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Geotechnical
Environmental and
Water Resources
Engineering

Quarterly Groundwater Monitoring Report
Fourth Quarter (Q4) 2011

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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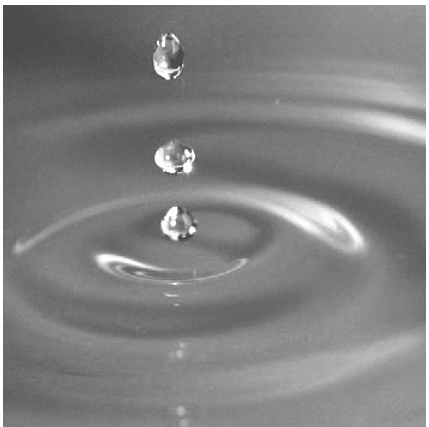
February 2012
Project 093190-2-1203



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1. Sag Harbor Site and Adjacent Offsite Areas

Fourth Quarter (Q4) 2011 Groundwater Monitoring Event Summary

Event Date: December 12, 13, 14 and 16, 2011

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 replacement post remediation monitoring well installation program in Q4 2010.

Monitoring wells SHMW-02IR and SHMW-04SR were installed as larger diameter, potential dense non-aqueous phase liquid (DNAPL) recovery wells. 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.

Access to monitoring wells SHMW-09S and SHMW-09I could not be obtained for the Q4 2011 groundwater monitoring event.

Hydrological Data

Groundwater levels were measured on December 16, 2011 at 22 of the 25 monitoring wells, during low and high tide. Monitoring well SHMW-02I 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 2011, are provided in the following table:

	High Tide			Low Tide		
	Range			Range		
Depth Zone	DTW[1]	WLE[2]	Gradient[3]	DTW[1]	WLE[2]	Gradient[3]
Shallow	0.00 – 4.39	0.93 – 3.16	0.0029	0.02 – 5.57	-0.25 – 2.60	0.0034
Intermediate	0.10 – 3.37	1.59 – 2.64	0.0009	0.09 – 5.01	0.62 – 2.54	0.0028

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

NAPL Thickness Data

Table 2 provides a summary of historical non-aqueous phase liquid (NAPL) data. In Q4 2011, all 23 of the accessible monitoring wells were monitored for NAPL as part of the groundwater monitoring program. There was no evidence of light non-aqueous phase liquid (LNAPL) or DNAPL in any of the monitoring wells during Q4 2011.

Chemical Data

In Q4 2011, a total of 23 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 12, 13 and 14, 2011 and included all accessible wells on the annual sampling list.

Chemical data for Q4 2011 (**Table 3**) indicate:

- BTEX concentrations ranged from below method detection limits (ND) in 6 of the 23 wells sampled to 700 micrograms per liter (µg/L) in SHMW-07SR.
- Total PAH concentrations ranged from below ND in 10 of the 23 wells sampled to 955 µg/L in SHMW-07SR.
- MTBE concentrations ranged from ND in 21 of the 23 wells sampled to 4 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**) are decreasing in shallow groundwater on and adjacent to the site as indicated in the table below. However, variations in BTEX and total PAH concentrations in shallow wells have been observed in recent sampling events. Following increases observed during Q2 2011, concentrations in Q3 2011 generally decreased. Q4 2011 BTEX concentrations increased slightly, while total PAH concentrations in shallow groundwater slightly decreased. Overall, the concentrations observed during recent sampling events remain significantly below historical levels (see table below).

	Historical*		Q2 2011		Q3 2011		Q4 2011	
Shallow Zone	Max	Average	Max	Average	Max	Average	Max	Average
BTEX	25,860	1,261	1,172	214	607	128	700	155
Total PAHs	7,211**	753	1,736	406	885	267	955	237

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 10 shallow monitoring wells in Q4 2011. The concentration in monitoring well SHMW-11S (8 µg/L) was the first detection in this well in the historical monitoring period, but is relatively low. Similarly, the concentrations in monitoring wells SHMW-01SR (3 µg/L), SHMW-02S (5 µg/L), SHMW-03S (18 µg/L), SHMW-05SR (45 µg/L), SHMW-08S (9 µg/L) and SHMW-13S (3 µg/L), were also relatively low (below 50 µg/L). The Q4 2011 detections in these wells remained similar to, or below their respective historical mean concentrations.

Elevated BTEX concentrations in the remaining shallow wells in Q4 2011 were limited to SHMW-04SR, SHMW-07SR and SHMW-12S. The concentrations in SHMW-04SR (572 µg/L) increased compared to Q3 2011, which was the lowest concentration detected during the historical monitoring period, but remains well below the historical mean concentration (10,300 µg/L). Similarly, the concentration in SHMW-07SR (700 µg/L) also increased relative to Q3 2011, but remains below the historical mean concentration (1,588 µg/L). The Q4 2011 concentration in monitoring well SHMW-12S (337 µg/L) decreased relative to Q3 2011, but slightly exceeded its historical mean concentration (247 µg/L).

For total PAH concentrations, 10 shallow wells had detections in Q4 2011, with four of the 10 detections being near detection levels (1 µg/L in SHMW-01SR, 1 µg/L in SHMW-10S, 4 µg/L in SHMW-11S, and 2 µg/L in SHMW-13S).

The total PAH concentrations in Q4 2011 in SHMW-04SR (942 µg/L) and SHMW-07SR (955 µg/L) increased from Q3 2011 levels, but were significantly below their respective historical mean concentrations. The Q4 2011 concentrations in SHMW-05S (131 µg/L) and SHMW-12S (513 µg/L) both decreased relative to Q3 2011 levels, which represented the maximum values recorded during the historical monitoring period. The Q4 2011 total PAH detections in these wells remain above their respective historical means. The total PAH concentration in SHMW-08S (35 µg/L) also decreased relative to the previous two sampling events and was below its historical mean concentration. The Q4 2011 total PAH detection in SHMW-03S (22 µg/L) decreased slightly and also remained below its historical mean concentration.

Intermediate and Deep Zones

Concentrations of BTEX were identified in seven of the 12 intermediate or deep zone monitoring wells in Q4 2011. The concentrations in all of these wells were relatively low, with a maximum detection of 14 µg/L in monitoring well SHMW-02IR. Detections of BTEX in the most recent historical annual sampling round (Q4 2010), were limited to SHMW-02IR (4 µg/L). Q4 2011 detections in the remaining intermediate or deep zone monitoring wells

excluding SHMW-02IR, were relatively low (maximum of 11 µg/L), but above their respective historical means.

Q4 2011 detections of total PAHs in the intermediate or deep zones were all relatively low and were limited to three monitoring wells, SHMW-07IR (4 µg/L), SHMW-12I (2 µg/L), and SHMW-13I (1 µg/L). The detections in SHMW-07IR and SHMW-12I remained within their respective historical mean concentrations. The concentration in SHMW-13I was the first detection in this well in the historical monitoring period.

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 PAH trapped beneath the groundwater/soil vapor interface.

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/04SR). Historically, trace amounts of NAPL have been found in two onsite shallow wells, MW-03 and MW-04, and two offsite shallow wells, SHMW-06S and SHMW-02IR, and intermittently in SHMW-07S and SHMW-07SR. Excluding SHMW-07S and SHMW-07SR, all of the wells identified above in which NAPL has been historically detected were either destroyed or abandoned prior to the start of remedial activities. Monitoring well SHMW-07S was damaged presumably during remedial activities and subsequently replaced.

Trace amounts of LNAPL and DNAPL have historically been found in monitoring wells SHMW-04SR and SHMW-07SR. However, there was no evidence of NAPL in these monitoring wells or any of the remaining monitoring wells during Q4 2011.

Future Plans

Continue quarterly groundwater and NAPL monitoring at site monitoring wells.

Tables

Table 1
Water Level Measurements and Calculated Water Elevations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2011

Well ID	Top of Casing Elevation (ft)*	Tide	Time	12/16/2011		Notes
				Depth to Water (ft)	Groundwater Elevation (ft)	
MW-01	5.09	High	--	--	--	Well abandoned
		Low	--	--	--	
MW-02	4.48	High	--	--	--	Well abandoned
		Low	--	--	--	
MW-03	4.59	High	--	--	--	Well abandoned
		Low	--	--	--	
MW-04	4.13	High	--	--	--	Well abandoned
		Low	--	--	--	
MW-05	5.07	High	--	--	--	Well destroyed
		Low	--	--	--	
MW-06	5.38	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-01SR	3.71	High	1359	2.09	1.62	Well replaced in Q4 2010
		Low	0805	2.10	1.61	
SHMW-01IR	3.81	High	1359	2.15	1.66	Well replaced in Q4 2010
		Low	0805	1.56	2.25	
SHMW-01D	3.67	High	1400	2.00	1.67	Well installed in Q4 2010
		Low	0805	3.11	0.56	
SHMW-02S	3.95	High	1355	2.26	1.69	Well installed in Q4 2010
		Low	0800	2.48	1.47	
SHMW-02IR	3.92	High	--	NM	--	Survey point altered
		Low	--	NM	--	
SHMW-02DR	3.66	High	1358	1.81	1.85	Well replaced in Q4 2010
		Low	0802	2.99	0.67	
SHMW-03S	3.83	High	1407	2.51	1.32	
		Low	0810	2.96	0.87	
SHMW-03I	3.85	High	1408	1.93	1.92	
		Low	0812	2.70	1.15	
SHMW-04SR	3.90	High	1402	2.65	1.25	Well replaced in Q4 2010
		Low	0807	2.76	1.14	
SHMW-04I	5.71	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-05SR	5.03	High	1404	3.55	1.48	Well replaced in Q4 2010
		Low	0807	3.01	2.02	
SHMW-05IR	4.96	High	1404	3.37	1.59	Well replaced in Q4 2010
		Low	0808	3.10	1.86	
SHMW-06S	4.44	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-06I	4.43	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-07SR	3.48	High	1421	1.90	1.58	
		Low	0830	0.99	2.49	
SHMW-07IR	3.38	High	1421	1.00	2.38	
		Low	0832	1.70	1.68	
SHMW-08S	3.69	High	1425	0.53	3.16	
		Low	0836	1.14	2.55	
SHMW-08I	3.79	High	1425	1.50	2.29	
		Low	0836	1.60	2.19	
SHMW-09S	3.06	High	--	NM	--	Access not provided
		Low	--	NM	--	
SHMW-09I	2.82	High	--	NM	--	Access not provided
		Low	--	NM	--	
SHMW-10S	4.75	High	1410	3.80	0.95	
		Low	0814	4.29	0.46	
SHMW-10I	4.75	High	1412	3.04	1.71	
		Low	0814	4.01	0.74	
SHMW-11S	5.32	High	1412	4.39	0.93	
		Low	0815	5.57	-0.25	
SHMW-11I	5.63	High	1414	2.99	2.64	
		Low	0818	5.01	0.62	
SHMW-12S	1.98	High	1416	0.00	1.98	
		Low	0820	0.02	1.96	
SHMW-12I	1.99	High	14.18	0.10	1.89	
		Low	0825	0.09	1.90	
SHMW-13S	3.36	High	1422	0.59	2.77	
		Low	0835	0.76	2.60	
SHMW-13I	3.50	High	1422	1.19	2.31	
		Low	0834	0.96	2.54	

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

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2011

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
MW-01	None Observed	Odor	None Observed	Not Checked	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
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
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
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.
MW-06	None Observed	Slight naphthalene-like odor	NR	NR	NR	NR	NR	NR	NR
SHMW-01S/01SR	None Observed	Slight naphthalene-like odor	NR	NR	NR	NR	NR	NR	NR
SHMW-01I/01IR	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-01D	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02S	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
SHMW-02D/02DR	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-03S	None Observed	Odor	NR	NR	NR	NR	NR	NR	NR
SHMW-03I	None Observed	None Observed	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
SHMW-04I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
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
SHMW-05I/05IR	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2011

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
SHMW-06S	Slight sheen and naphthalene-like odor	Naphthalene-like odor	NR	NR	NR	NR	NR	NR	NR
SHMW-06I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-07S/07SR	Sheen and naphthalene-like odor	Slight odor	NR	NR	NR	NR	NR	NR	NR
SHMW-07I/07IR	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-08S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-08I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-09S	None Observed	Slight naphthalene-like odor	NR	NR	NR	NR	NR	NR	NR
SHMW-09I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-10S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-10I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-11S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-11I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-12S	None Observed	Sheen, strong sulfur-like odor	NR	NR	NR	NR	NR	NR	NR
SHMW-12I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-13S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-13I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2011

Well ID	Apr/Q1 2005 Observations	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
MW-01	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-02	Approx. 0.15' of DNAPL	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
MW-03	Trace DNAPL at bottom of tape	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)
MW-04	None Observed	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)
MW-05	Sporadic DNAPL, approx. 0.1' of LNAPL.	Approx. 3.0' of DNAPL	Approx. 0.75' of DNAPL, approx. 0.12' of LNAPL	DNAPL blebs in purge H2O, 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)
MW-06	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-01S/01SR	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-01I/01IR	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-01D	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02S	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02I/02IR	Approx. 1.1' of DNAPL	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)
SHMW-02D/02DR	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-03S	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-03I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-04S/04SR	Approx. 0.25' of DNAPL	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
SHMW-04I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-05S/05SR	None Observed	None Observed	None Observed	None Observed	No DNAPL observed	None Observed	None Observed	None Observed	None Observed
SHMW-05I/05IR	NR	NR	NR	NR	NR	NR	NR	NR	None Observed

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2011

Well ID	Apr/Q1 2005 Observations	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
SHMW-06S	NR	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)
SHMW-06I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-07S/07SR	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-07I/07IR	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-08S	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-08I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-09S	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-09I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-10S	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-10I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-11S	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-11I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-12S	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-12I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-13S	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-13I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2011

Well ID	Jun/Q2 2007 Observations	Sep/Q3 2007 Observations	Dec/Q4 2007 Observations	Mar/Q1 2008 Observations	Jun/Q2 2008 Observations	Sep/Q3 2008 Obsevations	Dec/Q4 2008 Obsevations	Mar/Q1 2009 Observations	Jun/Q2 2009 Observations
MW-01	NR	NR	None Observed	None Observed	Trace DNAPL	Trace DNAPL (at bottom of tubing)	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
MW-02	Approx.0.07' DNAPL	Approx. 0.11' DNAPL	Approx. ~0.08'	Trace DNAPL	Moderate DNAPL; not measureable	Trace DNAPL	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
MW-03	None Observed	Trace DNAPL (coating on tubes)	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
MW-04	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	Approx. ~0.02'	NR	Trace DNAPL	Trace DNAPL (at bottom of tubing)	Well Inaccessible or 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
MW-06	NR	NR	None Observed	None Observed	None Observed	None Observed	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-01S/01SR	NR	NR	None Observed	None Observed	None Observed	None Observed	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-01I/01IR	NR	NR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-01D	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02S	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02I/02IR	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	Approx. ~0.60'	Approx. 3' DNAPL	Approx. 1.5' DNAPL	Approx. 4' DNAPL	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-02D/02DR	NR	NR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-03S	NR	NR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-03I	NR	NR	None Observed	NR	NR	NR	None Observed	NR	None Observed
SHMW-04S/04SR	Approx.0.50' DNAPL	Approx. 0.5' DNAPL	Approx. ~0.61'	Approx. 1.05' DNAPL	Approx.0.6' DNAPL	Approx.0.75' DNAPL	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-04I	NR	NR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-05S/05SR	None Observed	NR	None Observed	None Observed	None Observed	None Observed	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-05I/05IR	NR	NR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2011

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

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2011

Well ID	Sep/Q3 2009 Observations	Dec/Q4 2009 Observations	Mar/Q1 2010 Observations	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
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	Well Abandoned	Well Abandoned	Well Abandoned	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-01I/01IR	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-01D	NI	NI	NI	NI	NI	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-02S	NI	NI	NI	NI	NI	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-02I/02IR	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	None Observed	Well Damaged	Well Damaged	Well Damaged	None Observed
SHMW-02D/02DR	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	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	NR	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	Well Abandoned	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
SHMW-04I	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-05S/05SR	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-05I/05IR	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	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 2011

Well ID	Sep/Q3 2009 Observations	Dec/Q4 2009 Observations	Mar/Q1 2010 Observations	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
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	Trace DNAPL (on side of tubing)	None Observed	None Observed	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
SHMW-07I/07IR	NR	None Observed (approximately 10 feet of sand present in well)	None Observed (approximately 10 feet of sand present in well)	Well Inaccessible	Well Inaccessible	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	NR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-09S	None Observed	None Observed	Well Inaccessible	None Observed	None Observed	No access	No access	No access	No access	No access
SHMW-09I	NR	None Observed	None Observed	None Observed	None Observed	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	NR	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	NR	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	NR	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	NR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed

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 2011

				Duplicate of:				
Sample Name	NY	SHMW-01SR	SHMW-01IR	SHMW-01IR	SHMW-01D	SHMW-02S	SHMW-02IR	SHMW-02DR
Sample Date	AWQS	12/13/2011	12/13/2011	12/13/2011	12/13/2011	12/13/2011	12/13/2011	12/13/2011
BTEX (µg/L)								
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	**1**	1 U
Ethylbenzene	5	**1**	**1**	**1**	**1**	**2**	**1**	1 U
Total Xylene	5	**2**	**2**	**2**	**2**	**3**	**12**	1 U
Total BTEX	NE	**3**	**3**	**3**	**3**	**5**	**14**	ND
Other VOCs (µg/L)								
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total VOCs	NE	**3**	**3**	**3**	**3**	**5**	**14**	ND
Non-carcinogenic PAHs (µg/L)								
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carcinogenic PAHs (µg/L)								
Benz[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAHs	NE	**4**	ND	ND	ND	ND	ND	ND

Table 3
Summary of BTEX, MTBE and PAH Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2011

						Duplicate of:	
Sample Name	NY	SHMW-03S	SHMW-03I	SHMW-04S	SHMW-05SR	SHMW-05SR	SHMW-05IR
Sample Date	AWQS	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011
BTEX (µg/L)							
Benzene	1	**5**	1 U	**320 D**	**26 J**	**15 J**	1 U
Toluene	5	1 U	1 U	**12**	1 U	1 U	1 U
Ethylbenzene	5	**6**	1 U	**130**	**9 J**	**6 J**	1 U
Total Xylene	5	**7**	1 U	**110**	**10 J**	**6 J**	1 U
Total BTEX	NE	**18**	ND	**572**	**45**	**27**	ND
Other VOCs (µg/L)							
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U
Total VOCs	NE	**18**	ND	**572**	**45**	**27**	ND
Non-carcinogenic PAHs (µg/L)							
Acenaphthene	20*	**10**	10 U	**100 D**	**37 J**	**10 J**	10 U
Acenaphthylene	NE	10 U	10 U	**3 J**	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	**12**	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	**12**	10 U	10 U	10 U
Fluorene	50*	**2 J**	10 U	**26**	**11**	**7**	10 U
2-Methylnaphthalene	NE	10 U	10 U	**140 D**	**7**	10 U	10 U
Naphthalene	10*	**8 J**	10 U	**570 D**	**70 J**	10 UJ	10 U
Phenanthrene	50*	**2 J**	10 U	**51**	**6**	**2 J**	10 U
Pyrene	50*	10 U	10 U	**19**	10 U	10 U	10 U
Carcinogenic PAHs (µg/L)							
Benz[a]anthracene	0.002*	10 U	10 U	**3 J**	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	**2 J**	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	**1 J**	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	**3 J**	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U
Total PAHs	NE	**22**	ND	**942**	**131**	**19**	ND

Table 3
Summary of BTEX, MTBE and PAH Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2011

Sample Name	NY AWQS	SHMW-07SR	SHMW-07IR	SHMW-08S	SHMW-08I	SHMW-10S	SHMW-10I
Sample Date		12/14/2011	12/14/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011
BTEX (µg/L)							
Benzene	1	**280 D**	**2**	**7**	1 U	1 U	1 U
Toluene	5	**10**	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	**250 D**	**5**	1 U	**2**	1 U	**2**
Total Xylene	5	**160**	**4**	**2**	**3**	1 U	**3**
Total BTEX	NE	**700**	**11**	**9**	**5**	ND	**5**
Other VOCs (µg/L)							
Methyl tert-butyl ether	10*	10 U	10 U	**4**	10 U	10 U	10 U
Total VOCs	NE	**700**	**11**	**13**	**5**	ND	**5**
Non-carcinogenic PAHs (µg/L)							
Acenaphthene	20*	**43**	10 U	**14**	10 U	**1 J**	10 U
Acenaphthylene	NE	**3 J**	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	**6 J**	10 U	**2 J**	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	**5 J**	10 U	**3**	10 U	10 U	10 U
Fluorene	50*	**16**	10 U	**6 J**	10 U	10 U	10 U
2-Methylnaphthalene	NE	**66**	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	**780 D**	**4 J**	10 U	10 U	10 U	10 U
Phenanthrene	50*	**29**	10 U	**7**	10 U	10 U	10 U
Pyrene	50*	**7 J**	10 U	**3 J**	10 U	10 U	10 U
Carcinogenic PAHs (µg/L)							
Benz[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U
Total PAHs	NE	**955**	**4**	**35**	ND	**1**	ND

Table 3
Summary of BTEX, MTBE and PAH Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2011

Sample Name	NY AWQS	SHMW-11S	SHMW-11I	SHMW-12S	SHMW-12I	SHMW-13S	SHMW-13I
Sample Date		12/12/2011	12/12/2011	12/14/2011	12/14/2011	12/13/2011	12/13/2011
BTEX (µg/L)							
Benzene	1	1 U	1 U	**280 D**	**3**	1 U	1 U
Toluene	5	1 U	1 U	**1**	1 U	1 U	1 U
Ethylbenzene	5	**3**	1 U	**15**	**1**	**1**	1 U
Total Xylene	5	**5**	1 U	**41**	**2**	**2**	1 U
Total BTEX	NE	**8**	ND	**337**	**6**	**3**	ND
Other VOCs (µg/L)							
Methyl tert-butyl ether	10*	10 U	10 U	**1 J**	10 U	10 U	10 U
Total VOCs	NE	**8**	ND	**338**	**6**	**3**	ND
Non-carcinogenic PAHs (µg/L)							
Acenaphthene	20*	**2 J**	10 U	**6 J**	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NE	10 U	10 U	**7 J**	10 U	10 U	10 U
Naphthalene	10*	**2 J**	10 U	**500 D**	**2 J**	**2 J**	**1 J**
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U
Carcinogenic PAHs (µg/L)							
Benz[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U
Total PAHs	NE	**4**	ND	**513**	**2**	**2**	**1**

Table 3
Summary of BTEX, MTBE and PAH Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2011

Notes:

Analytes in blue are not detected in any sample

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, Total VOCs, and Total PAHs are calculated using detects only.

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

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

Bolding indicates a detected concentration
Gray shading indicates that the detected result value exceeds NYS AWQS

Data Qualifiers:

D - Results for dilution
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 BTEX Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2011

Well No.	Screen Interval (feet)	BTEX Concentrations (µg/L)									
		Sampling Date									
		1995	2000		2002	2004		2005			
		Nov	Mar	Apr	May	May	Aug	Mar/Apr	June	Sept	Dec
MW-01	1.50 - 7.32	2,720	10	68	9	4	0	0	12	67	0
MW-02	0.50 - 7.25	5,429	8,840	7,940	5,840	13,287	8,740	7,333	13,010	--	13,720
MW-03	2.17 - 10.17	1,222	668	1,553	1,363	2,573	--	2,050	2,867	560	2,622
MW-04	1.25 - 6.81	864	35	--	10	208	--	0	0	225	299
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
SHMW-01S/01SR	1.0 - 6.0	--	--	1,413	874	2,102	--	1,367	1,810	406	1,313
SHMW-01I/01IR	35.0 - 45.0	--	--	5	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
SHMW-02D/02DR	65.0 - 75.0	--	--	5	4	0	--	--	--	--	0
SHMW-03S	2.0 - 12.0	--	--	63	0	110	--	48	53	46	75
SHMW-03I	35.0 - 45.0	--	--	0	52	0	--	--	--	--	0
SHMW-04S/04SR	2.0 - 12.0	--	--	7,940	3,154	12,180	--	9,369	17,730	8,960	21,920
SHMW-04I	35.0 - 45.0	--	--	5	0	0	--	--	--	--	0
SHMW-05S/05SR	2.0 - 12.0	--	--	37	69	83	--	107	282	2,960	115
SHMW-05I/05IR	35.0 - 45.0	--	--	0	0	0	--	--	--	--	0
SHMW-06S	2.0 - 6.0	--	--	2,392	2,463	3,057	--	2,630	1,950	--	2,910
SHMW-06I	35.0 - 45.0	--	--	0	0	0	--	--	--	--	0
SHMW-07S/07SR	1.0 - 11.0	--	--	2,011	1,562	414	--	1,482	3,340	2,458	1,722
SHMW-07I/07IR	35.0 - 45.0	--	--	0	0	0	--	--	--	--	0
SHMW-08S	1.0 - 7.0	--	--	5	2	9	--	0	14	0	15
SHMW-08I	35.0 - 45.0	--	--	0	0	0	--	--	--	--	0
SHMW-09S	2.0 - 12.0	--	--	1,024	506	1,100	--	500	1,000	--	920
SHMW-09I	35.0 -45.0	--	--	0	0	0	--	--	--	--	0
SHMW-10S	5.0 -15.0	--	--	--	0	0	--	0	0	0	0
SHMW-10I	35.5 - 45.5	--	--	--	0	0	--	--	--	--	0
SHMW-11S	3.5 - 13.5	--	--	--	0	0	--	0	0	0	0
SHMW-11I	35.0 - 45.0	--	--	--	0	0	--	--	--	--	0
SHMW-12S	1.5 - 6.5	--	--	--	0	344	--	142	930	69	290
SHMW-12I	35.0 - 45.0	--	--	--	0	0	--	--	--	--	0
SHMW-13S	1.5 - 6.5	--	--	--	0	0	--	0	0	0	0
SHMW-13I	35.0- 45.0	--	--	--	0	0	--	--	--	--	0

Table 4
Summary of Historical BTEX Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2011

Well No.	Screen Interval (feet)	BTEX Concentrations (µg/L)											
		Sampling Date											
		2006				2007				2008			
		March	June	Sept	Dec	March	June	Sept	Dec	March	June	Sep	Dec
MW-01	1.50 - 7.32	21	47	310	190	160	240	150	270	337	141	208	--
MW-02	0.50 - 7.25	7,591	--	14,174	12,267	8,678	12,810	15,181	98	8,865	7,415	2,240	--
MW-03	2.17 - 10.17	4,880	1,971	4,965	2,398	1,680	2,930	3,225	2,831	2,842	2,241	2,875	--
MW-04	1.25 - 6.81	268	193	181	101	0	51	89	66	--	15	79	--
MW-05	2.46 - 7.46	--	--	--	--	--	--	--	--	--	--	--	--
MW-06	2.47 - 7.47	74	37	11	54	0	37	31	0	1	33	7	--
SHMW-01S/01SR	1.0 - 6.0	2,562	2,085	5,183	2,915	691	2,460	2,600	1,684	1,595	306	243	--
SHMW-01I/01IR	35.0 - 45.0	--	--	--	0	0	--	--	--	--	--	--	--
SHMW-01D	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-02S	1.0 - 6.0	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-02I/02IR	35.0 - 45.0	0	0	0	0	--	11	12	15	18	41	29	--
SHMW-02D/02DR	65.0 - 75.0	--	--	--	0	--	--	--	0	--	--	--	--
SHMW-03S	2.0 - 12.0	131	67	97	13	122	80	12	50	3	0	5	13
SHMW-03I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-04S/04SR	2.0 - 12.0	25,860	9,361	18,398	10,489	6,883	20,488	16,120	10,378	7,567	8,059	7,561	--
SHMW-04I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	--
SHMW-05S/05SR	2.0 - 12.0	202	45	43	26	35	458	676	98	77	83	64	--
SHMW-05I/05IR	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	--
SHMW-06S	2.0 - 6.0	2,622	1,702	4,289	2,196	1,475	2,285	2,162	1,565	1,296	1,343	1,298	--
SHMW-06I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	--
SHMW-07S/07SR	1.0 - 11.0	1,400	1,060	--	1,137	185	--	2,139	726	--	1,075	1,374	--
SHMW-07I/07IR	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	--
SHMW-08S	1.0 - 7.0	11	0	19	0	0	0	0	12	8	9	10	--
SHMW-08I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	--
SHMW-09S	2.0 - 12.0	1,130	770	768	500	418	1,240	178	600	1,039	1,298	671	483
SHMW-09I	35.0 -45.0	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-10S	5.0 -15.0	0	0	0	0	0	0	0	0	0	1	0	0
SHMW-10I	35.5 - 45.5	--	--	--	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
SHMW-12S	1.5 - 6.5	140	463	581	182	85	623	81	0	166	482	111	279
SHMW-12I	35.0 - 45.0	--	--	--	0	--	--	--	23	--	--	--	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

Table 4
Summary of Historical BTEX Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2011

Well No.	Screen Interval (feet)	BTEX Concentrations (µg/L)														
		Sampling Date												Min	Max	Mean
		2009				2010				2011						
		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	5,183	1,374
SHMW-01I/01IR	35.0 - 45.0	--	--	--	--	--	--	--	0	--	--	--	3	0	5	1
SHMW-01D	65.0 - 75.0	--	--	--	--	--	--	--	0	--	--	--	3	0	3	2
SHMW-02S	1.0 - 6.0	--	--	--	--	--	--	--	3	0	3	0	5	0	5	2
SHMW-02I/02IR	35.0 - 45.0	--	--	--	--	--	--	--	4	0	--	--	14	0	1,179	69
SHMW-02D/02DR	65.0 - 75.0	--	--	--	--	--	--	--	0	--	--	--	0	0	5	1
SHMW-03S	2.0 - 12.0	111	24	4	9	40	5	0	9	24	2	3	18	0	131	40
SHMW-03I	35.0 - 45.0	--	0	--	0	--	--	--	0	--	--	--	0	0	52	5
SHMW-04S/04SR	2.0 - 12.0	--	--	--	--	--	--	--	2,717	702	469	292	572	292	25,860	9,877
SHMW-04I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	0	5	1
SHMW-05S/05SR	2.0 - 12.0	--	--	--	--	--	--	--	20	22	25	27	45	20	2,960	243
SHMW-05I/05IR	35.0 - 45.0	--	--	--	--	--	--	--	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	--	1,500	3,472	2,183	1,825	3,946	--	858	455	1,172	607	700	185	3,946	1,552
SHMW-07I/07IR	35.0 - 45.0	--	--	--	--	--	--	--	0	--	--	--	11	0	11	1
SHMW-08S	1.0 - 7.0	--	5	5	4	6	13	4	9	7	10	5	9	0	19	7
SHMW-08I	35.0 - 45.0	--	0	--	0	--	--	--	0	--	--	--	5	0	5	1
SHMW-09S	2.0 - 12.0	--	584	455	224	--	--	--	--	--	--	--	--	178	1,298	734
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	0	0	0	1	0
SHMW-10I	35.5 - 45.5	--	0	--	0	--	--	--	0	--	--	--	5	0	5	1
SHMW-11S	3.5 - 13.5	0	0	0	0	0	0	0	0	0	0	0	8	0	8	0
SHMW-11I	35.0 - 45.0	--	0	--	0	--	--	--	0	--	--	--	0	0	0	0
SHMW-12S	1.5 - 6.5	28	315	45	58	222	217	8	70	82	672	473	337	0	930	250
SHMW-12I	35.0 - 45.0	--	--	--	2	--	--	--	0	--	--	--	6	0	23	3
SHMW-13S	1.5 - 6.5	0	0	0	0	0	0	0	0	0	0	3	3	0	3	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 2011

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 2011

Well No.	Screen Interval (feet)	Total PAH Concentrations (µg/L)															
		Sampling Date															
		2007				2008				2009				2010			
		March	June	Sept	Dec	March	June	Sep	Dec	March	June	Sept	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	--	--	--	--	--	--	--	--	0
SHMW-01I/01IR	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
SHMW-01D	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
SHMW-02S	1.0 - 6.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
SHMW-02I/02IR	35.0 - 45.0	0	10	175	32	8	42	209	--	--	--	--	--	--	--	--	9
SHMW-02D/02DR	65.0 - 75.0	--	--	--	15	--	--	--	--	--	--	--	--	--	--	--	0
SHMW-03S	2.0 - 12.0	430	191	12	154	0	0	17	29	0	20	0	0	0	22	0	0
SHMW-03I	35.0 - 45.0	--	--	--	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	--	--	--	--	--	--	--	--	3,598
SHMW-04I	35.0 - 45.0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-05S/05SR	2.0 - 12.0	0	0	14	8	2	0	31	--	--	--	--	--	--	--	--	0
SHMW-05I/05IR	35.0 - 45.0	--	--	--	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	3,410	4,547	--	1,456
SHMW-07I/07IR	35.0 - 45.0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0
SHMW-08S	1.0 - 7.0	13	90	10	13	14	21	55	--	--	59	60	112	129	201	34	3
SHMW-08I	35.0 - 45.0	--	--	--	0	--	--	--	--	--	1	--	0	--	--	--	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	0	0	0	0
SHMW-10I	35.5 - 45.5	--	--	--	0	--	--	--	0	--	0	--	0	--	--	--	0
SHMW-11S	3.5 - 13.5	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
SHMW-11I	35.0 - 45.0	--	--	--	4	--	--	--	0	--	0	--	0	--	--	--	0
SHMW-12S	1.5 - 6.5	15	560	0	155	9	137	259	280	0	332	4	216	177	585	3	0
SHMW-12I	35.0 - 45.0	--	--	--	20	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-13S	1.5 - 6.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SHMW-13I	35.0- 45.0	--	--	--	0	--	--	--	0	--	0	--	0	--	--	--	0

Table 5
Summary of Historical Total PAH Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q4 2011

Well No.	Screen Interval (feet)	Total PAH Concentrations (µg/L)						
		Sampling Date 2011				Min	Max	Mean
		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	4	0	4,147	1,090
SHMW-01I/01IR	35.0 - 45.0	--	--	--	0	0	32	5
SHMW-01D	65.0 - 75.0	--	--	--	0	0	0	0
SHMW-02S	1.0 - 6.0	0	0	0	0	0	0	0
SHMW-02I/02IR	35.0 - 45.0	3	--	--	0	0	580,200	26,450
SHMW-02D/02DR	65.0 - 75.0	--	--	--	0	0	308	61
SHMW-03S	2.0 - 12.0	2	7	25	22	0	430	83
SHMW-03I	35.0 - 45.0	--	--	--	0	0	320	29
SHMW-04S/04SR	2.0 - 12.0	1,440	978	811	942	0	6,669	3,457
SHMW-04I	35.0 - 45.0	--	--	--	--	0	18	3
SHMW-05S/05SR	2.0 - 12.0	4	167	273	131	0	273	57
SHMW-05I/05IR	35.0 - 45.0	--	--	--	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	0	1,736	885	955	0	7,211	3,040
SHMW-07I/07IR	35.0 - 45.0	--	--	--	4	0	2,212	277
SHMW-08S	1.0 - 7.0	11	185	195	35	3	201	71
SHMW-08I	35.0 - 45.0	--	--	--	0	0	13	1
SHMW-09S	2.0 - 12.0	--	--	--	--	0	2,737	1,035
SHMW-09I	35.0 -45.0	--	--	--	--	0	3	0
SHMW-10S	5.0 -15.0	0	0	0	1	0	22	1
SHMW-10I	35.5 - 45.5	--	--	--	0	0	0	0
SHMW-11S	3.5 - 13.5	0	0	2	4	0	173	6
SHMW-11I	35.0 - 45.0	--	--	--	0	0	4	0
SHMW-12S	1.5 - 6.5	0	584	739	513	0	739	239
SHMW-12I	35.0 - 45.0	--	--	--	2	0	20	2
SHMW-13S	1.5 - 6.5	0	0	3	2	0	3	0
SHMW-13I	35.0- 45.0	--	--	--	1	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 (www.nationalgeographic.com/topo)"

0 2000 4000

SCALE, FEET

SAG HARBOR FORMER MGP SITE
SAG HARBOR, NEW YORK

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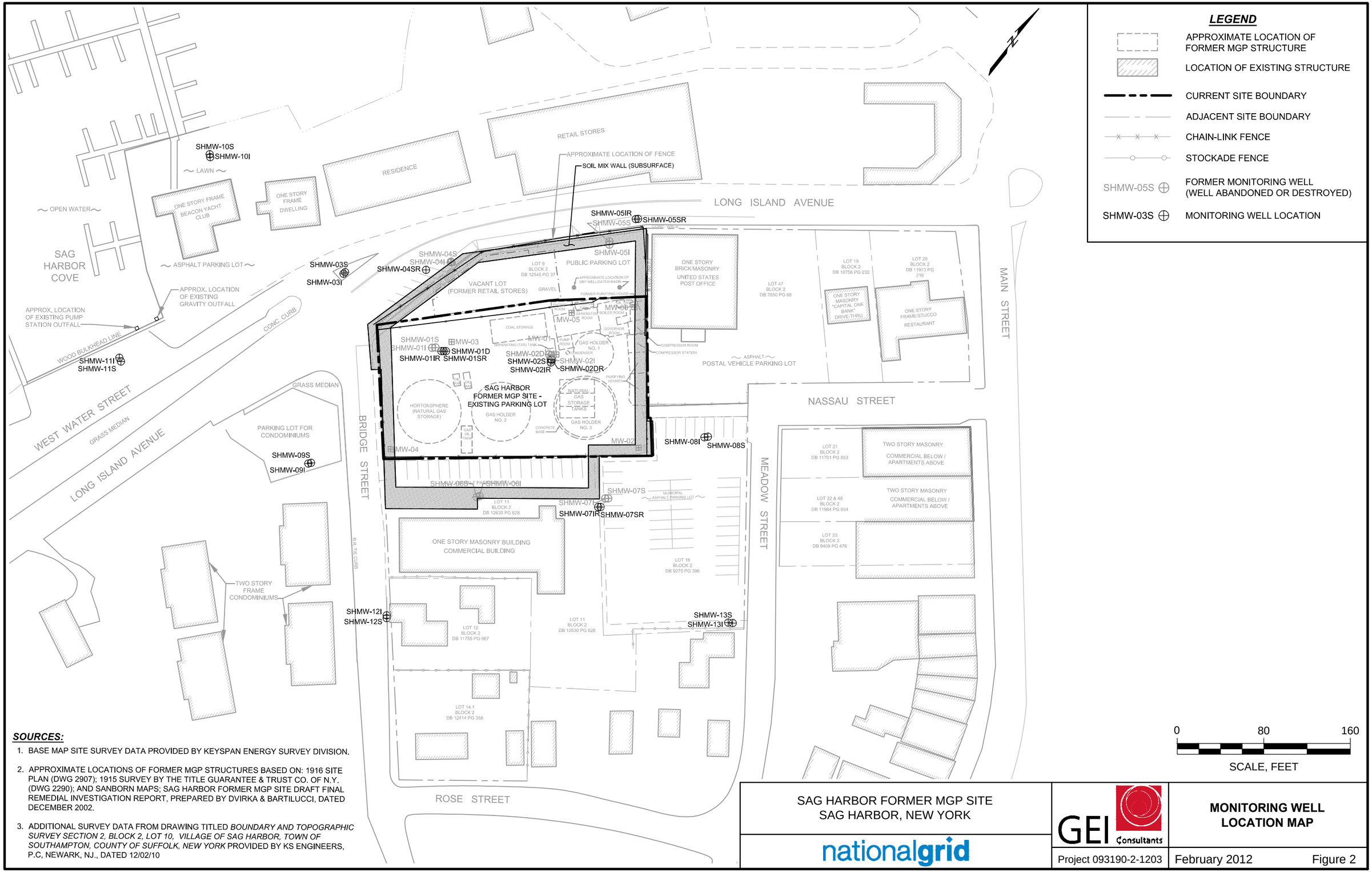
SITE LOCATION MAP

February 2012 Figure 1

I:\Project\National Grid\Sag Harbor\Groundwater-Quarterly Monitoring\2011\Figures\SAG HARBOR-LOC.CDR



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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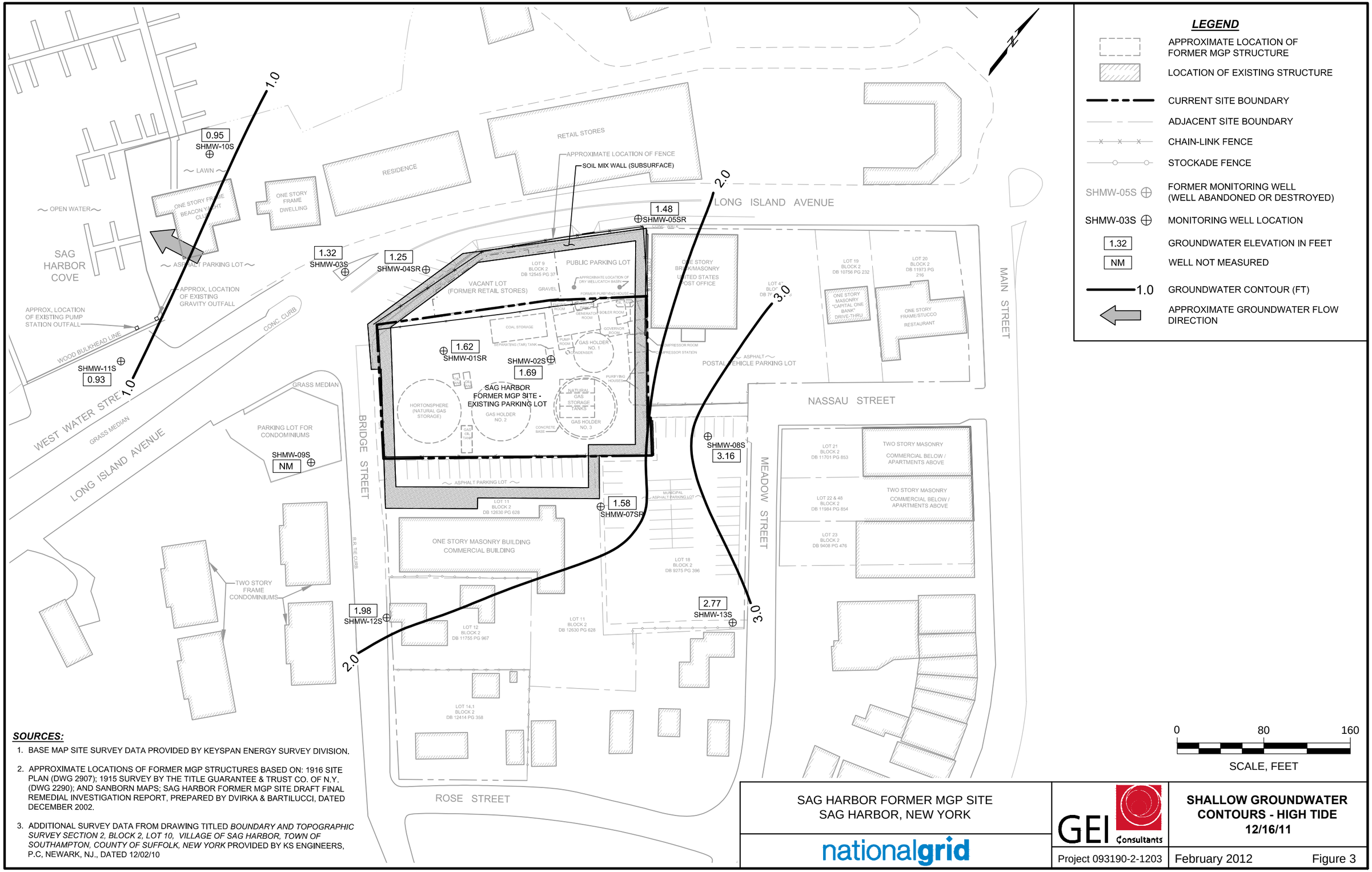
MONITORING WELL LOCATION MAP

Project 093190-2-1203 | February 2012 | Figure 2

I:\PROJECT\NATIONAL GRID\SAG HARBOR\GROUNDWATER-QUARTERLY MONITORING\2011\FIGURES\SAG HARBOR-GW CONTOURS Q4-2011.DWG



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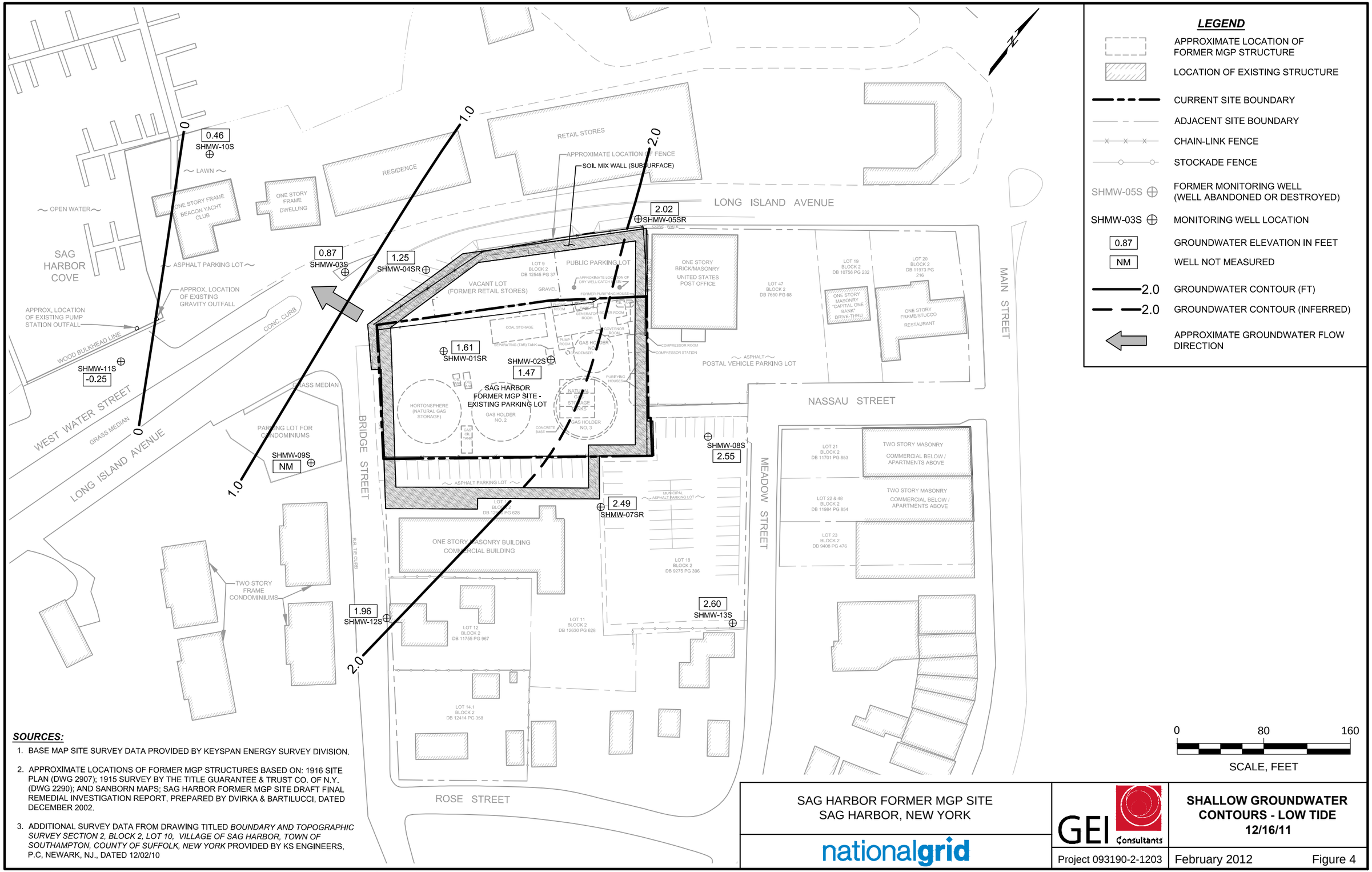
SHALLOW GROUNDWATER CONTOURS - HIGH TIDE 12/16/11

Project 093190-2-1203 | February 2012 | Figure 3

I:\PROJECT\NATIONAL GRID\SAG HARBOR\GROUNDWATER-QUARTERLY MONITORING\2011\FIGURES\SAG HARBOR-GW CONTOURS Q4-2011.DWG



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SHALLOW GROUNDWATER CONTOURS - LOW TIDE 12/16/11

Project 093190-2-1203 | February 2012 | Figure 4

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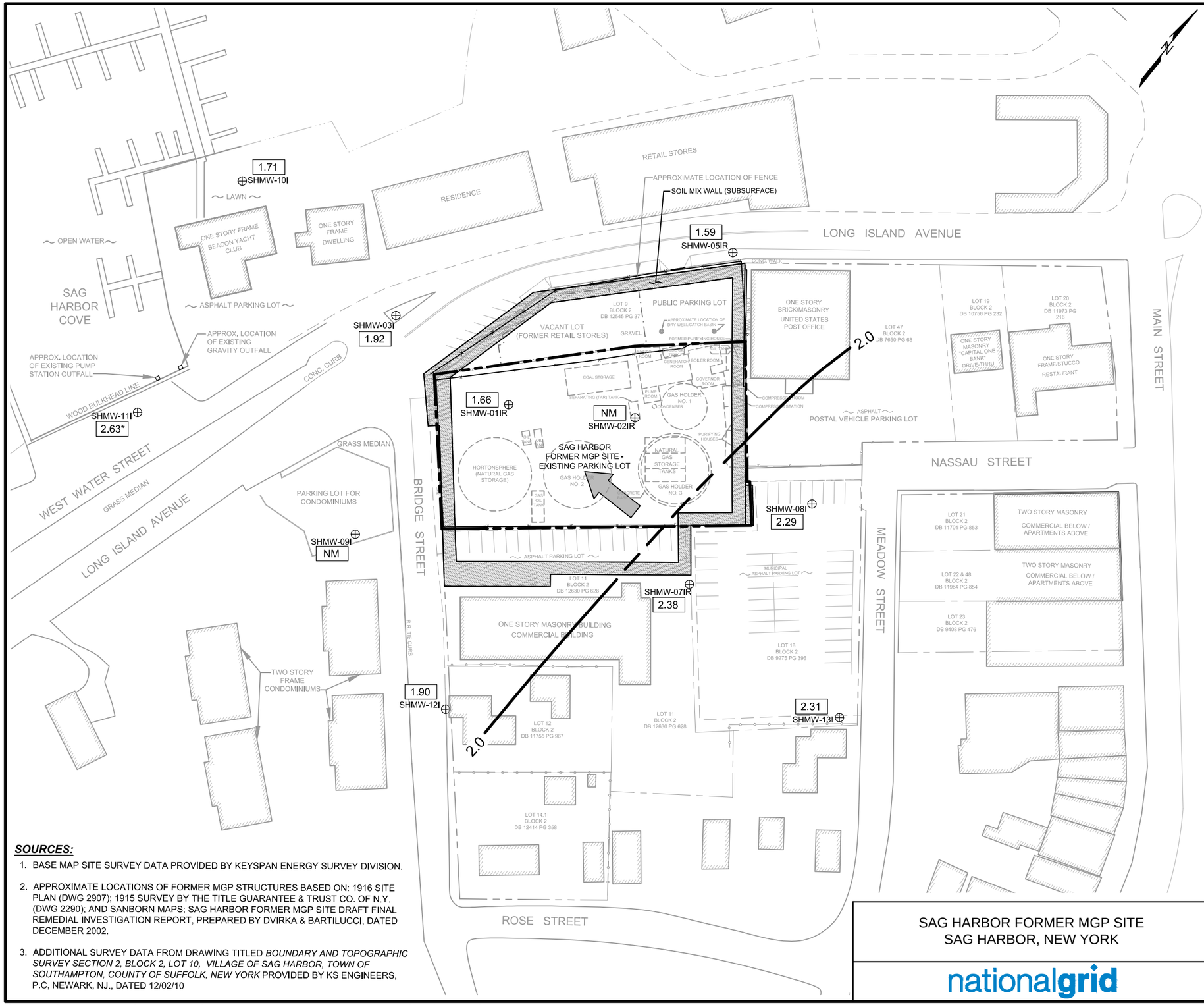

LEGEND

- 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
- 1.92 GROUNDWATER ELEVATION IN FEET
- NM WELL NOT MEASURED
- 2.63* MEASUREMENT NOT USED TO GENERATE CONTOURS
- 2.0 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.
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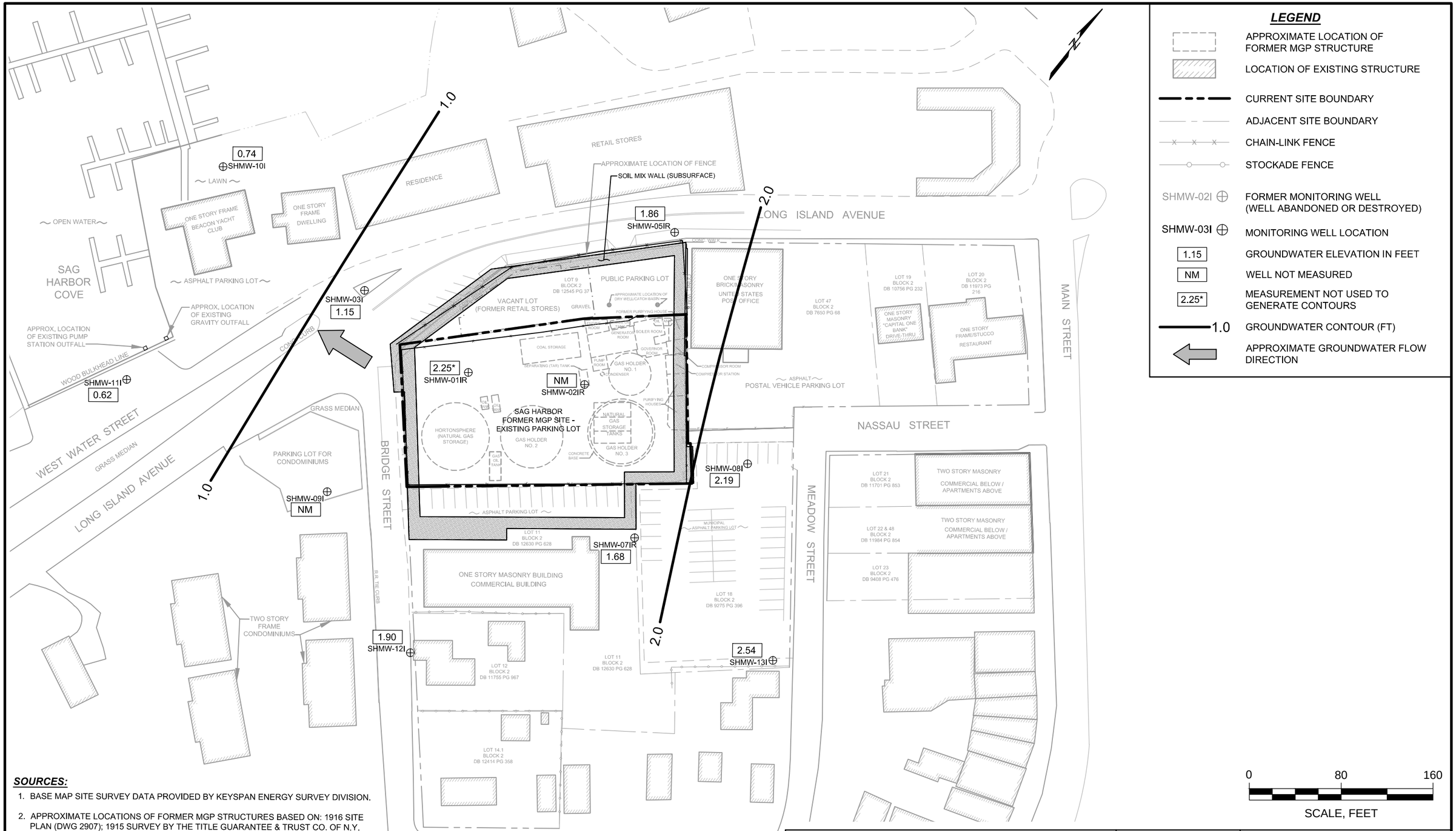
INTERMEDIATE GROUNDWATER CONTOURS HIGH TIDE 12/16/11

February 2012 Figure 5

I:\PROJECT\NATIONAL GRID\SAG HARBOR\GROUNDWATER-QUARTERLY MONITORING\2011\FIGURES\SAG HARBOR-GW CONTOURS Q4-2011.DWG



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INTERMEDIATE GROUNDWATER CONTOURS LOW TIDE 12/16/11

Project 093190-2-1203 | February 2012 | Figure 6

I:\PROJECT\NATIONAL GRID\SAG HARBOR\GROUNDWATER-QUARTERLY MONITORING\2011\FIGURES\SAG HARBOR-GW CONTOURS Q4-2011.DWG