



Geotechnical
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**Quarterly Groundwater Monitoring Report
Fourth Quarter (Q4) 2013**

**Sag Harbor
Former MGP Site**

Village of Sag Harbor
Suffolk County, Long Island, New York
Site ID No. 1-52-159

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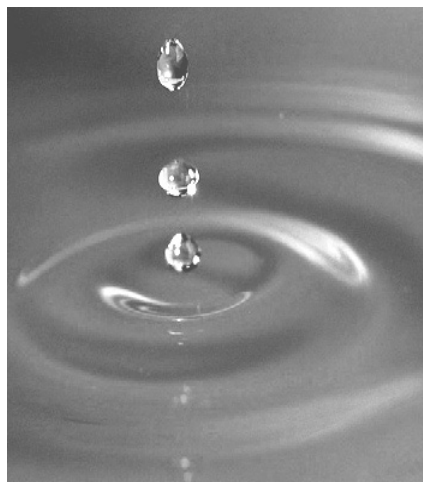


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1. Sag Harbor Site and Adjacent Offsite Areas

Fourth Quarter (Q4) 2013 Groundwater Monitoring Event Summary

Event Date: December 16, 18, 19, 20, and 23, 2013

Site Phase: Quarterly groundwater monitoring

Location: The location of the Sag Harbor Former MGP site is depicted on **Figure 1**.

Monitoring Well Network

A total of 25 monitoring wells are currently located at or in the vicinity of the site (**Figure 2**). MW-05 was destroyed sometime between March and June 2007. Monitoring wells MW-01, MW-02, MW-03, MW-04, MW-06, SHMW-01S, SHMW-01I, SHMW-02I, SHMW-02D, SHMW-04S, SHMW-04I, SHMW-05S, SHMW-05I, SHMW-06S, and SHMW-06I were abandoned prior to the Q4 2008 sampling event due to the remediation activities being conducted at the site. Seven of the monitoring wells, including SHMW-01SR, SHMW-01IR, SHMW-02IR, SHMW-02DR, SHMW-04SR, SHMW-05SR, and SHMW-05IR were replaced as part of the post-remediation monitoring well replacement/installation program in Q4 2010.

Monitoring wells SHMW-02IR and SHMW-04SR were installed as larger diameter wells for potential dense non-aqueous phase liquid (DNAPL) recovery. In addition to the installation of the replacement monitoring wells listed above, new monitoring wells SHMW-01D and SHMW-02S were also installed as part of this program. Monitoring wells SHMW-07S and SHMW-07I, which were damaged presumably during the remedial activities, were abandoned during the replacement well installation program and reinstalled.

Hydrological Data

Groundwater levels were measured on December 23, 2013 at 24 of the 25 monitoring wells, during low and high tides. Monitoring well SHMW-02IR was repaired during Q3 2011, altering the survey point. As a result, a groundwater level measurement was not taken. Depth to groundwater and calculated groundwater elevations are provided in **Table 1**. Shallow and intermediate groundwater contours for high and low tidal conditions are depicted on **Figures 3** through **6**.

The groundwater flow direction was generally to the west towards Sag Harbor Cove. The ranges in depth to water and water table elevation data, as well as calculated hydraulic gradients for the shallow and intermediate portions of the aquifer in Q4 2013, are provided in the following table:

Depth Zone	High Tide			Low Tide		
	Range		Gradient ³	Range		Gradient ³
	DTW ¹	WLE ²		DTW ¹	WLE ²	
Shallow	0.18 – 5.20	-1.30 – 3.47	0.0037	0.32 – 5.22	0.10 – 3.14	0.0043
Intermediate	1.35 – 4.52	0.65 – 2.16	0.0005	1.16 – 5.79	-0.16 – 2.18	0.0017

Notes:

- ¹: Depth to water - Measured as feet below top of casing
- ²: Water level elevation - Calculated as feet above mean sea level
- ³: Feet/Feet

NAPL Thickness Data

Table 2 provides a summary of historical non-aqueous phase liquid (NAPL) data. In Q4 2013, all of the 25 monitoring wells were monitored for NAPL as part of the groundwater monitoring program. There was no evidence of light non-aqueous phase liquid (LNAPL) in any of the monitoring wells during Q4 2013. DNAPL was measured at a thickness of approximately 6 inches in monitoring well SHMW-02IR during Q4 2013.

Chemical Data

In Q4 2013, a total of 25 wells were sampled for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tert-butyl ether (MTBE) by Environmental Protection Agency (EPA) Method 8260, and for polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270. Well sampling was performed on December 16, 18, 19, and 20, 2013 and included all wells on the annual sampling list.

Chemical data for Q4 2013 (**Table 3**) indicate:

- BTEX concentrations ranged from below method detection limits (ND) in 14 of the 25 wells sampled to 1,846 micrograms per liter (µg/L) in SHMW-04SR.
- Total PAH concentrations ranged from ND in 11 of the 25 wells sampled to 1,916 µg/L in SHMW-04SR.
- MTBE concentrations were ND in each of the wells sampled, excluding an estimated detection of 5 µg/L in SHMW-08S.

Data Trend Analysis

Shallow Zone

In general, BTEX and total PAH concentrations (see historical data in **Tables 4** and **5**) have been generally decreasing in shallow groundwater on and adjacent to the site, as indicated in the table on the following page. BTEX concentrations in shallow wells have increased slightly in recent sampling events, but remain significantly below historical levels (see table on following page), while total PAH concentrations decreased relative to Q3 2013 levels and also remain below historical levels. The increases in BTEX concentrations during Q4 2013 were primarily evident in two wells, SHMW-04SR and SHMW-07SR, as discussed below.

Shallow Zone	Historical*		Q2 2013		Q3 2013		Q4 2013	
	Max	Average	Max	Average	Max	Average	Max	Average
BTEX	25,860	943	852	162	972	184	1,846	275
Total PAHs	7,211**	663	960	191	4,030	623	1,916	369

Notes:

Concentrations in µg/L

*: Including data from existing wells only.

**: Historical maximum for all depth zones is 580,200 µg/L (total PAH) in SHMW-02I.

Concentrations of BTEX were identified in seven shallow monitoring wells in Q4 2013. The concentrations in monitoring wells SHMW-03S (2 µg/L), SHMW-05SR (21 µg/L), SHMW-08S (3 µg/L), and SHMW-12S (26 µg/L) were relatively low. The Q4 2013 detection in monitoring well SHMW-12S decreased compared to recent sampling events. The Q4 2013 detections in each of these wells were below its respective historical mean concentration.

Elevated BTEX concentrations in the remaining shallow wells in Q4 2013 were limited to SHMW-04SR, SHMW-07SR, and SHMW-09S. The Q4 2013 concentrations in monitoring wells SHMW-04SR (1,846 µg/L) and SHMW-07SR (1,305 µg/L) have increased during the last two sampling events, but remain below the respective historical mean concentrations of 7,495 µg/L and 1,466 µg/L. The BTEX concentration in monitoring well SHMW-09S (93 µg/L) decreased slightly during Q4 2013, continuing a decreasing trend in recent sampling events.

For total PAH concentrations, nine shallow wells had detections in Q4 2013. The concentrations in monitoring wells SHMW-03S (6 µg/L), SHMW-10S (1 µg/L), and SHMW-11S (16 µg/L) remained near detection levels. The Q3 2013 detections in these wells remained similar to, or below their respective historical mean concentration.

The majority of the monitoring wells with elevated detections (>100 µg/L) during Q4 2013, including SHMW-07SR (1,381 µg/L), SHMW-08S (148 µg/L), SHMW-09S (211 µg/L), and SHMW-12S (133 µg/L), decreased relative to Q3 2013. Excluding the detection in SHMW-08S, which was within the historical concentration range, the Q4 2013 total PAH detections in each of these wells were below the respective historical mean concentration. The concentrations trends in recent sampling events in these wells range from variable (SHMW-07SR and SHMW-12S), to stable (SHMW-08S), to decreasing (SHMW-09S). The total PAH concentrations in SHMW-04SR (1,916 µg/L) and SHMW-05SR (291 µg/L) have increased in recent sampling events, but remained within their respective historical concentration ranges during Q4 2013.

Intermediate and Deep Zones

Concentrations of BTEX and total PAHs were identified in four and five of the 13 intermediate or deep zone monitoring wells, respectively, in Q4 2013. The concentrations in all of these wells were relatively low (11 µg/L or less), excluding a total PAH detection of 245 µg/L in monitoring well SHMW-02IR. The Q4 2013 total PAH detection in SHMW-02IR is the highest concentration recorded in this well since a detection of 580,200 µg/L in Q2 2004. The Q2 2004 detection is three orders of magnitude higher than any other detection recorded in this well during the historical monitoring period. It should be noted that measurable levels of DNAPL were recorded in this well during Q4 2013, as discussed

further below. There were no detections of BTEX or total PAHs in the remaining wells during the previous annual sampling event in Q4 2012 in intermediate or deep zone monitoring wells; however, similar detections were observed during the Q4 2011 annual sampling event.

Variable dissolved constituent concentrations detected in shallow groundwater over the past sampling events are likely due, in part, to the rise and fall of the water table resulting in periods of both decreased and increased dissolution of adsorbed BTEX and total PAHs trapped beneath the groundwater/soil vapor interface.

DNAPL Occurrence

The historical NAPL data (**Table 2**) indicates that measurable quantities of NAPL have primarily been found in two onsite shallow monitoring wells (MW-02 and MW-05), one onsite intermediate well (SHMW-02I), and one offsite shallow well (SHMW-04S). Non-measurable (trace) amounts of NAPL have historically been found in two onsite shallow wells, MW-03 and MW-04, as well as in offsite shallow well SHMW-06S, and was intermittently found in SHMW-07S. All of the wells identified above in which NAPL has been historically detected were either destroyed or abandoned prior to, or during, remedial activities.

Non-measurable (trace) amounts of LNAPL and DNAPL were found in replacement monitoring wells SHMW-04SR and SHMW-07SR during the first three monitoring events following the installation of these wells. Prior to Q4 2013, no evidence of NAPL had been found in these monitoring wells or any of the remaining monitoring wells since Q2 2011. During Q4 2013, approximately 6 inches of DNAPL was observed in SHMW-02IR. As mentioned above, SHMW-02IR was installed to replace SHMW-02I, which was abandoned prior to the Q4 2008 sampling event due to the remediation activities being conducted at the site. DNAPL thicknesses in SHMW-02I reached a maximum of approximately 4 feet immediately prior to abandonment during the Q3 2008 monitoring event. SHMW-02IR was installed as a larger diameter well for potential DNAPL recovery. Thicknesses in this well will be monitored during future sampling events to determine if recovery is warranted.

Future Plans

- Continue quarterly groundwater and NAPL monitoring at onsite and offsite monitoring wells.
- Evaluate the need and feasibility of recovering DNAPL at monitoring well SHMW-02IR.

Tables

Table 1. Water Level Measurements and Calculated Groundwater Elevations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Well ID	Top of Casing Elevation (ft)*	Tide	Time	12/23/2013		Notes
				Depth to Water (ft)	Groundwater Elevation (ft)	
SHMW-01SR	3.71	High	1408	2.40	1.31	Well replaced in Q4 2010
		Low	0755	2.80	0.91	
SHMW-01IR	3.81	High	1410	2.50	1.31	Well replaced in Q4 2010
		Low	0756	3.00	0.81	
SHMW-01D	3.67	High	1412	1.65	2.02	Well installed in Q4 2010
		Low	0756	2.55	1.12	
SHMW-02S	3.95	High	1404	2.18	1.77	Well installed in Q4 2010
		Low	0752	2.80	1.15	
SHMW-02IR	3.92	High	NM	NM	NM	Survey point altered
		Low	NM	NM	NM	
SHMW-02DR	3.66	High	1406	2.05	1.61	Well replaced in Q4 2010
		Low	0754	2.87	0.79	
SHMW-03S	3.83	High	1420	3.40	0.43	
		Low	0800	3.45	0.38	
SHMW-03I	3.85	High	1422	3.20	0.65	
		Low	0805	3.12	0.73	
SHMW-04SR	3.90	High	1415	5.20	-1.30	Well replaced in Q4 2010
		Low	0759	3.30	0.60	
SHMW-05SR	5.03	High	1412	3.20	1.83	Well replaced in Q4 2010
		Low	0758	4.05	0.98	
SHMW-05IR	4.96	High	1413	3.18	1.78	Well replaced in Q4 2010
		Low	0758	4.00	0.96	
SHMW-07SR	3.48	High	1438	1.15	2.33	
		Low	0816	0.50	2.98	
SHMW-07IR	3.38	High	1439	2.00	1.38	
		Low	0816	2.30	1.08	
SHMW-08S	3.69	High	1443	0.22	3.47	
		Low	0824	0.55	3.14	
SHMW-08I	3.79	High	1443	1.80	1.99	
		Low	0825	2.60	1.19	
SHMW-09S	3.06	High	1432	+0.04	3.10	Artesian at High Tide
		Low	0811	1.35	1.71	
SHMW-09I	2.82	High	1433	1.35	1.47	
		Low	0811	1.16	1.66	
SHMW-10S	4.75	High	1424	3.89	0.86	
		Low	0807	4.46	0.29	
SHMW-10I	4.75	High	1426	3.08	1.67	
		Low	0809	4.50	0.25	
SHMW-11S	5.32	High	1429	4.60	0.72	
		Low	0809	5.22	0.10	
SHMW-11I	5.63	High	1430	4.52	1.11	
		Low	0810	5.79	-0.16	
SHMW-12S	1.98	High	1435	+0.22	2.20	Artesian
		Low	0810	+0.21	2.19	
SHMW-12I	1.99	High	1436	+0.17	2.16	Artesian
		Low	0814	+0.19	2.18	
SHMW-13S	3.36	High	1441	0.18	3.18	
		Low	0820	0.32	3.04	
SHMW-13I	3.50	High	1442	1.50	2.00	
		Low	0820	2.20	1.30	

General Notes:

* Elevations were re-surveyed in November 2010.
 NM = Not Measured

**Table 2. Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013**

Well ID	May 2002 Observations	May 2004 Observations	Aug 2004 Observations	Oct 2004 Observations	Nov 2004 Observations	Dec 2004 Observations	Jan 2005 Observations	Feb 2005 Observations	Mar 2005 Observations	Apr/Q1 2005 Observations
MW-01	None Observed	Odor	None Observed	Not Checked	NR	NR	NR	NR	NR	NR
MW-02	Approx. 0.16' of DNAPL, sheen on surface	Approx. 0.15' of DNAPL, sheen on surface	Approx. 0.29' of DNAPL	Approx. 0.2' of DNAPL	Approx. 0.01' of DNAPL, 1.0' intermittent DNAPL	Approx. 0.1' of DNAPL	Approx. 0.11' of DNAPL	Approx. 0.16' of DNAPL	Approx. 0.15' of DNAPL	Approx. 0.15' of DNAPL
MW-03	Intermittent DNAPL for 1.5'	Approx. 0.03' of DNAPL, naphthalene- like odor	NR	Trace DNAPL at bottom of tape	Trace DNAPL at bottom of tape	Trace DNAPL at bottom of tape	Trace DNAPL at bottom of tape	Trace DNAPL at bottom of tape	Trace DNAPL at bottom of tape	Trace DNAPL at bottom of tape
MW-04	None Observed	Approx. 0.02' of DNAPL, naphthalene- like odor	NR	Trace DNAPL at bottom of tape	None Observed	None Observed	Trace DNAPL at bottom of tape	Not Checked (under snow pile)	None Observed	None Observed
MW-05	Blebs of LNAPL	Approx. 1.0' of DNAPL, naphthalene- like odor	Approx. 0.75' of DNAPL	Approx. 4.5' of LNAPL/NAPL	Approx. 0.35' of DNAPL, 3.6' intermittent DNAPL	Trace DNAPL at bottom of tape, bubbles in WC	Trace DNAPL at bottom of tape	Approx. 0.6' of DNAPL, approx. 0.02' of LNAPL	Sporadic DNAPL, approx. 0.1' of LNAPL	Sporadic DNAPL, approx. 0.1' of LNAPL
MW-06	None Observed	Slight naphthalene- like odor	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-01S/01SR	None Observed	Slight naphthalene- like odor	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-01I/01IR	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-01D	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02S	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02I/02IR	None Observed	Approx. 4.9' of DNAPL, sheen	Approx. 4.7' of DNAPL	Approx. 4.9' of DNAPL	Approx. 1.0' of DNAPL, 3.0' intermittent DNAPL	Approx. 0.6' of DNAPL	Approx. 0.65' of DNAPL	Approx. 0.5' of DNAPL	Approx. 0.45' of DNAPL	Approx. 1.1' of DNAPL
SHMW-02D/02DR	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-03S	None Observed	Odor	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-03I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-04S/04SR	None Observed	Approx. 0.6' of DNAPL, naphthalene- like odor	NR	Approx. 0.7' of DNAPL, 2.3' intermittent DNAPL	Approx. 0.55' of DNAPL	Approx. 0.29' of DNAPL	Approx. 0.35' of DNAPL	Approx. 0.22' of DNAPL	Approx. 0.25' of DNAPL	Approx. 0.25' of DNAPL
SHMW-04I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR

Table 2. Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Well ID	May 2002 Observations	May 2004 Observations	Aug 2004 Observations	Oct 2004 Observations	Nov 2004 Observations	Dec 2004 Observations	Jan 2005 Observations	Feb 2005 Observations	Mar 2005 Observations	Apr/Q1 2005 Observations
SHMW-05S/05SR	None Observed	Blebs of DNAPL in purge water, odor	NR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-05I/05IR	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-06S	Slight sheen and naphthalene-like odor	Naphthalene-like odor	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-06I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-07S/07SR	Sheen and naphthalene-like odor	Slight odor	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-07I/07IR	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-08S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-08I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-09S	None Observed	Slight naphthalene- like odor	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-09I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-10S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-10I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-11S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-11I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-12S	None Observed	Sheen, strong sulfur- like odor	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-12I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-13S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-13I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR

Table 2. Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Well ID	Jun/Q2 2005 Observations	Sep/Q3 2005 Observations	Dec/Q4 2005 Observations	Mar/Q1 2006 Observations	Jun/Q2 2006 Observations	Sep/Q3 2006 Observations	Dec/Q4 2006 Observations	Mar/Q1 2007 Observations	Jun/Q2 2007 Observations	Sep/Q3 2007 Observations
MW-01	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-02	Trace DNAPL at bottom of tape	Approx. 0.13' of DNAPL	Approx. 0.09' DNAPL, naphthalene-like odor	Approx. 0.01' DNAPL	Approx. 0.12' of DNAPL	Approx. 0.15' DNAPL	Approx. 0.10' DNAPL	Approx.0.20' DNAPL	Approx.0.07' DNAPL	Approx. 0.11' DNAPL
MW-03	Trace DNAPL at bottom of tape	Trace DNAPL at bottom of tape	None, naphthalene-like odor	No DNAPL observed	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	No DNAPL observed	Trace DNAPL (coating on tubes)	None Observed	Trace DNAPL (coating on tubes)
MW-04	None Observed	Trace DNAPL at bottom of tape	Trace DNAPL at bottom of tape	Trace DNAPL	Trace DNAPL	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)
MW-05	Approx. 3.0' of DNAPL	Approx. 0.75' of DNAPL, approx. 0.12' of LNAPL	DNAPL blebs in purge H ₂ O, 0.5' DNAPL coating on tubes	Approx. 0.15' of DNAPL, approx. 0.1' of LNAPL	Approx. 0.22' DNAPL; 0.05' of LNAPL	Approx. 0.55' DNAPL; 0.06' of LNAPL	Trace LNAPL; DNAPL in purge water (not measurable)	Trace LNAPL; DNAPL in purge water (not measurable)	Well Destroyed	Well Destroyed
MW-06	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-01S/01SR	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-01I/01IR	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-01D	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02S	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02I/02IR	Approx. 0.75' of DNAPL	Approx. 0.4' of DNAPL	Approx. 1.3' of DNAPL, naphthalene-like odor	Approx. 0.35' of DNAPL	Approx. 0.43' of DNAPL	Approx. 0.5' of DNAPL	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)
SHMW-02D/02DR	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-03S	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-03I	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-04S/04SR	Approx. 0.90' of DNAPL	Approx. 0.26' of DNAPL	Approx. 0.5' DNAPL, naphthalene-like odor	Approx. 0.25' of DNAPL	Approx. 0.5' of DNAPL	Approx. 0.25' of DNAPL	Approx. 0.30' of DNAPL	Approx.0.40' DNAPL	Approx.0.50' DNAPL	Approx. 0.5' DNAPL
SHMW-04I	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR

Table 2. Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Well ID	Jun/Q2 2005 Observations	Sep/Q3 2005 Observations	Dec/Q4 2005 Observations	Mar/Q1 2006 Observations	Jun/Q2 2006 Observations	Sep/Q3 2006 Observations	Dec/Q4 2006 Observations	Mar/Q1 2007 Observations	Jun/Q2 2007 Observations	Sep/Q3 2007 Observations
SHMW-05S/05SR	None Observed	None Observed	None Observed	No DNAPL observed	None Observed	None Observed	None Observed	None Observed	None Observed	NR
SHMW-05I/05IR	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-06S	NR	Trace DNAPL at bottom of tape	Approx. 0.10' DNAPL, naphthalene-like odor	Trace DNAPL	Approx. 0.2' of DNAPL	Approx. 0.2' of DNAPL	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)
SHMW-06I	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-07S/07SR	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-07I/07IR	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-08S	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-08I	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-09S	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-09I	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-10S	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-10I	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-11S	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-11I	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-12S	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-12I	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-13S	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR
SHMW-13I	NR	NR	NR	NR	NR	NR	NR	None Observed	NR	NR

**Table 2. Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013**

Well ID	Dec/Q4 2007 Observations	Mar/Q1 2008 Observations	Jun/Q2 2008 Observations	Sep/Q3 2008 Observations	Dec/Q4 2008 Observations	Mar/Q1 2009 Observations	Jun/Q2 2009 Observations	Sep/Q3 2009 Observations	Dec/Q4 2009 Observations	Mar/Q1 2010 Observations
MW-01	None Observed	None Observed	Trace DNAPL	Trace DNAPL (at bottom of tubing)	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-02	Approx. ~0.08'	Trace DNAPL	Moderate DNAPL; not measureable	Trace DNAPL	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-03	Trace	Trace DNAPL (On bottom 1.5' of tubes)	Trace DNAPL	Trace DNAPL (0.05' at bottom of tubing)	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-04	Approx. ~0.02'	NR	Trace DNAPL	Trace DNAPL (at bottom of tubing)	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-05	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed
MW-06	None Observed	None Observed	None Observed	None Observed	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-01S/01SR	None Observed	None Observed	None Observed	None Observed	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-01I/01IR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-01D	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02S	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02I/02IR	Approx. ~0.60'	Approx. 3' DNAPL	Approx. 1.5' DNAPL	Approx. 4' DNAPL	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-02D/02DR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-03S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-03I	None Observed	NR	NR	NR	None Observed	NR	None Observed	NR	None Observed	None Observed
SHMW-04S/04SR	Approx. ~0.61'	Approx. 1.05' DNAPL	Approx. 0.6' DNAPL	Approx. 0.75' DNAPL	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-04I	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned

Table 2. Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Well ID	Dec/Q4 2007 Observations	Mar/Q1 2008 Observations	Jun/Q2 2008 Observations	Sep/Q3 2008 Observations	Dec/Q4 2008 Observations	Mar/Q1 2009 Observations	Jun/Q2 2009 Observations	Sep/Q3 2009 Observations	Dec/Q4 2009 Observations	Mar/Q1 2010 Observations
SHMW-05S/05SR	None Observed	None Observed	None Observed	None Observed	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-05I/05IR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-06S	Trace	Trace DNAPL (on tubing)	Trace DNAPL	Trace DNAPL (on tubing)	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-06I	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-07S/07SR	Trace	NR	NR	Trace DNAPL (on side of tubing approx 1' off bottom)	Well Inaccessible or Abandoned	Well Inaccessible	None Observed	Trace DNAPL (on side of tubing)	None Observed	None Observed
SHMW-07I/07IR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Inaccessible	None Observed	NR	None Observed (approximately 10 feet of sand present in well)	None Observed (approximately 10 feet of sand present in well)
SHMW-08S	None Observed	None Observed	None Observed	None Observed	Well Inaccessible or Abandoned	Well Inaccessible	None Observed	None Observed	None Observed	None Observed
SHMW-08I	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Inaccessible	None Observed	NR	None Observed	None Observed
SHMW-09S	None Observed	None Observed	None Observed	None Observed	None Observed	Well Inaccessible	None Observed	None Observed	None Observed	Well Inaccessible
SHMW-09I	None Observed	NR	NR	NR	NR	NR	NR	NR	None Observed	None Observed
SHMW-10S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-10I	None Observed	NR	NR	NR	NR	NR	NR	NR	None Observed	None Observed
SHMW-11S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-11I	None Observed	NR	NR	NR	NR	NR	NR	NR	None Observed	None Observed
SHMW-12S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-12I	None Observed	NR	NR	NR	NR	NR	NR	NR	None Observed	None Observed
SHMW-13S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-13I	None Observed	NR	NR	NR	NR	NR	NR	NR	None Observed	None Observed

Table 2. Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Well ID	Jun/Q2 2010 Observations	Sep/Q3 2010 Observations	Dec/Q4 2010 Observations	Mar/Q1 2011 Observations	Jun/Q2 2011 Observations	Sep/Q3 2011 Observations	Dec/Q4 2011 Observations	Mar/Q1 2012 Observations	June/Q2 2012 Observations	Sep/Q3 2012 Observations
MW-01	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-02	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-03	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-04	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-05	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed
MW-06	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-01S/01SR	Well Abandoned	Well Abandoned	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-01I/01IR	Well Abandoned	Well Abandoned	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-01D	NI	NI	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-02S	NI	NI	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-02I/02IR	Well Abandoned	Well Abandoned	None Observed	Well Damaged	Well Damaged	Well Damaged	None Observed	None Observed	None Observed	None Observed
SHMW-02D/02DR	Well Abandoned	Well Abandoned	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-03S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-03I	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-04S/04SR	Well Abandoned	Well Abandoned	Trace LNAPL - DNAPL observed on tubing	Trace LNAPL - DNAPL observed on tubing	Trace LNAPL - DNAPL observed on tubing	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-04I	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned

Table 2. Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Well ID	Jun/Q2 2010 Observations	Sep/Q3 2010 Observations	Dec/Q4 2010 Observations	Mar/Q1 2011 Observations	Jun/Q2 2011 Observations	Sep/Q3 2011 Observations	Dec/Q4 2011 Observations	Mar/Q1 2012 Observations	June/Q2 2012 Observations	Sep/Q3 2012 Observations
SHMW-05S/05SR	Well Abandoned	Well Abandoned	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-05I/05IR	Well Abandoned	Well Abandoned	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-06S	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-06I	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-07S/07SR	Well Inaccessible	Well Inaccessible	Trace LNAPL - DNAPL observed on tubing	Trace LNAPL - DNAPL observed on tubing	Trace LNAPL - DNAPL observed on tubing	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-07I/07IR	Well Inaccessible	Well Inaccessible	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-08S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-08I	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-09S	None Observed	None Observed	No access	No access	No access	No access	No access	No access	No access	No access
SHMW-09I	None Observed	None Observed	No access	No access	No access	No access	No access	No access	No access	No access
SHMW-10S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-10I	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-11S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-11I	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-12S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-12I	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-13S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-13I	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed

Table 2. Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Well ID	Dec/Q4 2012 Observations	Mar/Q1 2013 Observations	June/Q2 2013 Observations	Sep/Q3 2013 Observations	Dec/Q4 2013 Observations
MW-01	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-02	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-03	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-04	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-05	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed
MW-06	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-01S/01SR	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-01I/01IR	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-01D	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-02S	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-02I/02IR	None Observed	None Observed	None Observed	None Observed	Approx. 6" of DNAPL
SHMW-02D/02DR	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-03S	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-03I	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-04S/04SR	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-04I	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned

Table 2. Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Well ID	Dec/Q4 2012 Observations	Mar/Q1 2013 Observations	June/Q2 2013 Observations	Sep/Q3 2013 Observations	Dec/Q4 2013 Observations
SHMW-05S/05SR	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-05I/05IR	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-06S	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-06I	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-07S/07SR	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-07I/07IR	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-08S	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-08I	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-09S	No access	No access	None Observed	None Observed	None Observed
SHMW-09I	No access	No access	None Observed	None Observed	None Observed
SHMW-10S	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-10I	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-11S	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-11I	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-12S	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-12I	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-13S	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-13I	None Observed	None Observed	None Observed	None Observed	None Observed

General Notes:

DNAPL = Dense Non-aqueous Phase Liquid
LNAPL = Light Non-aqueous Phase Liquid
WC = Water Column
NR = Gauging Not Required
NI = Not Installed

Table 3. Summary of BTEX, MTBE and PAH Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Location Name			SHMW-01SR	SHMW-01IR	SHMW-01D	SHMW-02S	SHMW-02IR	SHMW-02DR	SHMW-03S	SHMW-03I	SHMW-04SR	SHMW-05SR	SHMW-05IR	SHMW-07SR	SHMW-07SR
Sample Name			SHMW-01SR	SHMW-01IR	SHMW-01D	SHMW-02S	SHMW-02IR	SHMW-02DR	SHMW-03S	SHMW-03I	SHMW-04SR	SHMW-05SR	SHMW-05IR	SHMW-07SR	DUP-SH 02
Start Depth			1	35	65	1	35	65	2	35	2	2	35	1	1
End Depth			6	45	75	6	45	75	12	45	12	12	45	11	11
Depth Unit			ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date			12/20/2013	12/20/2013	12/20/2013	12/20/2013	12/19/2013	12/20/2013	12/18/2013	12/18/2013	12/18/2013	12/16/2013	12/16/2013	12/19/2013	12/19/2013
Parent Sample Code															SHMW-07SR
Analyte	Units	NYS AWQS													
BTEX															
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1	2	690 D	13	1 U	440 D	230 D
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	36	1 U	1 U	15	9
Ethylbenzene	µg/L	5	1 U	1	1 U	1 U	2	1 U	1	1	650 D	3	1 U	590 D	280 D
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	9	1 U	1 U	1	470	5	1 U	260	160
Total BTEX (ND=0)	µg/L	NE	ND	1	ND	ND	11	ND	2	4	1846	21	ND	1305	679
Other VOCs															
Methyl tert-butyl ether (MTBE)	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
NYSDEC PAH17															
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	6 J	10 U	2 J	10 U	140 DJ	39	10 U	97 DJ	110 DJ
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	24	10 U	10 U	10 U	3 J	10 U	10 U	6 J	5 J
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	12	10 U	10 U	10 U	43	10 U	10 U	33	23
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	9 J	10 U	10 U	10 U	10 U	10 U	10 U	24	14
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	5 J	10 U	10 U	10 U	10 U	10 U	10 U	9 J	6 J
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	2 J	10 U	10 U	10 U	10 U	10 U	10 U	5 J	3 J
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	4 J	10 U	10 U	10 U	10 U	10 U	10 U	5 J	3 J
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	7 J	10 U	10 U	10 U	10 U	10 U	10 U	14	8 J
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	9 J	10 U	10 U	10 U	10 U	10 U	10 U	21	13
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	15	10 U	10 U	10 U	4 J	10 U	10 U	46	32
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	13	10 U	10 U	10 U	34	9 J	10 U	39	36
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	2 J	10 U	10 U	10 U	10 U	10 U	10 U	4 J	3 J
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	19	10 U	10 U	10 U	140 DJ	8 J	10 U	70	56
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	36	10 U	4 J	4 J	1500 D	230 D	10 U	820 D	1100 D
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	54	10 U	10 U	10 U	47	5 J	10 U	120 DJ	130 DJ
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	28	10 U	10 U	10 U	5 J	10 U	10 U	67	42
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	ND	ND	245	ND	6	4	1916	291	ND	1381	1584

Table 3. Summary of BTEX, MTBE and PAH Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Location Name			SHMW-07IR	SHMW-08S	SHMW-08I	SHMW-09S	SHMW-09S	SHMW-09I	SHMW-10S	SHMW-10I	SHMW-11S	SHMW-11I	SHMW-12S	SHMW-12I	SHMW-13S	SHMW-13I
Sample Name			SHMW-07IR	SHMW-08S	SHMW-08I	SHMW-09S	DUP-SH 01	SHMW-09I	SHMW-10S	SHMW-10I	SHMW-11S	SHMW-11I	SHMW-12S	SHMW-12I	SHMW-13S	SHMW-13I
Start Depth			35	1	35	2	2	35	5	35.5	3.5	35	1.5	35	1.5	35
End Depth			45	7	45	12	12	45	15	45.5	13.5	45	6.5	45	6.5	45
Depth Unit			ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date			12/19/2013	12/20/2013	12/20/2013	12/16/2013	12/16/2013	12/16/2013	12/18/2013	12/18/2013	12/16/2013	12/16/2013	12/19/2013	12/19/2013	12/19/2013	12/19/2013
Parent Sample Code							SHMW-09S									
Analyte	Units	NYS AWQS														
BTEX																
Benzene	µg/L	1	1 U	3	1 U	70	69	2	1 U	1 U	1 U	1 U	20	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	8	8	1 U	1 U	1 U	1 U	1 U	1	1 U	1 U	1 U
Total Xylene	µg/L	5	1 U	1 U	1 U	15	15	1 U	1 U	1 U	1 U	1 U	5	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	3	ND	93	92	2	ND	ND	ND	ND	26	ND	ND	ND
Other VOCs																
Methyl tert-butyl ether (MTBE)	µg/L	10*	10 U	5 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
NYSDEC PAH17																
Acenaphthene	µg/L	20*	10 U	27	10 U	54	57	10 U	10 U	10 U	10 U	10 U	3 J	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	3 J	10 U	2 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	13	10 U	12	12	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	2 J	10 U	2 J	2 J	10 U	10 U	10 U	3 J	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	1 J	74	10 U	130	120	2 J	1 J	10 U	13	10 U	130 D	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	24	10 U	11	11	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	3 J	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	1	148	ND	211	204	2	1	ND	16	1	133	ND	ND	ND

Table 3. Groundwater Analytical Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Notes:

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

BTEX - benzene, toluene, ethylbenzene, and xylenes

VOCs - volatile organic compounds

PAHs - polycyclic aromatic hydrocarbons

Total BTEX and Total PAHs are calculated using detects only.

Total PAH16 is calculated using the EPA16 list of analytes: Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenzo[a,h]anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]pyrene, Naphthalene, Phenanthrene, and Pyrene
Total PAH17 is calculated using the EPA16 list of analytes plus 2-Methylnaphthalene

NYS AWQS - New York State Ambient Water Quality Standards and Guidance Values for GA groundwater

* indicates the value is a guidance value and not a standard

NYSDEC- New York State Department of Environmental Conservation

CAS no. - Chemical Abstracts Service number

NE - not established

ND - not detected

Bolding indicates a detected result concentration

Shading and bolding indicates that the detected concentration is above the NYSDOH guidance it was compared to

Data Qualifiers:

D - Results for dilution

DJ - Results for dilution are an estimated value

J - Estimated value

U - Indicates not detected to the reporting limit

UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

Table 4. Summary of Historical Total BTEX Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Well No.	Screen Interval (feet)	BTEX Concentrations (µg/L)													
		Sampling Date													
		1995	2000		2002	2004		2005				2006			
		Nov	Mar	Apr	May	May	Aug	Mar/Apr	June	Sept	Dec	March	June	Sept	Dec
MW-01	1.50 - 7.32	2,720	10	68	9	4	0	0	12	67	0	21	47	310	190
MW-02	0.50 - 7.25	5,429	8,840	7,940	5,840	13,287	8,740	7,333	13,010	--	13,720	7,591	--	14,174	12,267
MW-03	2.17 - 10.17	1,222	668	1,553	1,363	2,573	--	2,050	2,867	560	2,622	4,880	1,971	4,965	2,398
MW-04	1.25 - 6.81	864	35	--	10	208	--	0	0	225	299	268	193	181	101
MW-05	2.46 - 7.46	9,100	170	5	102	11,600	2,938	2,697	18,900	--	--	--	--	--	--
MW-06	2.47 - 7.47	334	47	30	91	49	--	33	55	39	36	74	37	11	54
SHMW-01S/01SR	1.0 - 6.0	--	--	1,413	874	2,102	--	1,367	1,810	406	1,313	2,562	2,085	5,183	2,915
SHMW-01I/01IR	35.0 - 45.0	--	--	5	0	0	--	--	--	--	0	--	--	--	0
SHMW-01D	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-02S	1.0 - 6.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-02I/02IR	35.0 - 45.0	--	--	26	0	1,179	16	20	20	19	25	0	0	0	0
SHMW-02D/02DR	65.0 - 75.0	--	--	5	4	0	--	--	--	--	0	--	--	--	0
SHMW-03S	2.0 - 12.0	--	--	63	0	110	--	48	53	46	75	131	67	97	13
SHMW-03I	35.0 - 45.0	--	--	0	52	0	--	--	--	--	0	--	--	--	0
SHMW-04S/04SR	2.0 - 12.0	--	--	7,940	3,154	12,180	--	9,369	17,730	8,960	21,920	25,860	9,361	18,398	10,489
SHMW-04I	35.0 - 45.0	--	--	5	0	0	--	--	--	--	0	--	--	--	0
SHMW-05S/05SR	2.0 - 12.0	--	--	37	69	83	--	107	282	2,960	115	202	45	43	26
SHMW-05I/05IR	35.0 - 45.0	--	--	0	0	0	--	--	--	--	0	--	--	--	0
SHMW-06S	2.0 - 6.0	--	--	2,392	2,463	3,057	--	2,630	1,950	--	2,910	2,622	1,702	4,289	2,196
SHMW-06I	35.0 - 45.0	--	--	0	0	0	--	--	--	--	0	--	--	--	0
SHMW-07S/07SR	1.0 - 11.0	--	--	2,011	1,562	414	--	1,482	3,340	2,458	1,722	1,400	1,060	--	1,137
SHMW-07I/07IR	35.0 - 45.0	--	--	0	0	0	--	--	--	--	0	--	--	--	0
SHMW-08S	1.0 - 7.0	--	--	5	2	9	--	0	14	0	15	11	0	19	0
SHMW-08I	35.0 - 45.0	--	--	0	0	0	--	--	--	--	0	--	--	--	0
SHMW-09S	2.0 - 12.0	--	--	1,024	506	1,100	--	500	1,000	--	920	1,130	770	768	500
SHMW-09I	35.0 - 45.0	--	--	0	0	0	--	--	--	--	0	--	--	--	0
SHMW-10S	5.0 - 15.0	--	--	--	0	0	--	0	0	0	0	0	0	0	0
SHMW-10I	35.5 - 45.5	--	--	--	0	0	--	--	--	--	0	--	--	--	0
SHMW-11S	3.5 - 13.5	--	--	--	0	0	--	0	0	0	0	0	0	0	0
SHMW-11I	35.0 - 45.0	--	--	--	0	0	--	--	--	--	0	--	--	--	0
SHMW-12S	1.5 - 6.5	--	--	--	0	344	--	142	930	69	290	140	463	581	182
SHMW-12I	35.0 - 45.0	--	--	--	0	0	--	--	--	--	0	--	--	--	0
SHMW-13S	1.5 - 6.5	--	--	--	0	0	--	0	0	0	0	0	0	0	0
SHMW-13I	35.0 - 45.0	--	--	--	0	0	--	--	--	--	0	--	--	--	0

Table 4. Summary of Historical Total BTEX Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Well No.	Screen Interval (feet)	BTEX Concentrations (µg/L)											
		Sampling Date											
		2007				2008				2009			
		March	June	Sept	Dec	March	June	Sep	Dec	March	June	Sept	Dec
MW-01	1.50 - 7.32	160	240	150	270	337	141	208	--	--	--	--	--
MW-02	0.50 - 7.25	8,678	12,810	15,181	98	8,865	7,415	2,240	--	--	--	--	--
MW-03	2.17 - 10.17	1,680	2,930	3,225	2,831	2,842	2,241	2,875	--	--	--	--	--
MW-04	1.25 - 6.81	0	51	89	66	--	15	79	--	--	--	--	--
MW-05	2.46 - 7.46	--	--	--	--	--	--	--	--	--	--	--	--
MW-06	2.47 - 7.47	0	37	31	0	1	33	7	--	--	--	--	--
SHMW-01S/01SR	1.0 - 6.0	691	2,460	2,600	1,684	1,595	306	243	--	--	--	--	--
SHMW-01I/01IR	35.0 - 45.0	0	--	--	--	--	--	--	--	--	--	--	--
SHMW-01D	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-02S	1.0 - 6.0	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-02I/02IR	35.0 - 45.0	--	11	12	15	18	41	29	--	--	--	--	--
SHMW-02D/02DR	65.0 - 75.0	--	--	--	0	--	--	--	--	--	--	--	--
SHMW-03S	2.0 - 12.0	122	80	12	50	3	0	5	13	111	24	4	9
SHMW-03I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	0	--	0
SHMW-04S/04SR	2.0 - 12.0	6,883	20,488	16,120	10,378	7,567	8,059	7,561	--	--	--	--	--
SHMW-04I	35.0 - 45.0	--	--	--	0	--	--	--	--	--	--	--	--
SHMW-05S/05SR	2.0 - 12.0	35	458	676	98	77	83	64	--	--	--	--	--
SHMW-05I/05IR	35.0 - 45.0	--	--	--	0	--	--	--	--	--	--	--	--
SHMW-06S	2.0 - 6.0	1,475	2,285	2,162	1,565	1,296	1,343	1,298	--	--	--	--	--
SHMW-06I	35.0 - 45.0	--	--	--	0	--	--	--	--	--	--	--	--
SHMW-07S/07SR	1.0 - 11.0	185	--	2,139	726	--	1,075	1,374	--	--	1,500	3,472	2,183
SHMW-07I/07IR	35.0 - 45.0	--	--	--	0	--	--	--	--	--	--	--	--
SHMW-08S	1.0 - 7.0	0	0	0	12	8	9	10	--	--	5	5	4
SHMW-08I	35.0 - 45.0	--	--	--	0	--	--	--	--	--	0	--	0
SHMW-09S	2.0 - 12.0	418	1,240	178	600	1,039	1,298	671	483	--	584	455	224
SHMW-09I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	0	--	0
SHMW-10S	5.0 - 15.0	0	0	0	0	0	1	0	0	0	0	0	0
SHMW-10I	35.5 - 45.5	--	--	--	0	--	--	--	0	--	0	--	0
SHMW-11S	3.5 - 13.5	0	0	0	0	0	0	0	0	0	0	0	0
SHMW-11I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	0	--	0
SHMW-12S	1.5 - 6.5	85	623	81	0	166	482	111	279	28	315	45	58
SHMW-12I	35.0 - 45.0	--	--	--	23	--	--	--	0	--	--	--	2
SHMW-13S	1.5 - 6.5	0	0	0	0	0	0	0	0	0	0	0	0
SHMW-13I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	0	--	0

Table 4. Summary of Historical Total BTEX Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Well No.	Screen Interval (feet)	BTEX Concentrations (µg/L)																Min	Max	Mean
		Sampling Date																		
		2010				2011				2012				2013						
March	June	Sept	Dec	March	June	Sept	Dec	March	June	Sept	Dec	March	June	Sept	Dec					
MW-01	1.50 - 7.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,720	236	
MW-02	0.50 - 7.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	98	15,181	9,129	
MW-03	2.17 - 10.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	560	4,965	2,416	
MW-04	1.25 - 6.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	864	149	
MW-05	2.46 - 7.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	18,900	5,689	
MW-06	2.47 - 7.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	334	50	
SHMW-01S/01SR	1.0 - 6.0	--	--	--	0	1	0	0	3	0	0	0	0	1	8	0	0	5,183	1,020	
SHMW-01I/01IR	35.0 - 45.0	--	--	--	0	--	--	--	3	--	--	--	0	--	--	--	1	0	5	1
SHMW-01D	65.0 - 75.0	--	--	--	0	--	--	--	3	--	--	--	0	--	--	--	0	0	3	1
SHMW-02S	1.0 - 6.0	--	--	--	3	0	3	0	5	1	0	0	0	0	5	0	0	0	5	1
SHMW-02I/02IR	35.0 - 45.0	--	--	--	4	0	--	--	14	--	--	--	0	--	--	--	11	0	1,179	63
SHMW-02D/02DR	65.0 - 75.0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	0	5	1
SHMW-03S	2.0 - 12.0	40	5	0	9	24	2	3	18	0	1	1	0	6	0	0	2	0	131	32
SHMW-03I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	4	0	52	4
SHMW-04S/04SR	2.0 - 12.0	--	--	--	2,717	702	469	292	572	391	709	654	449	158	14	949	1,846	14	25,860	7,495
SHMW-04I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	1
SHMW-05S/05SR	2.0 - 12.0	--	--	--	20	22	25	27	45	25	29	28	16	16	683	17	21	16	2,960	208
SHMW-05I/05IR	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	0	0	0
SHMW-06S	2.0 - 6.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,296	4,289	2,214
SHMW-06I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
SHMW-07S/07SR	1.0 - 11.0	1,825	3,946	--	858	455	1,172	607	700	1,418	670	2,822	251	1,289	852	972	1,305	185	3,946	1,466
SHMW-07I/07IR	35.0 - 45.0	--	--	--	0	--	--	--	11	--	--	--	0	--	--	--	0	0	11	1
SHMW-08S	1.0 - 7.0	6	13	4	9	7	10	5	9	5	7	2	6	5	6	4	3	0	19	6
SHMW-08I	35.0 - 45.0	--	--	--	0	--	--	--	5	--	--	--	0	--	--	--	0	0	5	0
SHMW-09S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	130	165	167	198	118	93	93	1,298	603
SHMW-09I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	0	--	--	--	2	0	2	0
SHMW-10S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
SHMW-10I	35.5 - 45.5	--	--	--	0	--	--	--	5	--	--	--	0	--	--	--	0	0	5	0
SHMW-11S	3.5 - 13.5	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8	0
SHMW-11I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	0	0	0
SHMW-12S	1.5 - 6.5	222	217	8	70	82	672	473	337	127	434	41	19	87	175	142	26	0	930	225
SHMW-12I	35.0 - 45.0	--	--	--	0	--	--	--	6	--	--	--	0	--	--	--	0	0	23	3
SHMW-13S	1.5 - 6.5	0	0	0	0	0	0	3	3	12	0	0	0	0	0	0	0	0	12	0
SHMW-13I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	0	0	0

NOTES:

-- not analyzed or not applicable
µg/L - micrograms per liter
BTEX - benzene, toluene, ethylbenzene, and xylene

Table 5. Summary of Historical Total PAH Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Well No.	Screen Interval (feet)	Total PAH Concentrations (µg/L)													
		Sampling Date													
		1995	2000		2002	2004		2005				2006			
		Nov	Mar	Apr	May	May	Aug	Mar/Apr	June	Sept	Dec	March	June	Sept	Dec
MW-01	1.50 - 7.32	4,906	1,548	257	402	30	24	0	61	200	0	0	0	97	95
MW-02	0.50 - 7.25	6,991	5,511	5,114	10,729	25,167	4,414	5,809	10,504	--	6,919	5,209	--	0	8,617
MW-03	2.17 - 10.17	7,034	3,065	3,433	3,774	3,522	--	2,272	4,557	516	92	1,256	565	4,831	6,212
MW-04	1.25 - 6.81	3,612	75	--	0	90	--	0	22	1,098	103	11	37	66	31
MW-05	2.46 - 7.46	16,386	779	101	1,160	431,600	2,049	918	188,200	--	--	--	--	--	--
MW-06	2.47 - 7.47	5,416	894	653	258	33	--	90	79	204	0	22	0	0	645
SHMW-01S/01SR	1.0 - 6.0	--	--	4,147	2,663	2,424	--	1,989	2,185	840	0	42	115	3,989	3,874
SHMW-01I/01IR	35.0 - 45.0	--	--	32	0	0	--	--	--	--	0	--	--	--	0
SHMW-01D	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-02S	1.0 - 6.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-02I/02IR	35.0 - 45.0	--	--	266	0	580,200	41	185	124	271	30	74	32	91	89
SHMW-02D/02DR	65.0 - 75.0	--	--	308	76	89	--	--	--	--	0	--	--	--	0
SHMW-03S	2.0 - 12.0	--	--	422	0	295	--	79	130	117	339	0	0	147	118
SHMW-03I	35.0 - 45.0	--	--	2	320	0	--	--	--	--	0	--	--	--	0
SHMW-04S/04SR	2.0 - 12.0	--	--	4,275	5,107	5,965	--	3,959	6,669	4,684	5,879	2,364	3,572	4,196	6,250
SHMW-04I	35.0 - 45.0	--	--	18	0	0	--	--	--	--	0	--	--	--	0
SHMW-05S/05SR	2.0 - 12.0	--	--	13	170	94	--	82	91	26	53	17	11	11	110
SHMW-05I/05IR	35.0 - 45.0	--	--	0	17	0	--	--	--	--	0	--	--	--	0
SHMW-06S	2.0 - 6.0	--	--	4,130	4,694	3,024	--	3,162	2,366	--	4,157	120	201	3,900	4,062
SHMW-06I	35.0 - 45.0	--	--	2	0	0	--	--	--	--	0	--	--	--	0
SHMW-07S/07SR	1.0 - 11.0	--	--	7,211	6,585	2,708	--	3,224	4,604	6,187	3,507	2,004	3,119	--	3,721
SHMW-07I/07IR	35.0 - 45.0	--	--	0	0	0	--	--	--	--	0	--	--	--	2,212
SHMW-08S	1.0 - 7.0	--	--	110	71	94	--	25	70	33	83	112	57	77	99
SHMW-08I	35.0 - 45.0	--	--	13	0	0	--	--	--	--	0	--	--	--	0
SHMW-09S	2.0 - 12.0	--	--	1,787	2,472	1,697	--	1,463	1,600	--	2,609	94	1,935	1,138	2,737
SHMW-09I	35.0 - 45.0	--	--	3	0	0	--	--	--	--	0	--	--	--	0
SHMW-10S	5.0 - 15.0	--	--	--	22	6	--	0	0	0	0	0	0	0	0
SHMW-10I	35.5 - 45.5	--	--	--	0	0	--	--	--	--	0	--	--	--	0
SHMW-11S	3.5 - 13.5	--	--	--	0	3	--	173	0	0	0	0	0	0	0
SHMW-11I	35.0 - 45.0	--	--	--	0	0	--	--	--	--	0	--	--	--	0
SHMW-12S	1.5 - 6.5	--	--	--	60	218	--	71	600	230	260	110	470	310	280
SHMW-12I	35.0 - 45.0	--	--	--	0	0	--	--	--	--	0	--	--	--	0
SHMW-13S	1.5 - 6.5	--	--	--	0	0	--	0	0	0	0	0	0	0	0
SHMW-13I	35.0 - 45.0	--	--	--	0	0	--	--	--	--	0	--	--	--	0

Table 5. Summary of Historical Total PAH Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Well No.	Screen Interval (feet)	Total PAH Concentrations (µg/L)											
		Sampling Date											
		2007				2008				2009			
		March	June	Sept	Dec	March	June	Sep	Dec	March	June	Sept	Dec
MW-01	1.50 - 7.32	0	54	87	39	145	2	35	--	--	--	--	--
MW-02	0.50 - 7.25	3,150	7,421	5,398	165	400	3,455	3,488	--	--	--	--	--
MW-03	2.17 - 10.17	349	489	463	2,904	508	96	1,109	--	--	--	--	--
MW-04	1.25 - 6.81	0	66	238	6	--	0	22	--	--	--	--	--
MW-05	2.46 - 7.46	--	--	--	--	--	--	--	--	--	--	--	--
MW-06	2.47 - 7.47	35	46	17	0	0	0	10	--	--	--	--	--
SHMW-01S/01SR	1.0 - 6.0	0	1,058	1,691	42	0	0	0	--	--	--	--	--
SHMW-01I/01IR	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-01D	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-02S	1.0 - 6.0	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-02I/02IR	35.0 - 45.0	0	10	175	32	8	42	209	--	--	--	--	--
SHMW-02D/02DR	65.0 - 75.0	--	--	--	15	--	--	--	--	--	--	--	--
SHMW-03S	2.0 - 12.0	430	191	12	154	0	0	17	29	0	20	0	0
SHMW-03I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	0	--	0
SHMW-04S/04SR	2.0 - 12.0	2,632	3,999	4,693	4,305	0	1,328	1,868	--	--	--	--	--
SHMW-04I	35.0 - 45.0	--	--	--	0	--	--	--	--	--	--	--	--
SHMW-05S/05SR	2.0 - 12.0	0	0	14	8	2	0	31	--	--	--	--	--
SHMW-05I/05IR	35.0 - 45.0	--	--	--	0	--	--	--	--	--	--	--	--
SHMW-06S	2.0 - 6.0	1,703	3,574	4,368	380	0	44	5,848	--	--	--	--	--
SHMW-06I	35.0 - 45.0	--	--	--	0	--	--	--	--	--	--	--	--
SHMW-07S/07SR	1.0 - 11.0	0	--	3,902	4	--	54	3,252	--	--	2,919	4,722	5,286
SHMW-07I/07IR	35.0 - 45.0	--	--	--	0	--	--	--	--	--	--	--	--
SHMW-08S	1.0 - 7.0	13	90	10	13	14	21	55	--	--	59	60	112
SHMW-08I	35.0 - 45.0	--	--	--	0	--	--	--	--	--	1	--	0
SHMW-09S	2.0 - 12.0	48	206	2,246	130	0	92	485	503	--	68	39	389
SHMW-09I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	0	--	0
SHMW-10S	5.0 - 15.0	0	0	0	1	0	0	0	0	0	0	0	0
SHMW-10I	35.5 - 45.5	--	--	--	0	--	--	--	0	--	0	--	0
SHMW-11S	3.5 - 13.5	0	0	0	0	0	0	0	0	0	0	2	0
SHMW-11I	35.0 - 45.0	--	--	--	4	--	--	--	0	--	0	--	0
SHMW-12S	1.5 - 6.5	15	560	0	155	9	137	259	280	0	332	4	216
SHMW-12I	35.0 - 45.0	--	--	--	20	--	--	--	0	--	--	--	0
SHMW-13S	1.5 - 6.5	0	0	0	0	0	0	0	0	0	0	0	0
SHMW-13I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	0	--	0

Table 5. Summary of Historical Total PAH Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2013

Well No.	Screen Interval (feet)	Total PAH Concentrations (µg/L)																		Min	Max	Mean
		Sampling Date																				
		2010				2011				2012				2013								
March	June	Sept	Dec	March	June	Sept	Dec	March	June	Sept	Dec	March	June	Sept	Dec							
MW-01	1.50 - 7.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,906	380			
MW-02	0.50 - 7.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	25,167	6,235			
MW-03	2.17 - 10.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	92	7,034	2,352			
MW-04	1.25 - 6.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3,612	304			
MW-05	2.46 - 7.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	101	431,600	80,149			
MW-06	2.47 - 7.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,416	420			
SHMW-01S/01SR	1.0 - 6.0	--	--	--	0	0	0	0	4	7	21	0	0	8	0	0	0	4,147	810			
SHMW-01I/01IR	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	32	4			
SHMW-01D	65.0 - 75.0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	0	0			
SHMW-02S	1.0 - 6.0	--	--	--	0	0	0	0	0	5	0	0	0	5	0	0	0	5	1			
SHMW-02I/02IR	35.0 - 45.0	--	--	--	9	3	--	--	0	--	--	--	56	--	--	--	245	0	580,200			
SHMW-02D/02DR	65.0 - 75.0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	308	49			
SHMW-03S	2.0 - 12.0	0	22	0	0	2	7	25	22	6	10	22	2	23	14	16	6	430	69			
SHMW-03I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	4	320	25			
SHMW-04S/04SR	2.0 - 12.0	--	--	--	3,598	1,440	978	811	942	581	1,296	1,195	639	402	100	1,875	1,916	6,669	2,823			
SHMW-04I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	18	3			
SHMW-05S/05SR	2.0 - 12.0	--	--	--	0	4	167	273	131	309	219	420	20	107	175	155	291	420	97			
SHMW-05I/05IR	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	17	2			
SHMW-06S	2.0 - 6.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,848	2,690			
SHMW-06I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0			
SHMW-07S/07SR	1.0 - 11.0	3,410	4,547	--	1,456	0	1,736	885	955	927	444	4,342	419	2,620	950	4,030	1,381	7,211	2,761			
SHMW-07I/07IR	35.0 - 45.0	--	--	--	0	--	--	--	4	--	--	--	0	--	--	--	1	2,212	222			
SHMW-08S	1.0 - 7.0	129	201	34	3	11	185	195	35	152	111	113	182	95	151	180	148	201	87			
SHMW-08I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	13	1			
SHMW-09S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	787	690	721	575	603	211	2,737	938			
SHMW-09I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	0	--	--	--	2	3	0			
SHMW-10S	5.0 - 15.0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0	1	22	1			
SHMW-10I	35.5 - 45.5	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	0	0			
SHMW-11S	3.5 - 13.5	0	0	0	0	0	0	2	4	6	0	0	2	1	0	7	16	173	6			
SHMW-11I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	1	4	0			
SHMW-12S	1.5 - 6.5	177	585	3	0	0	584	739	513	154	361	217	104	62	410	604	133	739	243			
SHMW-12I	35.0 - 45.0	--	--	--	0	--	--	--	2	--	--	--	0	--	--	--	0	20	2			
SHMW-13S	1.5 - 6.5	0	0	0	0	0	0	3	2	2	0	0	0	0	0	0	0	3	0			
SHMW-13I	35.0 - 45.0	--	--	--	0	--	--	--	1	--	--	--	0	--	--	--	0	1	0			

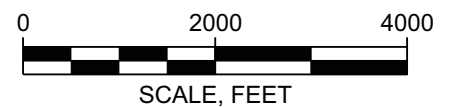
NOTES:

-- not analyzed or not applicable
µg/L - micrograms per liter
PAH - polycyclic aromatic hydrocarbons

Figures



SOURCE: Map created with TOPO! © 2001 National Geographic
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SAG HARBOR FORMER MGP SITE
SAG HARBOR, NEW YORK

nationalgrid

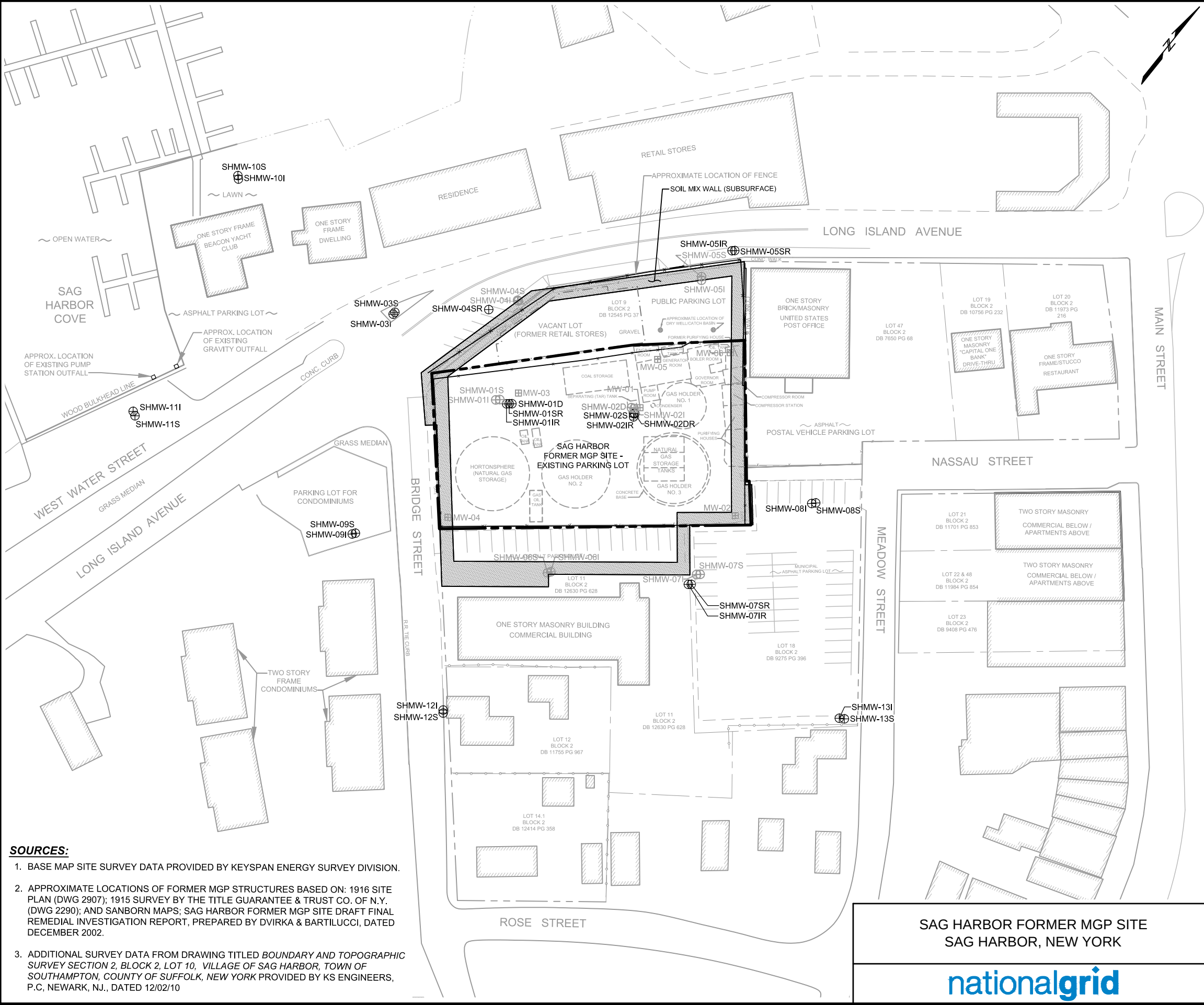


Project 093190-2-1203

SITE LOCATION MAP

March 2014

Figure 1



LEGEND

APPROXIMATE LOCATION OF FORMER MGP STRUCTURE

LOCATION OF EXISTING STRUCTURE

CURRENT SITE BOUNDARY

ADJACENT SITE BOUNDARY

CHAIN-LINK FENCE

STOCKADE FENCE

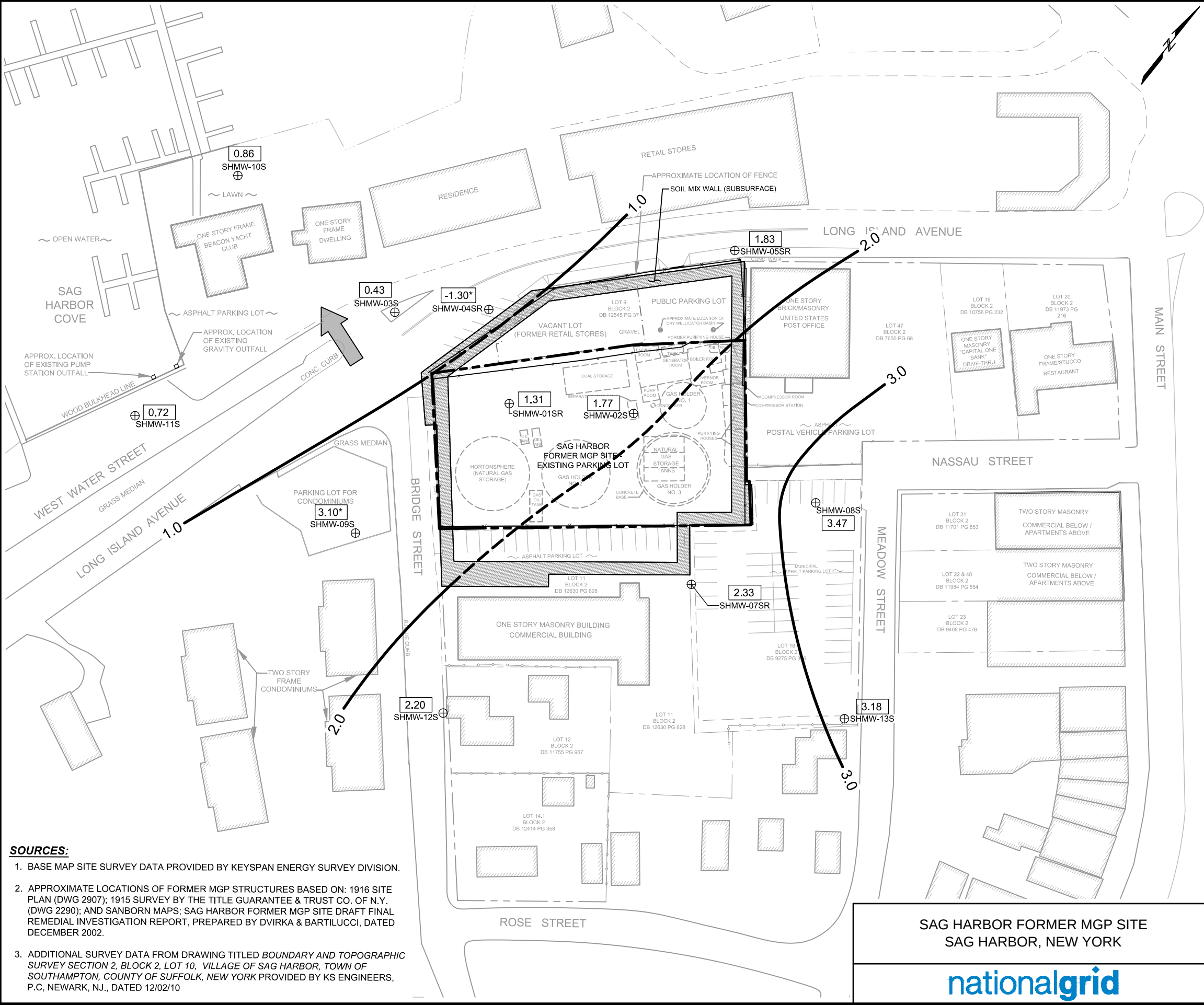
FORMER MONITORING WELL (WELL ABANDONED OR DESTROYED)

MONITORING WELL LOCATION

- SOURCES:**
1. BASE MAP SITE SURVEY DATA PROVIDED BY KEYSpan ENERGY SURVEY DIVISION.
 2. APPROXIMATE LOCATIONS OF FORMER MGP STRUCTURES BASED ON: 1916 SITE PLAN (DWG 2907); 1915 SURVEY BY THE TITLE GUARANTEE & TRUST CO. OF N.Y. (DWG 2290); AND SANBORN MAPS; SAG HARBOR FORMER MGP SITE DRAFT FINAL REMEDIAL INVESTIGATION REPORT, PREPARED BY DVIRKA & BARTILUCCI, DATED DECEMBER 2002.
 3. ADDITIONAL SURVEY DATA FROM DRAWING TITLED *BOUNDARY AND TOPOGRAPHIC SURVEY SECTION 2, BLOCK 2, LOT 10, VILLAGE OF SAG HARBOR, TOWN OF SOUTHAMPTON, COUNTY OF SUFFOLK, NEW YORK* PROVIDED BY KS ENGINEERS, P.C, NEWARK, NJ., DATED 12/02/10



SAG HARBOR FORMER MGP SITE SAG HARBOR, NEW YORK		MONITORING WELL LOCATION MAP	
		Project 093190-2-1203	March 2014



LEGEND

APPROXIMATE LOCATION OF FORMER MGP STRUCTURE

LOCATION OF EXISTING STRUCTURE

CURRENT SITE BOUNDARY

ADJACENT SITE BOUNDARY

CHAIN-LINK FENCE

STOCKADE FENCE

SHMW-05S

FORMER MONITORING WELL (WELL ABANDONED OR DESTROYED)

SHMW-03S

MONITORING WELL LOCATION

0.86

GROUNDWATER ELEVATION IN FEET

3.10*

MEASUREMENT NOT USED TO GENERATE CONTOURS

1.0

GROUNDWATER CONTOUR (FT)

2.0

GROUNDWATER CONTOUR (INFERRED)

APPROXIMATE GROUNDWATER FLOW DIRECTION

- SOURCES:**
1. BASE MAP SITE SURVEY DATA PROVIDED BY KEYSpan ENERGY SURVEY DIVISION.
 2. APPROXIMATE LOCATIONS OF FORMER MGP STRUCTURES BASED ON: 1916 SITE PLAN (DWG 2907); 1915 SURVEY BY THE TITLE GUARANTEE & TRUST CO. OF N.Y. (DWG 2290); AND SANBORN MAPS; SAG HARBOR FORMER MGP SITE DRAFT FINAL REMEDIAL INVESTIGATION REPORT, PREPARED BY DVIRKA & BARTILUCCI, DATED DECEMBER 2002.
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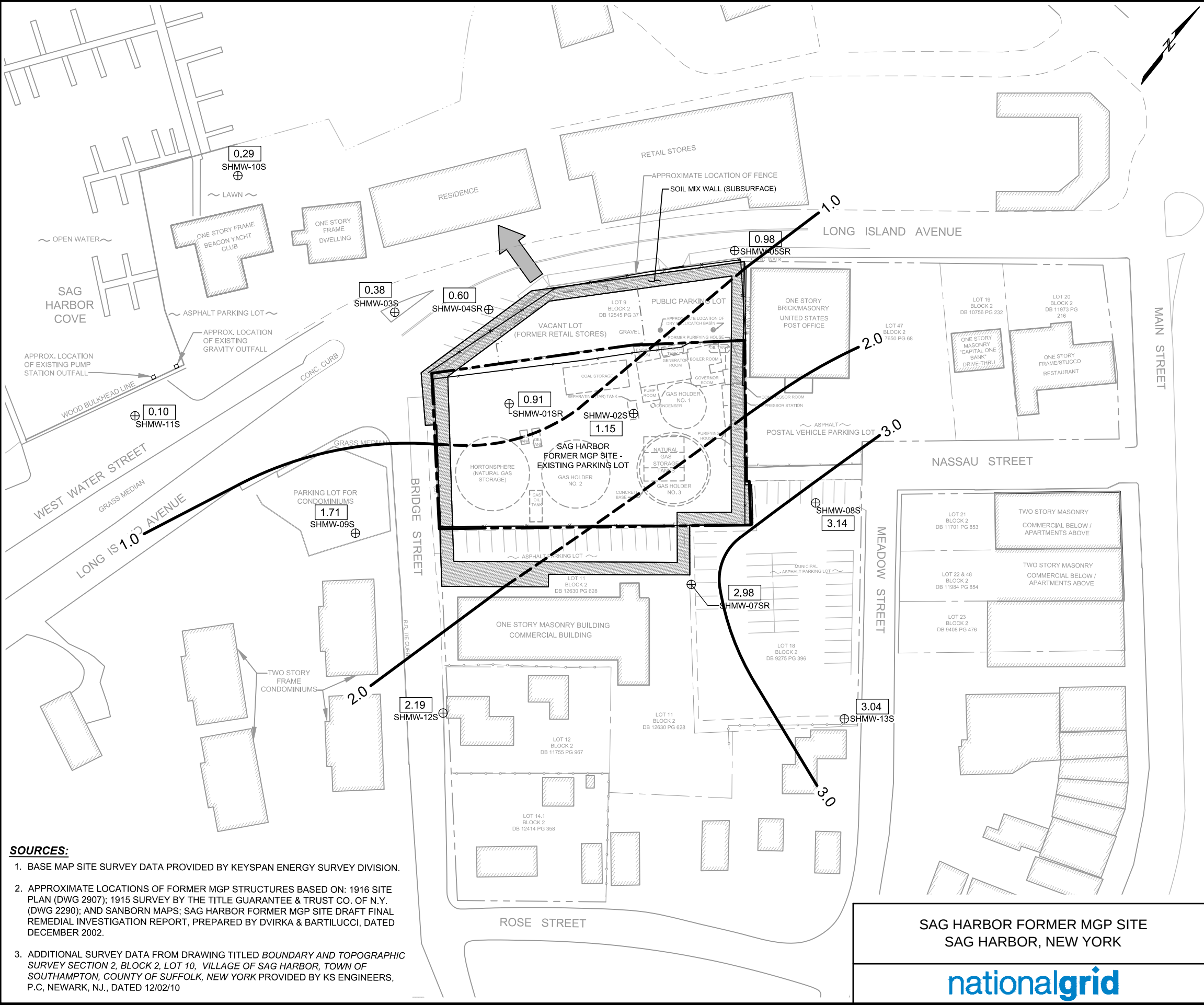
SAG HARBOR FORMER MGP SITE
SAG HARBOR, NEW YORK

Project 093190-2-1203

SHALLOW GROUNDWATER
CONTOURS - HIGH TIDE
12/23/13

March 2014

Figure 3



LEGEND

APPROXIMATE LOCATION OF FORMER MGP STRUCTURE

LOCATION OF EXISTING STRUCTURE

CURRENT SITE BOUNDARY

ADJACENT SITE BOUNDARY

CHAIN-LINK FENCE

STOCKADE FENCE

SHMW-05S

FORMER MONITORING WELL (WELL ABANDONED OR DESTROYED)

SHMW-03S

MONITORING WELL LOCATION

0.29

GROUNDWATER ELEVATION IN FEET

2.0

GROUNDWATER CONTOUR (FT)

2.0

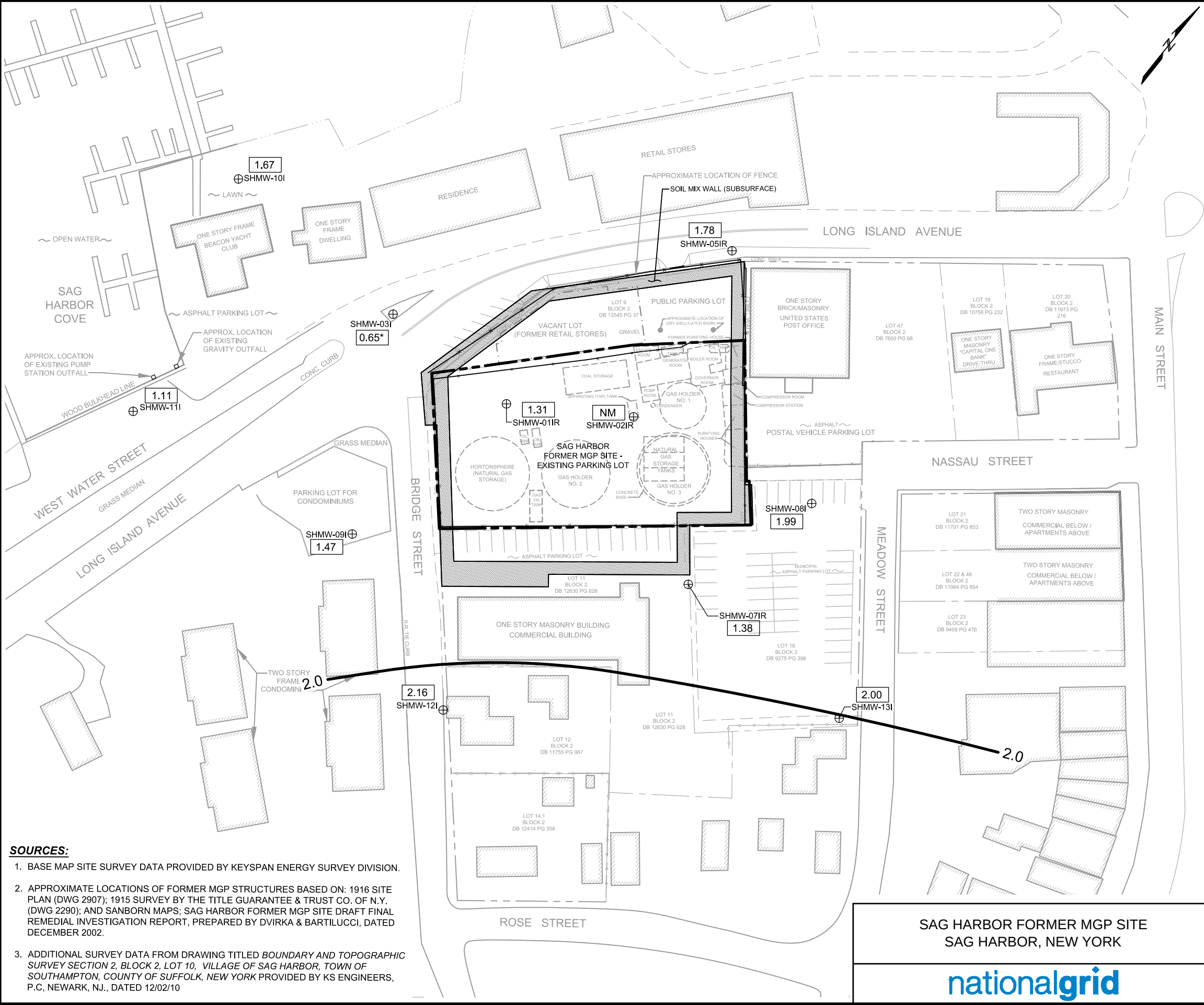
GROUNDWATER CONTOUR (INFERRED)

APPROXIMATE GROUNDWATER FLOW DIRECTION

- SOURCES:**
- BASE MAP SITE SURVEY DATA PROVIDED BY KEYSpan ENERGY SURVEY DIVISION.
 - APPROXIMATE LOCATIONS OF FORMER MGP STRUCTURES BASED ON: 1916 SITE PLAN (DWG 2907); 1915 SURVEY BY THE TITLE GUARANTEE & TRUST CO. OF N.Y. (DWG 2290); AND SANBORN MAPS; SAG HARBOR FORMER MGP SITE DRAFT FINAL REMEDIAL INVESTIGATION REPORT, PREPARED BY DVIRKA & BARTILUCCI, DATED DECEMBER 2002.
 - ADDITIONAL SURVEY DATA FROM DRAWING TITLED *BOUNDARY AND TOPOGRAPHIC SURVEY SECTION 2, BLOCK 2, LOT 10, VILLAGE OF SAG HARBOR, TOWN OF SOUTHAMPTON, COUNTY OF SUFFOLK, NEW YORK* PROVIDED BY KS ENGINEERS, P.C, NEWARK, NJ., DATED 12/02/10



SAG HARBOR FORMER MGP SITE SAG HARBOR, NEW YORK		SHALLOW GROUNDWATER CONTOURS - LOW TIDE 12/23/13
	March 2014	Figure 4



LEGEND

APPROXIMATE LOCATION OF FORMER MGP STRUCTURE

LOCATION OF EXISTING STRUCTURE

CURRENT SITE BOUNDARY

ADJACENT SITE BOUNDARY

CHAIN-LINK FENCE

STOCKADE FENCE

SHMW-02I

FORMER MONITORING WELL (WELL ABANDONED OR DESTROYED)

SHMW-03I

MONITORING WELL LOCATION

1.67

GROUNDWATER ELEVATION IN FEET

NM

WELL NOT MEASURED

0.65*

MEASUREMENT NOT USED TO GENERATE CONTOURS

2.0

GROUNDWATER CONTOUR (FT)

- SOURCES:**
1. BASE MAP SITE SURVEY DATA PROVIDED BY KEYSpan ENERGY SURVEY DIVISION.
 2. APPROXIMATE LOCATIONS OF FORMER MGP STRUCTURES BASED ON: 1916 SITE PLAN (DWG 2907); 1915 SURVEY BY THE TITLE GUARANTEE & TRUST CO. OF N.Y. (DWG 2290); AND SANBORN MAPS; SAG HARBOR FORMER MGP SITE DRAFT FINAL REMEDIAL INVESTIGATION REPORT, PREPARED BY DVIRKA & BARTILUCCI, DATED DECEMBER 2002.
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SAG HARBOR FORMER MGP SITE
SAG HARBOR, NEW YORK

Project 093190-2-1203

INTERMEDIATE
GROUNDWATER CONTOURS
HIGH TIDE
12/23/13

March 2014

Figure 5

