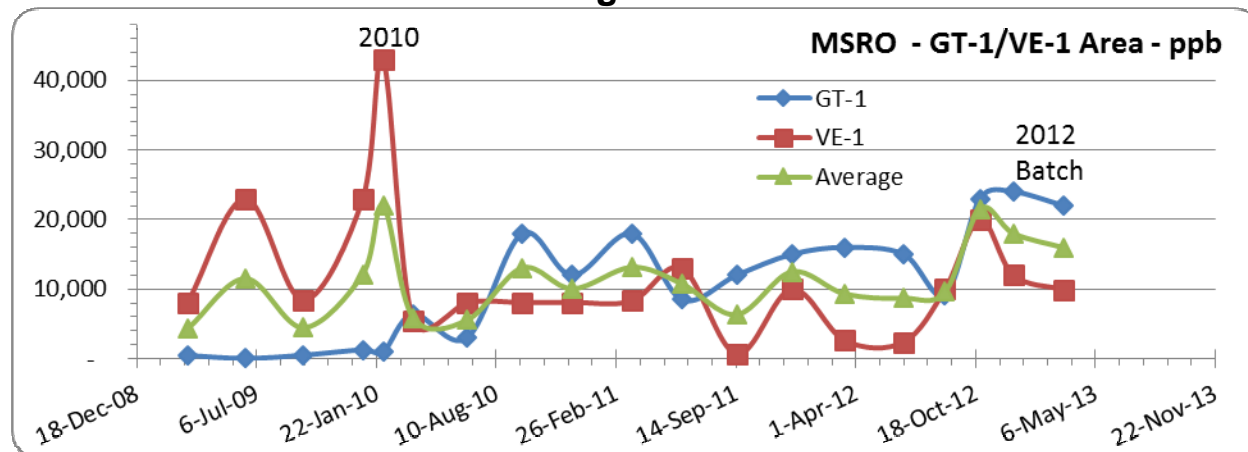
**Mineral Spirit-Range Organics (MSRO):** MSRO was not detected in groundwater at GT-2, 3, 5, VE-5, VP-A or VP-B above the method or reporting limits (50 ppb). MSRO concentrations for the Warehouse Area (Container Storage Area-CSA #3) are presented in **Figure 5** below.

**Figure 5**



MSRO in groundwater was reported at GT-1, its' duplicate and VE-1R. GT-1 concentrations ranged from 21,000 ppb (duplicate) to 22,000 ppb (sample). The standard is 50 ppb. The MSRO concentrations for the GT-1/VE-1 area are presented in **Figure 6** below. Comparatively it was lower at VE-1R (9,900 ppb).

**Figure 6**



MSRO was detected in the DW-1 soil/sediment bottom sample at concentrations ranging from 19,000 micrograms per kilogram (ug/kg - duplicate) to 23,000 ug/kg (sample). The standard for the site is 10,000 ug/kg. The data was provided to the Department in E-mail correspondence on April 15, 2013.

#### 4.0 SUMMARY

1. Groundwater elevations were higher than recorded last period, on average, by 1.80 feet. The direction and magnitude of groundwater flow is generally similar to historic trends.
2. DO concentrations ranged between approximately 2 to 4 mg/l; typical of normal historic levels. Also, the pH varied and remained within the range for naturally occurring groundwater.
3. Neither VOCs nor MSRO have been detected at either VP-A and VP-B for over two years. A similar trend is also reflected at monitoring point VE-5.
4. Both MSRO and VOCs in groundwater remain at concentrations above the requisite standards in the GT-1/VE-1 area; typically as reported this period, MSRO concentrations varied over a broad range.
5. MSRO was detected in DW-1 soil/sediment bottom samples at concentrations above the requisite standard. Factors such as parking lot runoff from normal vehicular traffic as well as a dislodged filter basket likely exacerbated the concentrations reported.

No releases of mineral spirits in the area of DW-1 have, according to site environmental monitoring personnel, occurred during 2012.

#### 5.0 RECOMMENDATIONS

1. Install oxygen releasing compound filter socks at both GT-1 and VE-1R. The increased DO from the material will assist in enhancing natural degradation. Replace filter socks quarterly or as the groundwater monitoring data suggests.
2. Consider performing a batch remedial measure during Q3 – 2013. ISCO as well as in-situ biologic augmentation may need to be considered as noted in the Q4, 2012 report.

*Note: Our consultants completed an analysis of the BOS-200 ® remediation methods and their applicability to the GT-1/VE-1 area. The results will be shared with the Department once reviewed by Safety-Kleen.*

3. Drywell DW-1 Actions:
  - a. Remove the loose sediment from the drywell bottom using a vacuum truck operated by Company personnel. Visually stained sands will be removed.

The contents will be visually and olfactory characterized, and its' physical appearance and condition noted.



- b. Local area clean sand may be used to replace the removed materials, if on-site Company personnel deem it necessary to maintain structural integrity. If so, a Certificate of Contents for the sand fill will be secured, similar to those previously supplied in 2008.
- c. The removed material will be disposed/treated in accordance Federal, State and Local regulations.
- d. Photo-documentation of the cleanout (exterior and interior drywell locations – as accessible from ground level) will be taken.
- e. The bottom sediment samples will be collected as per protocol, during the next scheduled quarterly monitoring event (Q2 June 2013).
- f. The result of the cleanout and photo-documentation will be presented as part of the Q2 quarterly report.
- g. Based on the result of the cleanout and quarterly monitoring programs, further actions, if needed will be taken and discussed with and approved by the NYSDEC prior to implementation.
- h. On-site EHS personnel will be inspecting the filter-basket on a regular basis.
- i. DW-1 maintenance is tentatively scheduled to be performed the week of May 13, 2013.

I am available to discuss the results with you at your convenience. Please do not hesitate to contact me at (513) 956-2172. As always, Safety-Kleen appreciates the Department's assistance with this site.

Sincerely,

**Safety-Kleen Systems, Inc.**



**Stephen D. Fleming, P.E., CHMM**  
Senior Remediation Manager

#### **FIGURES (in text)**

- 1 Depth to Water across the Site
- 2 Groundwater Contour Map – 3/14/2013
- 3 Dissolved Oxygen across the Site
- 4 pH Across the Site
- 5 MSRO – CSA#3 Area (Former R/F)
- 6 MSRO - GT-1/VE-1 Area

**Attachments/CC List – Next Page**

## ATTACHMENTS

- 1 Site Map
- 2 Media Sampling - Field Parameter and Lab Sampling Summaries
- 3 Tables
  - Table 1 – Historic Groundwater Field Data Summary (to Current)
  - Table 2 – Historic Groundwater Chemical Data Summary (Through 9/2009)
  - Table 3 – Historic Groundwater Chemical Data Summary (TA Labs)
- 4 Laboratory Analytical Reports (on CD) – Executive Summaries Attached

## Distribution

Person/Department	Method of Transmission
E. Badaracco, Town of Babylon, HW Dept, Lindenhurst, NY	(hard copy – 1 <sup>st</sup> Class Mail)
C. Horan, NYSDEC, Central Office, Albany, NY	(hard copy – 1 <sup>st</sup> Class Mail)
M. Leary, NYSDEE, Albany, NY	(hard copy – 1 <sup>st</sup> Class Mail)
K. Murphy, NYSDEC Region 1, Stony Brook, NY	(hard copy – 1 <sup>st</sup> Class Mail)–less A3-T2
J. Reidy, USEPA Region II, New York, NY	(hard copy – 1 <sup>st</sup> Class Mail)
T. Cowans, Safety-Kleen, N. Amityville, NY	(hard copy – 1 <sup>st</sup> Class Mail, E-copy)
Branch General Manager, Safety-Kleen, N. Amityville, NY	(electronic copy)
N. Nelhuebel, VP Env. Liabilities, Clean Harbors, Norwell, MA	(compact disk – 1 <sup>st</sup> Class Mail)
J. Basile, Basile Environmental Solutions, LLC, Cortland, NY	(electronic copy)



## **ATTACHMENT 1**

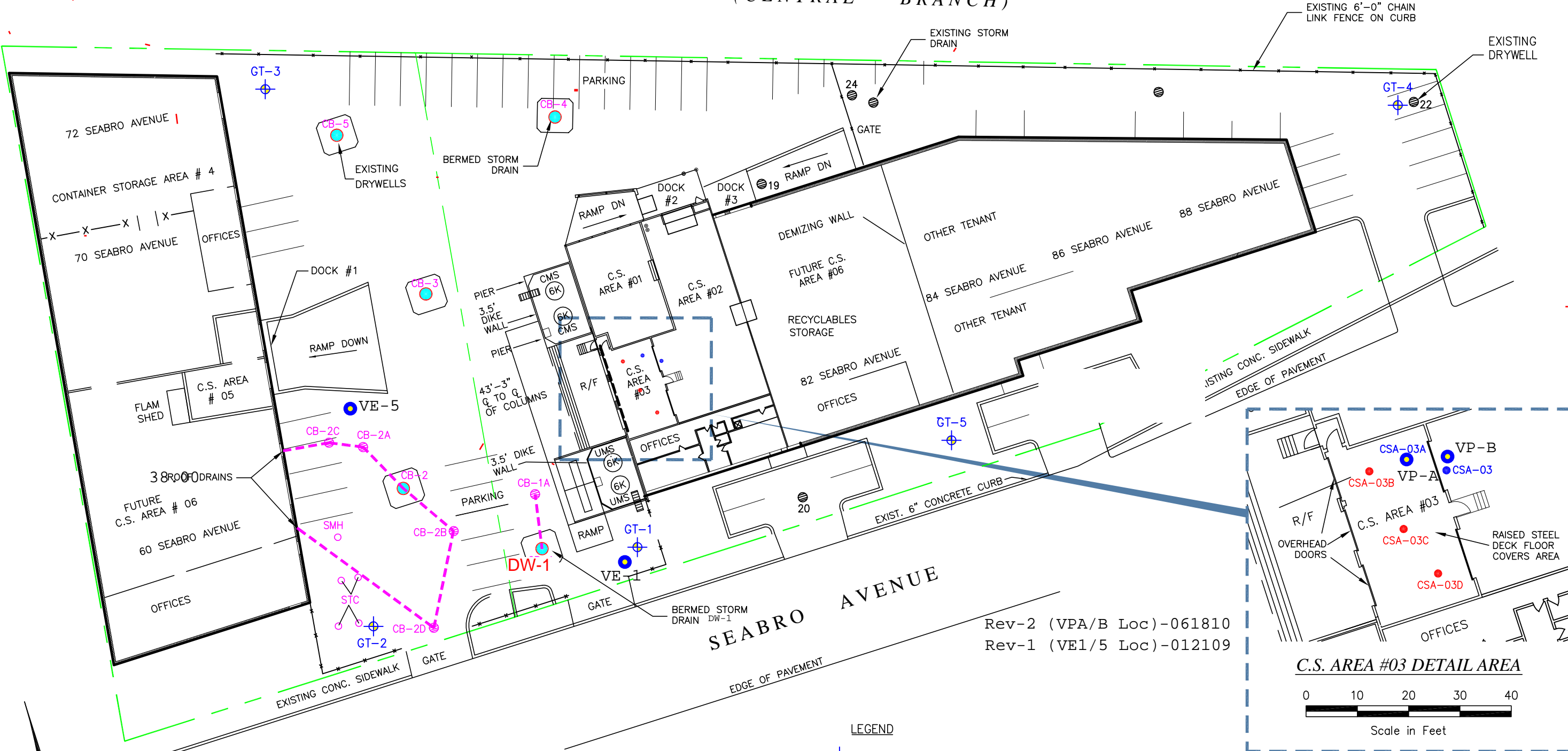
### **Media Sampling - Field Parameter and Lab Sampling Summary**

SAMPLING INSTRUCTIONS & FIELD OBSERVATION LOG										page 1 of 1
GROUNDWATER SAMPLING RECORD										
SITE NAME	Safety-Kleen Service Center						DATE	Mar 14, 2013		
	60 Seabro Ave, N.Amityville, NY						Weather	~sunny, very windy & cold ~ 33 F		
Sampler    Jim Scerra/SEM										
Well Name / ID	GT-1	GT-2	GT-3	GT-4	DW-1	GT-5	Rep VE-1	VE-5	Inside warehouse	
Lab Analysis - EPA 8260b VOCs	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes
Lab Analysis - EPA 8015 MSRO	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes
Duplicate Sample:	Yes				Yes					
Sample Equipment Rinse Blank					Yes					
MS/MSD					Yes					
Collect Field Parameters	Yes	Yes	Yes	Yes-Only	Yes	Yes	Yes	Yes	Yes	Yes
Diameter of Well Casing	2 in	2 in	2 in	2 in	Manhole	2 in	4 in	1 in	2 in	2 in
Depth of Well (ft.)	26.0	27.40	27.48	26.18	10.50	21.2	24.80	24.80	27.5	23.0
Depth to Groundwater (ft.)	17.57	17.50	16.54	15.96	Dry	17.90	17.29	17.07	18.99	17.53
Water Column Height (ft.)	8.43	9.90	10.94	10.22		3.30	7.51	7.73	8.51	5.47
Volume Purged (gal)	3.5	4.5	4.5	4.5		1.5	7.5	1.0	4.0	2.5
Purging Method	Bailer	Bailer	Bailer	Bailer		Bailer	Bailer	Tubing	Bailer	Bailer
Sampling Time	11:45	09:50	09:20	NA	10:15	09:00	12:15	12:45	11:15	10:30
Sample date	3/14/13	3/14/13	3/14/13	3/14/13	3/21/13	3/14/13	3/14/13	3/14/13	3/14/13	3/14/13
GW Visual Observations										
color	clear	lt gray	clear	rust		clear	lt grey	med brn	lt. brn	med brn
sheen	no	no	no	no		no	slight	no	no	no
odor	slight	no	no	no		no	slight	no	no	no
Field Parameters										
Temperature (C)	12.1	12.1	11.1	13.3		12.0	12.0	11.0	12.6	13.2
pH	7.30	7.32	7.35	7.88		7.25	7.21	7.20	7.54	7.51
Conductivity in uS	137	317	314	121		516	169	163	555	503
Dissolved Oxygen (mg/L)	2.90	3.05	3.10	4.00		2.88	2.05	3.71	1.95	2.80
ORP ( Eh (Mv))	-20	-40	9	-10		-8	-50	18	-5	-22
Turbidity (visual / NTU)	low	low	low	high		low	low	high	med	high
Ozone (mg/l)	0.0	0.0	0.0	0.0		0.0	0.0	0.00	0.0	0.0
Comments										
	VE-1 - Out of service - 9/7/2012. VE-1R is replacement vent well and groundwater monitoring point - In service 9/7/2012.									

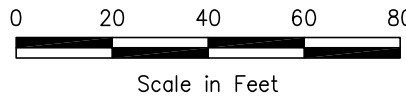
## **ATTACHMENT 2**

### **Site Map**

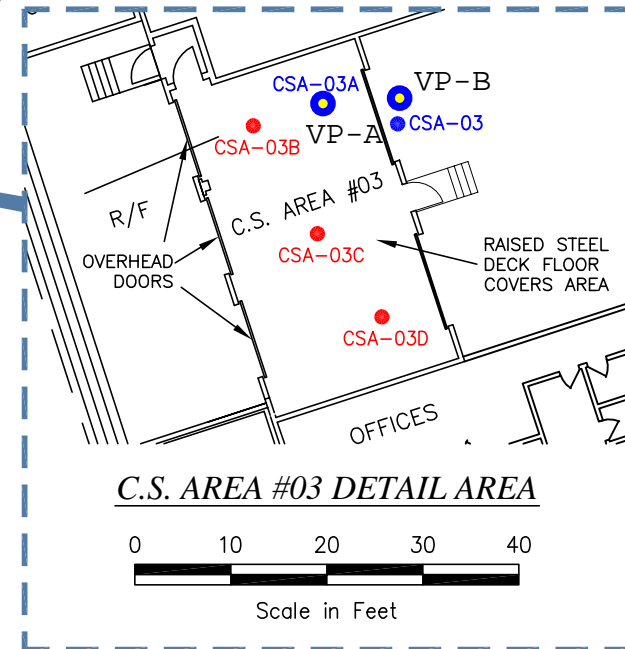
LONG ISLAND RAILROAD (CENTRAL BRANCH)



**SOURCE:**  
MAP BASED ON SAFETY KLEEN BASE MAP  
ENTITLED "SITE PLAN EXISTING" DATED  
8/26/00; DRAWING NO. 7039-SPOO-001,  
REV. 1 BY RM - SCALE: 1"=20'



- LEGEND**
- GT-3 MONITORING WELL LOCATION
  - DRYWELL (ADDRESSED IN CLOSURE)
  - 23 DRYWELL (EXISTING)
  - CB-2B OVER-FLOW POOL
  - NEW PROPOSED BORING
  - ALREADY COMPLETED BORING
  - 6" LINE CONNECTING OFF TO DRYWELL
  - PROPERTY LINE
  - VE/VP-x Vapor Extraction Well



Rev-2 (VPA/B Loc)-061810  
Rev-1 (VE1/5 Loc)-012109

Basile Environmental Solutions, LLC 1188 Hillside Dr. Cortland, NY 13045		5/23/12
DRAWN BY: JB		SCALE: AS SHOWN
CHECKED BY: J.B.		CAD FILE: 7039-1A
FIGURE No: 1		TITLE: SITE PLAN
CLIENT: SAFETY-KLEEN SYSTEMS INC. 60 SEABRO AVENUE NORTH AMITYVILLE, NY		

## **ATTACHMENT 3**

### **TABLES**

**Table 1** – Historic Groundwater Field Data Summary (to Current)

**Table 2** – Historic Groundwater Chemical Data Summary (Through 9/09)

**Table 3** – Historic Groundwater Chemical Data Summary (From 12/09-TA Labs)

**Table 1 - Historic Groundwater Field Data Summary (to Current)**

**KEY**

Temperature recorded in C
Conductivity measured in uS
Dissolved Oxygen measured in mg/l
Eh measured in Mv
Ozone measured in mg/l

**GT-1**

**PARAMETER**

	Depth to	Groundwater						
	Water (ft)	Elevation (ft)	Temperature °C	pH	Cond.	D.O.	Eh	Ozone
24-Mar-05	18.29	35.82	12.5	6.50	180	4.9	30	1.38
27-Jun-05	17.20	36.91	16.6	6.33	343	4.67	25	0.07
20-Sep-05	19.12	34.99	18.5	6.17	345	3.98	55	>1.5
13-Dec-05	15.29	38.82	10.7	6.97	157	5.34	<-80	0.10
15-Mar-06	15.07	39.04	12.8	7.02	203	4.27	51	0.34
22-Jun-06	15.81	38.30	15.0	6.64	217	3.95	-48	-0.01
26-Sep-06	17.00	37.11	17.1	7.05	188	2.32	0	-0.70
19-Dec-06	16.53	37.58	16.6	7.05	184	2.40	-36	0.01
27-Mar-07	16.13	37.98	14.0	7.09	462	2.80	-46	0.09
26-Jun-07	16.16	37.95	15.0	7.14	232	1.96	-32	-0.28
20-Sep-07	17.14	36.97	17.3	7.07	171	3.05	-50	0.01
20-Dec-07	18.56	35.55	16.6	7.14	189	2.65	-47	NA
27-Mar-08	15.36	38.75	13.3	7.10	244	2.80	-125	ND
19-Jun-08	16.39	37.72	14.2	7.09	190	2.88	-135	0.07
25-Sep-08	18.10	36.01	17.3	6.22	144	2.23	2	0.20
18-Dec-08	16.20	37.91	16.0	6.53	149	2.95	85	0.09
12-Mar-09	16.47	37.64	12.2	7.00	459	2.96	163	ND
17-Jun-09	15.73	38.38	13.5	7.75	381	5.20	48	0.10
22-Sep-09	17.05	37.06	17.0	7.65	224	4.40	-29	0.10
30-Dec-09	16.49	37.62	15.0	6.85	182	2.80	91	0.08
02-Feb-10	16.75	37.36	13.5	7.03	179	7.35	45	0.00
24-Mar-10	13.80	40.31	12.0	7.08	603	31.50	165	0.60
22-Jun-10	15.30	38.81	15.5	7.03	182	6.57	32	0.00
22-Sep-10	18.70	35.41	17.8	7.08	176	3.98	28	n/m
15-Dec-10	19.28	34.83	15.3	7.13	157	2.95	10	0.00
24-Mar-11	17.83	36.28	13.0	7.60	198	3.21	25	0.00
16-Jun-11	17.01	37.10	14.7	7.03	259	3.68	20	0.02
15-Sep-11	15.88	38.23	19.0	7.06	197	3.62	-62	0.00
16-Dec-11	16.40	37.71	16.0	7.03	186	3.45	-55	0.00
14-Mar-12	17.65	36.46	14.2	7.06	136	2.95	-60	0.00
20-Jun-12	17.48	36.63	16.8	7.06	138	2.88	-45	0.00
28-Aug-12	18.46	35.65	18.0	7.18	118	2.80	-75	0.00
25-Oct-12	19.18	34.93	18.0	7.12	196	4.22	11	0.20
20-Dec-12	19.38	34.73	15.7	7.12	119	2.88	-50	0.00
14-Mar-13	17.57	36.54	12.1	7.30	137	2.90	-20	0.00

**GT-2****PARAMETER**

Sampling Date	Depth to	Groundwater	Temperature °C	pH	Cond.	D.O.	Eh	Ozone
	Water (ft)	Elevation (ft)						
24-Mar-05	17.15	36.98	12.7	6.41	520	2.8	215	1.50
27-Jun-05	16.95	37.18	15.8	7.23	518	2.78	150	0
20-Sep-05	19.65	34.48	17.1	6.53	500	3.01	125	>1.5
13-Dec-05	15.22	38.91	16.5	7.01	353	3.51	130	>1.5
15-Mar-06	14.97	39.16	12.6	6.87	581	4.56	193	1.11
22-Jun-06	15.69	38.44	16.8	6.50	704	4.45	184	0.07
26-Sep-06	16.89	37.24	17.5	7.09	781	2.93	135	0.10
19-Dec-06	16.42	37.71	14.6	7.06	473	2.88	39	0.27
27-Mar-07	16.01	38.12	13.7	7.09	466	3.05	2	0.45
26-Jun-07	16.03	38.10	15.8	7.12	659	2.76	41	0.60
20-Sep-07	17.02	37.11	17.1	7.08	628	3.11	14	0.27
20-Dec-07	18.48	35.65	14.7	7.07	333	3.10	20	NA
27-Mar-08	15.25	38.88	13.1	7.06	342	2.95	-104	ND
19-Jun-08	16.30	37.83	15.2	7.13	478	2.50	-100	0.05
25-Sep-08	18.00	36.13	16.7	6.21	350	1.58	215	0.09
18-Dec-08	16.15	37.98	15.0	6.38	399	1.97	-100	0.10
12-Mar-09	16.38	37.75	12.9	7.14	500	0.77	167	ND
17-Jun-09	15.63	38.50	13.0	7.63	270	3.29	57	0.06
22-Sep-09	16.95	37.18	17.0	7.01	711	2.00	77	0.40
30-Dec-09	16.40	37.73	14.2	6.95	427	2.05	95	0.02
02-Feb-10	16.66	37.47	12.8	7.14	330	2.84	232	0.00
24-Mar-10	13.70	40.43	12.7	7.11	452	2.00	92	0.00
22-Jun-10	15.10	39.03	16.5	7.14	1064	1.17	-29	0.00
22-Sep-10	18.61	35.52	17.0	7.09	302	2.55	-33	n/m
15-Dec-10	19.22	34.91	13.8	7.09	384	2.80	-40	0.00
24-Mar-11	17.77	36.36	11.6	7.05	530	3.14	-25	0.00
16-Jun-11	16.90	37.23	16.0	7.02	667	3.36	-30	0.00
15-Sep-11	15.77	38.36	19.0	7.06	644	2.92	-141	0.00
16-Dec-11	16.33	37.80	15.1	7.10	476	3.05	-105	0.00
13-Mar-12	17.57	36.56	14.0	7.05	403	3.00	-55	0.00
20-Jun-12	17.40	36.73	16.8	7.08	426	2.68	-38	0.00
28-Aug-12	18.36	35.77	18.5	7.17	398	3.07	-40	0.00
25-Oct-12	19.10	35.03	17.5	7.06	315	2.11	-10	0.00
20-Dec-12	19.30	34.83	15.3	7.42	319	3.50	-55	0.00
14-Mar-13	17.50	36.63	12.1	7.32	317	3.05	-40	0.00



**GT-3****PARAMETER**

<b>Sampling Date</b>	<b>Depth to Water (ft)</b>	<b>Groundwater Elevation (ft)</b>	<b>Temperature °C</b>	<b>pH</b>	<b>Cond.</b>	<b>D.O.</b>	<b>Eh</b>	<b>Ozone</b>
24-Mar-05	17.05	36.47	10.5	8.30	80	5.85	160	1.48
27-Jun-05	15.95	37.57	16.0	6.71	211	7.94	175	0.02
20-Sep-05	18.53	34.99	17.8	6.30	215	6.90	100	0.20
13-Dec-05	14.11	39.41	15.5	7.43	235	7.40	130	0.05
15-Mar-06	13.85	39.67	11.9	7.26	396	9.10	184	0.20
22-Jun-06	14.56	38.96	15.0	7.26	257	6.20	190	-0.12
26-Sep-06	15.80	37.72	18.4	7.08	253	5.66	102	0.04
19-Dec-06	15.34	38.18	16.2	7.05	251	4.20	68	0.05
27-Mar-07	14.91	38.61	12.1	7.07	225	3.95	-33	0.10
26-Jun-07	14.96	38.56	13.5	7.07	205	3.40	50	-0.32
20-Sep-07	15.87	37.65	18.9	7.06	287	4.10	-25	0.18
20-Dec-07	17.40	36.12	14.9	7.11	164	3.15	65	NA
27-Mar-08	14.15	39.37	12.0	7.53	202	3.15	-82	0.22
19-Jun-08	15.20	38.32	14.4	7.09	168	3.00	-75	0.15
25-Sep-08	16.89	36.63	18.1	6.27	172	5.30	182	0.11
18-Dec-08	15.05	38.47	13.0	6.85	89	7.75	93	0.20
12-Mar-09	15.28	38.24	11.7	7.36	214	6.60	125	0.20
17-Jun-09	14.52	39.00	13.3	7.69	219	6.30	68	0.10
22-Sep-09	15.83	37.69	18.0	7.25	300	6.70	50	0.01
30-Dec-09	15.31	38.21	14.4	6.95	186	4.22	97	0.05
02-Feb-10	15.58	37.94	13.2	7.13	215	7.68	243	0.05
24-Mar-10	12.63	40.89	10.9	7.08	174	8.24	118	0.00
22-Jun-10	14.11	39.41	16.0	7.10	226	6.30	49	0.00
22-Sep-10	17.49	36.03	18.0	7.07	176	2.00	55	n/m
15-Dec-10	18.15	35.37	14.2	7.07	120	2.18	15	0.00
24-Mar-11	16.84	36.68	10.7	7.60	160	7.36	15	0.00
16-Jun-11	16.00	37.52	14.0	7.44	226	7.85	21	0.00
15-Sep-11	14.85	38.67	19.0	7.02	158	6.99	-37	0.00
16-Dec-11	15.37	38.15	16.0	7.06	189	4.95	-42	0.00
14-Mar-12	16.65	36.87	14.0	7.04	191	3.58	-30	0.00
20-Jun-12	16.49	37.03	16.0	7.21	82	3.54	-10	0.00
28-Aug-12	17.41	36.11	20.2	7.05	402	6.01	-11	0.00
25-Oct-12	18.15	35.37	18.4	7.43	134	3.18	-11	0.00
20-Dec-12	18.37	35.15	15.3	7.85	97	3.81	25	0.00
14-Mar-13	16.54	36.98	11.1	7.35	314	3.10	9	0.00

**GT-4****PARAMETER**

Sampling Date	Depth to Water (ft)	Groundwater Elevation (ft)	Temperature °C	pH	Cond.	D.O.	Eh	Ozone
24-Mar-05	19.85	32.45	12.8	7.10	90	3.55	120	n/c
27-Jun-05	15.75	36.55	15.4	6.33	133	5.50	105	meter fault
20-Sep-05	16.25	Anomalous WL	16.5	6.93	139	2.52	115	>1.5
13-Dec-05	13.68	38.62	15.5	7.01	141	5.85	115	>1.5
15-Mar-06	13.48	38.82	11.6	6.86	200	4.92	46	>1.5
22-Jun-06	14.22	38.08	13.4	7.26	239	4.50	-56	>1.5
26-Sep-06	15.40	36.90	17.0	7.04	197	2.10	-40	>1.5
19-Dec-06	14.88	37.42	16.3	7.03	172	1.95	-70	>1.5
27-Mar-07	14.51	37.79	12.7	7.06	162	2.02	-55	>1.5
26-Jun-07	14.56	37.74	13.0	7.07	169	2.00	-116	>1.5
20-Sep-07	15.52	36.78	16.8	7.03	149	2.70	-40	over range
20-Dec-07	16.97	35.33	16.4	7.04	130	2.75	-44	NA
27-Mar-08	13.75	38.55	12.2	7.10	149	2.50	-70	over range
19-Jun-08	14.78	37.52	13.4	7.08	112	3.50	-45	over range
25-Sep-08	16.46	35.84	16.0	6.50	174	1.92	-12	over range
18-Dec-08	14.60	37.70	15.7	7.80	111	1.94	-94	over range
12-Mar-09	14.80	37.50	12.0	7.45	188	5.06	103	over range
17-Jun-09	14.06	38.24	12.9	7.88	231	3.50	-45	over range
22-Sep-09	15.44	36.86	16.3	8.22	163	2.93	-8	over range
30-Dec-09	14.85	37.45	15.0	7.75	171	2.05	75	over range
02-Feb-10	15.11	37.19	11.9	7.11	268	5.26	76	over range
24-Mar-10	12.14	40.16	11.8	7.03	160	6.88	22	over range
22-Jun-10	13.61	38.69	14.0	7.08	73	3.01	65	over range
22-Sep-10	17.12	35.18	16.9	7.04	212	2.82	49	n/m
15-Dec-10	17.65	34.65	16.8	7.02	232	3.05	50	0.00
24-Mar-11	16.20	36.10	12.8	7.70	190	4.20	50	0.00
16-Jun-11	15.42	36.88	13.5	7.03	130	3.50	30	0.00
15-Sep-11	14.31	37.99	17.0	7.32	154	3.85	15	0.00
16-Dec-11	14.73	37.57	16.8	7.13	177	3.58	10	over range
14-Mar-12	16.03	36.27	14.3	7.03	197	3.95	11	over range
20-Jun-12	15.89	36.41	15.2	7.05	188	4.20	15	over range
28-Aug-12	16.90	35.40	17.2	7.10	190	2.60	10	over range
25-Oct-12	17.57	34.73	18.0	7.14	150	3.55	20	over range
20-Dec-12	17.73	34.57	16.5	8.20	119	4.05	-22	0.00
14-Mar-13	15.96	36.34	13.3	7.88	121	4.00	-10	0.00

**GT-5****PARAMETER**

<b>Sampling Date</b>	<b>Depth to Water (ft)</b>	<b>Groundwater Elevation (ft)</b>	<b>Temperature °C</b>	<b>pH</b>	<b>Cond.</b>	<b>D.O.</b>	<b>Eh</b>	<b>Ozone</b>
24-Mar-05	17.65	36.64	13.5	6.21	217	3.40	130	1.16
27-Jun-05	17.50	36.79	14.8	6.13	205	7.29	135	0.23
20-Sep-05	19.33	34.96	15.6	6.13	210	6.51	-0.61	0.00
13-Dec-05	15.63	38.66	14.2	6.61	162	6.81	110	0.27
15-Mar-06	15.40	38.89	12.5	6.72	189	7.45	156	0.20
22-Jun-06	16.13	38.16	15.0	6.16	180	6.58	150	0.07
26-Sep-06	17.32	36.97	14.9	7.12	333	6.18	100	0.15
19-Dec-06	16.82	37.47	15.0	7.05	219	5.05	62	0.11
27-Mar-07	16.46	37.83	14.1	7.12	185	4.96	48	0.12
26-Jun-07	16.50	37.79	15.0	7.13	215	3.69	36	0.11
20-Sep-07	17.46	36.83	14.6	7.03	286	4.30	35	0.18
20-Dec-07	18.88	35.41	15.5	7.10	310	4.22	60	NA
27-Mar-08	15.68	38.61	13.5	7.12	219	3.88	-74	ND
19-Jun-08	16.70	37.59	14.5	7.11	189	3.95	-50	0.15
25-Sep-08	18.41	35.88	14.8	6.11	255	4.80	131	0.12
18-Dec-08	16.55	37.74	14.5	6.85	184	7.10	54	0.08
12-Mar-09	16.75	37.54	13.2	7.14	190	5.44	127	0.10
17-Jun-09	16.03	38.26	14.5	7.11	221	7.30	50	0.15
22-Sep-09	17.4	36.89	15.0	7.71	452	6.51	34	0.09
30-Dec-10	16.81	37.48	12.5	6.92	231	4.96	112	0.10
02-Feb-10	17.03	37.26	12.9	7.13	315	6.21	113	0.00
24-Mar-10	14.1	40.19	13.0	7.12	218	5.95	217	0.00
22-Jun-10	15.61	38.68	15.0	7.09	207	8.02	-46	0.00
22-Sep-10	19.08	35.21	15.4	7.07	294	4.25	-35	n/m
15-Dec-10	19.61	34.68	14.8	7.07	243	3.55	-10	0.00
24-Mar-11	18.18	36.11	13.9	7.34	326	4.08	-15	0.00
16-Jun-11	17.33	36.96	15.0	7.05	236	4.00	-10	0.00
15-Sep-11	16.23	38.06	17.0	7.38	142	6.95	6	0.00
16-Dec-11	16.68	37.61	15.7	7.09	173	5.20	10	0.00
14-Mar-12	18.00	36.29	15.2	7.07	302	4.02	15	0.00
20-Jun-12	17.81	36.48	15.8	7.07	315	4.00	15	0.00
28-Aug-12	18.81	35.48	16.1	7.80	186	5.59	11	0.00
25-Oct-12	19.51	34.78	15.8	7.15	232	3.95	14	0.00
20-Dec-12	19.71	34.58	15.0	7.84	110	3.70	40	0.00
14-Mar-13	17.90	36.39	12.0	7.25	516	2.88	-8	0.00

**VE-1****PARAMETER**

Sampling Date	Depth to Water (ft)		Temperature °C	pH	Cond.	D.O.	Eh	Ozone
24-Mar-05	N/C		n/c	n/c	n/c	n/c	n/c	0.17
27-Jun-05	17.14		17.0	7.41	457	6.52	140	0.08
20-Sep-05	Dry							
13-Dec-05	15.43		13.5	7.01	111	2.95	<-80	>1.5
15-Mar-06	15.20		NA	7.35	177	N/A	-100	>1.5
22-Jun-06	15.92		16.0	6.89	351	3.00	3.88	>1.5
26-Sep-06	17.10		19.4	7.06	529	3.58	-105	0.22
19-Dec-06	16.63		14.8	7.05	248	3.15	-113	0.25
27-Mar-07	16.23		13.7	7.07	322	2.44	-60	0.2
26-Jun-07	16.29		17.0	7.12	509	1.66	-114	0.10
20-Sep-07	17.25		19.2	7.05	408	2.05	-50	0.11
20-Dec-07	18.62		14.8	7.12	234	2.99	-110	NA
27-Mar-08	15.47		11.4	7.11	268	3.15	-178	0.10
19-Jun-08	16.50		16.0	7.10	181	2.05	-200	over range
25-Sep-08	18.20		19.2	6.53	470	2.60	-106	over range
18-Dec-08	16.32		15.0	6.63	175	1.86	-83	over range
12-Mar-09	16.57		12.0	6.94	212	5.63	178	0.11
17-Jun-09	15.53		17.0	7.84	388	1.97	-109	over range
22-Sep-09	17.15		19.2	7.64	547	1.60	-123	0.03
30-Dec-09	16.59		12.0	6.75	334	1.66	-49	0.09
02-Feb-10	16.83		12.0	7.09	221	2.60	-15	0.02
24-Mar-10	13.90		12.1	7.39	392	34.70	202	over range
22-Jun-10	15.36		17.1	7.08	261	3.93	-60	0.00
22-Sep-10	DRY							
15-Dec-10	DRY							
24-Mar-11	17.95		11.8	7.10	267	4.42	-10	0.00
16-Jun-11	17.13		16.8	7.02	251	3.26	-15	0.00
15-Sep-11	16.00		19.5	7.09	184	1.61	-122	0.00
16-Dec-11	16.51		14.2	7.00	181	1.88	-104	0.00
14-Mar-12	17.78		14.6	7.20	205	1.80	-120	0.00
20-Jun-12	17.62		18.5	7.10	229	2.10	-105	0.00
28-Aug-12	DRY							
25-Oct-12	18.90	VE-1R-Inst 9/7/12	19.2	7.17	232	3.95	14	0.18
20-Dec-12	19.10		16.2	7.02	141	1.88	-50	0.00
14-Mar-13	17.29		12.0	7.21	169	2.05	-50	0.00

**VE-5****PARAMETER**

Sampling Date	Depth to Water (ft)	Temperature °C	pH	Cond.	D.O.	Eh	Ozone
24-Mar-05	19.64	12.1	6.91	230	4.45	190	0.57
27-Jun-05	16.65	16.7	7.02	235	6.83	125	meter fault
20-Sep-05	18.45	20.0	6.53	238	7.83	100	>1.5
13-Dec-05	5.51	15.0	7.10	240	5.51	105	>1.5
15-Mar-06	14.62	12.0	7.05	240	4.95	165	>1.5
22-Jun-06	15.35	16.0	7.10	251	3.85	150	>1.5
26-Sep-06	16.47	18.0	7.11	240	2.95	157	>1.5
19-Dec-06	16.00	14.1	7.06	263	2.99	29	>1.5
03-Jan-00	15.60	14.5	7.11	226	2.71	8	>1.5
26-Jun-07	15.64	17.3	7.15	212	1.58	15	>1.5
20-Sep-07	16.60	18.0	7.04	201	2.50	-30	over range
20-Dec-07	18.03	13.8	7.14	232	2.80	32	NA
27-Mar-08	14.84	11.0	7.09	198	3.00	-95	ND
19-Jun-08	15.88	16.4	7.16	227	2.85	-100	0.1
25-Sep-08	17.60	18.2	6.04	215	6.18	195	0.05
18-Dec-08	15.70	14.0	6.42	224	6.32	121	0.35
12-Mar-09	15.94	12.0	6.94	212	5.63	178	0.11
17-Jun-09	15.20	15.5	8.01	259	5.60	55	0.06
22-Sep-09	16.53	19.0	7.50	313	9.65	30	0.01
30-Dec-09	15.97	13.0	6.55	249	5.22	131	over range
02-Feb-10	16.23	12.5	7.12	252	8.00	382	over range
24-Mar-10	13.26	12.5	7.13	218	8.20	153	over range
22-Jun-10	14.76	16.8	7.10	275	8.16	-36	over range
22-Sep-10	18.20	19.0	7.04	210	3.20	-40	n/m
15-Dec-10	18.80	15.0	7.08	221	3.05	20	0
24-Mar-11	17.33	11.9	7.12	188	6.02	5	0
16-Jun-11	16.50	15.8	7.04	255	6.15	7	over range
14-Sep-11	15.38	18.0	7.04	184	4.70	37	0
16-Dec-11	15.90	14.6	7.08	220	3.85	25	over range
14-Mar-12	17.14	14.8	7.07	188	3.25	10	over range
20-Jun-12	17.00	18.0	7.07	162	3.05	2	over range
28-Aug-12	17.95	18.4	7.15	205	5.20	10	over range
25-Oct-12	N/S						
20-Dec-12	18.90	15.0	7.03	163	3.80	11	0.00
14-Mar-13	17.07	11.0	7.20	163	3.71	18	0.00

**DW-1****PARAMETER**

Sampling Date	Depth to Water (ft)		Temperature °C	pH	Cond.	D.O.	Eh	Ozone
24-Mar-05			7.7	7.51	543	5.8	95	n/c
27-Jun-05			20.6	6.53	105	1.94	125	0
20-Sep-05	9.50		25.5	6.27	110	1.87	-35	0
13-Dec-05	6.95		12.0	7.41	43	11.21	45	0
15-Mar-06	10.36		8.6	7.78	97	7.41	102	0.1
22-Jun-06	8.90		18.5	7.46	66	7.00	88	-0.08
26-Sep-06	8.36		22.4	7.03	65	3.74	34	0.05
19-Dec-06	10.35		12.5	7.31	94	4.25	-41	-0.01
27-Mar-07	8.70		8.5	7.16	209	5.2	-60	-0.08
26-Jun-07	8.98		21.3	7.13	67	4.80	-25	0.10
20-Sep-07	9.58		23.0	7.08	63	6.70	-46	0.07
20-Dec-07	7.65		8.5	7.02	72	5.28	25	NA
27-Mar-08	7.90		8.1	7.21	82	4.85	-123	ND
19-Jun-08	4.30		22.4	7.13	56	6.55	-10	0.08
25-Sep-08	DRY		n/a	n/a	n/a	n/a	n/a	n/a
18-Dec-08	DRY	soil sample coll.	n/a	n/a	n/a	n/a	n/a	n/a
12-Mar-09	10.48	soil sample coll.	13.0	7.30	65	6.55	-8	ND
17-Jun-09	DRY	soil sample coll.	n/a	n/a	n/a	n/a	n/a	n/a
22-Sep-09	DRY	soil sample coll.	n/a	n/a	n/a	n/a	n/a	n/a
30-Dec-09	DRY	soil sample coll.	n/a	n/a	n/a	n/a	n/a	n/a
02-Feb-10	DRY	soil sample coll.	n/a	n/a	n/a	n/a	n/a	n/a
24-Mar-10	DRY	soil sample coll.	soil sample wet	n/a	n/a	n/a	n/a	n/a
22-Jun-10	DRY	soil sample coll.	n/a	n/a	n/a	n/a	n/a	n/a
22-Sep-10	DRY	soil sample coll.	n/a	n/a	n/a	n/a	n/a	n/a
15-Dec-10	DRY	soil sample coll.	n/a	n/a	n/a	n/a	n/a	n/a
24-Mar-11	9.82		8.5	7.10	25	10.50	80	0.00
16-Jun-11	8.58		22.0	7.09	67	5.60	45	0.00
15-Sep-11	DRY	soil sample coll.						
16-Dec-11	DRY	soil sample coll.						
14-Mar-12	DRY	soil sample coll.						
20-Jun-12	DRY	soil sample coll.						
28-Aug-12	N/S							
25-Oct-12	DRY	soil sample coll.						
14-Mar-13	DRY	soil sample coll.						

**VP-A**

Sampling Date	Depth to Water (ft)		Temperature °C	pH	Cond.	D.O.	Eh	Ozone
30-Dec-09		Not Accessible						
02-Feb-10	18.13		14.1	7.11	350	9.15	224	0.00
24-Mar-10	15.18		13.5	7.11	271	9.66	144	over range
22-Jun-10	16.50		15.5	7.13	188	10.23	-60	over range
22-Sep-10	20.05		17.5	7.11	376	3.95	-45	n/m
15-Dec-10	20.68		16.0	7.06	292	3.55	-35	0.00
24-Mar-11	19.20		13.5	7.10	255	6.10	-20	0.00
16-Jun-11	18.40		13.8	7.57	318	8.30	-12	0.00
15-Sep-11	17.30		18.0	7.07	90	7.30	28	0.00
16-Dec-11	17.79		16.6	7.06	233	5.88	15	0.00
14-Mar-12	19.06		14.8	7.03	254	4.01	20	0.00
20-Jun-12	18.90		15.5	7.04	294	3.55	18	0.00
28-Aug-12	19.84		16.8	7.16	367	6.20	8	0.00
25-Oct-12	N/S							
20-Dec-12	20.78		16.0	7.02	255	1.80	-22	0.00
14-Mar-13	18.99		12.6	7.54	555	1.95	-5	0.00

**VP-B****PARAMETER**

<b>Sampling Date</b>	<b>Depth to Water (ft)</b>	<b>Temperature °C</b>	<b>pH</b>	<b>Cond.</b>	<b>D.O.</b>	<b>Eh</b>	<b>Ozone</b>
30-Dec-09	16.28	15.1	7.53	211	1.79	170	0.03
02-Feb-10	16.55	14.1	7.04	340	9.01	190	over range
24-Mar-10	13.68	13.8	7.09	229	7.14	137	over range
22-Jun-10	15.08	15.5	7.13	245	9.40	12	over range
22-Sep-10	18.61	17.0	7.09	370	4.00	16	n/m
15-Dec-10	19.20	14.9	7.03	370	2.97	20	0.00
24-Mar-11	17.75	13.8	7.57	196	5.95	-15	0.00
16-Jun-11	16.92	14.0	7.02	161	8.39	-19	over range
15-Sep-11	15.81	17.5	7.30	96	7.40	-27	0.00
16-Dec-11	16.30	16.3	7.56	171	4.99	-30	over range
14-Mar-12	17.57	14.5	7.05	198	3.91	-15	over range
20-Jun-12	17.40	15.8	7.03	150	3.88	-10	over range
28-Aug-12	18.39	17.0	7.18	164	5.88	-25	over range
25-Oct-12	N/S						
20-Dec-12	19.30	16.0	7.03	183	2.55	-30	0.00
14-Mar-13	17.53	13.2	7.51	503	2.80	-22	0.00



**Table 2**  
**Historic Groundwater Chemical Data Summary (Through 9/09)**  
**S-K N. Amityville, NY**

Well ID	TOC av. Date	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	Chloro-benzene (ug/l)	1,2-DCB (ug/l)	1,3-DCB (ug/l)	1,4-DCB (ug/l)	1,2-DCE (ug/l)	1,1,1-TCA (ug/l)	trans -1,2-DCE (ug/l)	Mineral Spirits (ug/l)	Total VOCs (ug/l)
GW STND		1	5	5	5	5	3	3	3	5	5	5	50	
GT-1	3/14/1994	ND	ND	51	410	170	ND	21	81	ND	ND	ND	NS	733
	2/9/1996	ND	ND	5	49	19	13	ND	12	ND	ND	ND	444	98
	5/28/1996	ND	ND	ND	16	24	10	ND	13	ND	ND	ND	186	63
DUPE	5/28/1996	ND	ND	ND	16	23	ND	ND	13	11	ND	ND	244	63
	8/22/1996	ND	ND	8	76	41	20	5	23	ND	ND	ND	588	173
	12/2/1996	ND	ND	ND	42	18	10	ND	10	ND	ND	ND	NS	80
	2/27/1997	ND	ND	ND	34	16	7	ND	8	ND	ND	ND	113	65
SPLIT	2/27/1997	ND	ND	1	29	17	9	3	13	ND	ND	ND	170	72
	5/28/1997	ND	ND	6	52	22	12	ND	11	ND	ND	ND	ND	103
DUPE	5/28/1997	ND	ND	6	52	22	12	ND	11	ND	ND	ND	ND	103
SPLIT	5/28/1997	ND	ND	6	47	20	9	ND	10	ND	ND	ND	51	92
	9/9/1997	ND	ND	22	167	73	33	9	38	ND	ND	ND	308	343
DUPE	9/9/1997	ND	ND	19	150	65	29	9	33	ND	ND	ND	277	304
SPLIT	9/9/1997	ND	ND	17	130	62	33	9	38	ND	ND	ND	5000	289
	12/18/1997	ND	ND	9	62	26	16	4	18	ND	ND	ND	43	135
DUPE	12/18/1997	ND	ND	8	61	26	14	4	16	ND	ND	ND	33	129
	6/25/1998	ND	ND	ND	23	16	17	ND	16	ND	ND	ND	51	72
DUPE	6/25/1998	ND	ND	ND	23	16	17	ND	15	ND	ND	ND	55	70
SPLIT	6/25/1998	ND	ND	ND	18	ND	19	ND	16	ND	ND	ND	ND	53
	10/13/1998	ND	ND	9	70	37	15	ND	21	ND	ND	ND	96	153
DUPE	10/13/1998	ND	ND	7	56	25	14	ND	17	ND	ND	ND	113	119
	12/4/1998	ND	ND	9	51	27	16	ND	17	ND	ND	ND	128	119
DUPE	12/4/1998	ND	ND	9	48	26	16	ND	16	ND	ND	ND	115	114
	6/16/1999	ND	ND	10	54	29	31	8	37	ND	ND	ND	820	168
DUPE	6/16/1999	ND	ND	6	37	18	27	8	35	ND	ND	ND	335	129
	9/30/1999	ND	ND	14	71	45	31	7	34	ND	ND	ND	ND	204
DUPE	9/30/1999	ND	ND	16	80	49	37	9	41	ND	ND	ND	ND	232
	12/22/1999	ND	ND	9	43	23	22	6	26	ND	ND	ND	2480	129
	3/15/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SPLIT	3/15/2000	ND	ND	1	9	5	4	1	4	0	ND	ND	250	24
	6/28/2000	ND	ND	7	36	19	13	ND	13	ND	ND	ND	92	0
SPLIT	6/28/2000	ND	0	5	37	19	17	4	19	2	ND	ND	38	0
	9/20/2000	ND	ND	ND	25	11	13	ND	15	ND	ND	ND	118	0
SPLIT	9/20/2000	ND	ND	ND	10	5	6	2	10	1	ND	ND	23	34
	12/20/2000	ND	ND	ND	8	6	7	ND	8	ND	ND	ND	87	28
SPLIT	12/20/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4	0
	3/15/2001	ND	ND	ND	8	7	6	ND	6	ND	ND	ND	ND	0
SPLIT	3/15/2001	ND	ND	ND	17	8	9	ND	8	ND	ND	ND	3	0
m. malf.	8/23/2001	ND	ND	5	20	8	13	ND	12	ND	ND	ND	186	58
SPLIT	8/23/2001	ND	ND	5	22	8	18	ND	ND	1	ND	ND	450	54

**Table 2**  
**Historic Groundwater Chemical Data Summary (Through 9/09)**  
**S-K N. Amityville, NY**

Well ID	TOC av. Date	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	Chloro-benzene (ug/l)	1,2-DCB (ug/l)	1,3-DCB (ug/l)	1,4-DCB (ug/l)	1,2-DCE (ug/l)	1,1,1-TCA (ug/l)	trans -1,2-DCE (ug/l)	Mineral Spirits (ug/l)	Total VOCs (ug/l)
GW STND		1	5	5	5	5	3	3	3	5	5	5	50	
SPLIT	11/6/2001	ND	ND	7	35	15	25	ND	24	ND	ND	ND	100	106
	11/6/2001	ND	ND	5	27	11	20	ND	18	ND	ND	ND	110	81
SPLIT	2/5/2002	ND	ND	ND	120	ND	98	ND	92	ND	ND	ND	120000	310
	2/5/2002	ND	ND	ND	170	ND	160	ND	160	ND	ND	ND	140000	490
SPLIT	4/16/2002	ND	ND	ND	53	ND	68	ND	57	ND	ND	ND	360000	178
	4/17/2002	ND	ND	ND	63	ND	77	ND	66	ND	ND	ND	490000	206
DUPE	10/11/2002	ND	ND	5	17	ND	20	4	18	ND	ND	ND	130	64
	10/11/2002	ND	ND	5	19	5	22	4	21	ND	ND	ND	880	76
DUPE	1/23/2003	ND	ND	ND	10	ND	15	ND	13	ND	ND	ND	340	38
	1/23/2003	ND	ND	ND	8	ND	14	ND	12	ND	ND	ND	800	34
DUPE	4/22/2003	ND	ND	ND	11	ND	20	4	18	ND	ND	ND	310	53
	4/22/2003	ND	ND	ND	6	ND	19	3	17	ND	ND	ND	240	45
DUPE	7/22/2003	ND	ND	ND	15	ND	27	5	22	ND	ND	ND	ND	69
	7/22/2003	ND	ND	ND	12	ND	21	4	18	ND	ND	ND	ND	55
DUPE	12/9/2003	ND	ND	5	22	13	33	9	40	ND	ND	ND	560	122
	12/9/2003	ND	ND	5	22	14	34	9	42	ND	ND	ND	710	126
DUPE	3/25/2004 *	ND	ND	ND	19	8	44	9	41	ND	ND	ND	490	121
	3/25/2004 *	ND	ND	ND	18	9	42	9	43	ND	ND	ND	ND	121
DUPE	6/29/2004	ND	ND	ND	ND	ND	8	ND	9	ND	ND	ND	510	17
	6/29/2004	ND	ND	ND	5	ND	13	ND	14	ND	ND	ND	ND	32
DUPE	10/4/2004	ND	ND	ND	ND	6	5	ND	8	ND	ND	ND	ND	19
	10/4/2004	ND	ND	ND	5	10	10	3	14	ND	ND	ND	ND	42
DUPE	12/28/2004	ND	ND	ND	6	11	11	3	16	ND	ND	ND	320	47
	3/24/2005	ND	ND	ND	ND	ND	ND	ND	6	ND	ND	ND	440	6
DUPE	7/6/2005	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	ND	56	9
	7/6/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
DUPE	9/20/2005	ND	ND	ND	4	9	3	13					180	29
	12/13/2005	ND	ND	ND	8	10	17	6	32	ND	ND	ND	1400	73
DUPE	3/15/2006	ND	ND	ND	6	9	26	5	26	ND	ND	ND	2600	72
	6/22/2006	ND	ND	ND	6	9	24	9	29	ND	ND	ND	3300	77
DUPE	9/26/2006	ND	ND	ND	ND	ND	15	3	15	ND	ND	ND	3100	33
	12/19/2006	ND	ND	ND	7	ND	23	4	20	ND	ND	ND	2500	54
DUPE	12/19/2006	ND	ND	ND	5	ND	17	3	16	ND	ND	ND	2700	41
	3/27/2007	ND	ND	ND	ND	ND	12	ND	12	ND	ND	ND	1600	24
DUPE	3/27/2007	ND	ND	ND	ND	ND	13	ND	13	ND	ND	ND	1400	26
	6/26/2007	ND	ND	ND	ND	ND	10	ND	12	ND	ND	ND	880	22
DUPE	6/26/2007	ND	ND	ND	ND	ND	8	ND	9	ND	ND	ND	1400	17
	9/20/2007	ND	ND	ND	5	ND	18	5	20	ND	ND	ND	2400	48
DUPE	9/20/2007	ND	ND	ND	7	ND	24	5	24	ND	ND	ND	3000	60
	10/16/2007	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	ND	200	4

Well ID	Date	TOC		Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	Chloro-benzene (ug/l)	1,2-DCB (ug/l)	1,3-DCB (ug/l)	1,4-DCB (ug/l)	1,2-DCE (ug/l)	1,1,1-TCA (ug/l)	trans -1,2-DCE (ug/l)	Mineral Spirits (ug/l)	Total VOCs (ug/l)
		av.	STND													
GT-2	10/18/2007	ND	ND	ND	8	6	24	7	31	ND	ND	ND	2800	76		
	12/20/2007	ND	ND	ND	ND	ND	7	ND	7	ND	ND	ND	720	14		
	12/20/2007	ND	ND	ND	ND	ND	7	ND	7	ND	ND	ND	550	14		
	3/27/2008	ND	ND	ND	ND	ND	6	ND	8	ND	ND	ND	480	14		
	3/27/2008	ND	ND	ND	ND	ND	6	ND	9	ND	ND	ND	1300	15		
	6/19/2008	ND	ND	ND	ND	ND	7	ND	10	ND	ND	ND	1900	17		
	6/19/2008	ND	ND	ND	ND	ND	8	ND	10	ND	ND	ND	1900	18		
	9/25/2008	ND	ND	ND	ND	ND	18	4	20	ND	ND	ND	3100	42		
	9/25/2008	ND	ND	ND	ND	ND	18	4	21	ND	ND	ND	3000	43.0		
	12/18/2008	ND	ND	ND	ND	ND	8.7	ND	11	ND	ND	ND	1300	19.7		
	12/18/2008	ND	ND	ND	ND	ND	8.6	ND	11	ND	ND	ND	1300/4800	19.6		
	3/12/2009	ND	PCE-5.7	ND	ND	ND	6.3	ND	10	ND	ND	ND	500	22.0		
	3/12/2009	ND	PCE-6.3	ND	ND	ND	5.6	ND	9.4	ND	ND	ND	710	21.3		
	Note: 5.7 and 6.3 ug/L of tetrachloroethene was also detected in sample and X-2, respectively. This parameter total is included in the Total VOCs.															
	6/17/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50	ND		
	6/17/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	73	ND		
	9/22/2009	ND	ND	ND	ND	ND	ND	3.5	ND	6.2	ND	ND	ND	530	9.7	
	9/22/2009	ND	ND	ND	ND	ND	ND	3	ND	5.8	ND	ND	ND	680	8.9	
m.malf	3/14/1994															
	2/9/1996															
	5/28/1996															
	8/22/1996															
	12/2/1996															
	2/27/1997															
	5/28/1997															
	9/9/1997															
	12/18/1997															
	6/25/1998															
	10/13/1998															
	12/4/1998															
	6/16/1999															
	9/30/1999															
	12/22/1999															
	3/15/2000															
	6/28/2000															
	9/20/2000															
12/20/2000																
3/15/2001																
8/23/2001																
11/6/2001																

TOC		Benzene	Toluene	Ethyl- benzene	Xylenes	Chloro- benzene	1,2- DCB	1,3- DCB	1,4- DCB	1,2- DCE	1,1,1- TCA	trans -1,2- DCE	Mineral Spirits	Total VOCs
Well ID	Date	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
GW STND		1	5	5	5	5	3	3	3	5	5	5	50	
Dupl	2/5/2002													
	4/16/2002													
	10/11/2002													
	1/23/2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	4/22/2003	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/22/2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/9/2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	4/22/2004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/29/2004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	10/4/2004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/28/2004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
	3/24/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/24/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	7/6/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	9/20/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/13/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/15/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/22/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	9/26/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/19/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/27/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/26/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	9/20/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/20/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/27/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/19/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
9/25/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
12/18/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
3/12/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
6/17/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
9/22/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
GT-3	3/14/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		NS	0
	2/9/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	0
	5/28/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	0
	8/22/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	0
	8/22/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	0
	12/2/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	0
	12/2/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	0
	2/27/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	0
SPLIT	5/28/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0

TOC		Benzene	Toluene	Ethyl- benzene	Xylenes	Chloro- benzene	1,2- DCB	1,3- DCB	1,4- DCB	1,2- DCE	1,1,1- TCA	trans -1,2- DCE	Mineral Spirits	Total VOCs	
Well ID	an. Date	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	
GW STND		1	5	5	5	5	3	3	3	5	5	5	50		
SPLIT	9/9/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	12/18/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	6/25/1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	10/13/1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	10/13/1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	0	
	12/4/1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	0	
SPLIT	6/16/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	6/16/1999												1	0	
SPLIT	9/30/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	9/30/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
m. malif.	12/22/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	3/15/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	6/28/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	9/20/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	12/20/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	3/15/2001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	8/23/2001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	11/6/2001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	2/5/2002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	4/16/2002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	10/11/2002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
	1/23/2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	0	
	DUPE	2/27/2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
		2/27/2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
		4/22/2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
		7/22/2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
12/9/2003		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
4/22/2004		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
6/29/2004		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
10/4/2004		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
12/28/2004		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
3/24/2005		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
7/6/2005		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
12/13/2005		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
3/15/2006		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
6/22/2006		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	
9/26/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0		
12/19/2006	ND	ND	ND	ND	ND	8	ND	ND	ND	ND	ND	ND	8		
3/27/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0		
6/26/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0		

[illegible]

**Table 2**  
**Historic Groundwater Chemical Data Summary (Through 9/09)**  
**S-K N. Amityville, NY**

TOC		Benzene	Toluene	Ethyl- benzene	Xylenes	Chloro- benzene	1,2- DCB	1,3- DCB	1,4- DCB	1,2- DCE	1,1,1- TCA	trans -1,2- DCE	Mineral Spirits	Total VOCs
Well ID	Date	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
GW STND		1	5	5	5	5	3	3	3	5	5	5	50	
	10/4/2004													
	12/28/2004													
	3/24/2005													
	9/20/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/13/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/15/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/22/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/26/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/19/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/26/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/20/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/20/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/19/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/25/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/18/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/12/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
6/17/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
9/22/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
GT-5	3/14/1994	ND	ND	ND	ND	ND	ND	ND	ND	27	ND		NS	27
SPLIT	2/9/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	0
	5/28/1996	ND	ND	ND	ND	ND	ND	ND	ND	18	ND		ND	18
DUPE	5/28/1996	ND	ND	ND	ND	ND	ND	ND	ND	27	ND		ND	27
	8/22/1996	ND	ND	ND	ND	ND	ND	ND	ND	83	ND		ND	83
DUPE	8/22/1996	ND	ND	ND	ND	ND	ND	ND	ND	112	ND	ND	ND	112
	12/2/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	0
	12/2/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	2/27/1997	ND	ND	ND	ND	ND	ND	ND	ND	33	ND	33	ND	33
	2/27/1997	ND	ND	ND	ND	ND	ND	ND	ND	28	ND	28	ND	28
DUPE	5/28/1997	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	11	ND	11
	9/9/1997	ND	ND	ND	ND	ND	ND	ND	ND	38	ND	38	ND	38
	12/18/1997	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	2
	6/25/1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	10/13/1998	ND	ND	ND	ND	ND	8	ND	ND	5	ND	5	ND	13
	12/4/1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/16/1999	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	15
	9/30/1999	ND	ND	5	ND	17	13	ND	ND	13	ND	ND	ND	49
	12/22/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/22/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0



[illegible]

TOC		Benzene	Toluene	Ethyl- benzene	Xylenes	Chloro- benzene	1,2- DCB	1,3- DCB	1,4- DCB	1,2- DCE	1,1,1- TCA	trans -1,2- DCE	Mineral Spirits	Total VOCs
Well ID	av. Date	(ug/l) 1	(ug/l) 5	(ug/l) 5	(ug/l) 5	(ug/l) 5	(ug/l) 3	(ug/l) 3	(ug/l) 3	(ug/l) 5	(ug/l) 5	(ug/l) 5	(ug/l) 50	(ug/l)
GW STND	9/25/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/18/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/12/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/17/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	9/22/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
DW-1	7/22/2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/9/2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/25/2004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/29/2004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	10/4/2004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
DUPE	12/28/2004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/24/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	7/6/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	9/20/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	370	0
	12/13/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/13/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/15/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/22/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	9/26/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/19/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/27/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/26/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	9/20/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/20/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/27/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/19/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	9/25/2008	dry - N/S		DRY										
12/18/2008	Dry - Soil sample and duplicate collected. ND for all parameters													
3/12/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
6/17/2009	Dry - Soil sample & duplicate collected. ND for all parameters													
9/22/2009	Dry - Soil sample & duplicate collected. ND for all parameters													
VE-5	12/28/2004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/24/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	7/6/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	9/20/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/13/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/15/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/22/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	9/26/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
12/19/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	

**Table 2**  
**Historic Groundwater Chemical Data Summary (Through 9/09)**  
**S-K N. Amityville, NY**

Well ID	TOC av. Date	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	Chloro-benzene (ug/l)	1,2-DCB (ug/l)	1,3-DCB (ug/l)	1,4-DCB (ug/l)	1,2-DCE (ug/l)	1,1,1-TCA (ug/l)	trans -1,2-DCE (ug/l)	Mineral Spirits (ug/l)	Total VOCs (ug/l)
GW STND		1	5	5	5	5	3	3	3	5	5	5	50	
	3/27/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/26/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	9/20/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/20/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/27/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60	0
	6/19/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	9/25/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/18/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/12/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/17/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	9/22/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
VE-1	3/30/2005	ND	ND	ND	ND	ND		ND	64	ND	ND	ND	2900	164
	7/6/2005	ND	ND	ND	5	ND	41	7	27	ND	ND	ND	5600	80
dry	9/20/2005													
	12/13/2005	ND	ND	ND	18	ND	97	72	71	ND	ND	ND	24000	258
	3/15/2006	ND	ND	ND	19J1M	ND	98J1M	83J1M	83J1M	ND	ND	6-cis 1,2 DCE	39000	289
	6/22/2006	ND	ND	ND	9	ND	57	ND	61	ND	ND	ND	17000	127
	9/26/2006	ND	ND	ND	ND	ND	18	8	26	ND	ND	ND	8600	52
	dup	ND	ND	ND	ND	ND	21	5	20	ND	ND	ND	3900	46
	12/19/2006	ND	ND	ND	ND	ND	37	12	45	ND	ND	ND	27000	94
	3/27/2007	ND	ND	ND	ND	ND	21	9	31	ND	ND	ND	34000	61
	6/26/2007	ND	ND	ND	ND	ND	27	13	40	ND	ND	ND	30000	80
	9/20/2007	ND	ND	ND	ND	ND	6	4	12	ND	ND	ND	9500	22
	12/20/2007	ND	ND	ND	ND	ND	9	7	19	ND	ND	ND	33000	35
	3/27/2008	ND	ND	ND	ND	ND	9	7	18	ND	ND	ND	430	78 <sup>1</sup>
	6/19/2008	ND	ND	ND	ND	ND	6	5	12	ND	ND	ND	21000	23
	9/25/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23000	0
	12/18/2008	ND	ND	ND	ND	ND	ND	ND	7.2	ND	ND	ND	15000	20.2
	3/12/2009	ND	ND	ND	ND	ND	ND	ND	3.9	ND	ND	ND	8000	3.9
	Note: 13 ppb of isopropylbenzene was also detected. This parameter total is included in the Total VOCs column.													
	6/17/2009	ND	ND	ND	ND	ND	ND	ND	6.0	ND	ND	ND	23000	6
	9/22/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8400	0

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**Table 2**  
**Historic Groundwater Chemical Data Summary (Through 9/09)**  
**S-K N. Amityville, NY**

Well ID	TOC av. Date	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	Chloro-benzene (ug/l)	1,2-DCB (ug/l)	1,3-DCB (ug/l)	1,4-DCB (ug/l)	1,2-DCE (ug/l)	1,1,1-TCA (ug/l)	trans -1,2-DCE (ug/l)	Mineral Spirits (ug/l)	Total VOCs (ug/l)
GW STND		1	5	5	5	5	3	3	3	5	5	5	50	

**Key**

Notes	Target Compound Abbreviations
BDL = Not detected above the method detection limit	1,2-DCB = 1,2-Dichlorobenzene
ND = Not Detected (reported in micrograms per liter (ug/l))	1,3-DCB = 1,3-Dichlorobenzene
NS = Not Sampled	1,4-DCB = 1,4-Dichlorobenzene
NA = Not Applicable	1,2-DCE = 1,2-Dichloroethene
TOC = Top of Casing (measured in feet above MSL)	1,1,1-TCA = 1,1,1-Trichloroethane
DO = Dissolved Oxygen (reported in milligrams per liter (mg/l))	Trans-1,2-DCE = Trans-1,2-Dichloroethene
J1M = Lab estimated concentration	
Number that is in <b>BOLD</b> exceeds the New York State Class GA Groundwater Standards for Class GA groundwater (NYSDEC TOGS 1.1.1, 10/22/93, Rev. 6/98)	

**Notes:**

1. Tetrachloroethane was detected at a concentration of 5.7 and 6.3 ug/L in sample GT-1 and X-2, respectively.

**Table 3**  
**Groundwater Monitoring Results Summary - Test America, Inc. Start**  
**Safety-Kleen Systems, Inc. - Corrective Action Program**  
**N. Amityville, New York Facility**

(Recorded At/Above the T.O.G.S. 1.1.1 Standards or Project-Specific Reporting Limits)  
(See Laboratory Report for all Compounds Detected Above the Method Detection Limit)  
(Project Laboratory as of 12/2009 - Test America, Inc.)

Monitoring Location	Sample Date	Detected Compound	Acetone	Benzene	Toluene	Ethyl-benzene	Xylenes	PCE	Chloro-benzene	1,2-DCB	1,3-DCB	1,4-DCB	1,2-DCE	1,1,1-TCA	trans-1,2-DCE	Mineral Spirit RO	Total VOCs
		Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
		TOGS-STD->	50	1	5	5	5	5	5	3	3	3	5	5	5	50	n/a
GT-1	12/30/2009	Sample														1,300	
		Duplicate (X-1)														1,300	
	2/2/2010	Sample														1,000	
		Duplicate (X-1)														1,100	
	3/24/2010	Sample										3.5 & 4.1				6,400	3.5 & 4.1
		Duplicate (X-1)										3.5 & 4.2				4,500	3.5 & 4.2
	6/22/2010	Sample														3,000	
		Duplicate (X-1)														2,400	
	9/22/2010	Sample								4.9		10.0				18,000	14.9
		Duplicate (X-1)								4.9		11.0				16,000	15.9
	12/15/2010	Sample								9.1	5.2	21.0				12,000	35.3
		Duplicate (X-1)								9.1	5.1	20.0				39,000	34.2
	3/24/2011	Sample								6.8	4.0	15.0				18,000	25.8
		Duplicate (X-1)								6.9	4.1	15.0				24,000	26
	6/16/2011	Sample										6.5				8,500	6.5
		Duplicate (X-1)										7.2				11,000	7.2
	9/15/2011	Sample										5.5				12,000	5.5
		Duplicate (X-1)															
	12/16/2011	Sample										5.6				15,000	5.6
		Duplicate (X-1)										4.0				7,400	4.0
	3/14/2012	Sample										6.4				16,000	6.4
		Duplicate (X-1)										6.1				14,000	6.1
	6/20/2012	Info Only H.T.										4.0				15,000	4.0
		Duplicate (X-1)										4.0				12,000	4.0
	8/28/2012	Info Only H.T.										4.5				9,200	4.5
		Duplicate (X-1)										4.8				10,000	4.8
	10/25/2012	Sample								4.7	4.2	13.0				23,000	21.9
		Duplicate								4.8	4.5	13.0				21,000	22.3
	12/20/2012	Sample								4.0	3.6	11.0				24,000	18.6
		Duplicate								3.9	3.5	11.0				32,000	18.4
	3/14/2013	Sample										3.6				22,000	3.6
		Duplicate										3.8				21,000	3.8
GT-2	12/30/2009																
	2/2/2010															67	
	3/24/2010																
	6/22/2010																
	9/22/2010																
	12/15/2010																
	3/24/2011																
	6/16/2011																
	9/15/2011																
	12/16/2011																
	3/14/2012																
	6/20/2012	Info Only H.T.															
	8/28/2012																
	10/25/2012																
	12/20/2012																
	3/14/2013																

Monitoring Location	Sample Date	Detected Compound	Acetone	Benzene	Toluene	Ethyl-benzene	Xylenes	PCE	Chloro-benzene	1,2-DCB	1,3-DCB	1,4-DCB	1,2-DCE	1,1,1-TCA	trans -1,2-DCE	Mineral Spirit RO	Total VOCs
		Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
		FOGS-STD->	50	1	5	5	5	5	5	3	3	3	5	5	5	50	n/a
GT-3	12/30/2009																
	2/2/2010																
	3/24/2010																
	6/22/2010																
	9/22/2010																
	12/15/2010																
	3/24/2011																
	6/16/2011																
	9/15/2011																
	12/16/2011																
	3/14/2012																
	6/20/2012																
	8/28/2012																
	10/25/2012																
	12/20/2012																
	3/14/2013																
GT-4	12/30/2009	N/S															
	2/2/2010	N/S															
	3/24/2010	N/S															
	6/22/2010	N/S															
	9/22/2010	N/S															
	12/15/2010	N/S															
	3/24/2011	N/S															
	6/16/2011	N/S															
	9/15/2011	N/S															
	12/16/2011	N/S															
	3/14/2012	N/S															
	6/20/2012	N/S															
	8/28/2012	N/S															
	10/25/2012	N/S															
	12/20/2012	N/S															
	3/14/2013	N/S															

Monitoring Location	Sample Date	Detected Compound	Acetone	Benzene	Toluene	Ethyl-benzene	Xylenes	PCE	Chloro-benzene	1,2-DCB	1,3-DCB	1,4-DCB	1,2-DCE	1,1,1-TCA	trans -1,2-DCE	Mineral Spirit RO	Total VOCs
		Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
		FOGS-STD->	50	1	5	5	5	5	5	3	3	3	5	5	5	50	n/a
GT-5	12/30/2009																
	2/2/2010																
	3/24/2010																
	6/22/2010																
	9/22/2010																
	12/15/2010																
	3/24/2011																
	6/16/2011																
	9/15/2011																
	12/16/2011																
	3/14/2012																
	6/20/2012	nfo Only H.T.E															
	8/28/2012																
	10/25/2012																
	12/20/2012																
	3/14/2013																
VE-1	12/30/2009															23,000	
	2/2/2010															43,000	
	3/24/2010															5,400	
	6/22/2010															8,100	
	9/22/2010	Dry															
	12/15/2010	Dry															
	3/24/2011															8,300	
	6/16/2011															13,000	
	9/15/2011															680	
	12/16/2011															10,000	
	3/14/2012															2,600	
	6/20/2012	nfo Only H.T.E														2,400	
	8/28/2012																
	10/25/2012															20,000	
	12/20/2012															12,000	
	3/14/2013															9,900	



Monitoring Location	Sample Date	Detected Compound	Acetone	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	Chlorobenzene	1,2-DCB	1,3-DCB	1,4-DCB	1,2-DCE	1,1,1-TCA	trans-1,2-DCE	Mineral Spirit RO	Total VOCs
		Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
		FOGS-STD->	50	1	5	5	5	5	5	3	3	3	5	5	5	50	n/a
VE-5	12/30/2009															190	
	2/2/2010															390	
	3/24/2010																
	6/22/2010																
	9/22/2010																
	12/15/2010																
	3/24/2011																
	6/16/2011																
	9/15/2011																
	12/16/2011																
	3/14/2012																
	6/20/2012																
	8/28/2012																
	10/25/2012																
	3/14/2013																
VP-A	12/30/2009	Not Accessible															
	2/2/2010															99	
	3/24/2010																
	6/22/2010																
	9/22/2010																
	12/15/2010																
	3/24/2011																
	6/16/2011																
	9/15/2011																
	12/16/2011																
	3/14/2012																
	6/20/2012																
	8/28/2012																
	10/25/2012																
	3/14/2013																
VP-B	12/30/2009															58	
	2/2/2010															66	
	3/24/2010		130 & 110													120	130 & 110
	6/22/2010																
	9/22/2010																
	12/15/2010																
	3/24/2011																
	6/16/2011																
	9/15/2011																
	12/16/2011																
	3/14/2012																
	6/20/2012																
	8/28/2012																
	10/25/2012																
	3/14/2013																



**ATTACHMENT 4**

**LABORATORY ANALYTICAL REPORTS**

COMPACT DISK DISTRIBUTION

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(Executive Summaries Attached Herein)

## ANALYTICAL REPORT

Job Number: 460-52392-1

Job Description: 2013 Safety-Kleen Amityville

For:

Basile Environmental Solutions, LLC  
1188 Hillside Drive  
Cortland, NY 3045

Attention: Joseph Basile, Jr., MSc.



Approved for release.  
Jennifer Capece  
Project Mgmt. Assistant  
4/4/2013 2:39 PM

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Designee for  
Melissa Haas  
Project Manager I  
melissa.haas@testamericainc.com  
04/04/2013  
Revision: 1

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

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**TestAmerica Laboratories, Inc.**

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Job Number: 460-52392-1

Job Description: 2013 Safety-Kleen Amityville

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in black ink that reads "Jennifer R. Capece". The signature is written in a cursive style with a horizontal line underneath it.

Approved for release.  
Jennifer Capece  
Project Mgmt. Assistant  
4/4/2013 2:39 PM

Designee for  
Melissa Haas

# Table of Contents

Cover Title Page . . . . .	1
Data Summaries . . . . .	5
Report Narrative . . . . .	5
Sample Summary . . . . .	10
Executive Summary . . . . .	11
Method Summary . . . . .	13
Method / Analyst Summary . . . . .	14
Sample Datasheets . . . . .	15
Surrogate Summary . . . . .	48
QC Data Summary . . . . .	50
Data Qualifiers . . . . .	60
QC Association Summary . . . . .	61
Lab Chronicle . . . . .	63
Organic Sample Data . . . . .	67
GC/MS VOA . . . . .	67
Method 8260B . . . . .	67
Method 8260B QC Summary . . . . .	68
Method 8260B Sample Data . . . . .	75
Standards Data . . . . .	140
Method 8260B ICAL Data . . . . .	140
Method 8260B CCAL Data . . . . .	185
Raw QC Data . . . . .	193
Method 8260B Tune Data . . . . .	193
Method 8260B Blank Data . . . . .	201
Method 8260B LCS/LCSD Data . . . . .	205
Method 8260B Run Logs . . . . .	212

# Table of Contents

Method 8260B Prep Data .....	214
GC VOA .....	218
Method 8015B - GRO .....	218
Method 8015B - GRO QC Summary .....	219
Method 8015B - GRO Sample Data .....	229
Standards Data .....	284
Method 8015B - GRO ICAL Data .....	284
Method 8015B - GRO CCAL Data .....	305
Raw QC Data .....	335
Method 8015B - GRO Blank Data .....	335
Method 8015B - GRO LCS/LCSD Data .....	350
Method 8015B - GRO Run Logs .....	380
Method 8015B - GRO Prep Data .....	383
Shipping and Receiving Documents .....	388
Client Chain of Custody .....	389
Sample Receipt Checklist .....	392

**Job Narrative**  
**460-52392-1 Revision**

**Comments**

No additional comments.

After receiving the deliverables, the client asked the lab to check the 8015B result for sample GT-2. The lab reviewed the result and discovered that the integration was not correct. The sample was re-integrated and the 8015B result was corrected. Revised deliverables were sent to the client on 4/4/13.

**Receipt**

The samples were received on 3/14/2013 5:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.1° C and 8.1° C.

Except:

Technical and Operational Guidance Series subpart 1.1.1 (The New York State Ambient Water Quality Standards and Guidance Values) references a class GA standard of 0.04 ug/L for 1,2-dibromo-3-Chloropropane and 1,2,3-Trichloropropane. The laboratory is unable to meet this standard by reporting to their established reporting limit (RL) or method detection limit (MDL). Sample results are evaluated to the MDL, which is the lowest level the instrumentation has been able to detect, which is 0.4 ug/L for 1,2-Dibromo-3-Chloropropane and 0.42 ug/L for 1,2,3-Trichloropropane.

The Edison lab does not hold NY certification for the following analytes via method 8260 for water or soil: Ethyl Methacrylate, Iodomethane and Methacrylonitrile.

The soils samples were received at the laboratory outside the required temperature criteria. The client was notified and instructed the lab to cancel the soil analyses.

**GC/MS VOA**

No analytical or quality issues were noted.

**GC VOA**

Method 8015B: The following samples were diluted to bring the concentration of the target analyte within the calibration range: Duplicate (460-52392-11), VE-1R (460-52392-9), GT-1 (460-52392-3), . Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

**VOA Prep**

No analytical or quality issues were noted.



### **Project Specific Reporting Limits – Aqueous Samples**

For aqueous samples, please note that the reporting limits listed below may vary for each sample analyzed based on sample volume, and/or sample dilution. The aqueous laboratory reporting limits are based on the New York State Department of Environmental Conservation (NYSDEC) Technical & Operational Guidance Series (TOGS) section 1.1.1 class GA standards, and ASI's previously reported laboratory reporting limits where no TOGS class GA standard exists.

<b>Analyte</b>	<b>Aqueous Project Specific Reporting Limits</b>	<b>Units</b>
Acetone	50	ug/L
Acetonitrile	10	ug/L
Allyl chloride	5	ug/L
Benzene	1	ug/L
Benzyl chloride	10	ug/L
Bromodichloromethane	50	ug/L
Bromoform	5	ug/L
Bromomethane	5	ug/L
2-Butanone (MEK)	50	ug/L
Carbon disulfide	60	ug/L
Carbon tetrachloride	5	ug/L
Chlorobenzene	5	ug/L
Chloroethane	5	ug/L
2-Chloroethyl vinyl ether	20	ug/L
Chloroform	7	ug/L
Chloromethane	5	ug/L
cis-1,2-Dichloroethene	5	ug/L
cis-1,3-Dichloropropene	0.2	ug/L
Dibromochloromethane	50	ug/L
1,2-Dibromo-3-Chloropropane	0.04	ug/L
1,2-Dibromoethane	5	ug/L
Dibromomethane	5	ug/L
1,3-Dichlorobenzene	3	ug/L
1,4-Dichlorobenzene	3	ug/L
1,2-Dichlorobenzene	3	ug/L
Dichlorodifluoromethane	5	ug/L
1,1-Dichloroethane	5	ug/L
1,2-Dichloroethane	0.6	ug/L
1,1-Dichloroethene	5	ug/L
1,2-Dichloroethene, Total	2	ug/L
1,2-Dichloropropane	1	ug/L
Ethylbenzene	5	ug/L
Ethyl methacrylate	5	ug/L
2-Hexanone	50	ug/L
Iodomethane	5	ug/L
Isobutyl alcohol	250	ug/L
Methacrylonitrile	5	ug/L
Methylene Chloride	5	ug/L
Methyl methacrylate	50	ug/L
4-Methyl-2-pentanone (MIBK)	5	ug/L
m&p-Xylene	10	ug/L
o-Xylene	5	ug/L
Styrene	5	ug/L
1,1,1,2-Tetrachloroethane	5	ug/L
1,1,2,2-Tetrachloroethane	5	ug/L
Tetrachloroethene	5	ug/L
Toluene	5	ug/L
trans-1,4-Dichloro-2-butene	5	ug/L
trans-1,2-Dichloroethene	5	ug/L

Analyte	Aqueous Project Specific Reporting Limit	Units
<i>trans</i> -1,3-Dichloropropene	0.2	ug/L
1,1,1-Trichloroethane	5	ug/L
1,1,2-Trichloroethane	1	ug/L
Trichloroethene	5	ug/L
1,2,3-Trichloropropane	0.04	ug/L
Vinyl acetate	5	ug/L
Vinyl chloride	2	ug/L
Xylenes, Total	15	ug/L
Mineral Spirit Range Organics	50	ug/L

### **Project Specific Reporting Limits – Solid Samples**

For solid samples, please note that the reporting limits listed below will vary for each sample analyzed based on sample moisture content, sample volume, and/or sample dilution. The solid laboratory reporting limits are based on the New York State Department of Environmental Conservation (NYSDEC) Subpart 375-6.8(a) Unrestricted Use Soil Cleanup Objectives and TestAmerica Connecticut's laboratory reporting limits where no part 375 cleanup objectives exist.

<b>Analyte</b>	<b>Solid Project Specific Reporting Limits</b>	<b>Units</b>
Acetone	50	ug/Kg
Acetonitrile	50	ug/Kg
Allyl chloride	5	ug/Kg
Benzene	60	ug/Kg
Benzyl chloride	5	ug/Kg
Bromodichloromethane	5	ug/Kg
Bromoform	5	ug/Kg
Bromomethane	5	ug/Kg
2-Butanone (MEK)	120	ug/Kg
Carbon disulfide	5	ug/Kg
Carbon tetrachloride	760	ug/Kg
Chlorobenzene	1100	ug/Kg
Chloroethane	5	ug/Kg
2-Chloroethyl vinyl ether	5	ug/Kg
Chloroform	370	ug/Kg
Chloromethane	5	ug/Kg
cis-1,2-Dichloroethene	250	ug/Kg
cis-1,3-Dichloropropene	5	ug/Kg
Dibromochloromethane	5	ug/Kg
1,2-Dibromo-3-Chloropropane	10	ug/Kg
1,2-Dibromoethane	5	ug/Kg
Dibromomethane	5	ug/Kg
1,3-Dichlorobenzene	2400	ug/Kg
1,4-Dichlorobenzene	1800	ug/Kg
1,2-Dichlorobenzene	1100	ug/Kg
Dichlorodifluoromethane	5	ug/Kg
1,1-Dichloroethane	270	ug/Kg
1,2-Dichloroethane	20	ug/Kg
1,1-Dichloroethene	330	ug/Kg
1,2-Dichloroethene, Total	5	ug/Kg
1,2-Dichloropropane	5	ug/Kg
Ethylbenzene	1000	ug/Kg
Ethyl methacrylate	10	ug/Kg
2-Hexanone	10	ug/Kg
Iodomethane	10	ug/Kg
Isobutyl alcohol	150	ug/Kg
Methacrylonitrile	10	ug/Kg
Methylene Chloride	50	ug/Kg
Methyl methacrylate	10	ug/Kg
4-Methyl-2-pentanone (MIBK)	5	ug/Kg
m&p-Xylene	5	ug/Kg
o-Xylene	5	ug/Kg
Styrene	5	ug/Kg
1,1,1,2-Tetrachloroethane	5	ug/Kg
1,1,2,2-Tetrachloroethane	5	ug/Kg
Tetrachloroethene	1300	ug/Kg
Toluene	700	ug/Kg
trans-1,4-Dichloro-2-butene	10	ug/Kg
trans-1,2-Dichloroethene	190	ug/Kg

<b>Analyte</b>	<b>Solid Project Specific Reporting Limits</b>	<b>Units</b>
<i>trans</i> -1,3-Dichloropropene	5	ug/Kg
1,1,1-Trichloroethane	680	ug/Kg
1,1,2-Trichloroethane	5	ug/Kg
Trichloroethene	470	ug/Kg
1,2,3-Trichloropropane	5	ug/Kg
Vinyl acetate	20	ug/Kg
Vinyl chloride	5	ug/Kg
Xylenes, Total	260	ug/Kg
Mineral Spirit Range Organics	10000	ug/Kg

## SAMPLE SUMMARY

Client: Basile Environmental Solutions, LLC

Job Number: 460-52392-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-52392-3	GT-1	Water	03/14/2013 1145	03/14/2013 1750
460-52392-4	GT-2	Water	03/14/2013 0950	03/14/2013 1750
460-52392-5	GT-3	Water	03/14/2013 0920	03/14/2013 1750
460-52392-6	GT-5	Water	03/14/2013 0900	03/14/2013 1750
460-52392-7	VP-A	Water	03/14/2013 1115	03/14/2013 1750
460-52392-8	VP-B	Water	03/14/2013 1030	03/14/2013 1750
460-52392-9	VE-1R	Water	03/14/2013 1215	03/14/2013 1750
460-52392-10	VE-5	Water	03/14/2013 1245	03/14/2013 1750
460-52392-11	Duplicate	Water	03/14/2013 1000	03/14/2013 1750
460-52392-12	Rinse Blank	Water	03/14/2013 1300	03/14/2013 1750
460-52392-13	Trip Blank	Water	03/14/2013 0000	03/14/2013 1750

## EXECUTIVE SUMMARY - Detections

Client: Basile Environmental Solutions, LLC

Job Number: 460-52392-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-52392-3</b>	<b>GT-1</b>					
1,2-Dichlorobenzene		0.84	J	3.0	ug/L	8260B
1,3-Dichlorobenzene		1.4	J	3.0	ug/L	8260B
1,4-Dichlorobenzene		3.6		3.0	ug/L	8260B
Tetrachloroethene		0.12	J	5.0	ug/L	8260B
Mineral Spirit Range Organics		22000		2500	ug/L	8015B
<b>460-52392-4</b>	<b>GT-2</b>					
Tetrachloroethene		0.33	J	5.0	ug/L	8260B
<b>460-52392-6</b>	<b>GT-5</b>					
Chloroform		0.10	J	7.0	ug/L	8260B
<b>460-52392-7</b>	<b>VP-A</b>					
Tetrachloroethene		0.26	J	5.0	ug/L	8260B
<b>460-52392-8</b>	<b>VP-B</b>					
Tetrachloroethene		0.40	J	5.0	ug/L	8260B
<b>460-52392-9</b>	<b>VE-1R</b>					
Tetrachloroethene		0.23	J	5.0	ug/L	8260B
Mineral Spirit Range Organics		9900		1300	ug/L	8015B
<b>460-52392-10</b>	<b>VE-5</b>					
Tetrachloroethene		0.34	J	5.0	ug/L	8260B
<b>460-52392-11</b>	<b>DUPLICATE</b>					
1,2-Dichlorobenzene		0.87	J	3.0	ug/L	8260B
1,3-Dichlorobenzene		1.4	J	3.0	ug/L	8260B
1,4-Dichlorobenzene		3.8		3.0	ug/L	8260B
Tetrachloroethene		0.11	J	5.0	ug/L	8260B
Mineral Spirit Range Organics		21000		2500	ug/L	8015B
<b>460-52392-12</b>	<b>RINSE BLANK</b>					
Chloroform		0.36	J	7.0	ug/L	8260B
Methylene Chloride		1.5	J	5.0	ug/L	8260B

## EXECUTIVE SUMMARY - Detections

Client: Basile Environmental Solutions, LLC

Job Number: 460-52392-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-52392-13	TRIP BLANK					
Chloroform		0.21	J	7.0	ug/L	8260B
Methylene Chloride		1.3	J	5.0	ug/L	8260B

## METHOD SUMMARY

Client: Basile Environmental Solutions, LLC

Job Number: 460-52392-1

Description	Lab Location	Method	Preparation Method
Matrix:			

Matrix: Water

Volatile Organic Compounds (GC/MS)	TAL EDI	SW846 8260B	
Purge and Trap	TAL EDI		SW846 5030B
8015B - Mineral Spirit Range Organics	TAL EDI	SW846 8015B	
Purge and Trap	TAL EDI		SW846 5030B

### Lab References:

TAL EDI = TestAmerica Edison

### Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.



## ANALYTICAL REPORT

Job Number: 460-52761-1

Job Description: 2013 Safety-Kleen Amityville

For:

Basile Environmental Solutions, LLC  
1188 Hillside Drive  
Cortland, NY 3045

Attention: Joseph Basile, Jr., MSc.



Approved for release.  
Kristina Blocker  
Project Manager I  
4/5/2013 8:56 AM

---

Designee for  
Melissa Haas  
Project Manager I  
melissa.haas@testamericainc.com  
04/05/2013


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TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LA000132

Job Number: 460-52761-1

Job Description: 2013 Safety-Kleen Amityville

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in black ink that reads "Kristina M. Blocker". The signature is fluid and cursive, with a long horizontal stroke at the end.

Approved for release.  
Kristina Blocker  
Project Manager I  
4/5/2013 8:56 AM

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Designee for  
Melissa Haas

# Table of Contents

Cover Title Page . . . . .	1
Data Summaries . . . . .	5
Report Narrative . . . . .	5
Sample Summary . . . . .	10
Executive Summary . . . . .	11
Method Summary . . . . .	12
Method / Analyst Summary . . . . .	13
Sample Datasheets . . . . .	14
Surrogate Summary . . . . .	22
QC Data Summary . . . . .	24
Data Qualifiers . . . . .	35
QC Association Summary . . . . .	36
Lab Chronicle . . . . .	38
Organic Sample Data . . . . .	40
GC/MS VOA . . . . .	40
Method 8260B . . . . .	40
Method 8260B QC Summary . . . . .	41
Method 8260B Sample Data . . . . .	52
Standards Data . . . . .	64
Method 8260B ICAL Data . . . . .	64
Method 8260B CCAL Data . . . . .	121
Raw QC Data . . . . .	129
Method 8260B Tune Data . . . . .	129
Method 8260B Blank Data . . . . .	137
Method 8260B LCS/LCSD Data . . . . .	143
Method 8260B MS/MSD Data . . . . .	151

# Table of Contents

Method 8260B Run Logs .....	165
Method 8260B Prep Data .....	167
GC VOA .....	172
Method 8015B - GRO .....	172
Method 8015B - GRO QC Summary .....	173
Method 8015B - GRO Sample Data .....	179
Standards Data .....	189
Method 8015B - GRO ICAL Data .....	189
Method 8015B - GRO CCAL Data .....	210
Raw QC Data .....	222
Method 8015B - GRO Blank Data .....	222
Method 8015B - GRO LCS/LCSD Data .....	227
Method 8015B - GRO MS/MSD Data .....	237
Method 8015B - GRO Run Logs .....	247
Method 8015B - GRO Prep Data .....	249
Inorganic Sample Data .....	253
General Chemistry Data .....	253
Gen Chem Cover Page .....	254
Gen Chem MDL .....	255
Gen Chem Analysis Run Log .....	257
Gen Chem Prep Data .....	258
Shipping and Receiving Documents .....	259
Client Chain of Custody .....	260
Sample Receipt Checklist .....	262

**Job Narrative**  
**460-52761-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 3/21/2013 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

Except:

Technical and Operational Guidance Series subpart 1.1.1 (The New York State Ambient Water Quality Standards and Guidance Values) references a class GA standard of 0.04 ug/L for 1,2-dibromo-3-Chloropropane and 1,2,3-Trichloropropane. The laboratory is unable to meet this standard by reporting to their established reporting limit (RL) or method detection limit (MDL). Sample results are evaluated to the MDL, which is the lowest level the instrumentation has been able to detect, which is 0.4 ug/L for 1,2-Dibromo-3-Chloropropane and 0.42 ug/L for 1,2,3-Trichloropropane.

The Edison lab does not hold NY certification for the following analytes via method 8260 for water or soil: Ethyl Methacrylate, Iodomethane and Methacrylonitrile.

**GC/MS VOA**

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 153421 were outside control limits for several analytes. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

**GC VOA**

Method(s) 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 153626 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

**VOA Prep**

No analytical or quality issues were noted.

### **Project Specific Reporting Limits – Aqueous Samples**

For aqueous samples, please note that the reporting limits listed below may vary for each sample analyzed based on sample volume, and/or sample dilution. The aqueous laboratory reporting limits are based on the New York State Department of Environmental Conservation (NYSDEC) Technical & Operational Guidance Series (TOGS) section 1.1.1 class GA standards, and ASI's previously reported laboratory reporting limits where no TOGS class GA standard exists.

<b>Analyte</b>	<b>Aqueous Project Specific Reporting Limits</b>	<b>Units</b>
Acetone	50	ug/L
Acetonitrile	10	ug/L
Allyl chloride	5	ug/L
Benzene	1	ug/L
Benzyl chloride	10	ug/L
Bromodichloromethane	50	ug/L
Bromoform	5	ug/L
Bromomethane	5	ug/L
2-Butanone (MEK)	50	ug/L
Carbon disulfide	60	ug/L
Carbon tetrachloride	5	ug/L
Chlorobenzene	5	ug/L
Chloroethane	5	ug/L
2-Chloroethyl vinyl ether	20	ug/L
Chloroform	7	ug/L
Chloromethane	5	ug/L
cis-1,2-Dichloroethene	5	ug/L
cis-1,3-Dichloropropene	0.2	ug/L
Dibromochloromethane	50	ug/L
1,2-Dibromo-3-Chloropropane	0.04	ug/L
1,2-Dibromoethane	5	ug/L
Dibromomethane	5	ug/L
1,3-Dichlorobenzene	3	ug/L
1,4-Dichlorobenzene	3	ug/L
1,2-Dichlorobenzene	3	ug/L
Dichlorodifluoromethane	5	ug/L
1,1-Dichloroethane	5	ug/L
1,2-Dichloroethane	0.6	ug/L
1,1-Dichloroethene	5	ug/L
1,2-Dichloroethene, Total	2	ug/L
1,2-Dichloropropane	1	ug/L
Ethylbenzene	5	ug/L
Ethyl methacrylate	5	ug/L
2-Hexanone	50	ug/L
Iodomethane	5	ug/L
Isobutyl alcohol	250	ug/L
Methacrylonitrile	5	ug/L
Methylene Chloride	5	ug/L
Methyl methacrylate	50	ug/L
4-Methyl-2-pentanone (MIBK)	5	ug/L
m&p-Xylene	10	ug/L
o-Xylene	5	ug/L
Styrene	5	ug/L
1,1,1,2-Tetrachloroethane	5	ug/L
1,1,2,2-Tetrachloroethane	5	ug/L
Tetrachloroethene	5	ug/L
Toluene	5	ug/L
trans-1,4-Dichloro-2-butene	5	ug/L
trans-1,2-Dichloroethene	5	ug/L

Analyte	Aqueous Project Specific Reporting Limit	Units
<i>trans</i> -1,3-Dichloropropene	0.2	ug/L
1,1,1-Trichloroethane	5	ug/L
1,1,2-Trichloroethane	1	ug/L
Trichloroethene	5	ug/L
1,2,3-Trichloropropane	0.04	ug/L
Vinyl acetate	5	ug/L
Vinyl chloride	2	ug/L
Xylenes, Total	15	ug/L
Mineral Spirit Range Organics	50	ug/L

### **Project Specific Reporting Limits – Solid Samples**

For solid samples, please note that the reporting limits listed below will vary for each sample analyzed based on sample moisture content, sample volume, and/or sample dilution. The solid laboratory reporting limits are based on the New York State Department of Environmental Conservation (NYSDEC) Subpart 375-6.8(a) Unrestricted Use Soil Cleanup Objectives and TestAmerica Connecticut's laboratory reporting limits where no part 375 cleanup objectives exist.

<b>Analyte</b>	<b>Solid Project Specific Reporting Limits</b>	<b>Units</b>
Acetone	50	ug/Kg
Acetonitrile	50	ug/Kg
Allyl chloride	5	ug/Kg
Benzene	60	ug/Kg
Benzyl chloride	5	ug/Kg
Bromodichloromethane	5	ug/Kg
Bromoform	5	ug/Kg
Bromomethane	5	ug/Kg
2-Butanone (MEK)	120	ug/Kg
Carbon disulfide	5	ug/Kg
Carbon tetrachloride	760	ug/Kg
Chlorobenzene	1100	ug/Kg
Chloroethane	5	ug/Kg
2-Chloroethyl vinyl ether	5	ug/Kg
Chloroform	370	ug/Kg
Chloromethane	5	ug/Kg
cis-1,2-Dichloroethene	250	ug/Kg
cis-1,3-Dichloropropene	5	ug/Kg
Dibromochloromethane	5	ug/Kg
1,2-Dibromo-3-Chloropropane	10	ug/Kg
1,2-Dibromoethane	5	ug/Kg
Dibromomethane	5	ug/Kg
1,3-Dichlorobenzene	2400	ug/Kg
1,4-Dichlorobenzene	1800	ug/Kg
1,2-Dichlorobenzene	1100	ug/Kg
Dichlorodifluoromethane	5	ug/Kg
1,1-Dichloroethane	270	ug/Kg
1,2-Dichloroethane	20	ug/Kg
1,1-Dichloroethene	330	ug/Kg
1,2-Dichloroethene, Total	5	ug/Kg
1,2-Dichloropropane	5	ug/Kg
Ethylbenzene	1000	ug/Kg
Ethyl methacrylate	10	ug/Kg
2-Hexanone	10	ug/Kg
Iodomethane	10	ug/Kg
Isobutyl alcohol	150	ug/Kg
Methacrylonitrile	10	ug/Kg
Methylene Chloride	50	ug/Kg
Methyl methacrylate	10	ug/Kg
4-Methyl-2-pentanone (MIBK)	5	ug/Kg
m&p-Xylene	5	ug/Kg
o-Xylene	5	ug/Kg
Styrene	5	ug/Kg
1,1,1,2-Tetrachloroethane	5	ug/Kg
1,1,2,2-Tetrachloroethane	5	ug/Kg
Tetrachloroethene	1300	ug/Kg
Toluene	700	ug/Kg
trans-1,4-Dichloro-2-butene	10	ug/Kg
trans-1,2-Dichloroethene	190	ug/Kg



<b>Analyte</b>	<b>Solid Project Specific Reporting Limits</b>	<b>Units</b>
<i>trans</i> -1,3-Dichloropropene	5	ug/Kg
1,1,1-Trichloroethane	680	ug/Kg
1,1,2-Trichloroethane	5	ug/Kg
Trichloroethene	470	ug/Kg
1,2,3-Trichloropropane	5	ug/Kg
Vinyl acetate	20	ug/Kg
Vinyl chloride	5	ug/Kg
Xylenes, Total	260	ug/Kg
Mineral Spirit Range Organics	10000	ug/Kg

## SAMPLE SUMMARY

Client: Basile Environmental Solutions, LLC

Job Number: 460-52761-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-52761-1	DW-1	Solid	03/21/2013 1015	03/21/2013 1500
460-52761-1MS	DW-1	Solid	03/21/2013 1015	03/21/2013 1500
460-52761-1MSD	DW-1	Solid	03/21/2013 1015	03/21/2013 1500
460-52761-2	DW-1 DUP	Solid	03/21/2013 1015	03/21/2013 1500

## EXECUTIVE SUMMARY - Detections

Client: Basile Environmental Solutions, LLC

Job Number: 460-52761-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Analyte						
<b>460-52761-1</b>	<b>DW-1</b>					
Acetone		6.2	J B	60	ug/Kg	8260B
Methylene Chloride		0.36	J B	60	ug/Kg	8260B
Mineral Spirit Range Organics		23000		5500	ug/Kg	8015B
Percent Moisture		9.1		1.0	%	Moisture
Percent Solids		90.9		1.0	%	Moisture
<b>460-52761-2</b>	<b>DW-1 DUP</b>					
Acetone		4.8	J B	60	ug/Kg	8260B
Methylene Chloride		2.9	J B	60	ug/Kg	8260B
Mineral Spirit Range Organics		19000		6100	ug/Kg	8015B
Percent Moisture		8.8		1.0	%	Moisture
Percent Solids		91.3		1.0	%	Moisture

## METHOD SUMMARY

Client: Basile Environmental Solutions, LLC

Job Number: 460-52761-1

Description	Lab Location	Method	Preparation Method
<b>Matrix:</b>			

**Matrix:** Solid

Volatile Organic Compounds (GC/MS)	TAL EDI	SW846 8260B	
Closed System Purge and Trap	TAL EDI		SW846 5035
8015B - Mineral Spirt Range Organics	TAL EDI	SW846 8015B	
Closed System Purge and Trap	TAL EDI		SW846 5035
Percent Moisture	TAL EDI	EPA Moisture	

### Lab References:

TAL EDI = TestAmerica Edison

### Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.