nationalgrid

Groundwater Sampling and NAPL Monitoring/Recovery Report for the Second Quarter of 2010 (April - June 2010) for the Hempstead Intersection Street Former Manufactured Gas Plant Site

Villages of Hempstead & Garden City
Nassau County, New York

Prepared for:

National Grid
175 East Old Country Road
Hicksville, New York 11801

Prepared by:

URS Corporation - New York
77 Goodell Street
Buffalo, New York 14203

URS

September 2010

GROUNDWATER SAMPLING AND NAPL MONITORING/RECOVERY REPORT FOR THE SECOND QUARTER OF 2010 (APRIL - JUNE)

HEMPSTEAD INTERSECTION STREET
FORMER MANUFACTURED GAS PLANT SITE
VILLAGES OF HEMPSTEAD AND GARDEN CITY
NASSAU COUNTY, NEW YORK

Prepared for:

National Grid
175 East Old Country Rd.
Hicksville, NY 11801

Prepared by:

URS Corporation
77 Goodell Street
Buffalo, New York 14203

September 2010

TABLE OF CONTENTS

TABLES
(Following Text)

FIGURES
(Following Tables)

APPENDICES
(Following Figures)

EXECUTIVE SUMMARY

This report provides a summary of field activities, analytical results, and data interpretations associated with groundwater sampling and recovery of non-aqueous phase liquid (NAPL) at the Hempstead Intersection Street Former Manufactured Gas Plant (MGP) site during the second quarter (April, May, and June) of 2010.

Groundwater monitoring and sampling was conducted on April 13 to 20, 2010. This included measuring the depth to groundwater and NAPL thickness in 66 wells. Groundwater samples were collected from 21 wells and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs).

The following results were obtained from the groundwater sampling and NAPL monitoring/recovery event:

- The general direction of groundwater flow in shallow, intermediate, and deep water-bearing zones was south at an average gradient of approximately 0.002 ft/ft.
- The dissolved-phase plume extended approximately 3,600 feet south of the site boundary.
- DNAPL was detected in 29 wells during the second quarter of 2010. The wells were located on site or within the parking lot immediately south of the site.
- The volume of NAPL recovered from the site wells ranged from approximately 7 to 14 gallons per event. Approximately 54 gallons of NAPL were recovered during the second quarter of 2010. Approximately 542 gallons of NAPL have been recovered since April 2007.
- Based on a comparison between the second quarter 2010 data and the previous data the concentrations of dissolved phase total BTEX and total PAHs remained stable in the site monitoring wells.
- Soil vapor analytical sampling was performed during the second quarter 2010 at three soil vapor points within the community. Results are presented as an appendix.

1.0 INTRODUCTION

This groundwater sampling and NAPL monitoring/recovery report describes field activities, presents field measurements, NAPL recovery volumes, and analytical data associated with the Hempstead Intersection Street Former MGP site (refer to Figures 1 and 2). Interpretations of the data are also provided.

URS Corporation (URS) performed the following activities during the second quarter of 2010:

- Measured the depth to groundwater and NAPL thickness in accessible monitoring wells (April 13 to 14, 2010).
- Collected groundwater samples from 21 monitoring wells for laboratory analysis (April 13 to 20, 2010).
- Recovered NAPL from monitoring wells and piezometers (April 11, April 26, May 23, June 9, and June 25, 2010).
- GEI Consultants completed soil vapor testing for the three soil vapor points shown on Figure 2.

Quarterly groundwater monitoring and bimonthly recovery of NAPL was initiated in April 2007. Separate reports have been issued for quarterly activities performed in 2007, 2008, 2009 and 2010, and annual reports were issued that encompassed the last three quarters of 2007 and all four quarters of 2008 and 2009.

2.0 FIELD ACTIVITIES

The field activities performed by URS are summarized below.

- Measurement of the depth to groundwater and NAPL thickness in 66 monitoring wells.
- Collection of groundwater samples from 21 monitoring wells.
- Recovery of NAPL from accessible monitoring wells that contained measurable NAPL.
- Completion of groundwater probes HISB-117 and HISB-119 in conjunction with the oxygen delivery system installations (see Figure 3).

Monitoring wells and piezometers used for these activities are listed in Table 1.

2.1 Groundwater Depth and NAPL Thickness Measurements

Depths to groundwater and NAPL thickness measurements are listed in Table 2. An electronic water level indicator was used to measure the depth to groundwater. NAPL thickness was measured using an oil/water interface probe and a weighted cotton string coated with oil indicator paste.

2.2 NAPL Recovery

NAPL was recovered from 22 wells during 5 events from April to June 2010 (Table 3). All measured NAPL consisted of dense non-aqueous phase liquid (DNAPL) located at the bottom of the wells. The DNAPL was recovered using a Waterra inertial lift pump. The quantity of the recovered NAPL was estimated based on the volume contained inside the well prior to pumping.

2.3 Ground Water Sampling

Low-flow groundwater sampling methods were used, which consisted of purging groundwater at a rate of between 100 and 250 milliliters per minute. The water was pumped through a flow-through cell and monitored for pH, conductivity, turbidity, dissolved oxygen

(DO), and oxidation-reduction potential (ORP). Purging was continued until stable conditions were achieved (defined as three consecutive stable readings [i.e. $\pm$ 10 percent] over a 15 minute period). Groundwater samples were collected afterwards and shipped under chain-of-custody procedures to H2M laboratories, Inc. for analysis of BTEX (USEPA Method 8260B) and PAHs (USEPA Method 8270C) (Table 4).

2.4 Soil Vapor Sampling

Soil vapor sampling was conducted by GEI Consultants on June 11, 2010. Sampling occurred at three vapor points (HIVP-16, HIVP-17, and HIVP-18) within the community (see Figure 2 for soil vapor point locations).

3.0 RESULTS

3.1 Dissolved-Phase Plume

The extent of the dissolved-phase plume is shown on Figure 3. The downgradient boundary of the plume, which is defined by total BTEX or PAH concentrations greater than 100 µg/L, extends approximately 3,600 feet south of the site boundary. Based on comparison with previous quarterly groundwater monitoring data, the concentrations of total BTEX or PAHs in groundwater have remained stable.

In April 2010, the concentrations of total BTEX or total PAHs in the furthest downgradient well pair (HIMW-015I/D) ranged from "not detected" (deep well, HIMW-15D) to 24 µg/L (intermediate well, HIMW-15I). The concentrations of total BTEX or total PAHs varied from "not detected" to 2,421 µg/L for wells located between the site and the HIMW-015 cluster.

Groundwater probes HISB-117 and HISB-119 were completed during this quarterly period in conjunction with the groundwater oxygen delivery system installations. The results from these two locations indicated that the estimated western plume representation near those borings may be conservatively drawn based on the relatively low groundwater concentrations observed (see Figure 3).

3.2 Potentiometric Heads and NAPL Thickness

Potentiometric heads and NAPL thickness measurements are presented in Table 2. Potentiometric surface maps for shallow, intermediate and deep groundwater zones were developed using this data and are shown on Figures 4, 5, and 6, respectively. The figures indicate that the direction of groundwater flow within the well field was south at an average gradient of approximately 0.002 ft/ft.

DNAPL was detected in 29 wells during the second quarter 2010 (Table 3). Figure 7 illustrates the thickness of DNAPL that was measured on April 26, 2010. Figures 8A – 8AG provide cumulative NAPL recovery and NAPL thickness plots for the period December 2003 to June 2010. All of the wells where DNAPL was identified are either on the site or within a parking lot that is immediately south of the site.

3.3 Groundwater Analytical Results

Groundwater analytical results are summarized in Table 4 and illustrated on Figure 7.

A Data Usability Summary Report (DUSR) was prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation Draft DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for the Development of Data Usability Summary Reports, December 2002. An electronic copy of the DUSR is included as Appendix A The review included a review of holding times; completeness of all required deliverables; quality control (QC) results (blanks, instrument tunes, calibration standards, matrix spike recoveries, duplicate analyses, and laboratory control sample recoveries) to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers. All sample analyses were found to be compliant with the method and validation criteria and the data is useable as reported.

3.4 NAPL Recovery Volumes

Approximately 54 gallons of NAPL were recovered from 22 wells (Table 3). The volume of NAPL recovered varied from approximately 7 to 14 gallons per event. Approximately 542 gallons of NAPL have been recovered since April 2007.

3.5 Soil Vapor Analytical Results

Soil vapor analytical results can be found in Appendix B. Analytical results are compared to the NYSDOH Upper Fence Outdoor Air Concentrations.

4.0 SUMMARY

Following is a summary of the second quarter 2010 groundwater sampling and NAPL monitoring/recovery data presented in this report.

- The general direction of groundwater flow in the shallow, intermediate, and deep water-bearing zones was south at an average gradient of 0.002 ft/ft.
- The dissolved-phase plume extended approximately 3,600 feet south of the site boundary.
- DNAPL was detected in 29 wells during the second quarter of 2010. The wells were located on site or within the parking lot immediately south of the site.
- The volume of NAPL recovered from the site wells varied from approximately 7 to 14 gallons per event. Approximately 54 gallons of NAPL were recovered during the second quarter of 2010. Approximately 542 gallons of NAPL have been recovered since April 2007.
- Based on a comparison between the second quarter 2010 data and the previous data the concentrations of total BTEX and total PAHs remained stable in the site monitoring wells.
- Soil vapor sampling was conducted on June 2010 at three vapor points within the community. Analytical results are presented in Appendix B.
- Groundwater probes HISB-117 and HISB-119 were completed during this quarterly period in conjunction with the groundwater oxygen delivery system installations. The results from these two locations indicated that the estimated western plume representation near those boring locations may be conservatively drawn based on the relatively low groundwater concentrations observed (see Figure 3).

TABLES

Table 1

Hempstead Intersection Street Former MGP Site
Summary of Field Activities for the Second Quarter 2010

Well ID	Monitoring & Sampling (April 13-26, 2010)			NAPL Monitoring and Recovery				
	Groundwater Level	NAPL Thickness	Water Quality	June 25, 2010	June 9, 2010	May 23, 2010	April 26, 2010	April 11, 2010
HIMW-001S		X		X	X	X	X	
HIMW-001I	X	X		X	X	X	X	
HIMW-001D								
HIMW-002S	X							
HIMW-002I	X							
HIMW-002D	X							
HIMW-003S	X		X					
HIMW-003I	X		X					
HIMW-003D	X		X					
HIMW-004S	X							
HIMW-004I	X							
HIMW-004D	X							
HIMW-005S	X		X					
HIMW-005I	X		X					
HIMW-005D	X		X					
HIMW-006S	X	X		X	X	X	X	X
HIMW-006I	X	X		X		X	X	
HIMW-006D		X					X	
HIMW-007S	X	X		X	X	X	X	X
HIMW-007I	X	X		X		X	X	
HIMW-007D	X	X		X		X	X	
HIMW-008S	X		X					
HIMW-008I	X		X					
HIMW-008D	X		X					
HIMW-009S	X							
HIMW-009I	X							
HIMW-009D	X							
HIMW-010S	X							
HIMW-010I	X							
HIMW-010D	X							
HIMW-011S	X	X		X		X	X	
HIMW-011I	X	X		X		X	X	
HIMW-011D	X	X					X	
HIMW-012S	X		X					
HIMW-012I	X		X					
HIMW-012D	X		X					
HIMW-013S	X		X					
HIMW-013I	X		X					
HIMW-013D	X		X					
HIMW-014I	X		X					
HIMW-014D	X		X					
HIMW-015I	X		X					
HIMW-015D	X		X					
HIMW-016S		X		X	X	X	X	X
HIMW-016I		X		X	X	X	X	X
HIMW-017S		X		X	X	X	X	X

Table 1

Hempstead Intersection Street Former MGP Site
Summary of Field Activities for the Second Quarter 2010

Well ID	Monitoring & Sampling (April 13-26, 2010)			NAPL Monitoring and Recovery				
	Groundwater Level	NAPL Thickness	Water Quality	June 25, 2010	June 9, 2010	May 23, 2010	April 26, 2010	April 11, 2010
HIMW-018S	X	X		X	X	X	X	
HIMW-018I	X	X		X		X	X	
HIMW-019S	X	X		X	X	X	X	
HIMW-019I	X	X		X		X	X	
HIMW-020S	X		X					
HIMW-020I	X		X					
HIMW-21		X		X	X	X	X	X
PZ-02								
PZ-03								
PZ-08	X	X		X	X	X	X	X
IPR-01	X	X					X	
IPR-02	X	X		X		X	X	
IPR-03	X	X					X	
IPR-04	X	X					X	
IPR-05	X	X		X			X	
IPR-06		X		X	X	X	X	X
IPR-07		X					X	
IPR-08	X	X					X	
IPR-09	X	X		X			X	
IPR-10	X	X					X	
IPR-11	X	X					X	
IPR-12A	X	X		X			X	
IPR-12B	X	X					X	
IPR-13	X	X					X	
IPR-14		X		X		X	X	
IPR-15		X		X		X	X	
IPR-16		X		X		X	X	
IPR-17		X		X		X	X	
IPR-18		X		X		X	X	
IPR-19S								
IPR-19D		X		X		X	X	
IPR-20		X		X		X	X	
IPR-21		X		X	X	X	X	X
IPR-22		X		X	X	X	X	X
IPR-23		X		X		X	X	
IPR-24		X		X		X	X	X
IPR-25	X	X		X	X	X	X	X
IPR-26	X	X		X	X	X	X	
IPR-27	X	X		X	X	X	X	
IPR-28	X	X					X	
IPR-29		X		X	X	X	X	X
IPR-30		X					X	
OSMW-01	X	X					X	
OSMW-02	X	X					X	
OSMW-03	X	X					X	

Notes:
1 Field marked with "X" indicates that the activity was performed.
2 Blank field indicates that the activity was not performed.

Table 2
Groundwater and NAPL Measurements
Second Quarter 2010
Hempstead Intersection Street Former MGP Site

Well ID	Date	Elevation of TOR	Depth to LNAPL	Depth to Water	Depth to DNAPL	Well Depth	Thickness of LNAPL	Thickness of DNAPL (2)	Corrected Potentiometric Head (1)
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-001S	NM	71.61	ND	NM	40.76	40.86	0	0.10	NM
HIMW-001I	4/13/2010	71.68	ND	NM	85.35	85.85	0	0.50	NM
HIMW-001D	NM	71.95	ND	NM	ND	129.08	0	ND	NM
HIMW-002S	4/13/2010	73.82	ND	24.43	ND	42.35	0	ND	49.39
HIMW-002I	4/13/2010	78.87	ND	24.27	ND	92.90	0	ND	54.60
HIMW-002D	4/13/2010	74.13	ND	24.41	ND	118.98	0	ND	49.72
HIMW-003S	4/13/2010	65.00	ND	15.66	ND	34.80	0	ND	49.34
HIMW-003I	4/13/2010	64.94	ND	15.87	ND	87.10	0	ND	49.07
HIMW-003D	4/13/2010	65.26	ND	16.42	ND	145.50	0	ND	48.84
HIMW-004S	4/13/2010	72.74	ND	24.01	ND	41.70	0	ND	48.73
HIMW-004I	4/13/2010	72.78	ND	24.10	ND	90.60	0	ND	48.68
HIMW-004D	4/13/2010	72.65	ND	24.55	ND	180.50	0	ND	48.10
HIMW-005S	4/14/2010	67.19	ND	18.39	ND	39.10	0	ND	48.80
HIMW-005I	4/14/2010	67.22	ND	18.52	ND	92.30	0	ND	48.70
HIMW-005D	4/14/2010	67.22	ND	19.02	ND	139.00	0	ND	48.20
HIMW-006S	4/13/2010	68.25	ND	NM	33.70	36.90	0	3.20	NM
HIMW-006I	4/13/2010	67.88	ND	NM	82.18	82.18	0	0.00	NM
HIMW-006D	NM	67.77	ND	NM	119.95	119.95	0	0.00	NM
HIMW-007S	4/13/2010	70.47	ND	NM	40.04	40.74	0	0.70	NM
HIMW-007I	4/13/2010	70.10	ND	21.35	90.58	90.58	0	0.00	48.75
HIMW-007D	4/13/2010	70.40	ND	21.26	117.65	117.65	0	0.00	49.14
HIMW-008S	4/13/2010	65.04	ND	16.71	ND	37.05	0	ND	48.33
HIMW-008I	4/13/2010	65.14	ND	16.83	ND	75.10	0	ND	48.31
HIMW-008D	4/13/2010	64.93	ND	16.63	ND	114.75	0	ND	48.30
HIMW-009S	4/13/2010	70.03	ND	21.18	ND	39.61	0	ND	48.85
HIMW-009I	4/13/2010	69.93	ND	21.23	ND	80.50	0	ND	48.70
HIMW-009D	4/14/2010	69.96	ND	21.23	ND	NM	0	ND	48.73
HIMW-010S	4/13/2010	71.60	ND	22.39	ND	40.27	0	ND	49.21
HIMW-010I	4/13/2010	71.47	ND	22.22	ND	91.83	0	ND	49.25
HIMW-010D	4/13/2010	71.44	ND	22.15	ND	136.02	0	ND	49.29
HIMW-011S	4/13/2010	71.62	ND	22.19	41.55	41.55	0	0.00	49.43
HIMW-011I	4/13/2010	71.43	ND	22.03	94.54	94.54	0	0.00	49.40
HIMW-011D	4/13/2010	71.39	ND	22.02	123.61	123.61	0	0.00	49.37
HIMW-012S	4/13/2010	61.58	ND	14.40	ND	33.47	0	ND	47.18
HIMW-012I	4/13/2010	61.59	ND	14.26	ND	75.00	0	ND	47.33
HIMW-012D	4/13/2010	61.82	ND	16.12	ND	128.45	0	ND	45.70
HIMW-013S	4/13/2010	72.83	ND	27.57	ND	49.20	0	ND	45.26
HIMW-013I	4/13/2010	72.60	ND	27.36	ND	82.55	0	ND	45.24
HIMW-013D	4/13/2010	72.53	ND	27.36	ND	122.50	0	ND	45.17
HIMW-014I	4/13/2010	71.71	ND	26.62	ND	96.90	0	ND	45.09
HIMW-014D	4/13/2010	71.59	ND	28.76	ND	152.00	0	ND	42.83
HIMW-015I	4/13/2010	64.18	ND	22.32	ND	93.10	0	ND	41.86
HIMW-015D	4/13/2010	63.96	ND	23.89	ND	155.00	0	ND	40.07
HIMW-016S	NM	67.45	ND	NM	30.91	34.41	0	3.50	NM
HIMW-016I	NM	67.50	ND	NM	77.16	82.66	0	5.50	NM
HIMW-017S	NM	65.96	ND	NM	34.70	36.70	0	2.00	NM
HIMW-018S	4/13/2010	69.76	ND	NM	40.72	42.12	0	1.40	NM
HIMW-018I	4/13/2010	69.70	ND	20.43	71.22	71.22	0	0.00	49.27
HIMW-019S	4/13/2010	70.95	ND	NM	39.03	39.38	0	0.35	NM
HIMW-019I	4/13/2010	71.27	ND	21.52	68.92	68.92	0	0.00	49.75
HIMW-020S	4/13/2010	70.43	ND	22.49	ND	35.00	0	ND	47.94
HIMW-020I	4/13/2010	70.30	ND	22.34	ND	73.00	0	ND	47.96

Table 2
Groundwater and NAPL Measurements
Second Quarter 2010
Hempstead Intersection Street Former MGP Site

Well ID	Date	Elevation of TOR	Depth to LNAPL	Depth to Water	Depth to DNAPL	Well Depth	Thickness of LNAPL	Thickness of DNAPL (2)	Corrected Potentiometric Head (1)
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-21	NM	NM	ND	NM	NM	NM	0	0.10	NM
PZ-02	NM	72.96	ND	NM	ND	35.25	0	ND	NM
PZ-03	NM	64.58	ND	NM	ND	29.49	0	ND	NM
PZ-08	4/13/2010	70.51	ND	NM	34.40	35.50	0	1.10	NM
IPR-01	4/13/2010	70.30	ND	20.71	41.94	41.94	0	0.00	49.59
IPR-02	4/13/2010	68.84	ND	NM	70.24	70.25	0	sheen	NM
IPR-03	4/13/2010	69.16	ND	19.72	44.67	44.67	0	0.00	49.44
IPR-04	4/13/2010	69.23	ND	19.84	84.35	84.35	0	0.00	49.39
IPR-05	4/13/2010	70.39	ND	NM	52.12	52.12	0	0.00	NM
IPR-06	NM	70.79	ND	NM	54.70	55.40	0	0.70	NM
IPR-07	NM	69.73	ND	NM	38.02	38.02	0	0.00	NM
IPR-08	4/13/2010	70.51	ND	21.34	40.33	40.33	0	0.00	49.17
IPR-09	4/13/2010	70.00	ND	20.05	44.94	44.95	0	0.01	49.95
IPR-10	4/13/2010	70.80	ND	21.55	44.75	44.75	0	0.00	49.25
IPR-11	4/13/2010	68.29	ND	19.23	44.62	44.62	0	0.00	49.06
IPR-12A	4/13/2010	70.14	ND	21.02	38.10	38.10	0	0.00	49.12
IPR-12B	4/13/2010	69.56	ND	20.48	45.18	45.18	0	0.00	49.08
IPR-13	4/13/2010	70.77	ND	21.56	44.41	44.41	0	0.00	49.21
IPR-14	NM	66.93	ND	NM	44.42	44.42	0	0.00	NM
IPR-15	NM	67.93	ND	NM	44.39	44.40	0	sheen	NM
IPR-16	NM	69.49	ND	NM	49.04	49.05	0	sheen	NM
IPR-17	NM	70.60	ND	NM	54.11	54.11	0	0.00	NM
IPR-18	NM	66.87	ND	NM	49.95	49.95	0	0.00	NM
IPR-19S	NM	67.68	ND	NM	ND	45.12	0	ND	NM
IPR-19D	NM	67.96	ND	NM	ND	89.92	0	sheen	NM
IPR-20	NM	66.70	ND	NM	45.39	45.40	0	sheen	NM
IPR-21	NM	67.67	ND	NM	44.86	44.96	0	0.10	NM
IPR-22	NM	66.33	ND	NM	44.85	45.40	0	0.55	NM
IPR-23	NM	66.67	ND	NM	45.40	45.40	0	0.00	NM
IPR-24	NM	65.88	ND	NM	44.34	44.35	0	sheen	NM
IPR-25	4/13/2010	70.56	ND	NM	43.20	44.50	0	1.30	NM
IPR-26	4/13/2010	NM	ND	20.68	NM	NM	0	0.10	NM
IPR-27	4/13/2010	NM	ND	21.41	NM	NM	0	sheen	NM
IPR-28	4/13/2010	NM	ND	18.95	NM	NM	0	0.00	NM
IPR-29	NM	NM	ND	NM	NM	NM	0	sheen	NM
IPR-30	NM	NM	ND	NM	NM	NM	0	0.00	NM
IPR-31	NM	NM	ND	NM	NM	NM	0	ND	NM
OSMW-01	4/13/2010	71.12	ND	21.55	42.15	42.15	0	0.00	49.57
OSMW-02	4/13/2010	71.59	ND	22.28	45.22	45.22	0	0.00	49.31
OSMW-03	4/13/2010	71.39	ND	22.16	44.73	44.73	0	0.00	49.23

Notes:

(1) Potentiometric heads in wells containing LNAPL are corrected using a specific gravity = 0.96
(2) DNAPL thicknesses measured on 4/25/2010 - 4/26/2010
sheen Sheen = assumed thickness of 0.01 ft
NM not measured
LNAPL light non-aqueous phase liquid
DNAPL dense non-aqueous phase liquid
TOR top of riser
amsl above mean sea level
ND NAPL not detected

Table 3
NAPL Recovery
Second Quarter of 2010
Hempstead Intersection Street Former MGP Site

Well ID	June 25, 2010			June 9, 2010			May 23, 2010			April 26, 2010			April 11, 2010		
	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)
	[ft]	[ft]	[gal]	[ft]	[ft]	[gal]	[ft]	[ft]	[gal]	[ft]	[ft]	[gal]	[ft]	[ft]	[gal]
HIMW-01S	0	trace	0.00	0	trace	0.00	0	0.10	0.02	0	0.10	0.02	NI	NI	0.00
HIMW-01I	0	0.40	0.07	0	trace	0.00	0	0.50	0.08	0	0.50	0.08	NI	NI	0.00
HIMW-06S	0	1.30	0.21	0	2.10	0.34	0	3.30	0.54	0	3.20	0.52	0	5.30	0.87
HIMW-06I	0	0.80	0.13	NI	NI	0.00	0	trace	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-07S	0	0.80	0.13	0	1.50	0.24	0	1.05	0.17	0	0.70	0.11	0	2.50	0.41
HIMW-07I	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-07D	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-11S	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-11I	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-16S	0	3.80	0.62	0	3.00	0.49	0	1.70	0.28	0	3.50	0.57	0	4.98	0.81
HIMW-16I	0	2.37	0.39	0	3.30	0.54	0	3.00	0.49	0	5.50	0.90	0	5.90	0.96
HIMW-17S	0	1.35	0.22	0	2.60	0.42	0	1.25	0.20	0	2.00	0.33	0	0.80	0.13
HIMW-18S	0	trace	0.00	0	trace	0.00	0	0.00	0.00	0	1.40	0.23	NI	NI	0.00
HIMW-18I	0	0.40	0.07	NI	NI	0.00	0	0.00	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-19S	0	trace	0.00	0	trace	0.00	0	0.00	0.00	0	0.35	0.06	NI	NI	0.00
HIMW-19I	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-21	0	trace	0.00	0	0.40	0.59	0	0.15	0.22	0	0.10	0.15	0	0.55	0.81
PZ-08	0	1.88	0.31	0	1.00	0.16	0	1.05	0.17	0	1.10	0.18	0	1.30	0.21
IPR-02	0	trace	0.00	NI	NI	0.00	0	trace	0.00	0	trace	0.00	NI	NI	0.00
IPR-05	0	trace	0.00	NI	NI	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
IPR-06	0	2.55	3.75	0	1.00	1.47	0	1.25	1.84	0	0.70	1.03	0	0.45	0.66
IPR-09	0	0.00	0.00	NI	NI	0.00	NI	NI	0.00	0	trace	0.00	NI	NI	0.00
IPR-12A	0	0.00	0.00	NI	NI	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
IPR-14	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	0	0.00	0.00	NI	NI	0.00
IPR-15	0	trace	0.00	NI	NI	0.00	0	trace	0.00	0	trace	0.00	NI	NI	0.00
IPR-16	0	0.33	0.45	NI	NI	0.00	0	trace	0.00	0	trace	0.00	NI	NI	0.00
IPR-17	0	trace	0.00	NI	NI	0.00	0	trace	0.00	0	0.00	0.00	NI	NI	0.00
IPR-18	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	0	0.00	0.00	NI	NI	0.00
IPR-19D	0	0.00	0.00	NI	NI	0.00	0	trace	0.00	0	trace	0.00	NI	NI	0.00
IPR-20	0	trace	0.00	NI	NI	0.00	0	trace	0.00	0	trace	0.00	NI	NI	0.00
IPR-21	0	1.13	1.66	0	0.75	1.10	0	0.90	1.32	0	0.10	0.15	0	0.95	1.40
IPR-22	0	0.00	0.00	0	1.00	1.47	0	0.15	0.22	0	0.55	0.81	0	1.05	1.54
IPR-23	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	0	0.00	0.00	NI	NI	0.00
IPR-24	0	trace	0.00	NI	NI	0.00	0	trace	0.00	0	trace	0.00	0	0.05	0.07
IPR-25	0	1.80	2.64	0	1.50	2.20	0	1.70	2.50	0	1.30	1.91	0	1.40	2.06
IPR-26	0	trace	0.00	0	0.75	1.10	0	0.30	0.44	0	0.10	0.15	NI	NI	0.00
IPR-27	0	0.40	0.59	0	0.60	0.88	0	0.20	0.29	0	trace	0.00	NI	NI	0.00
IPR-29	0	2.00	2.94	0	0.50	0.73	0	0.75	1.10	0	trace	0.00	0	1.00	1.47
	Volume Removed		**14.16**	Volume Removed		**11.75**	Volume Removed		**9.88**	Volume Removed		**7.18**	Volume Removed		**11.40**

Total volume recovered during the second quarter 2010: 54.37 gal
Total volume of NAPL recovered since April 2007: 542.2 gal

Notes:

NI - well not included in the product recovery program during this round
NA - No Access
LNAPL - light non-aqueous phase liquid
DNAPL - dense non-aqueous phase liquid
(1) - Volume of product recovered estimated by multiplying the cross sectional area of well screen by the thickness of product layer measured prior to pumping.

All HIMW (unless noted) and PZ monitoring wells are 2-inch diameter:	Vol =	0.163 gal / lft of well screen.
All IPR monitoring wells (unless noted) and HIMW-21are 6-inch diameter:	Vol =	1.469 gal / lft of well screen.
Monitoring wells IPR-16 and IPR-17 are 5.75-inch diameter:	Vol =	1.349 gal / lft of well screen.
Monitoring well IPR-05 and IPR-12A are 1-inch diameter:	Vol =	0.041 gal / lft of well screen.

Table 4

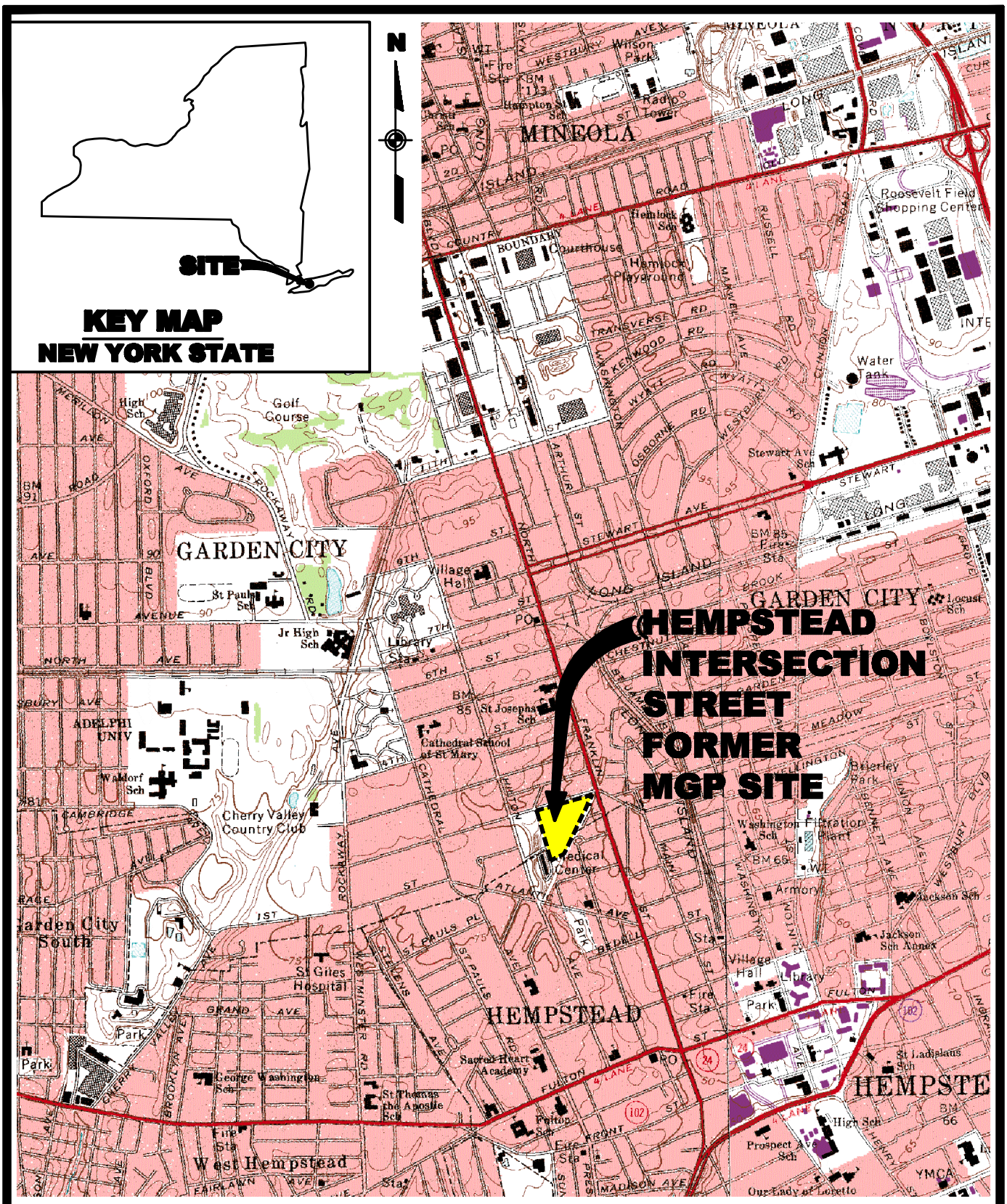
Hempstead Intersection Street Former MGP Site
Dissolved-Phase Concentrations of
Total BTEX Compounds and Total PAH Compounds
for the Second Quarter 2010

Well ID	Second Quarter 2010 (April 13-20, 2010) Concentrations	
	BTEX [ug/L]	PAH [ug/L]
HIMW-001D		
HIMW-001I		
HIMW-001S		
HIMW-002D		
HIMW-002I		
HIMW-002S		
HIMW-003D	ND	ND
HIMW-003I	ND	ND
HIMW-003S	ND	ND
HIMW-004D		
HIMW-004I		
HIMW-004S		
HIMW-005D	228	1,309
HIMW-005I	149	2,421
HIMW-005S	ND	ND
HIMW-006D		
HIMW-006I		
HIMW-006S		
HIMW-007D		
HIMW-007I		
HIMW-007S		
HIMW-008D	ND	ND
HIMW-008I	ND	ND
HIMW-008S	ND	2
HIMW-009D		
HIMW-009I		
HIMW-009S		
HIMW-010D		
HIMW-010I		
HIMW-010S		
HIMW-011D		
HIMW-011I		
HIMW-011S		
HIMW-012D	ND	ND
HIMW-012I	54.1	133
HIMW-012S	7.5	ND
HIMW-013D	5.9	21
HIMW-013I	305	133
HIMW-013S	ND	ND
HIMW-014D	ND	ND
HIMW-014I	43.6	37
HIMW-015D	ND	ND
HIMW-015I	18	24
HIMW-016I		
HIMW-016S		
HIMW-017S		
HIMW-018I		
HIMW-018S		
HIMW-019I		
HIMW-019S		
HIMW-020I	192.6	209
HIMW-020S	ND	ND
PZ-02		
PZ-03		
PZ-08		

Notes:

	A blank field is "Not Sampled".
	NAPL is periodically identified in this well.
ND	Not Detected.
ug/L	micrograms per liter

FIGURES



NATIONAL GRID
HEMPSTEAD INTERSECTION STREET FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY

SOURCE:
USGS 7.5 MINUTE SERIES
TOPOGRAPHICAL QUANDRANGLES:
FREEPORT, NY (1969)
LYNBROOK, NY (1969)

URS Corporation

LOCATION MAP

FIGURE 1

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\GROUNDWATER MONITORING\FIGURE-1.dwg 3/13/09 - 1 RAL

J:\11175065.00000\DB\GIS\ARCMAP\SITE MAP.mxd 8/18/2010 MDL

N

Second Street
Washington
Franklin
Union
Main
Atlantic
Bedell
Hilton
Cathedral
Jackson
Fulton
Front

IPR-1
HIMW-019S,I
HIVP-16
IPR-2
IPR-3
IPR-4
HIMW-001S,I,D
HIMW-003S,I,D
IPR-7
IPR-9
IPR-11
HIMW-006S,I,D
HIMW-004S,I,D
HIMW-005S,I,D
IPR-14
IPR-28
IPR-18
HIMW-016S,I
IPR-30
IPR-20
IPR-29
IPR-22
HIMW-21
HIMW-008S,I,D
HIMW-020S,I
PZ-02
PZ-03
HIMW-018S,I
IPR-8
IPR-5
IPR-25
IPR-26
PZ-08
IPR-27
IPR-6
HIMW-002S,I,D
OSMW-1
HIMW-011S,I,D
OSMW-2
OSMW-3
HIMW-010S,I,D
IPR-10
IPR-13
HIMW-007S,I,D
IPR-17
HIMW-009S,I,D
IPR-16
IPR-12A,B
IPR-15
IPR-19S,D
IPR-21
IPR-23
IPR-24
HIMW-017S
HIVP-17
HIMW-012S,I,D
HIMW-013S,I,D
HIVP-18
HIMW-014I,D
HIMW-015I,D

Legend

- Piezometer
- Monitoring Well
- Product Recovery Well
- Soil Vapor Point
- Former MGP Site Boundary

400 0 400 Feet

URS

HEMPSTEAD/GARDEN CITY, NY
SITE MAP

FIGURE 2

HIGP-209 (11/11/08)		
DEPTH	TOT. BTEX	TOT. PAHs
34–38	1,709	1,066
40–44	4,980	645
50–54	3,859	1,297
70–74	2	3

HIGP-40 (8/7/00)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	4,166	9,815
56–60	4	112

HIGP-49 (10/16/00)		
DEPTH	TOT. BTEX	TOT. PAHs
36–40	ND	ND
60–64	7	63
90–94	ND	16

HIGP-55 (9/7/00)		
DEPTH	TOT. BTEX	TOT. PAHs
23–27	31	244
60–64	69	532
80–84	2	ND

HIGP-61 (11/8/00)		
DEPTH	TOT. BTEX	TOT. PAHs
26–30	ND	ND
60–64	30	39
90–94	2	2

HIGP-66 (12/14/00)		
DEPTH	TOT. BTEX	TOT. PAHs
40–44	ND	1
56–60	8	60
72–76	398	787
90–94	12,970	259

HIGP-71 (11/6/01)		
DEPTH	TOT. BTEX	TOT. PAHs
46–50	ND	ND
54–58	ND	ND
62–66	1	7
72–76	29	84
81–85	126	95

HIMW–09S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
28–38	ND–16	ND–8
70–80	ND–2	ND
113–123	ND–16	ND–10

HIMW–15 I,D		
DEPTH	TOT. BTEX	TOT. PAHs
80–90	5–111 (18)	ND–273 (24)
141.5–151.5	ND–94 (ND)	ND–1 (ND)

HISB–102(2) (1/8/09)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	423	859
40–44	464	274
50–54	349	652
60–64	68	453
70–74	5	5
80–84	ND	1

HISB–106 (12/4/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	418	602
40–44	1,162	383
50–54	1,800	2,513
60–64	815	572
70–74	68	51
80–84	38	30
90–94	124	98

HISB–114 (12/23/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	ND
50–54	ND	ND
60–64	ND	ND
70–74	ND	ND
80–84	ND	ND
90–94	ND	ND

HITW–01 (9/21/01)		
DEPTH	TOT. BTEX	TOT. PAHs
40–44	2	ND
54–58	3	6
70–74	95	278
82–86	293	274
90–94	45	44
109–113	210	1

HIGP–01 (8/7/00)		
DEPTH	TOT. BTEX	TOT. PAHs
25–29	ND	ND
56–60	1	1

HIGP–41 (8/11/00)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	2,241	3,258
58–62	1	17

HIGP–50 (9/8/00)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	8
60–64	ND	ND

HIGP–56 (10/9/00)		
DEPTH	TOT. BTEX	TOT. PAHs
24–28	ND	2
60–64	ND	ND

HIGP–62 (11/8/00)		
DEPTH	TOT. BTEX	TOT. PAHs
37–41	8	4
54–58	771	152
84–89	45	89

HIGP–67 (12/20/00)		
DEPTH	TOT. BTEX	TOT. PAHs
37–41	ND	ND
54–58	ND	ND
72–76	ND	ND
90–94	ND	ND

HIGP–72 (11/6/01)		
DEPTH	TOT. BTEX	TOT. PAHs
52–56	ND	ND
62–66	ND	ND
72–76	ND	ND
82–86	ND	ND
92–96	ND	ND

HIMW–10S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
28–38	ND–33	1–150
80.5–90.5	ND–13	ND
112.5–132.5	ND–16	ND

HIMW–20S,I		
DEPTH	TOT. BTEX	TOT. PAHs
25–35	ND (ND)	ND (ND)
63–73	176–224 (192.6)	96–221 (209)

HISB–103 (12/1/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	4	6
50–54	84	171
60–64	ND	ND
70–74	ND	ND
80–84	5	9

HISB–107 (12/8/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	217	47
50–54	551	258
60–64	29	68
70–74	ND	ND
80–84	ND	ND
90–94	24	8

HISB–115 (1/14/09)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	15
40–44	9	14
50–54	288	265
60–64	125	133
70–74	1,411	1,153
80–84	123	99
90–94	56	67

HITW–02 (10/31/01)		
DEPTH	TOT. BTEX	TOT. PAHs
55–60	2	ND
65–70	5	9
75–80	9	40
85–90	29	52
115–120	42	ND
148–153	9	0

HIGP–02 (8/8/00)		
DEPTH	TOT. BTEX	TOT. PAHs
31–35	ND	ND
56–60	ND	ND

HIGP–44 (8/10/00)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	469	244
57–61	3	47

HIGP–51 (8/31/00)		
DEPTH	TOT. BTEX	TOT. PAHs
28–32	ND	ND
58–60	ND	ND

HIGP–57 (9/21/00)		
DEPTH	TOT. BTEX	TOT. PAHs
36–40	ND	ND
64–68	ND	ND

HIGP–63 (12/15/00)		
DEPTH	TOT. BTEX	TOT. PAHs
37–41	2	3
54–58	18	22
72–76	3,979	2,769
90–94	773	63

HIGP–68 (12/20/00)		
DEPTH	TOT. BTEX	TOT. PAHs
37–41	3	5
54–58	163	300
72–76	ND	ND
90–94	ND	ND

HIMW–03S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
23–33	ND–36 (ND)	ND (ND)
80.5–90.5	ND–13 (ND)	ND (ND)
133–143	ND–8.2 (ND)	ND–30 (ND)

HIMW–12S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
22–32	ND–11 (7.5)	ND–4 (ND)
63–73	29.2–256 (54.1)	65–527 (133)
117–127	ND–6 (ND)	ND–2 (ND)

HISB–100 (11/19/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	12,000	1,576
50–54	441	332
60–64	1,470	599
70–74	747	1,809
80–84	22	21

HISB–104 (9/24/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
45–49	ND	ND
55–59	ND	ND

HISB–108 (12/9/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	ND
50–54	ND	ND
60–64	ND	ND
70–74	12	1
80–84	20	1
90–94	26	2

HISB–116 (6/23/09)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	ND
50–54	1.3	ND
60–64	100	192
70–74	6	37
80–84	91	330
90–94	100	451
100–104	292	604

HIGP–03 (7/28/00)		
DEPTH	TOT. BTEX	TOT. PAHs
33–37	ND	ND
56–60	ND	ND

HIGP–45 (10/17/00)		
DEPTH	TOT. BTEX	TOT. PAHs
32–38	1,229	1,254
60–64	ND	ND

HIGP–52 (9/11/00)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	1,031	2,629
58–60	ND	ND

HIGP–58 (10/18/00)		
DEPTH	TOT. BTEX	TOT. PAHs
36–40	ND	ND
60–64	ND	ND
90–94	ND	ND

HIGP–64 (12/18/00)		
DEPTH	TOT. BTEX	TOT. PAHs
37–41	27	17
54–58	4,031	1,574
72–76	401	239
90–94	14	48

HIGP–69 (9/24/01)		
DEPTH	TOT. BTEX	TOT. PAHs
54–58	ND	ND
70–74	28	28
82–86	126	76
90–94	12	19
104–108	5	ND

HIMW–04S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
30–40	ND–4	ND–1
80–90	ND–13	ND
167–177	ND–4	ND–1

HIMW–13S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
38–48	ND–11 (ND)	ND (ND)
70–80	ND–305 (305)	58–156 (133)
110–120	2.8–30 (5.9)	ND–21 (21)

HISB–101 (11/19/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	122	190
40–44	14,100	4,356
50–54	4,040	3,244
60–64	1,995	2,074
70–74	4	4
80–84	1	2

HISB–105 (12/4/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	518
50–54	469	ND
60–64	1,043	3,058
70–74	60	59
80–84	279	576
90–94	48	99

HISB–109 (12/10/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	ND
50–54	8	ND
60–64	19	ND
70–74	28	ND
80–84	31	2
90–94	ND	ND

HISB–117 (4/22/10)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	ND
50–54	ND	ND
60–64	ND	ND
70–74	ND	2
80–84	2	32
90–94	ND	2
100–104	ND	2

HIGP–04 (7/24/00)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
56–60	ND	2

HIGP–47 (8/22/00)		
DEPTH	TOT. BTEX	TOT. PAHs
31–35	6,670	18,715
60–64	500	369

HIGP–53 (9/1/00)		
DEPTH	TOT. BTEX	TOT. PAHs
27–31	76	317
60–64	15	35
90–94	1	ND

HIGP–59 (10/17/00)		
DEPTH	TOT. BTEX	TOT. PAHs
34–38	1	ND
60–64	ND	2
90–94	27	4

HIGP–65 (12/19/00)		
DEPTH	TOT. BTEX	TOT. PAHs
37–41	2	ND
54–58	376	125
72–76	775	190
90–94	36	59

HIGP–70 (9/20/01)		
DEPTH	TOT. BTEX	TOT. PAHs
54–58	ND	0
70–74	21	20
82–86	29	38
92–96	15	18
110–114	3	6
140–144	3	ND

HIMW–05S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
27–37	ND–232 (ND)	ND–765 (ND)
80–90	149–439 (149)	1,494–5,337 (2,421)
130–140	ND–228 (228)	ND–1,722 (1,309)

HIMW–14 I,D		
DEPTH	TOT. BTEX	TOT. PAHs
85–95	41–273 (43.6)	26–288 (37)
140–150	ND–15 (ND)	ND (ND)

HISB–102 (12/1/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	1,800	2,706
40–44	835	1,119
50–54	225	2,735
60–64	ND	10
70–74	1	4
80–84	76	130

HISB–105(2) (12/18/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	15	19
40–44	14	35
50–54	247	912
60–64	560	2,941
70–74	59	34
80–84	14	69
90–94	24	221
100–104	1	ND

HISB–119 (4/14/10)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	2
40–44	ND	1
50–54	ND	2
60–64	ND	ND
70–74	ND	4
80–84	ND	16
90–94	ND	4

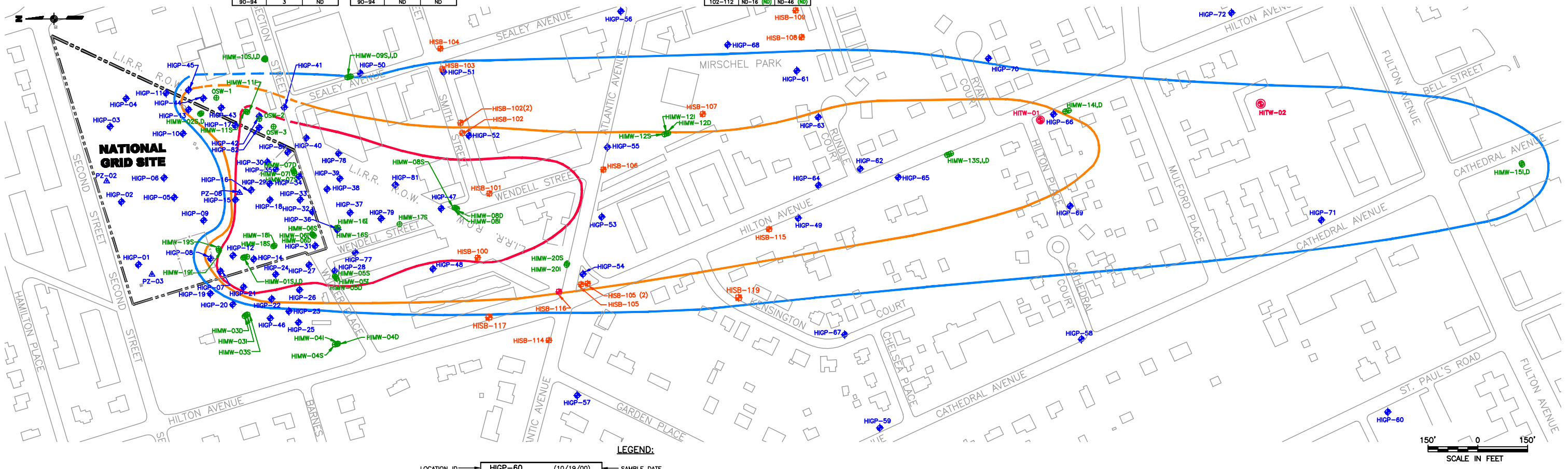
HIGP–28 (8/4/00)		
DEPTH	TOT. BTEX	TOT. PAHs
29–33	17	22
58–62	2,640	5,933

HIGP–48 (8/25/00)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	2
60–64	766	926

HIGP–54 (9/5/00)		
DEPTH	TOT. BTEX	TOT. PAHs
33–37	ND	1
60–64	373	338
90–94	3	ND

HIGP–60 (10/19/00)		
DEPTH	TOT. BTEX	TOT. PAHs
33–37	ND	ND
60–64	ND	ND
90–94	ND	ND

HIMW–08S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
25–35	ND–8,240 (ND)	ND–3,069 (2)
63–73	ND–8.6 (ND)	ND–251 (ND)
102–112	ND–16 (ND)	ND–46 (ND)



LEGEND:

HITW–02 TEMPORARY GROUNDWATER MONITORING WELL (TAKEN FROM RI REPORT, 2006)

HIGP–53 TEMPORARY GROUNDWATER SAMPLE LOCATION (TAKEN FROM RI REPORT, 2006)

HIMW–13 MONITORING WELL

PZ–02 PIEZOMETER

HISB–114 TEMPORARY GROUNDWATER SAMPLE LOCATION (URS, 2008–2009)

ND NOT DETECTED

LOCATION ID → HIGP–60 (10/19/00) ← SAMPLE DATE

DEPTH (ft bgs) →

DEPTH	TOT. BTEX	TOT. PAHs
33–37	ND	ND
60–64	ND	ND
90–94	ND	ND

← CONCENTRATION UNITS ARE ug/L (APRIL 2010 CONCENTRATION)

* SOME LOCATIONS ON SITE AND ADJACENT TO SITE ARE NOT SHOWN FOR FIGURE CLARITY.

EXISTING HOUSE OR BUILDING

NATIONAL GRID PROPERTY BOUNDARY

ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 5,000 ug/L

ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 1,000 ug/L

ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 100 ug/L

ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS. DASHED LINES REPRESENT CONTAMINATION CONCENTRATIONS THAT ARE LIKELY INFLUENCED BY THIRD PARTY SOURCES.

J:\11175085.00000\CAD\DRAFT\TASK2\HEMPSTEAD\GROUNDWATER MONITORING\SECOND QUARTER 2010\FIGURE 3.dwg 8/17/10 – 5 RAL

URS Corporation

NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY

EXTENT OF DISSOLVED-PHASE PLUME AND GROUNDWATER ANALYTICAL RESULTS

FIGURE 3

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SITE-WIDE REMEDY\GROUNDWATER TREATMENT\APRIL 2010\FIGURE 4.dwg 5/27/10 - 4 RAL

N

NATIONAL GRID
FORMER MGP SITE

HIMW-19S, NM
HIMW-01S, NM
IPR-8, 49.17
IPR-9, 49.95
HIMW-03S, 49.34
HIMW-18S, NM
IPR-7, NM
IPR-12A, 49.12
IPR-11, 49.06
HIMW-06S, NM
IPR-14, NM
HIMW-04S, 48.73
HIMW-05S, 48.80
HIMW-016S, NM
IPR-20, NM
IPR-1, 49.59
IPR-3, 49.44
IPR-25, NM
IPR-10, 49.25
IPR-7, NM
IPR-12A, 49.12
IPR-11, 49.06
HIMW-06S, NM
IPR-14, NM
IPR-15, NM
IPR-19S, NM
IPR-21, NM
IPR-22, NM
IPR-23, NM
IPR-24, NM
HIMW-17S, NM
HIMW-8S, 48.33
HIMW-02S, 49.39
OSMW-1, 49.57
PZ-08, NM
HIMW-11S, 49.43
HIMW-10S, 49.21
OSMW-2, 49.31
OSMW-3, 49.23
IPR-13, 49.21
HIMW-07S, NM
IPR-12B, 49.08
HIMW-09S, 48.85
HIMW-20S, 47.94
HIMW-12S, 47.18
HIMW-13S, 45.26
49
48
47
46
L.I.R.R. R.O.W.
SECOND STREET
HILTON AVENUE
BARNES LANE
WATER PLACE
WENDELL STREET
SEALEY AVENUE
FRANKLIN AVENUE
MAIN STREET
MEADOW PLACE
STOWE PLACE
SAMMIS PLACE
OLD FRANKLIN STREET
MILLER PLACE
UNION PLACE
SMITH STREET
ATLANTIC AVENUE
KELLUM PLACE
GARDEN PLACE
KENSINGTON COURT
CATHEDRAL AVENUE
CHELSEA PLACE
MIRSCHEL PARK
TERRACE AVENUE
MARGARET COURT
BEDELL STREET
NORTH FRANKLIN STREET
WEST COLUMBIA
RUNDLE COURT
RYAN COURT
CATHEDRAL COURT
HILTON PLACE
JACKSON STREET
MULFORD PLACE
ST. PAUL'S
FULTON AVENUE
BELL STREET

LEGEND:

- MONITORING WELL
- IPR WELL
- PIEZOMETER
- GROUNDWATER FLOW DIRECTION
- 44 — POTENTIOMETRIC SURFACE CONTOUR
- FORMER MGP SITE BOUNDARY
- HIMW-8S, 48.33 — LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL)

300' 0 300'
SCALE IN FEET

NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY

URS Corporation

HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER
APRIL 13-14, 2010

FIGURE 4

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SITE-WIDE REMEDY\GROUNDWATER TREATMENT\APRIL 2010\FIGURE 5.dwg 5/27/10 - 3 RAL

N

NATIONAL GRID
FORMER MGP SITE

IPR-4, 49.39
HIMW-02I, 54.60
HIMW-19I, 49.75
IPR-2, NM
IPR-5, NM
IPR-6, NM
HIMW-11I, 49.40
HIMW-03I, 49.07
HIMW-07I, 48.75
HIMW-01I, NM
HIMW-10I, 49.25
HIMW-18I, 49.27
HIMW-06I, NM
IPR-17, NM
IPR-16, NM
IPR-19D, NM
HIMW-04I, 48.68
HIMW-09I, 48.70
HIMW-05I, 48.70
IPR-18, NM
HIMW-16I, NM
HIMW-08I, 48.31
HIMW-20I, 47.96
HIMW-12I, 47.33
HIMW-13I, 45.24
HIMW-14I, 45.09
HIMW-15I, 41.86

53
52
51
50
49
48
47
46
45
44
43

MAIN STREET
SECOND STREET
HAMILTON AVENUE
HILTON AVENUE
FRANKLIN AVENUE
OLD FRANKLIN STREET
MEADOW PLACE
STOWE PLACE
SAMMS PLACE
MILLER PLACE
UNION PLACE
BARNES LANE
SNYDLER PLACE
WENDELL STREET
SEALEY AVENUE
INTERSECTION STREET
SMITH STREET
L.I.R.R. R.O.W.
ATLANTIC AVENUE
GARDEN PLACE
KENSINGTON COURT
CHELSEA PLACE
CATHEDRAL AVENUE
CATHEDRAL COURT
HILTON PLACE
MULFORD PLACE
MRSCHEL PARK
TERRACE AVENUE
MARGARET COURT
BEDELL STREET
RUNDLE COURT
RYAN COURT
JACKSON STREET
KELLUM PLACE
NORTH FRANKLIN STREET
WEST COLUMBIA
FULTON AVENUE
BELL STREET
ST. PAUL'S

LEGEND:

- MONITORING WELL
- IPR WELL
- GROUNDWATER FLOW DIRECTION
- 43 — POTENTIOMETRIC SURFACE CONTOUR
- FORMER MGP SITE BOUNDARY
- HIMW-08I, 48.31 — LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL)

300' 0 300'
SCALE IN FEET

NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY

URS Corporation

HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER
APRIL 13-14, 2010

FIGURE 5

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SITE-WIDE REMEDY\GROUNDWATER TREATMENT\APRIL 2010\FIGURE 6.dwg 5/27/10 - 4 RAL

N

NATIONAL GRID
FORMER MGP SITE

HIMW-02D, 49.72
HIMW-03D, 48.84
HIMW-01D, NM
HIMW-11D, 49.37
HIMW-06D, NM
HIMW-10D, 49.29
HIMW-05D, 48.20
HIMW-07D, 49.14
HIMW-04D, 48.10
HIMW-09D, 48.73
HIMW-8D, 48.30
HIMW-12D, 45.70
HIMW-13D, 45.17
HIMW-14D, 42.83
HIMW-15D, 40.07

49
48
47
46
45
44
43
42
41

SECOND STREET
HILTON AVENUE
BARNES LANE
WYDLER PLACE
WENDELL STREET
L.I.R.R. R.O.W.
FRANKLIN AVENUE
MAIN STREET
MEADOW PLACE
STOWE PLACE
SAMMS PLACE
OLD FRANKLIN STREET
INTERSECTION STREET
MILLER PLACE
UNION PLACE
SEALEY AVENUE
SMITH STREET
ATLANTIC AVENUE
KELLUM PLACE
GARDEN PLACE
KENSINGTON COURT
CATHEDRAL AVENUE
CHELSEA PLACE
MIRSCHEL PARK
TERRACE AVENUE
MARGARET COURT
BEDELL STREET
RUNDLE COURT
NORTH FRANKLIN STREET
WEST COLUMBIA
RYAN COURT
HILTON PLACE
CATHEDRAL COURT
JACKSON STREET
MULFORD PLACE
FULTON AVENUE
BELL STREET
ST. PAUL'S

LEGEND:

- ⊕ MONITORING WELL
- → GROUNDWATER FLOW DIRECTION
- 43 POTENTIOMETRIC SURFACE CONTOUR
- — - - — FORMER MGP SITE BOUNDARY
- HIMW-12D, 45.70 LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL)

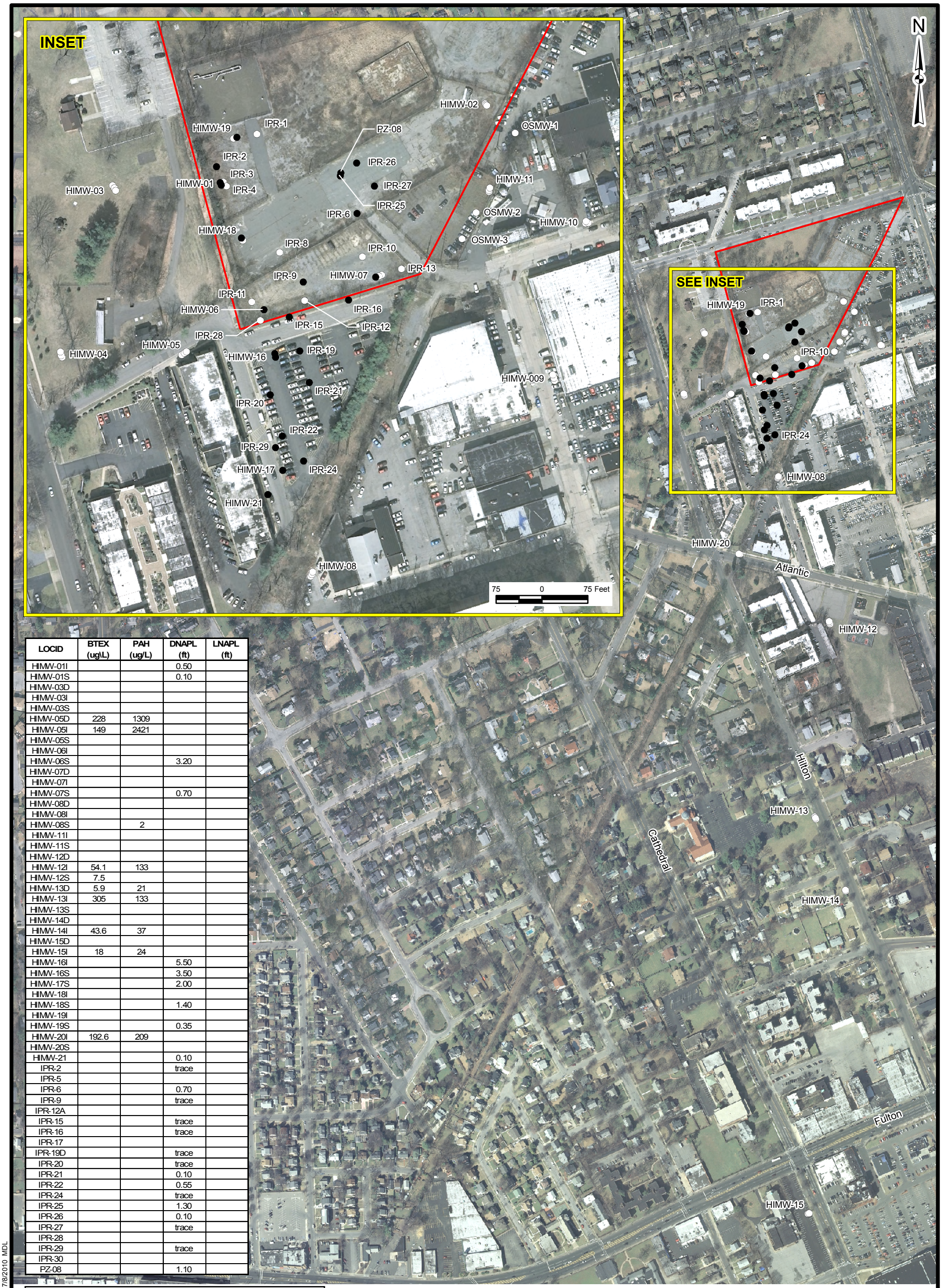
300' 0 300'
SCALE IN FEET

NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY

URS Corporation

HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER
APRIL 13-14, 2010

FIGURE 6



LOCID	BTEX (ug\L)	PAH (ug/L)	DNAPL (ft)	LNAPL (ft)
HIMW-01I			0.50	
HIMW-01S			0.10	
HIMW-03D				
HIMW-03I				
HIMW-03S				
HIMW-05D	228	1309		
HIMW-05I	149	2421		
HIMW-05S				
HIMW-06I				
HIMW-06S			3.20	
HIMW-07D				
HIMW-07I				
HIMW-07S			0.70	
HIMW-08D				
HIMW-08I				
HIMW-08S		2		
HIMW-11I				
HIMW-11S				
HIMW-12D				
HIMW-12I	54.1	133		
HIMW-12S	7.5			
HIMW-13D	5.9	21		
HIMW-13I	305	133		
HIMW-13S				
HIMW-14D				
HIMW-14I	43.6	37		
HIMW-15D				
HIMW-15I	18	24		
HIMW-16I			5.50	
HIMW-16S			3.50	
HIMW-17S			2.00	
HIMW-18I				
HIMW-18S			1.40	
HIMW-19I				
HIMW-19S			0.35	
HIMW-20I	192.6	209		
HIMW-20S				
HIMW-21			0.10	
IPR-2			trace	
IPR-5				
IPR-6			0.70	
IPR-9			trace	
IPR-12A				
IPR-15			trace	
IPR-16			trace	
IPR-17				
IPR-19D			trace	
IPR-20			trace	
IPR-21			0.10	
IPR-22			0.55	
IPR-24			trace	
IPR-25			1.30	
IPR-26			0.10	
IPR-27			trace	
IPR-28				
IPR-29			trace	
IPR-30				
PZ-08			1.10	

Legend

- Monitoring Well - Product Detected
- Monitoring Well - Product Not Detected
- Former MGP Site Boundary

Notes:
BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes
PAH - Polynuclear Aromatic Hydrocarbons
DNAPL - Dense Non-Aqueous Phase Liquid
LNAPL - Light Non-Aqueous Phase Liquid
ug/L - Micrograms per Liter
ft - Feet of Product Thickness
Product thickness for all wells measured on 4/26/2010
BTEX/PAH sampling occurred on 4/13/2010 - 4/20/2010

400 0 400 Feet

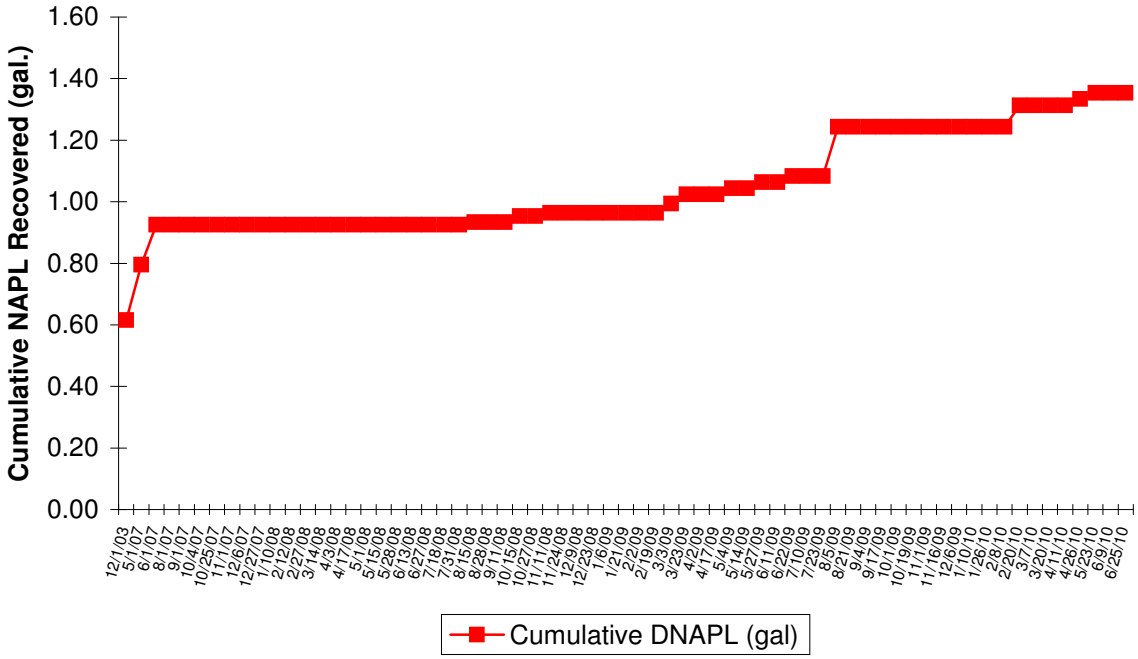
URS

HEMPSTEAD/GARDEN CITY, NY
TOTAL DISSOLVED-PHASE BTEX/PAH CONCENTRATIONS AND FREE PRODUCT THICKNESS
SECOND QUARTER 2010

FIGURE 7

J:\11175065.00000\DB\GIS\ARCMAP\0410 BTEXPAH-NAPL.mxd 7/8/2010 MDL

FIGURE 8A
Well HIMW-01S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



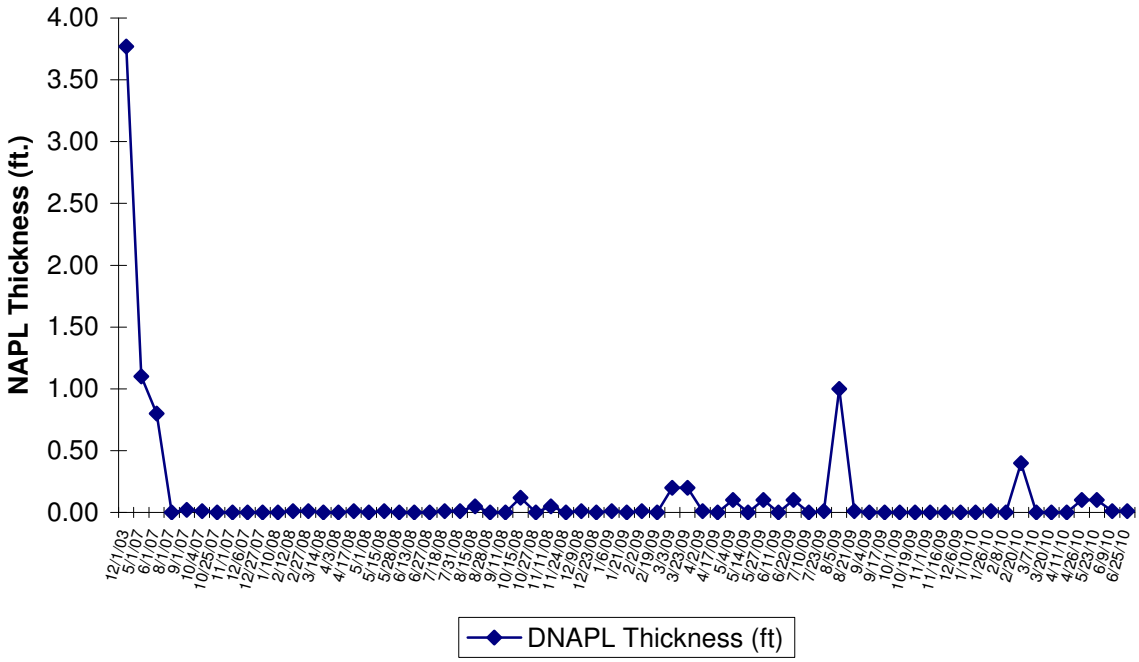
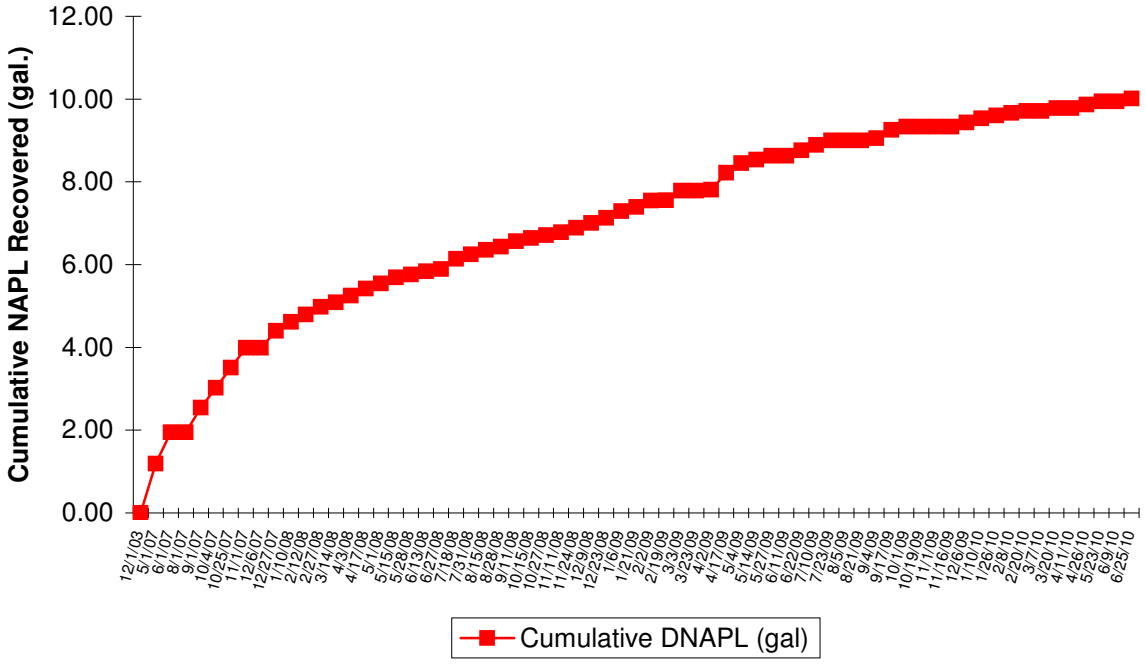


FIGURE 8B
Well HIMW-01I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



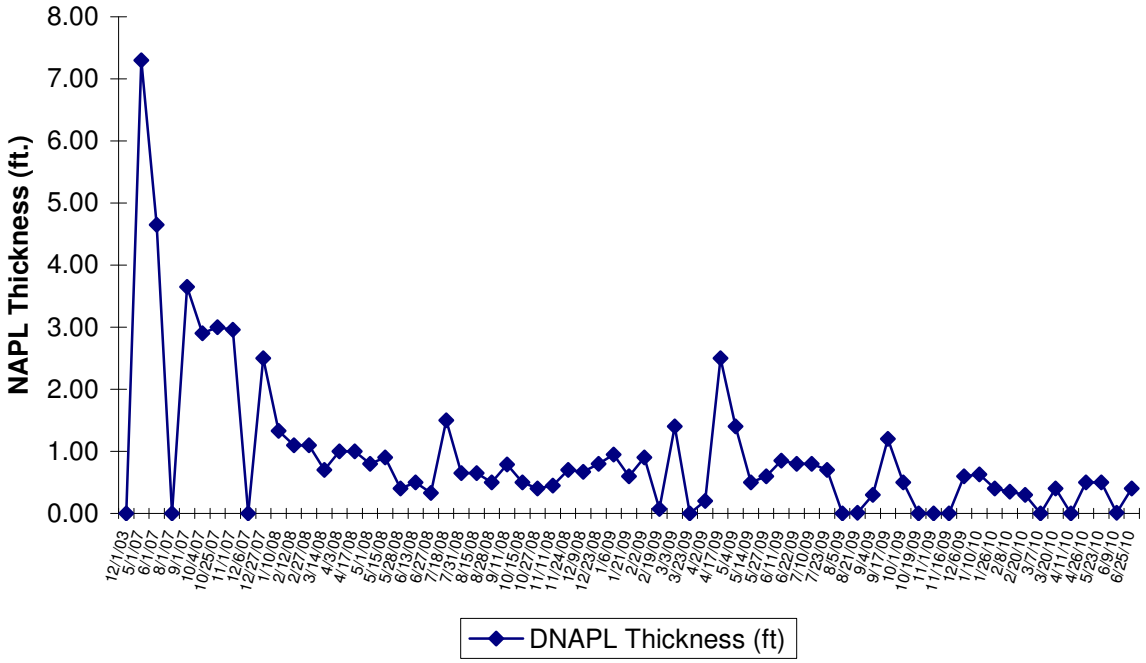
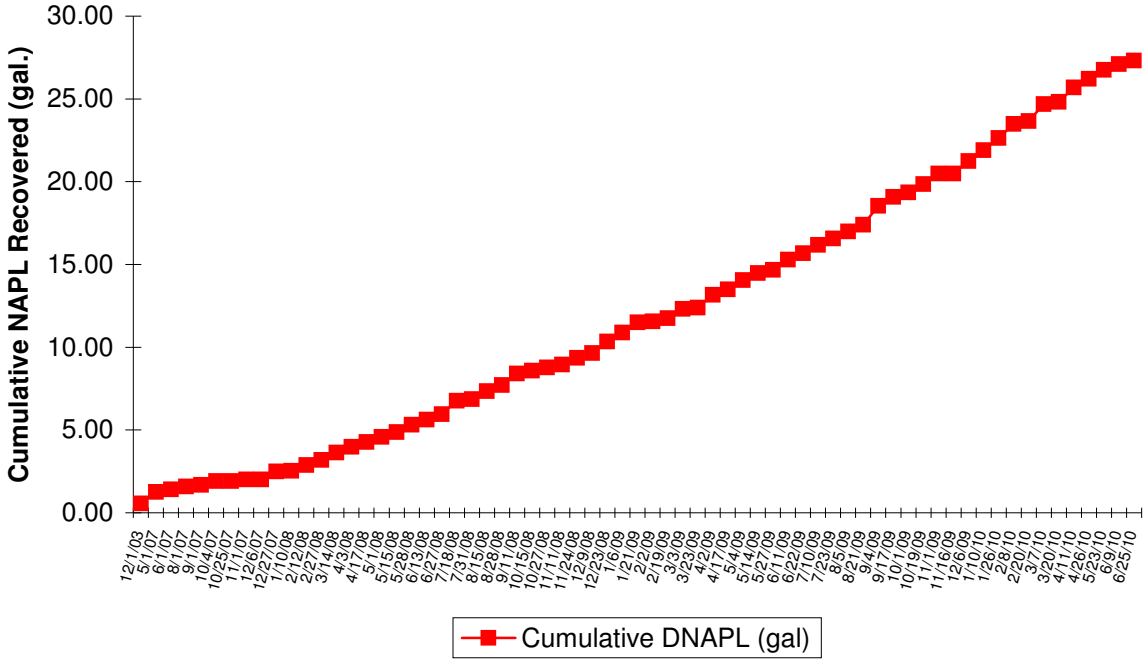


FIGURE 8C
Well HIMW-06S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



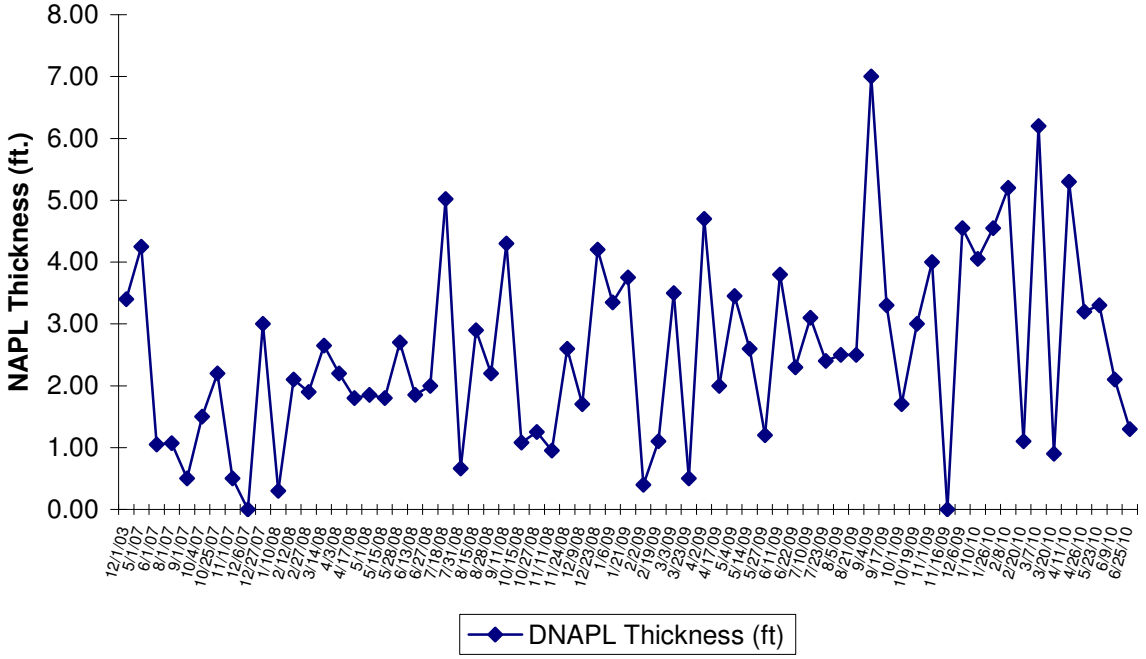
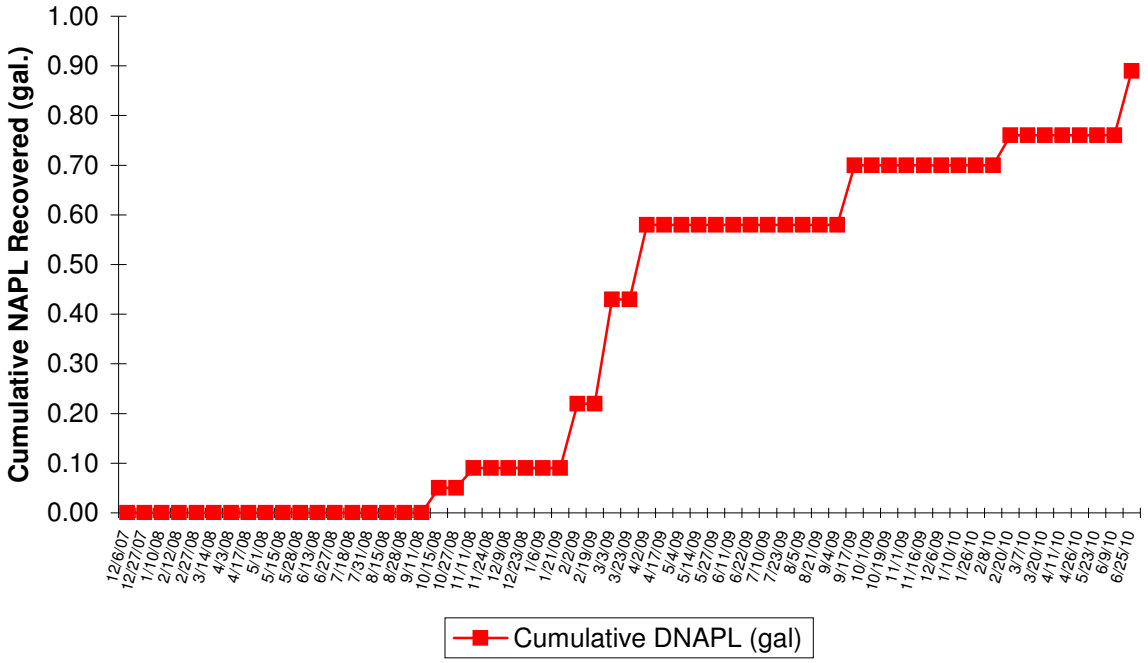


FIGURE 8D
Well HIMW-06I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



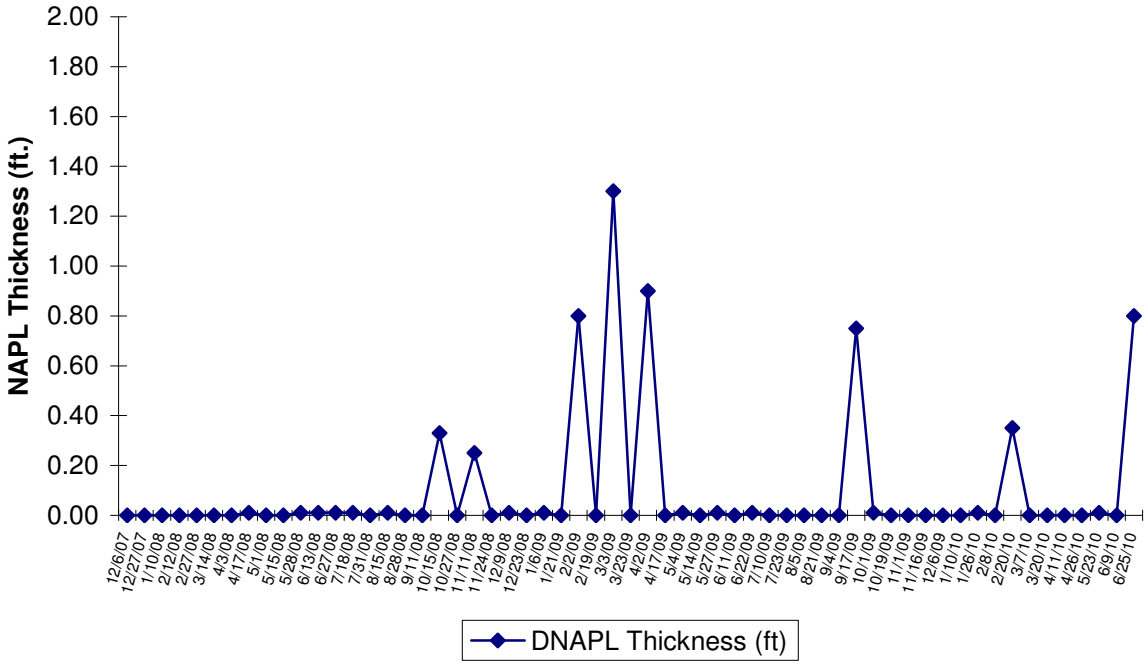
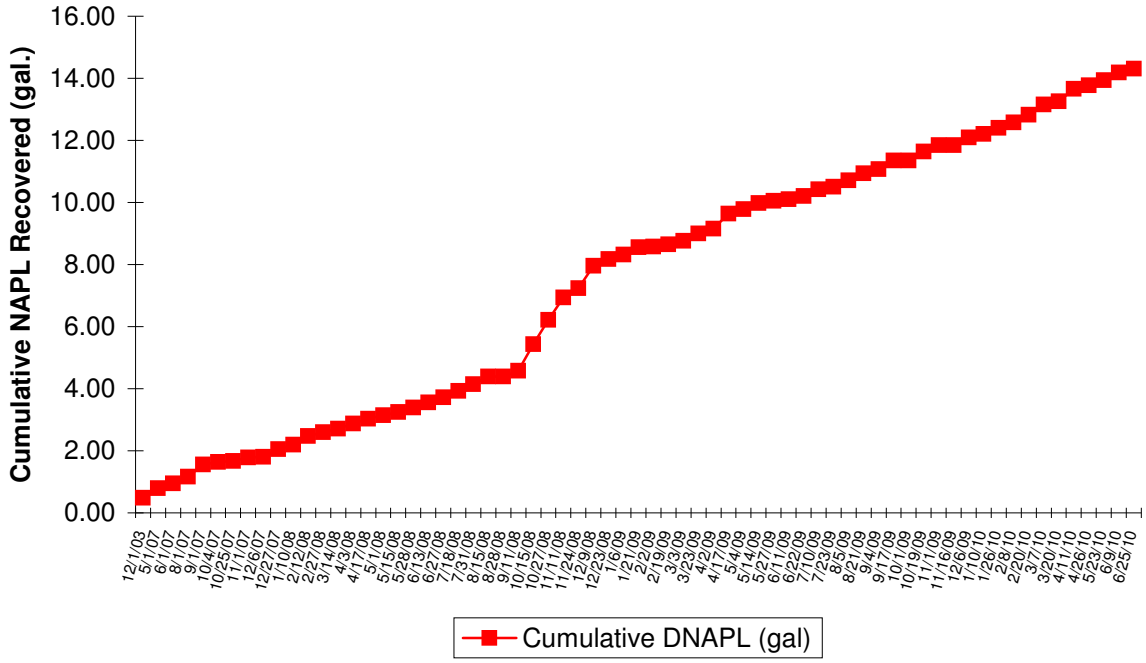


FIGURE 8E
Well HIMW-07S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



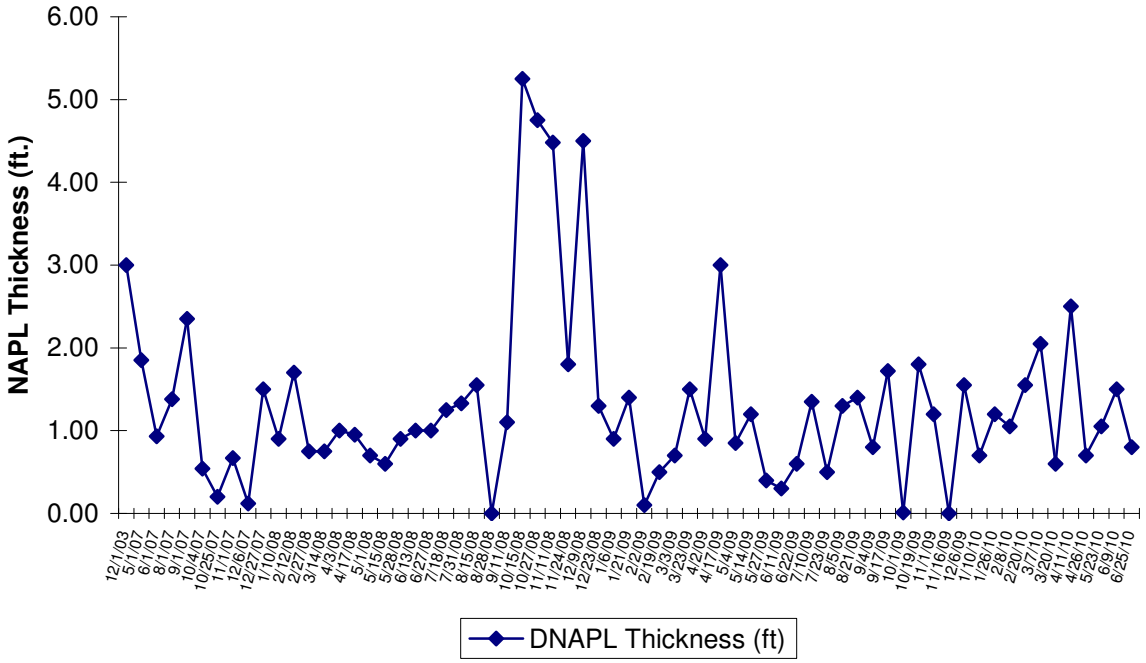
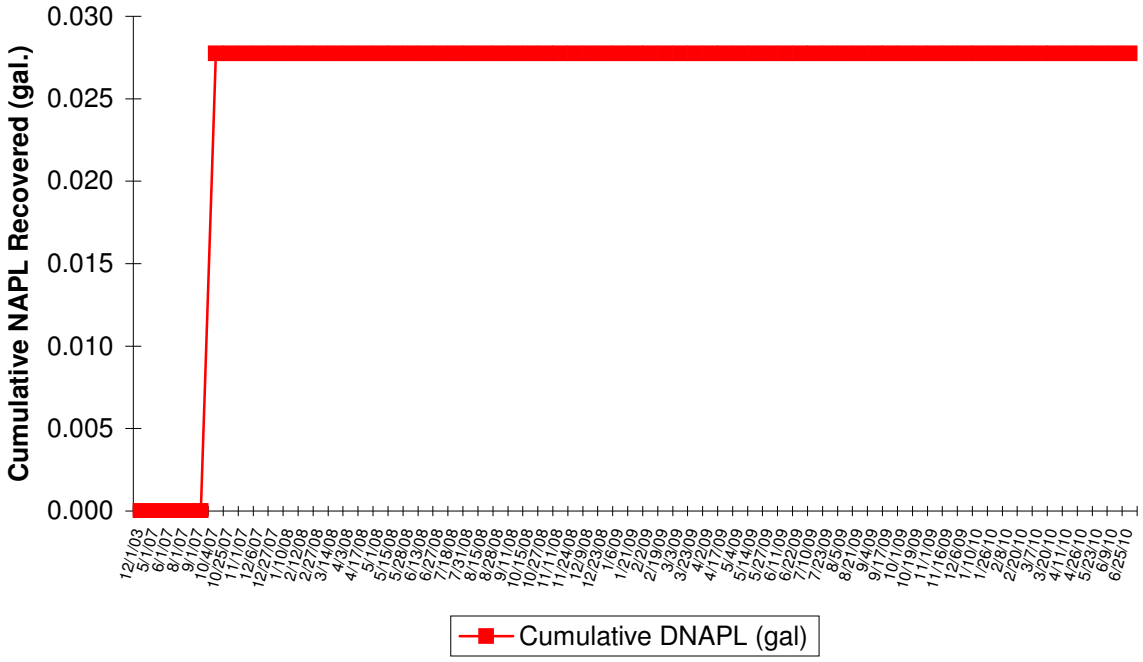


FIGURE 8F
Well HIMW-11S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



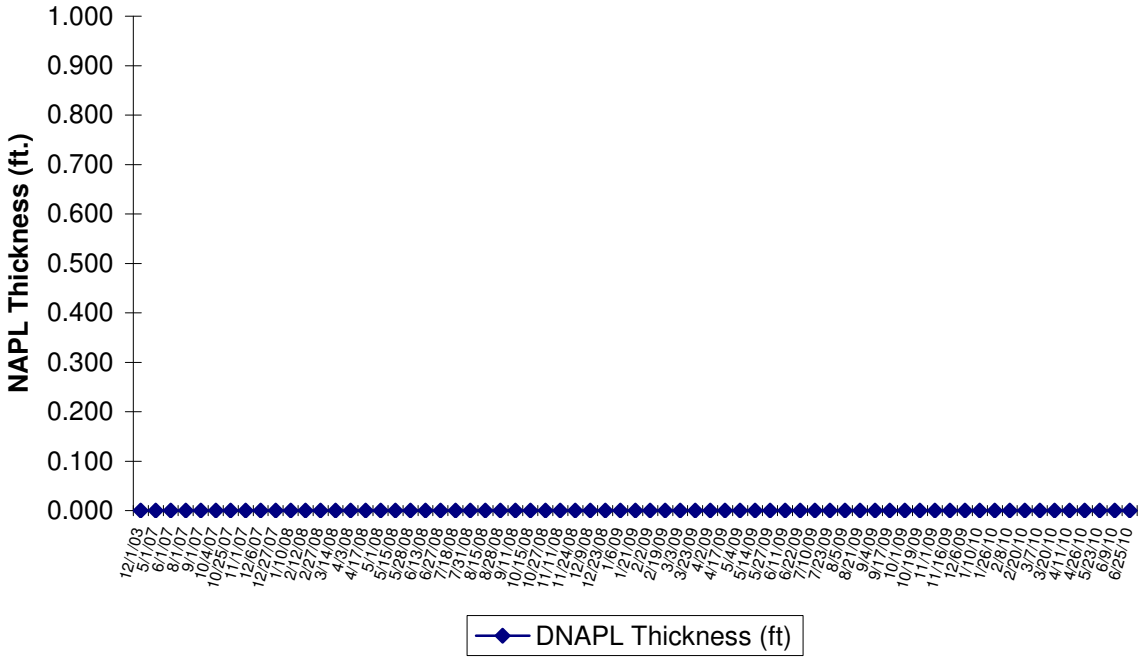
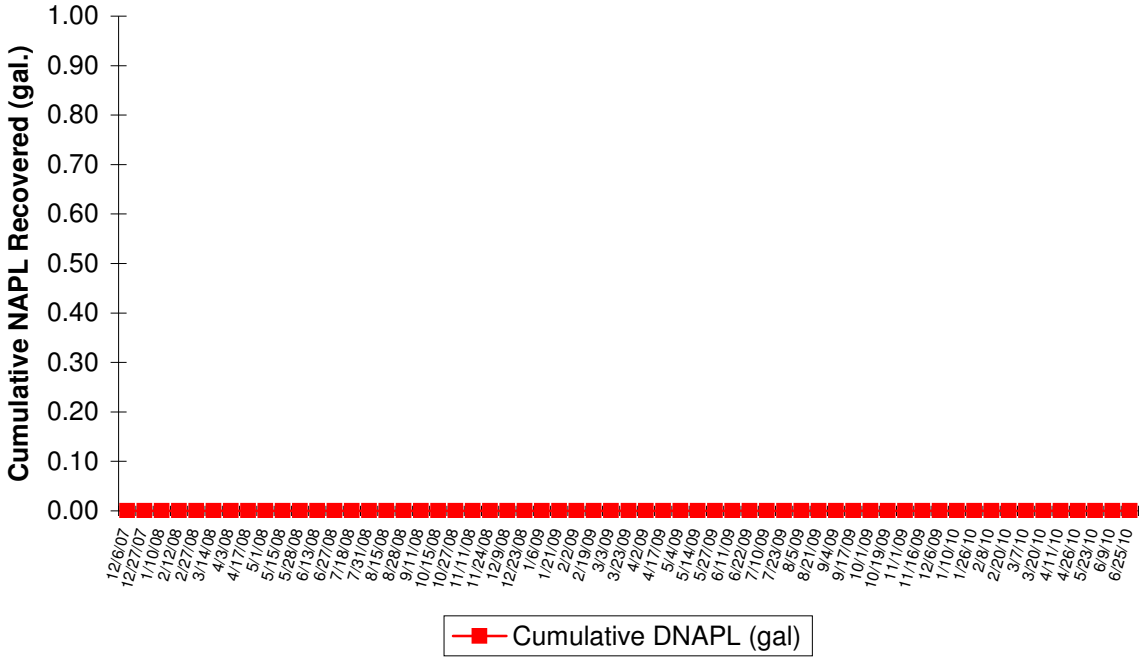


FIGURE 8G
Well HIMW-11I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



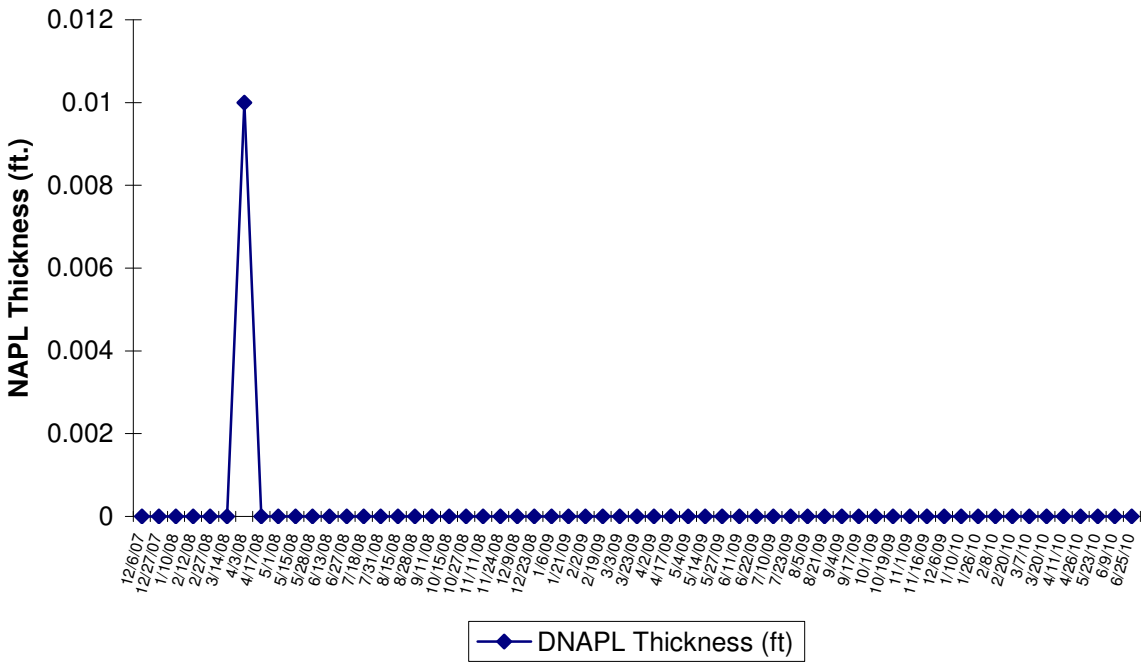
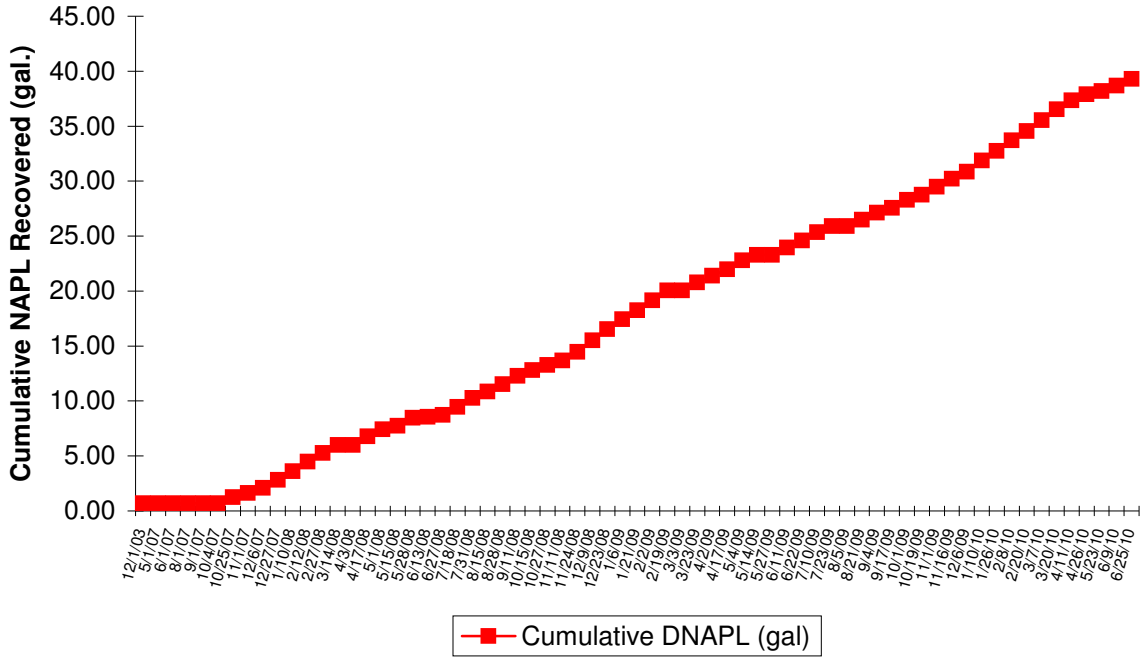


FIGURE 8H
Well HIMW-16S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



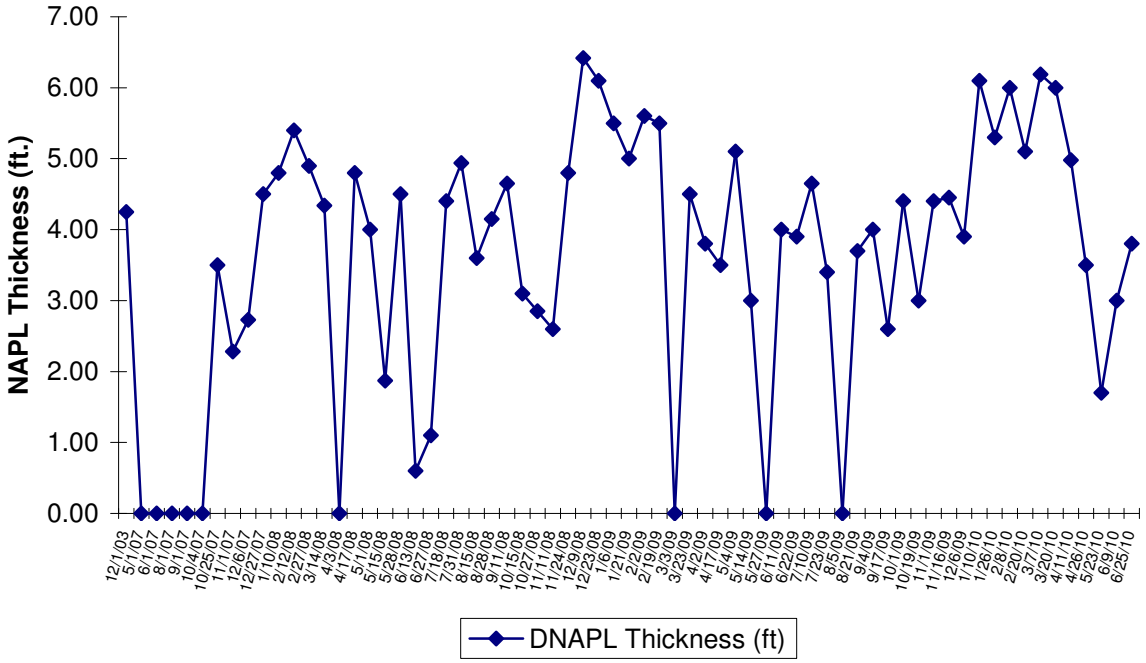
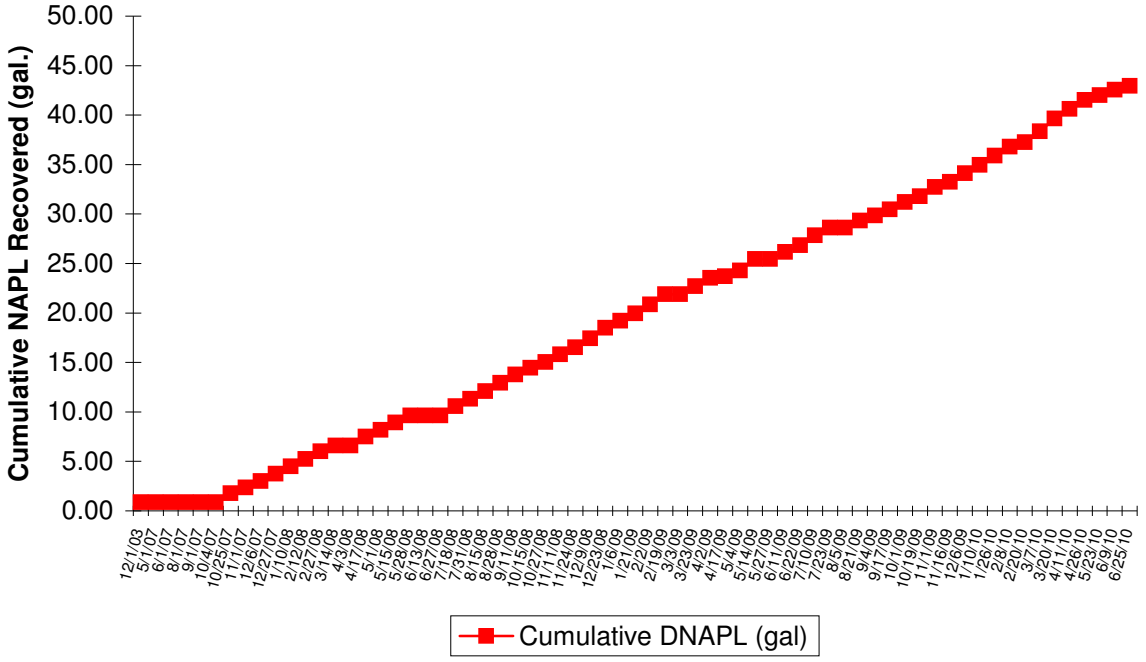


FIGURE 8I
Well HIMW-16I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



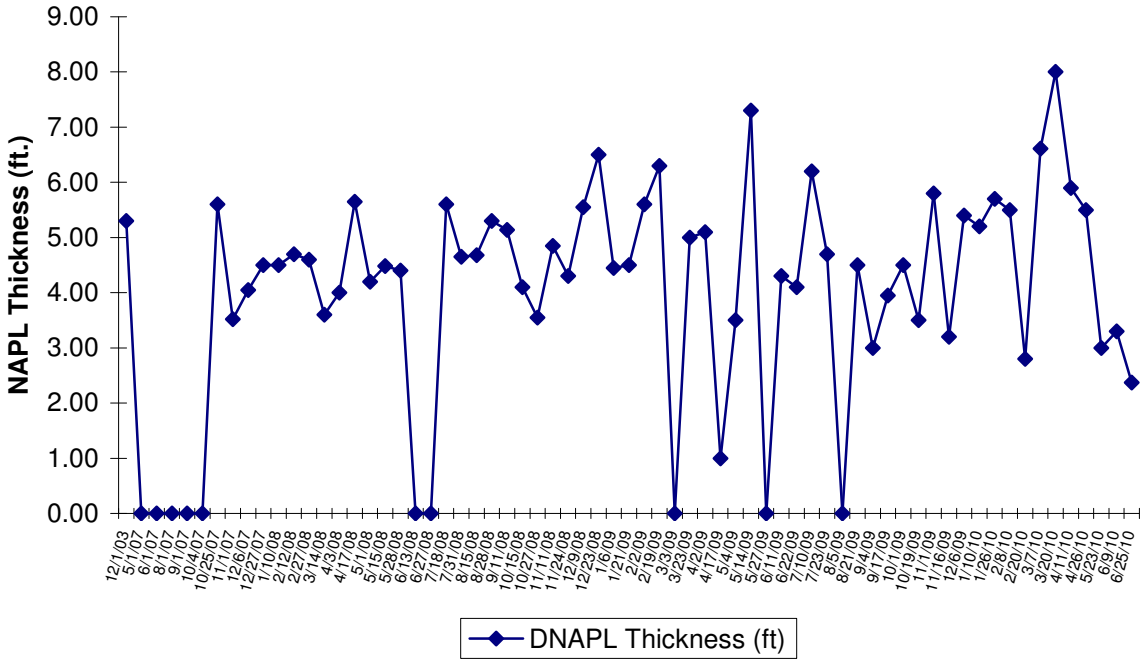
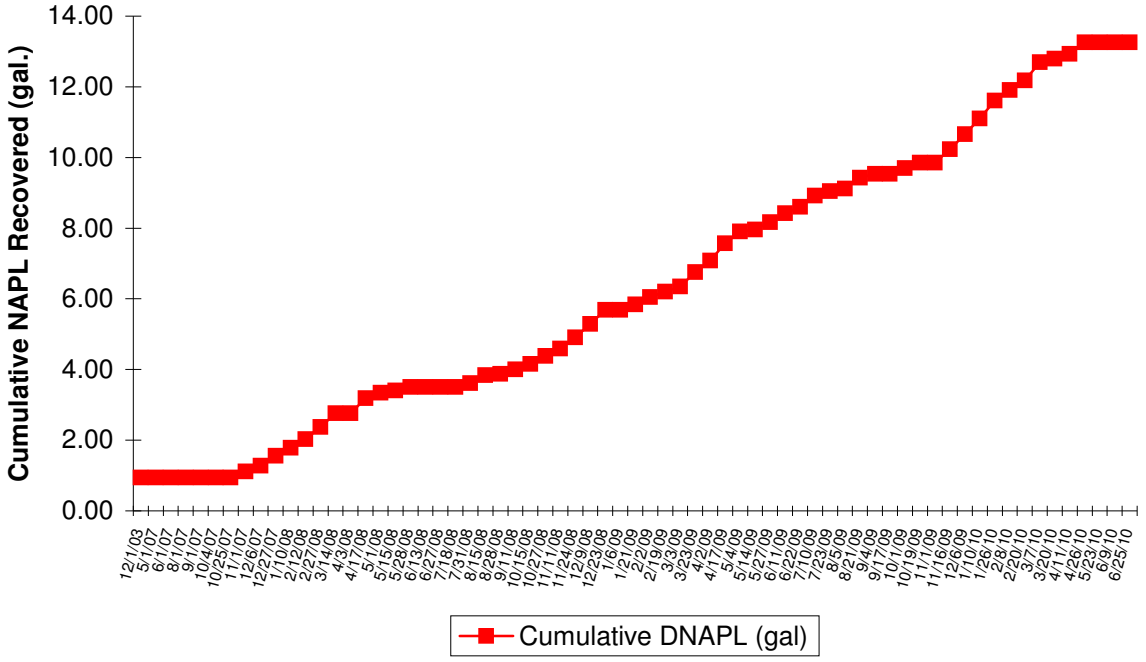


FIGURE 8J
Well HIMW-17S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



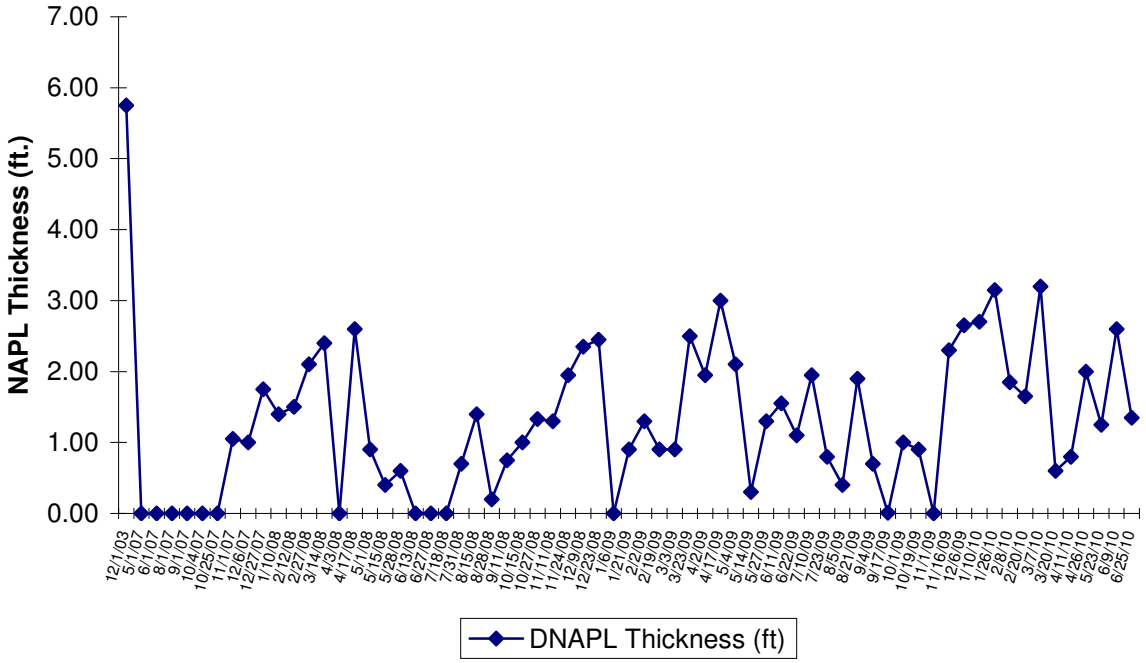
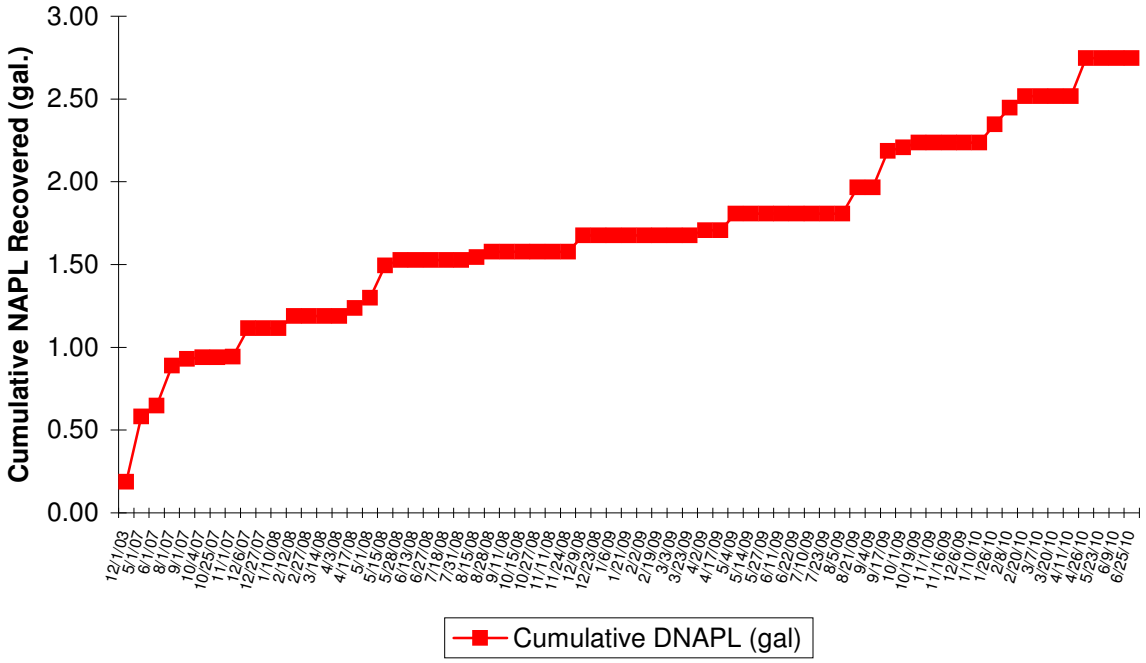


FIGURE 8K
Well HIMW-18S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



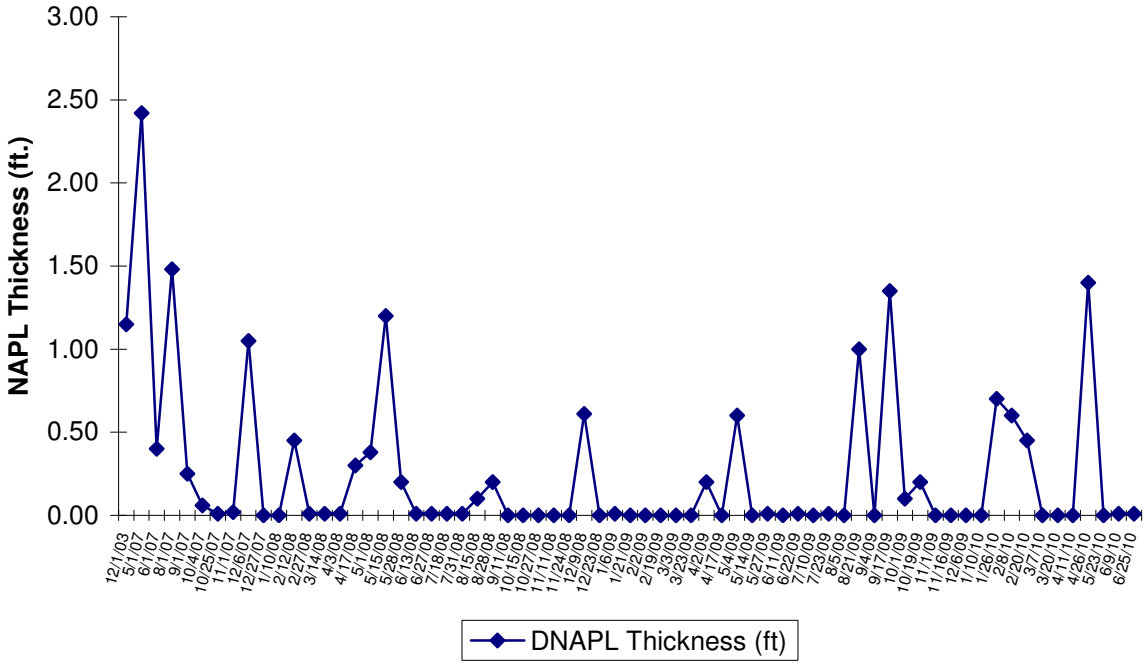
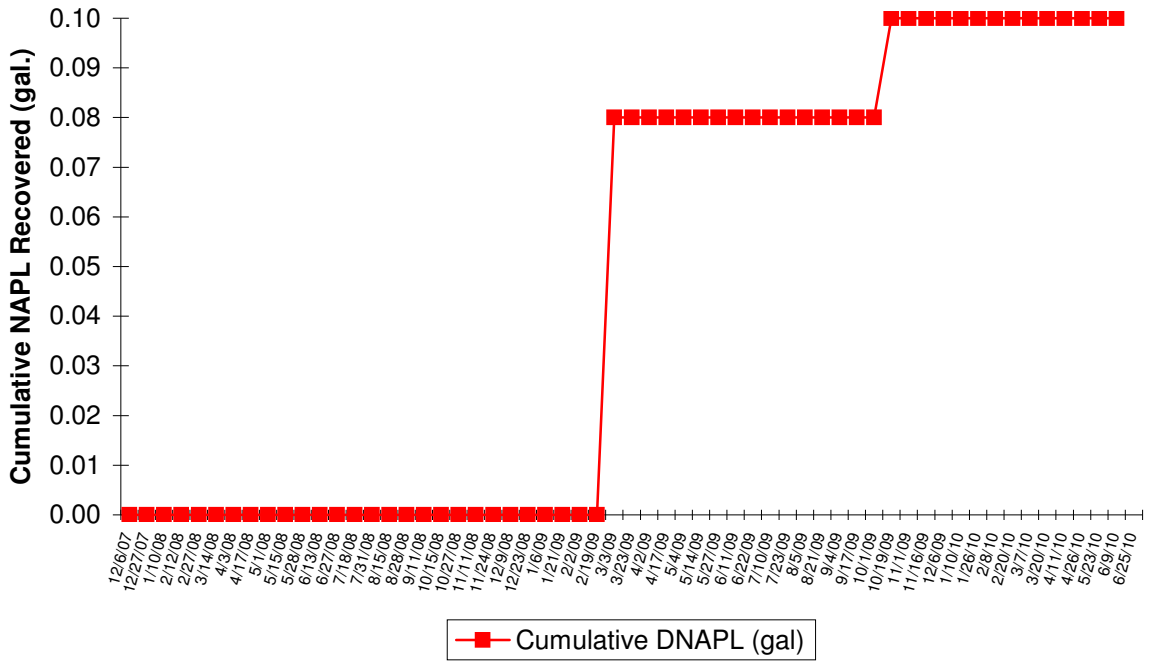


FIGURE 8L
Well HIMW-18I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



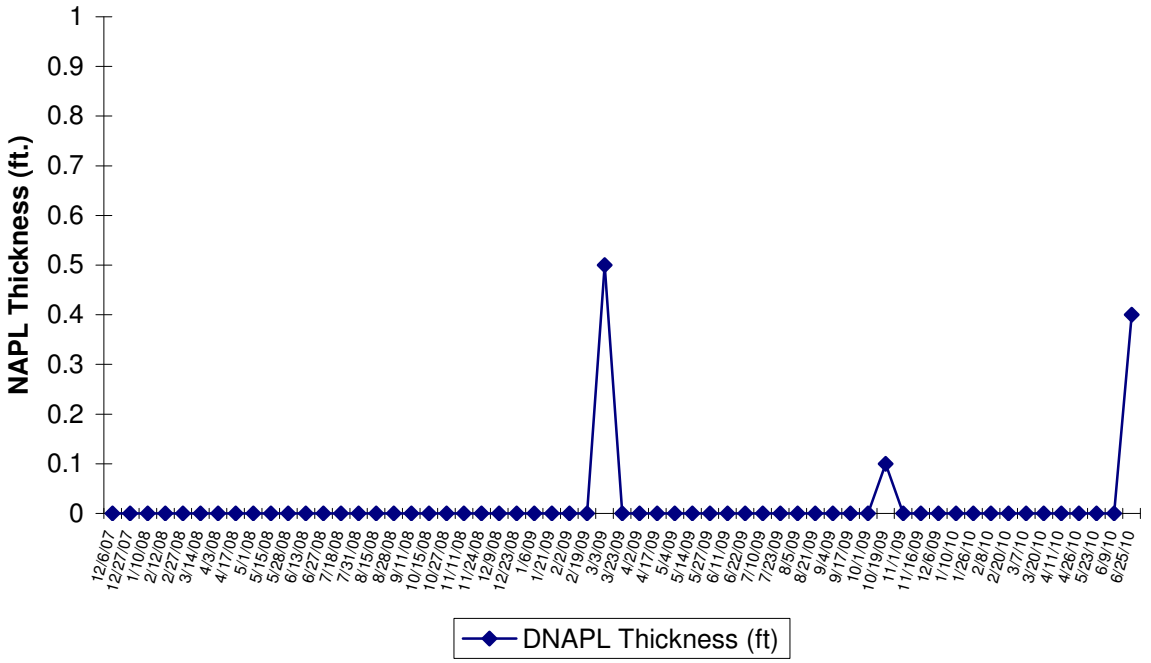
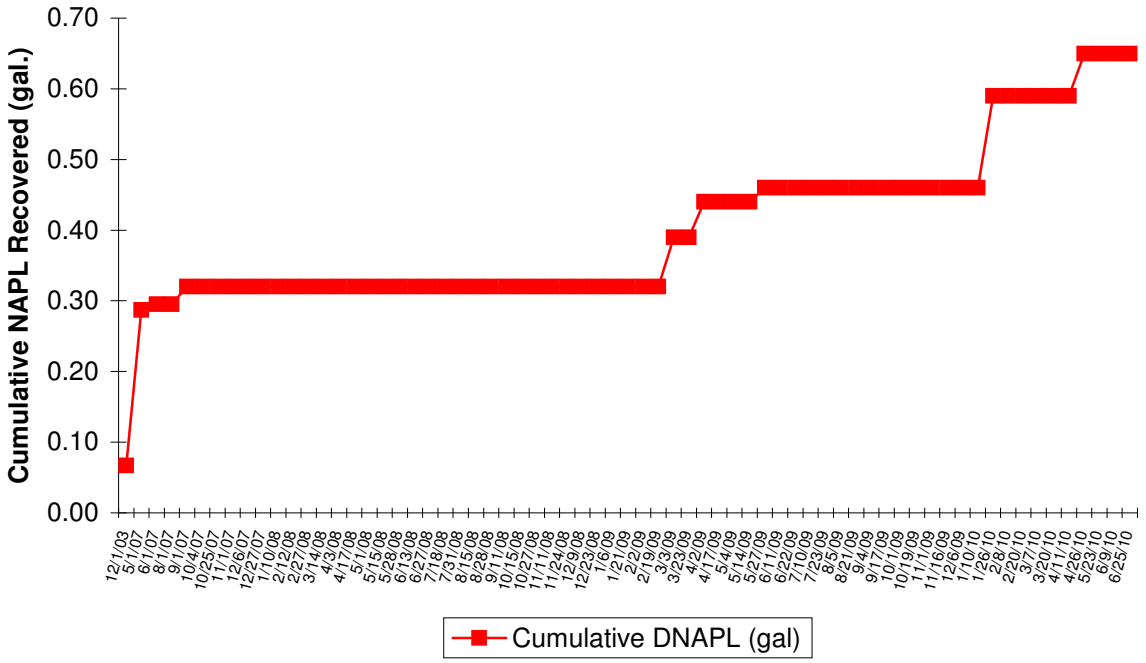


FIGURE 8M
Well HIMW-19S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



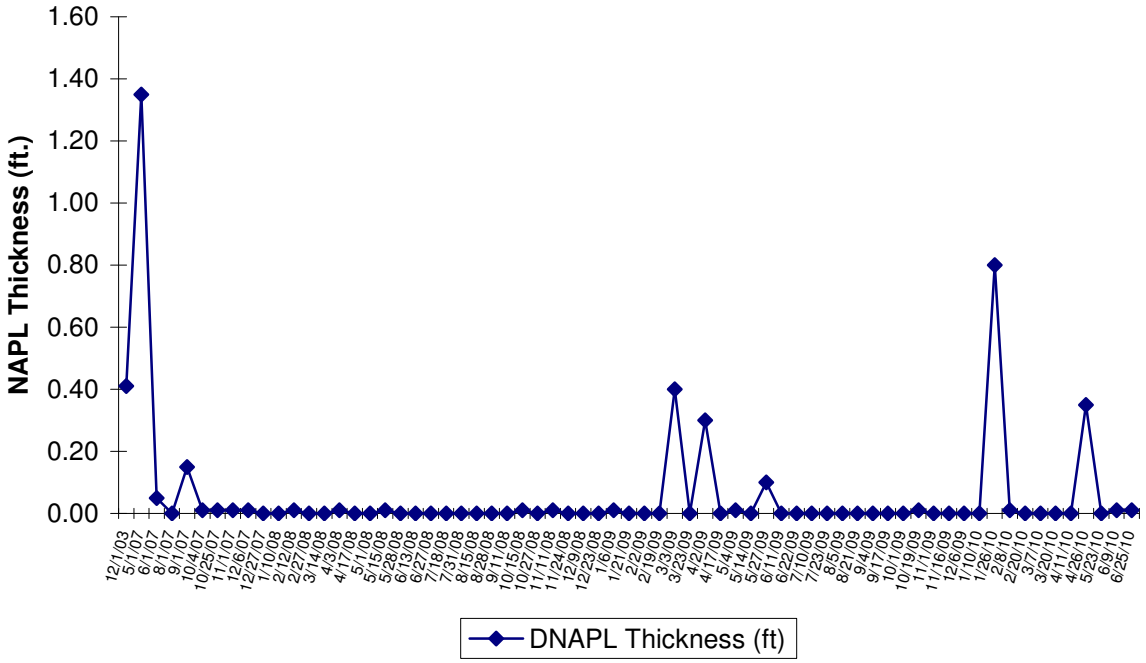
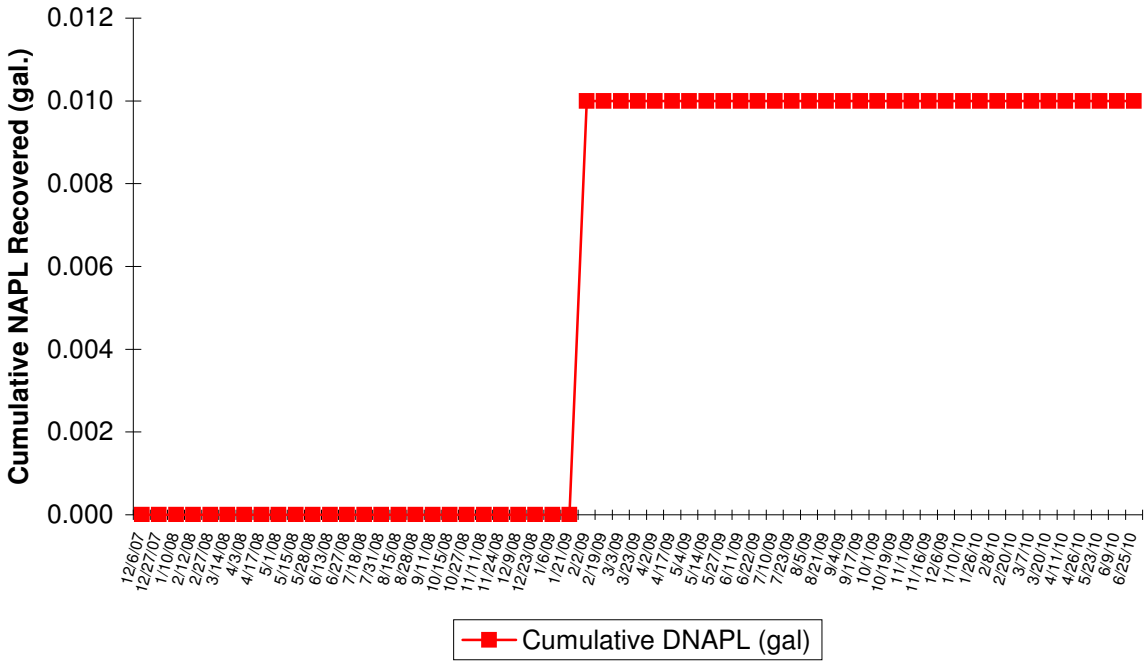


FIGURE 8N
Well HIMW-19I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



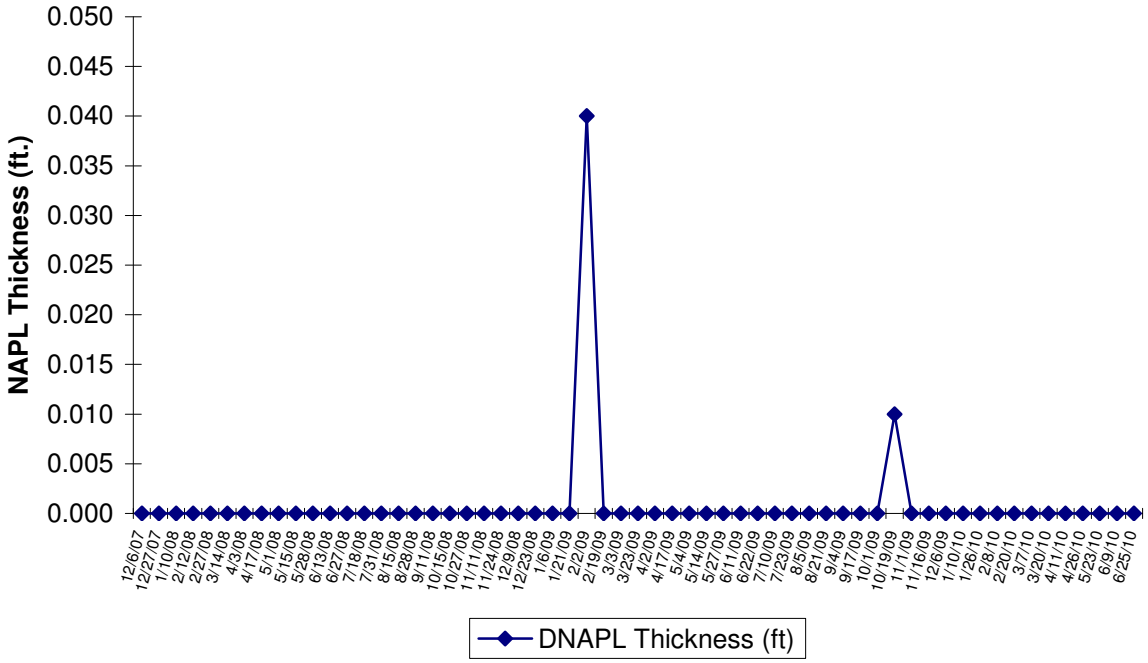
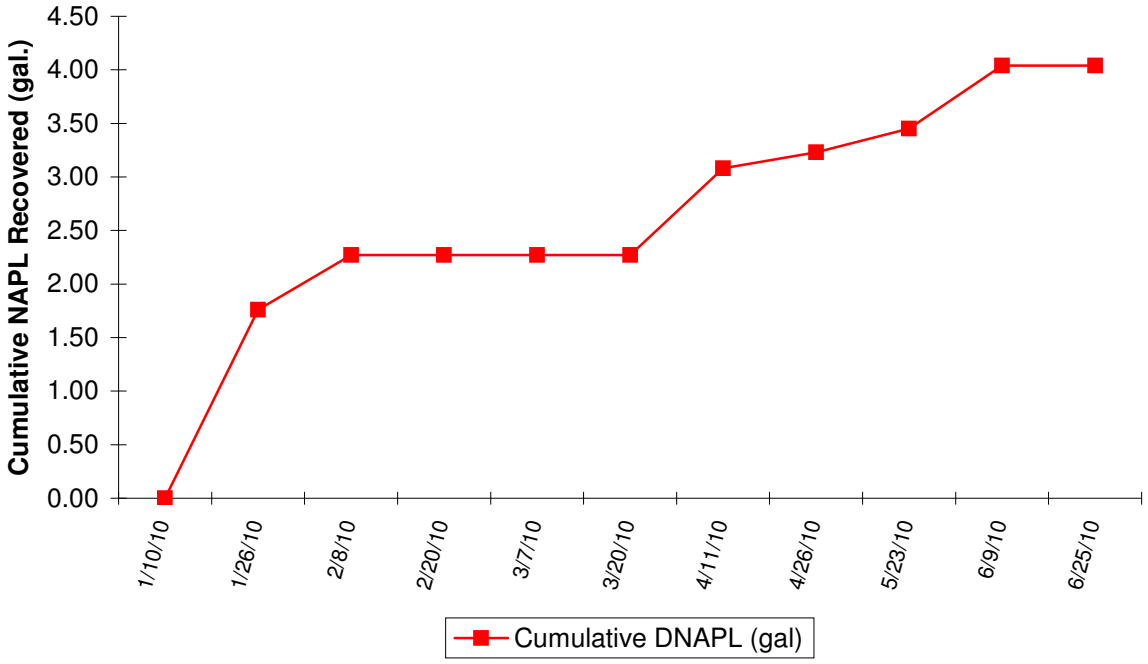


FIGURE 8O
Well HIMW-21 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



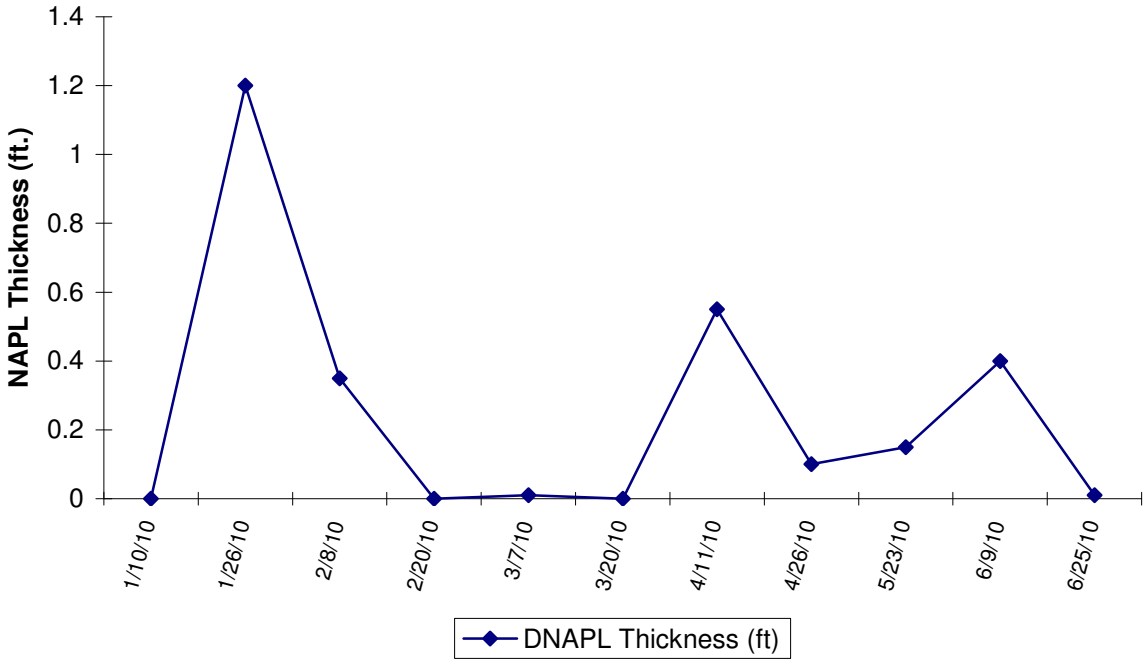
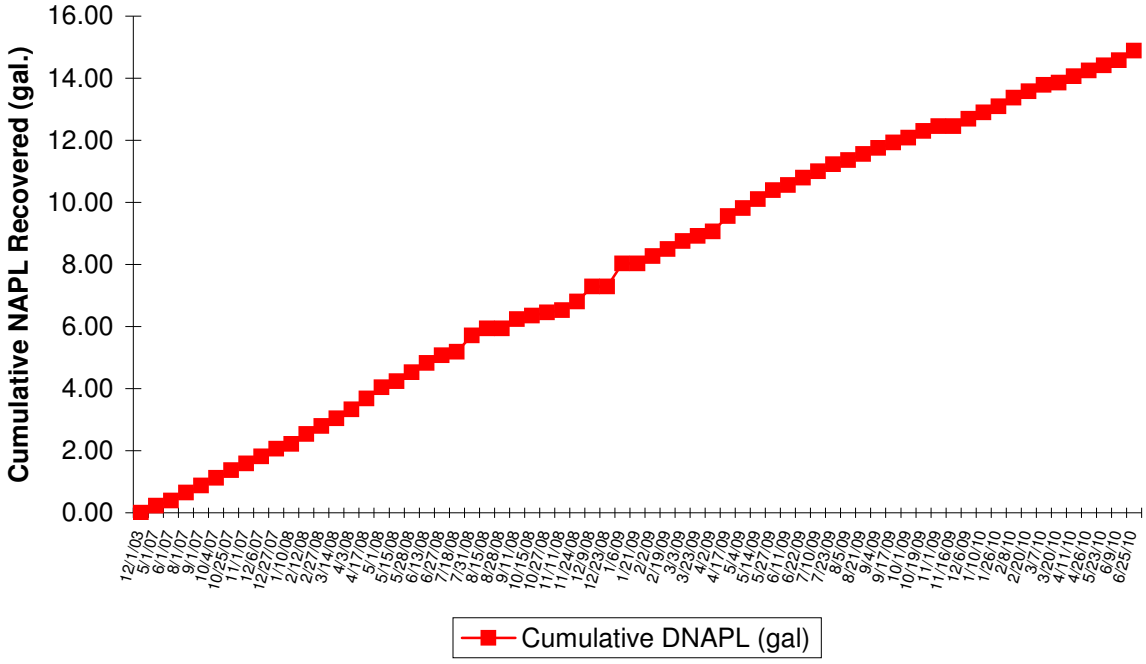


FIGURE 8P
Well PZ-08 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



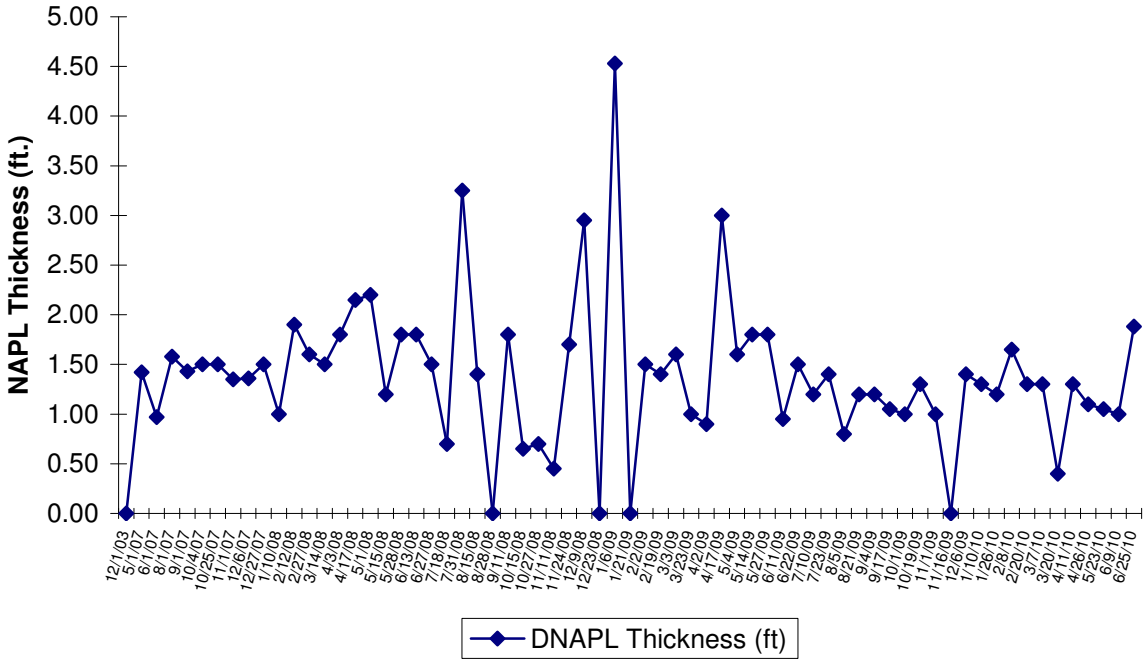
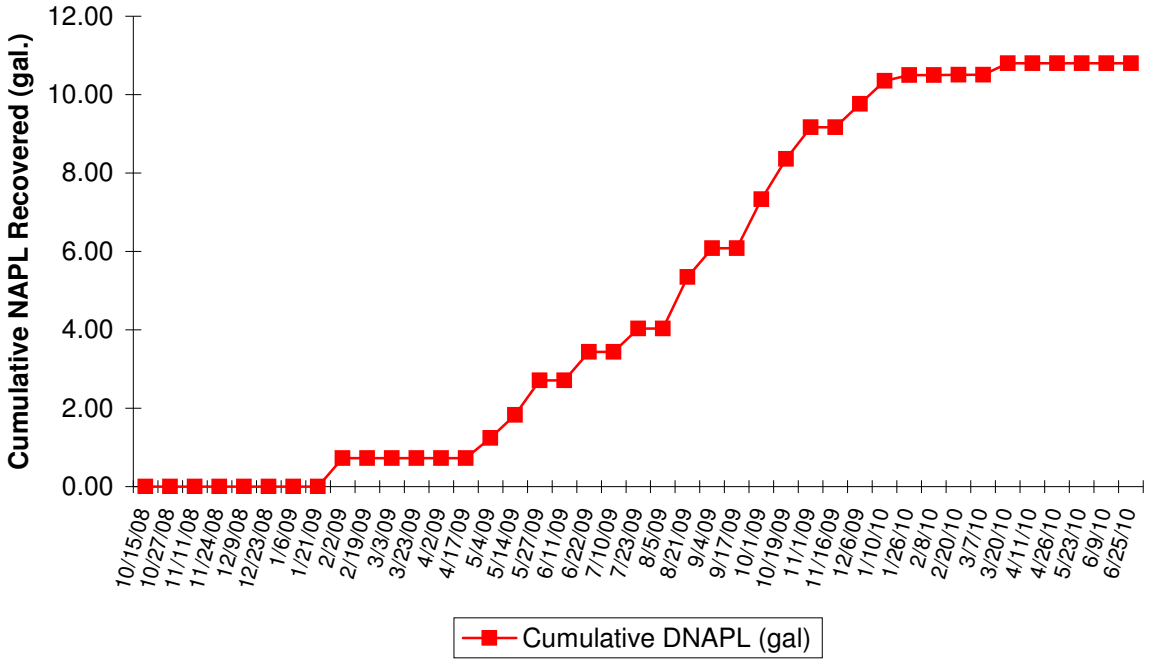


FIGURE 8Q
Well IPR-02 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



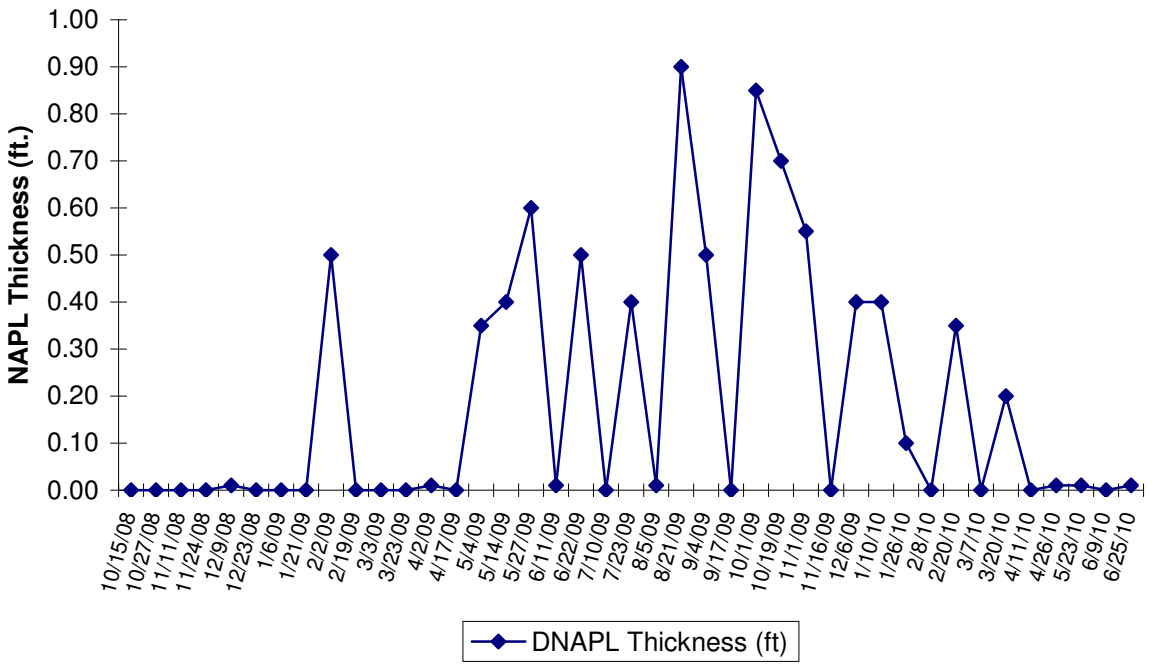
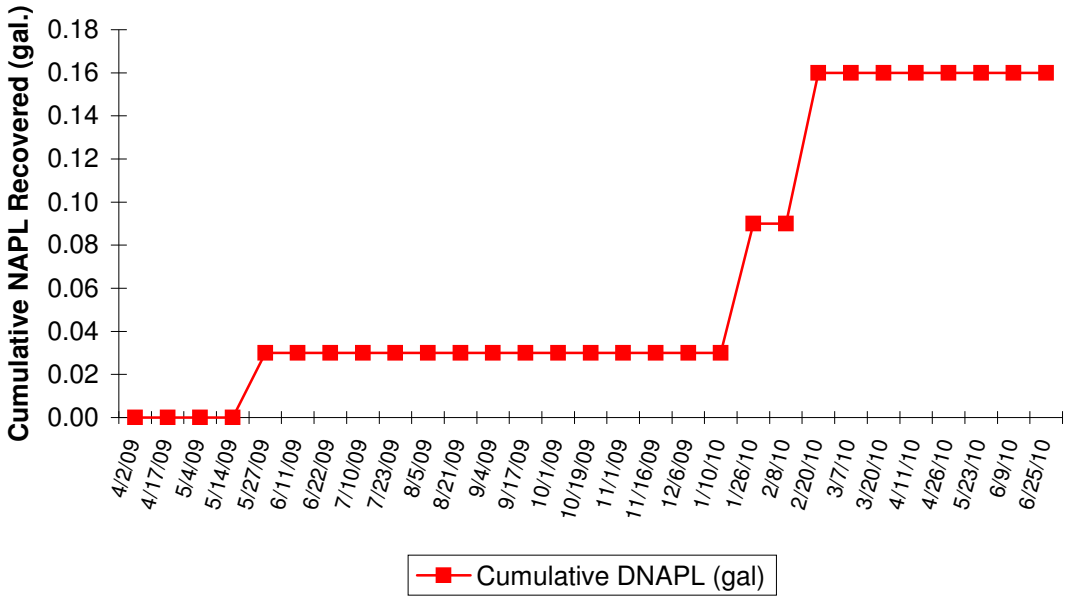


FIGURE 8R
Well IPR-05 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



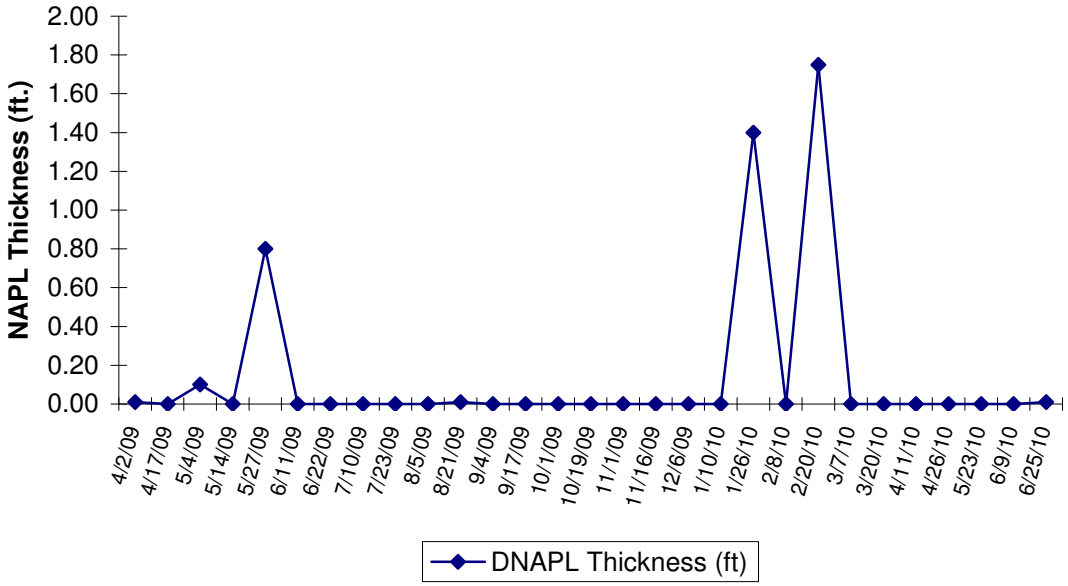
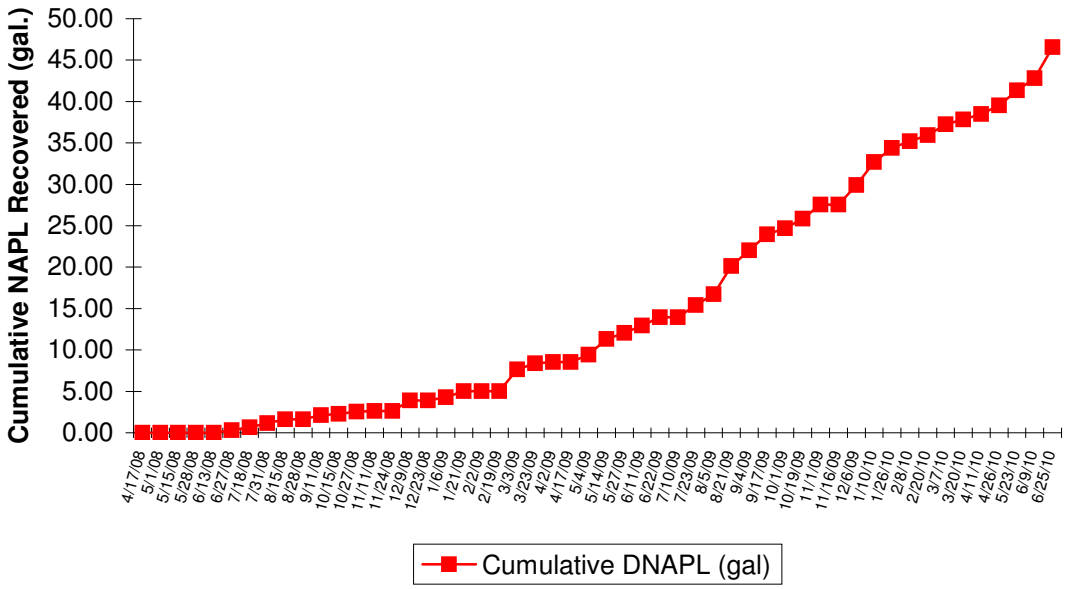


FIGURE 8S
Well IPR-06 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



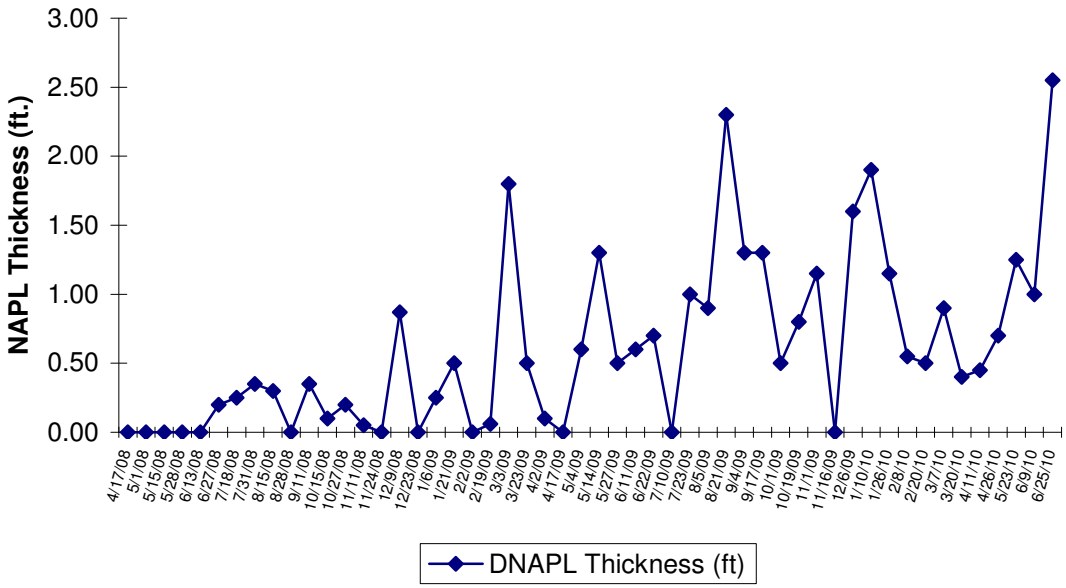
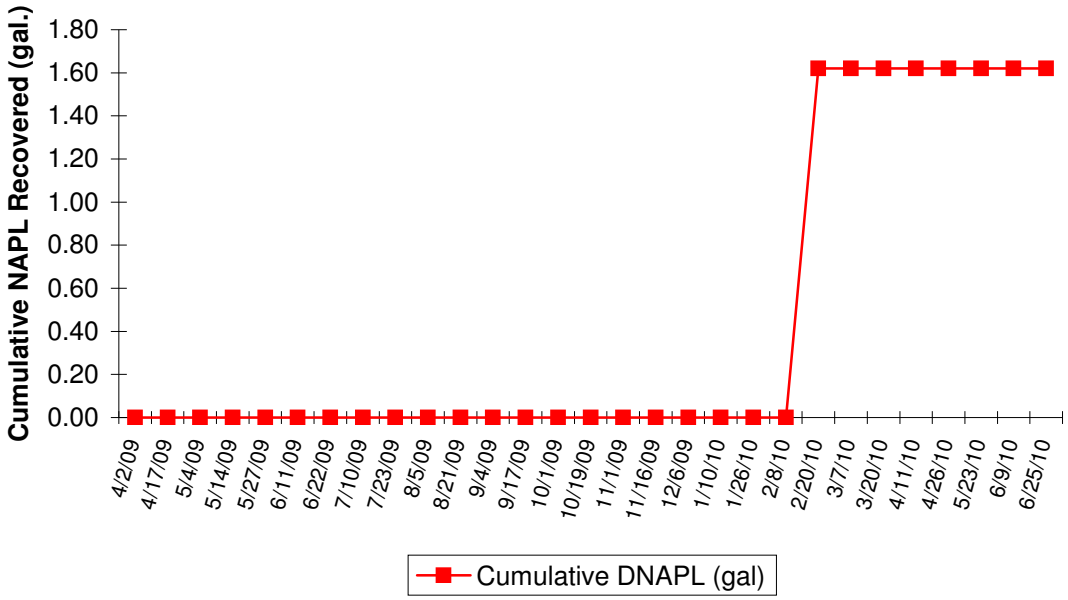


FIGURE 8T
Well IPR-09 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



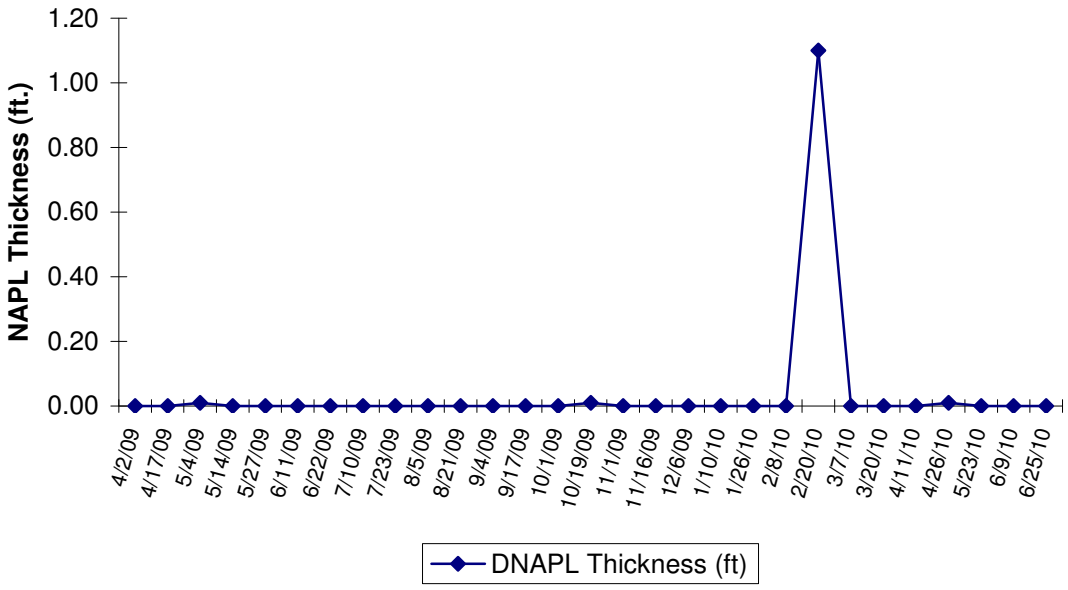
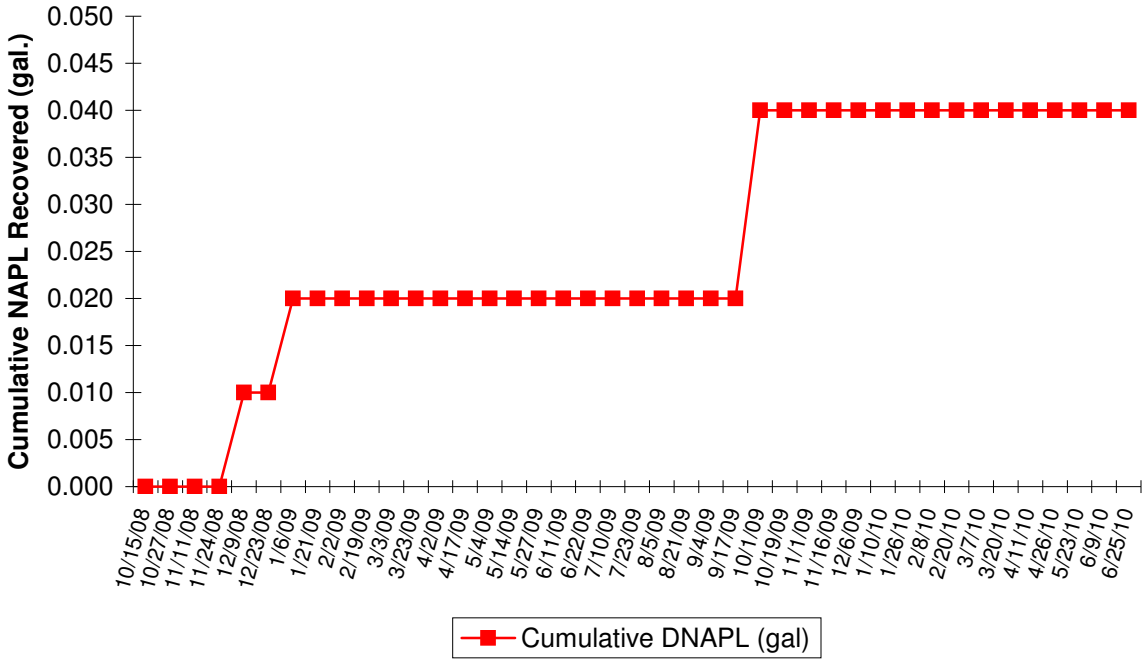


FIGURE 8U
Well IPR-12A NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



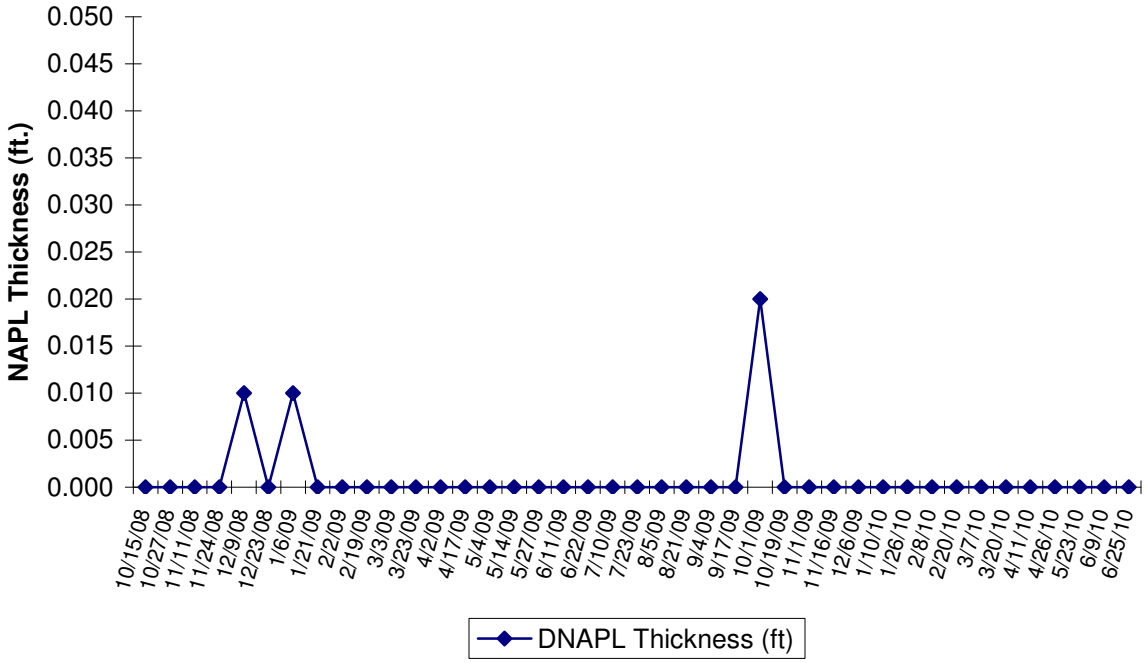
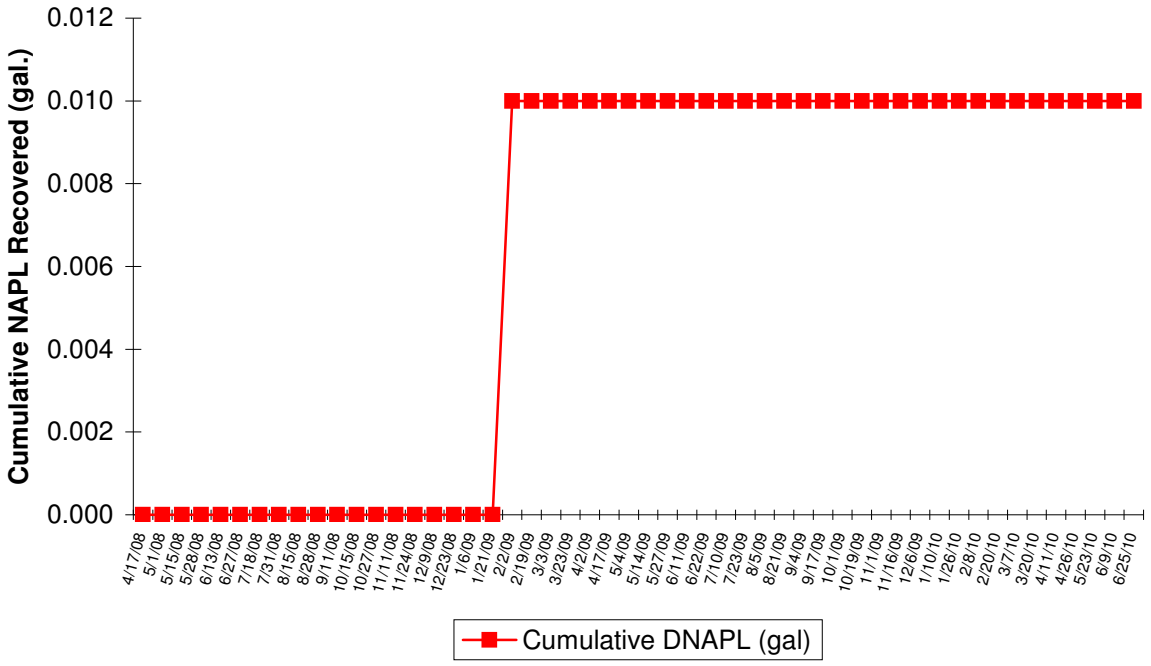


FIGURE 8V
Well IPR-15 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



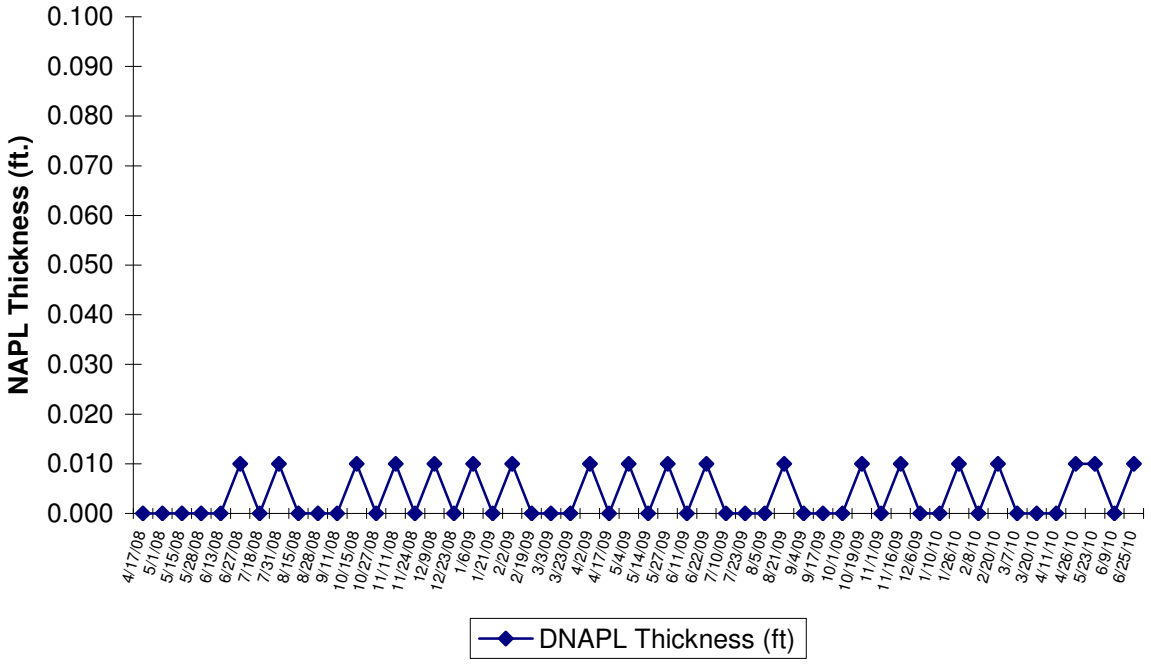
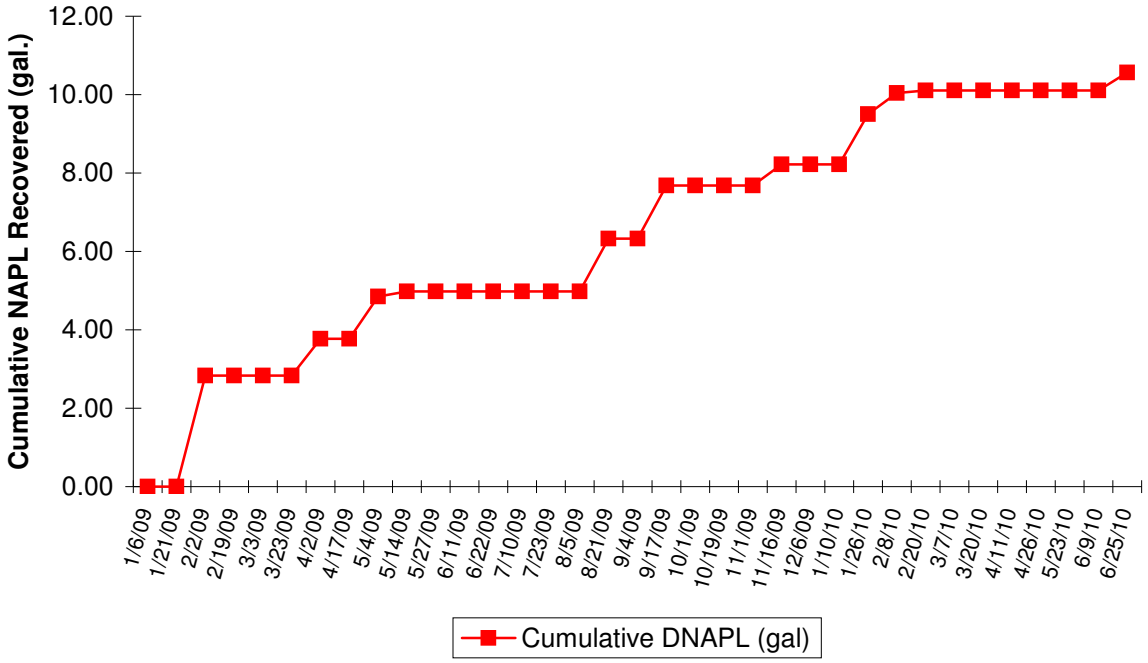


FIGURE 8W
Well IPR-16 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



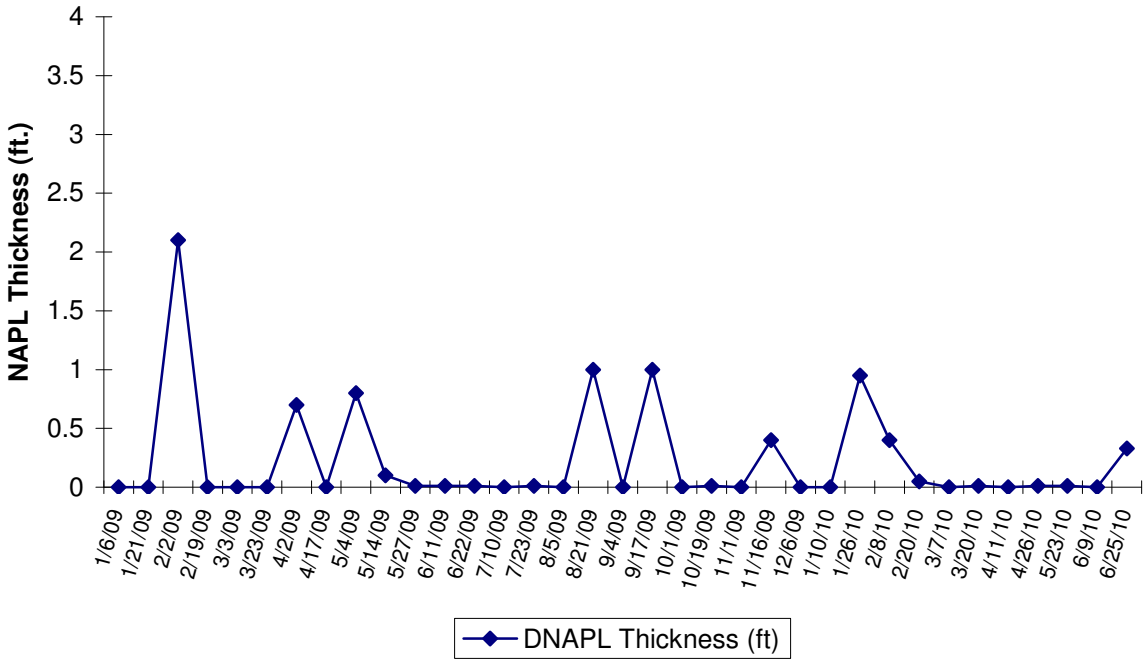
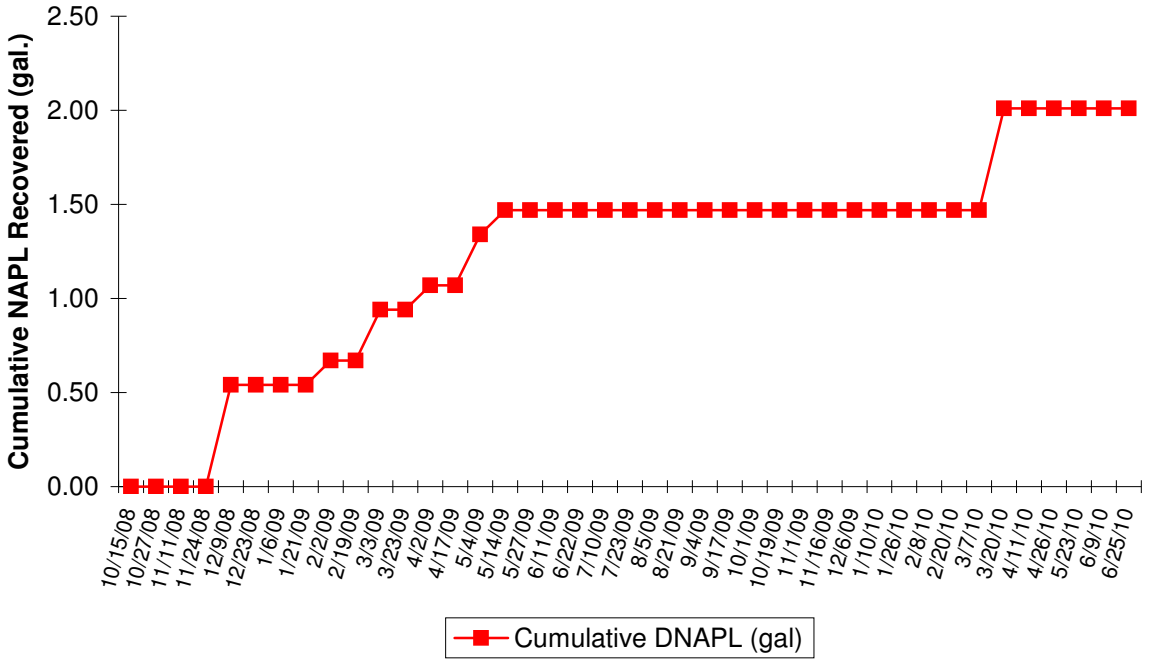


FIGURE 8X
Well IPR-17 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



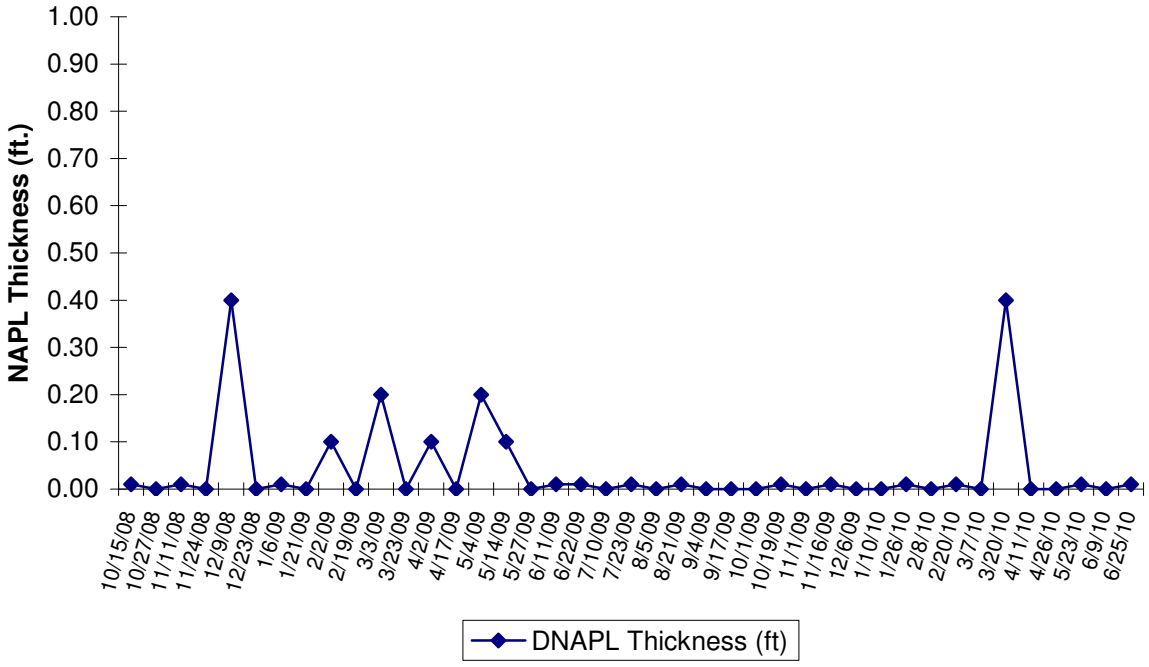
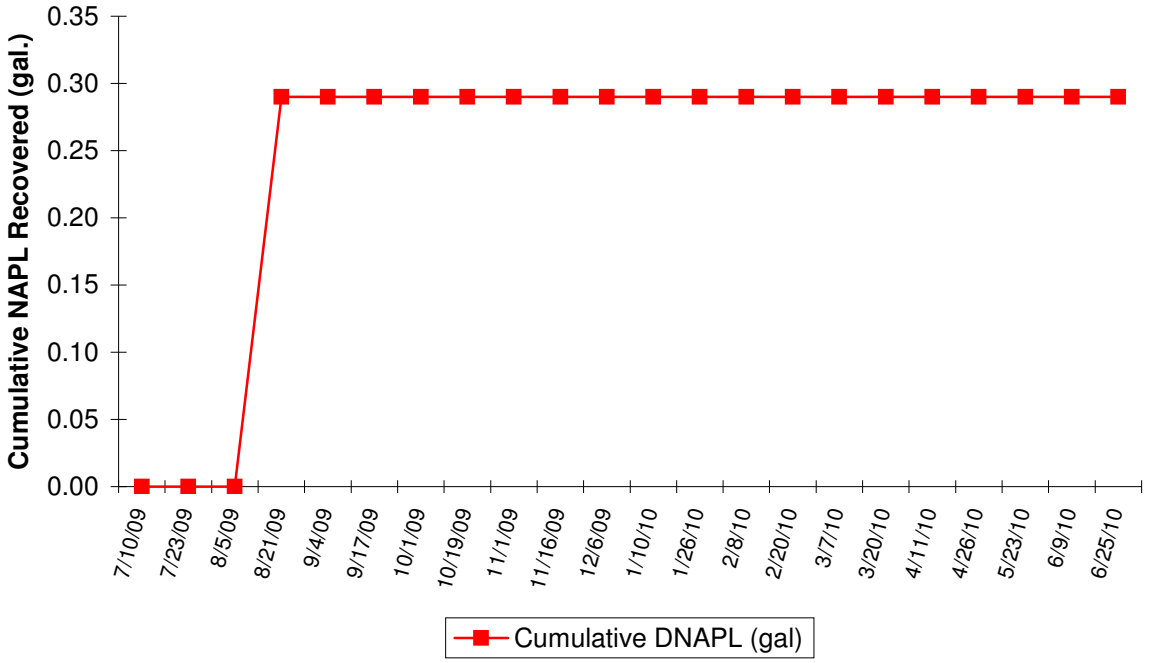


FIGURE 8Y
Well IPR-18 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



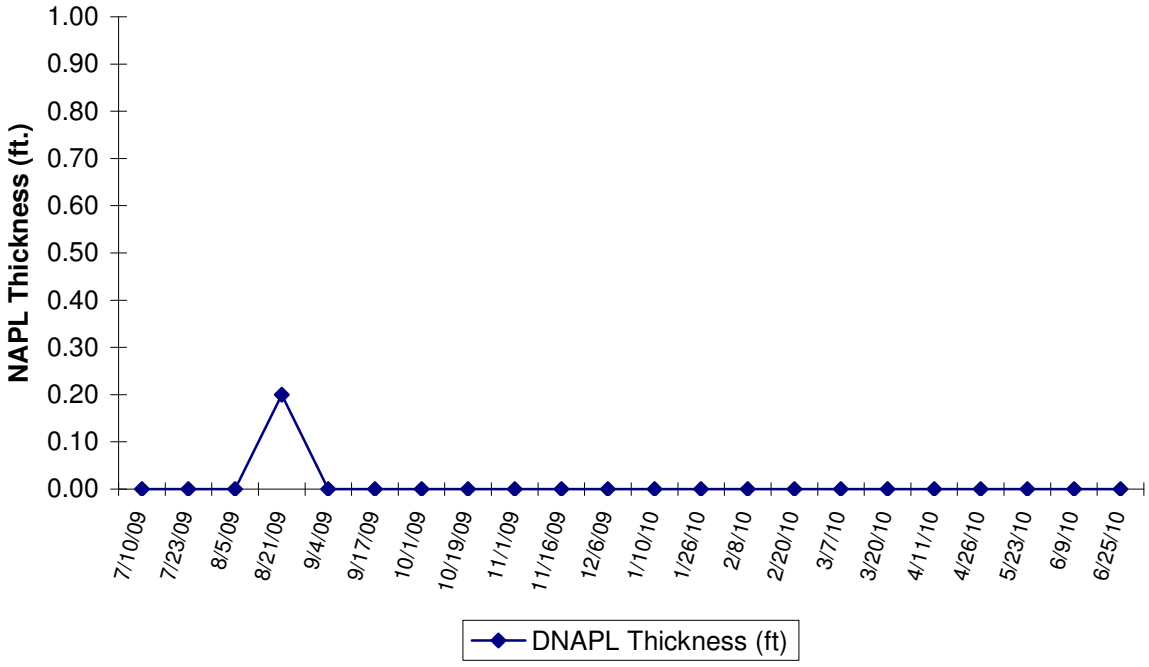
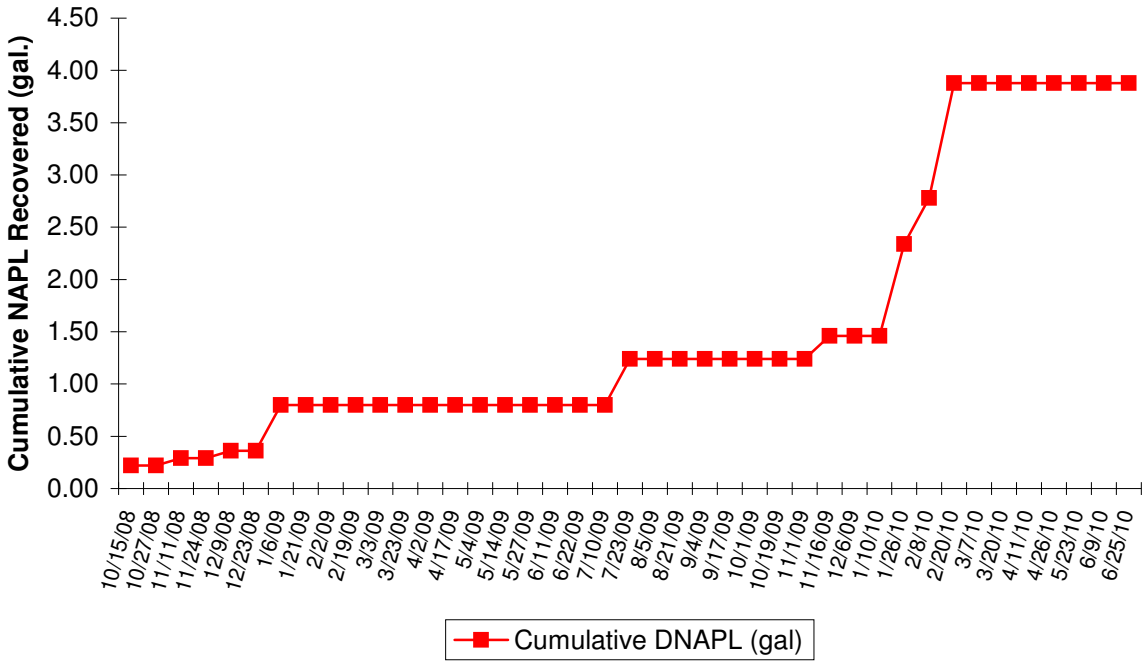


FIGURE 8Z
Well IPR-20 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



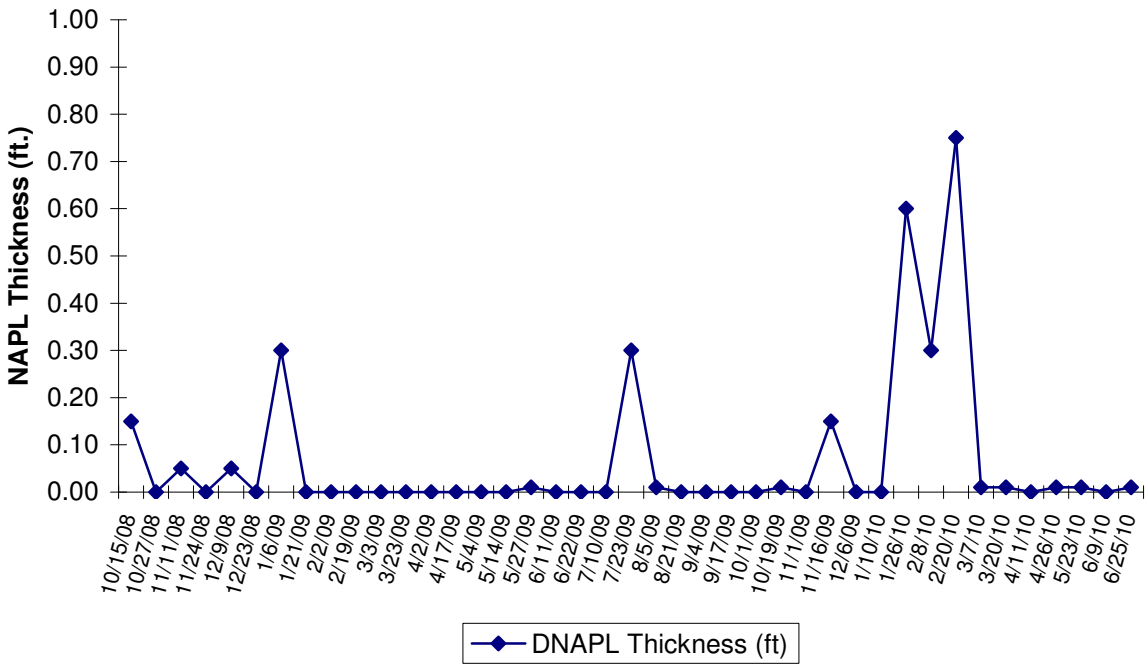
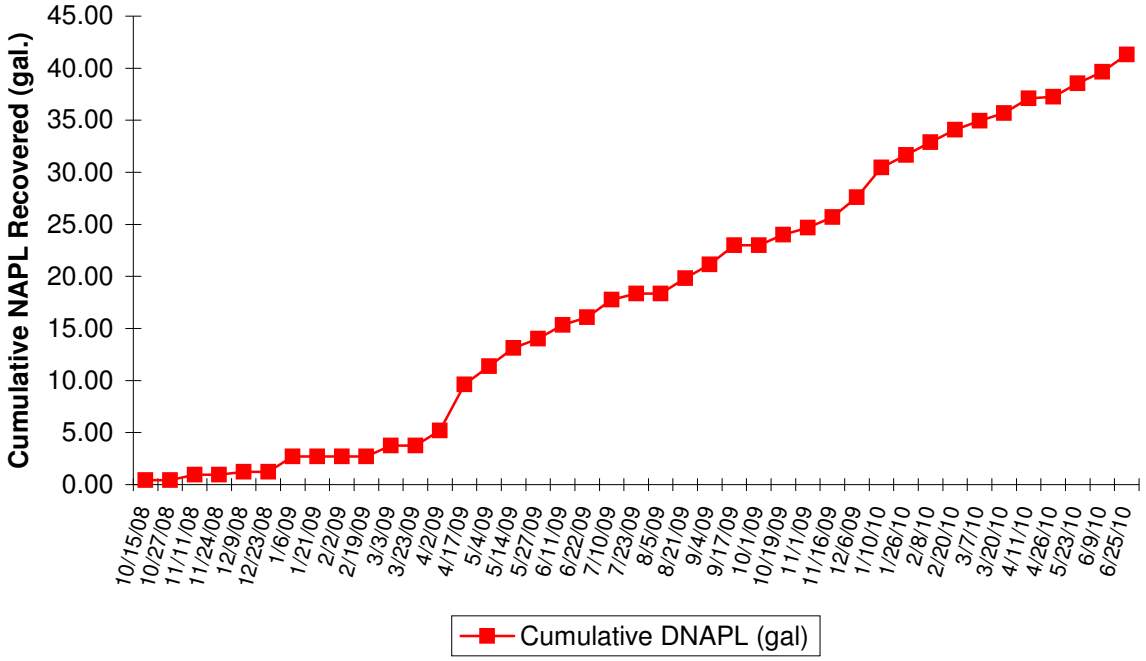


FIGURE 8AA
Well IPR-21 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



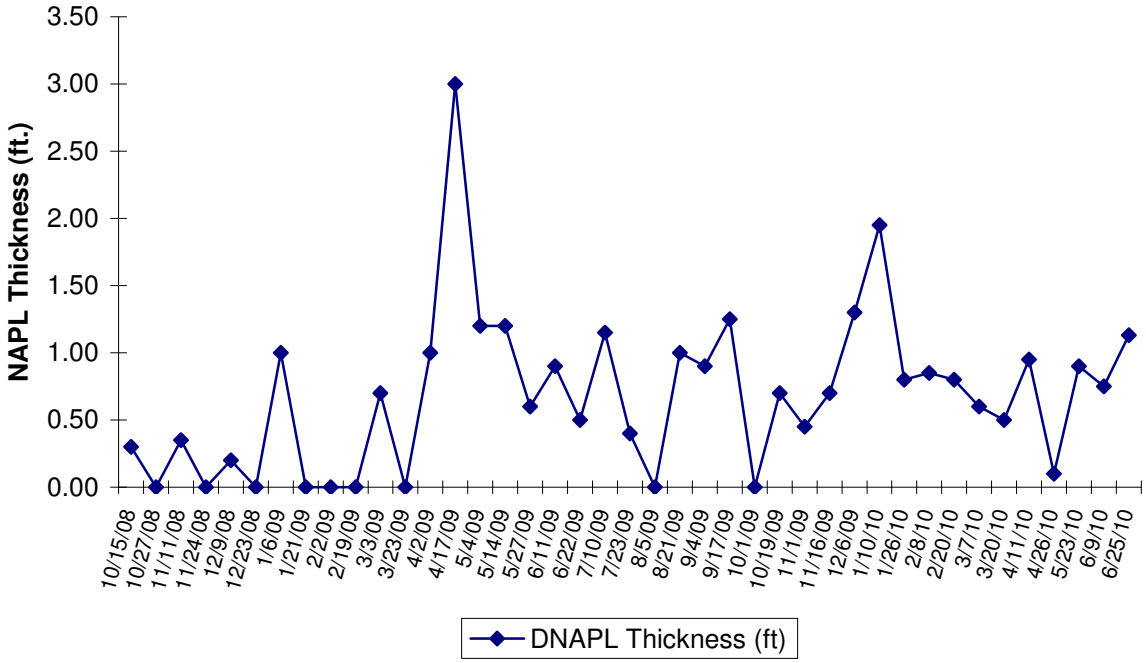
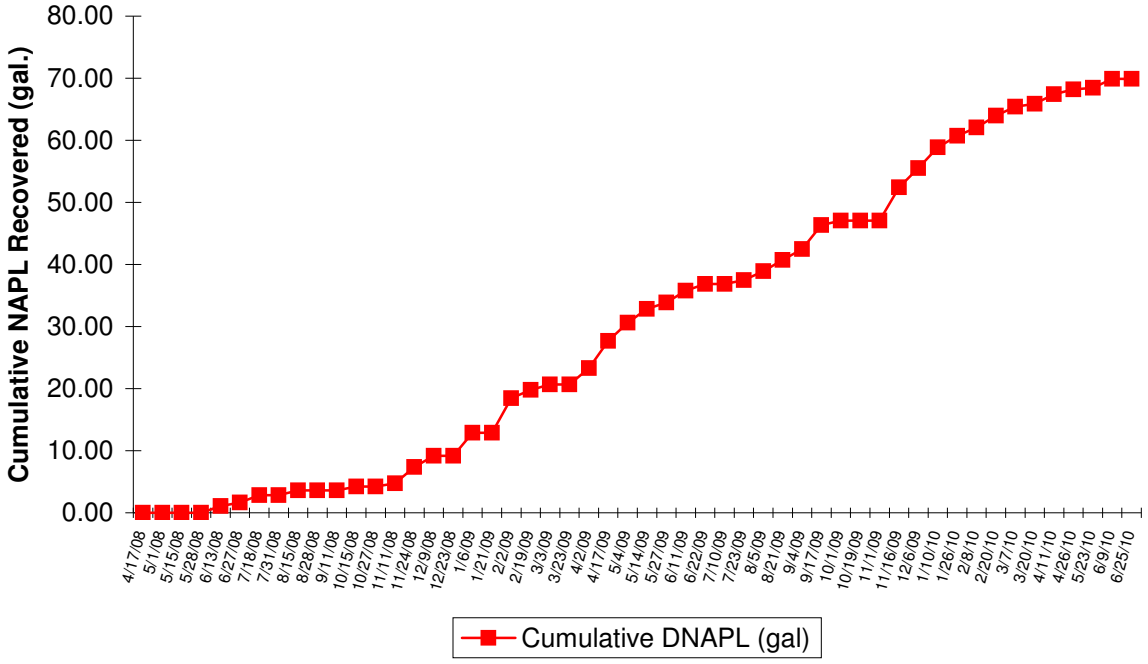


FIGURE 8AB
Well IPR-22 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



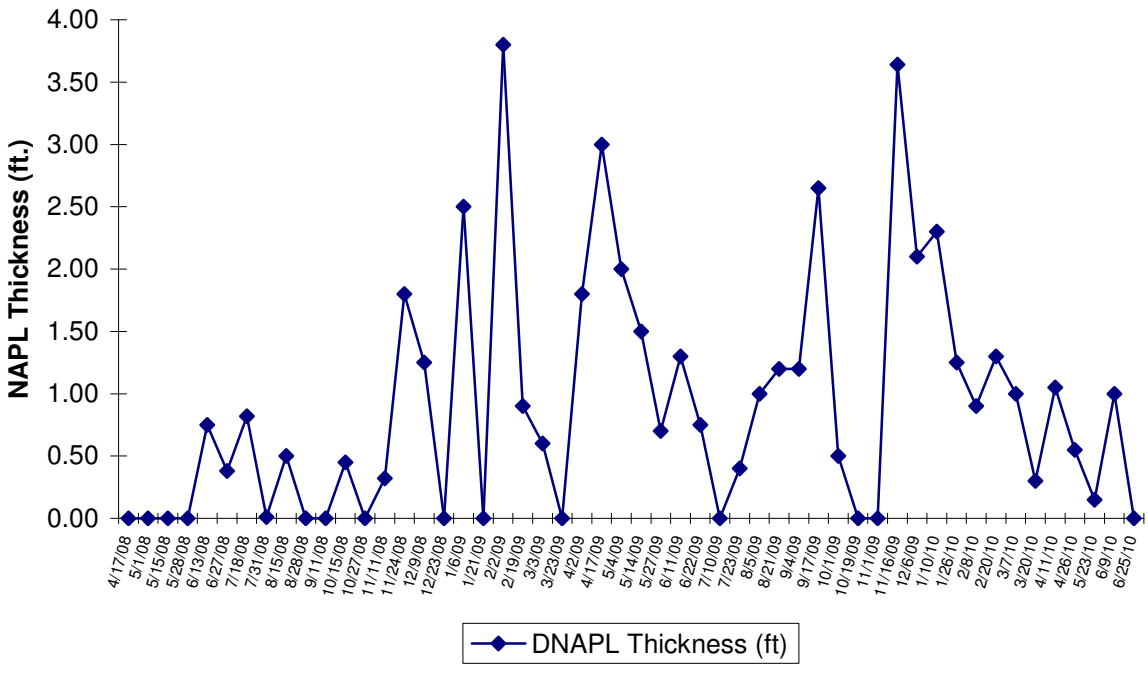
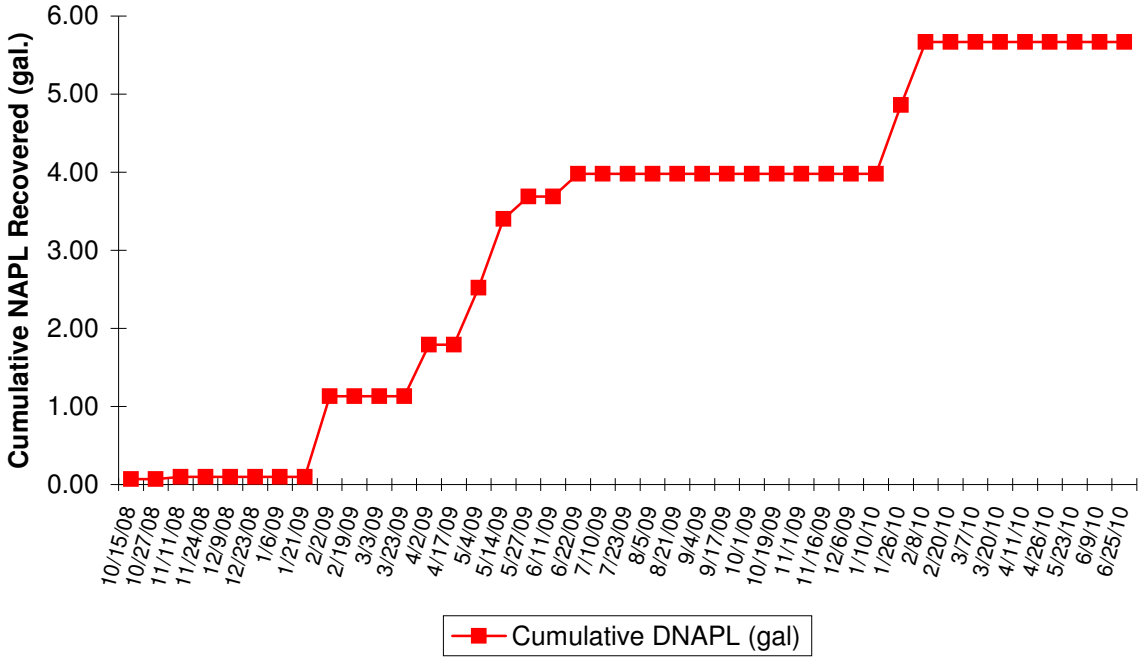


FIGURE 8AC
Well IPR-24 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



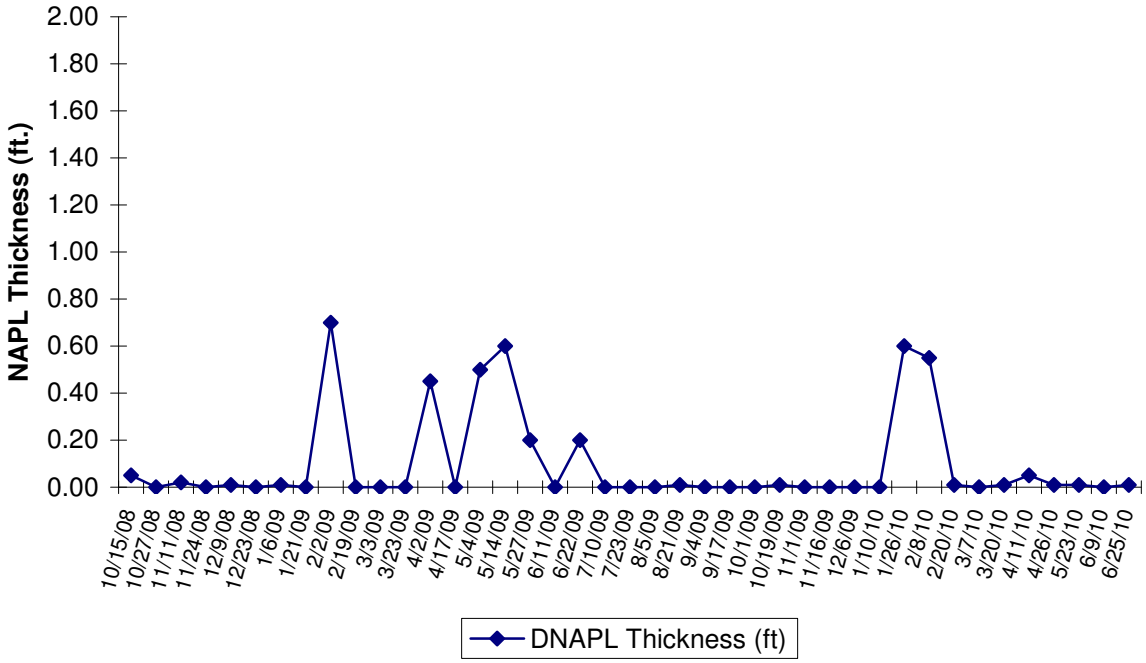
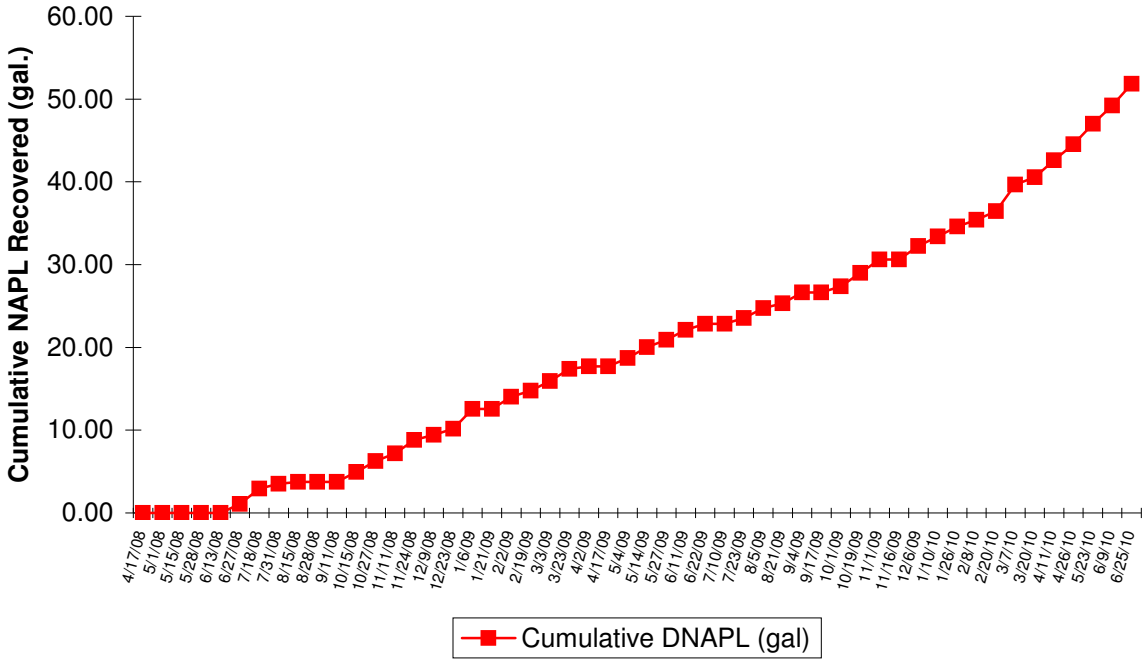


FIGURE 8AD
Well IPR-25 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



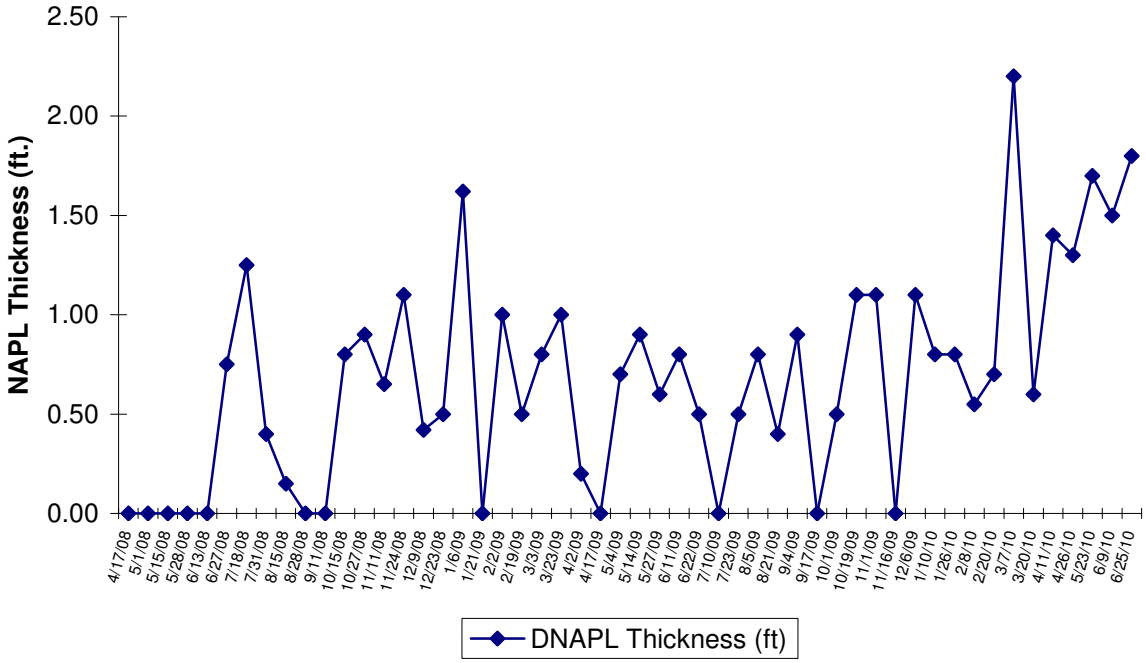
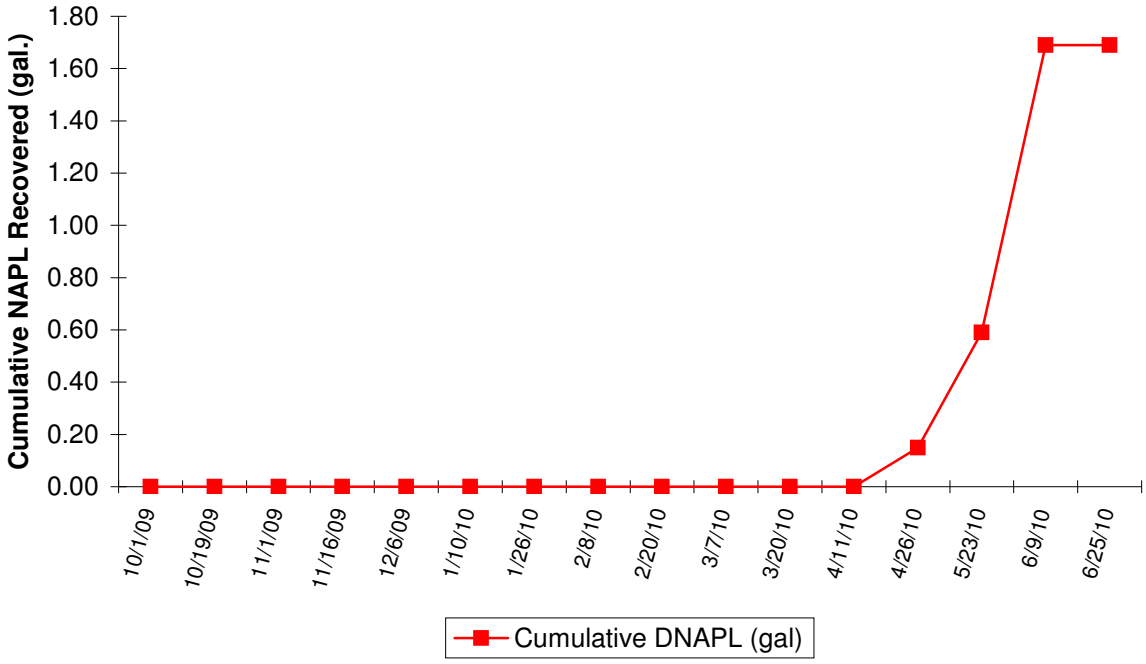


FIGURE 8AE
Well IPR-26 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



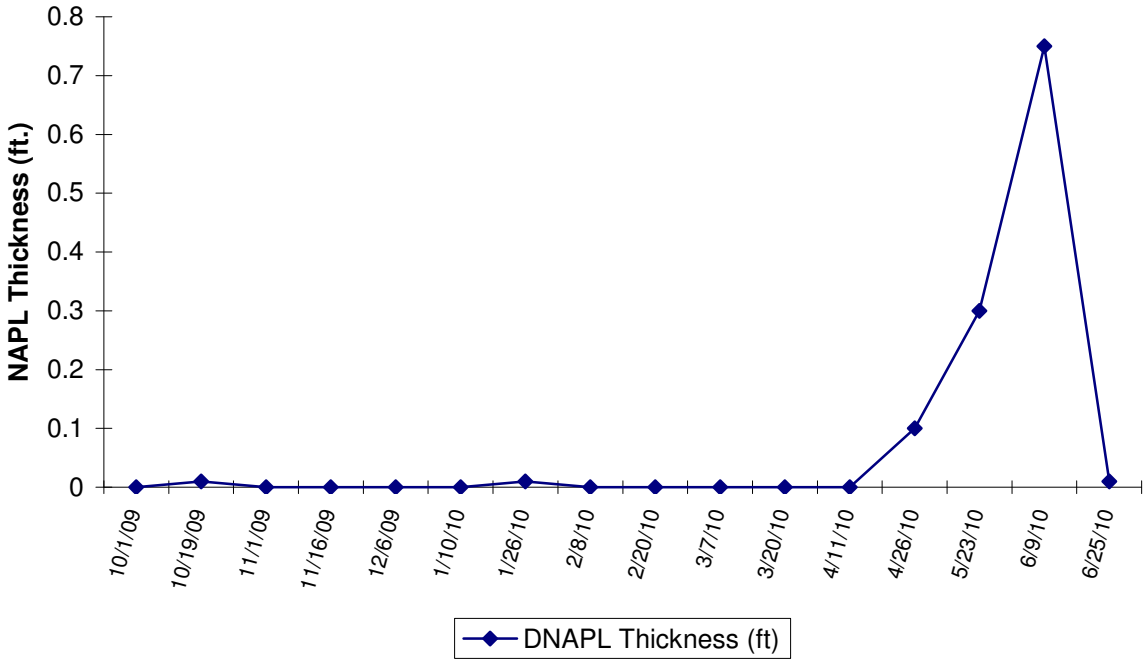
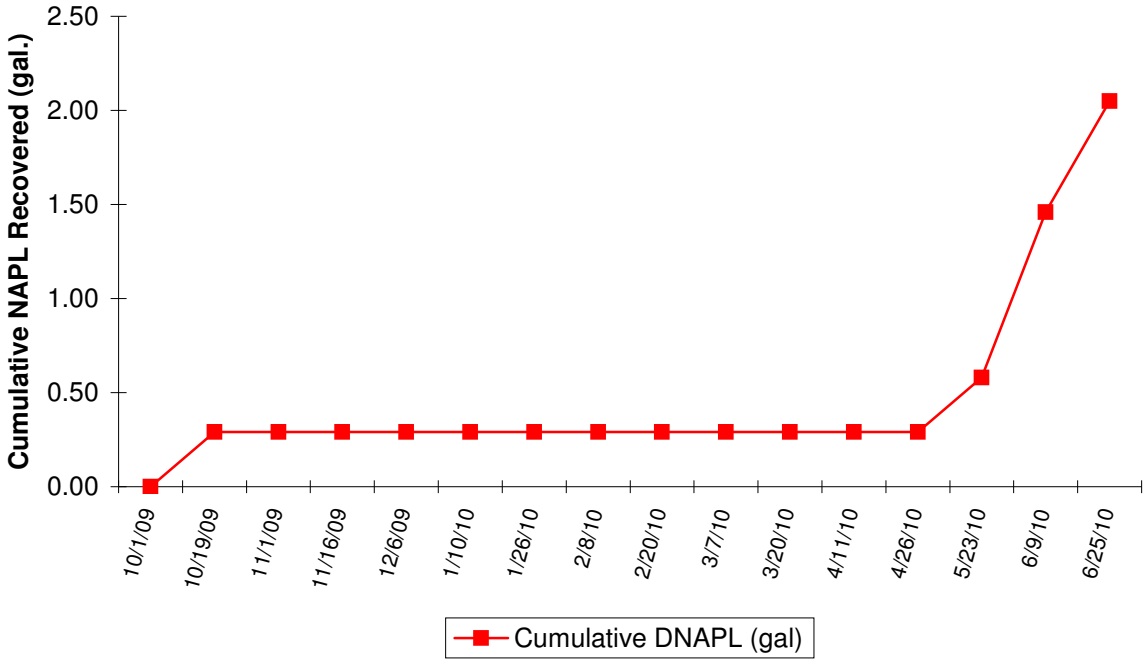


FIGURE 8AF
Well IPR-27 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



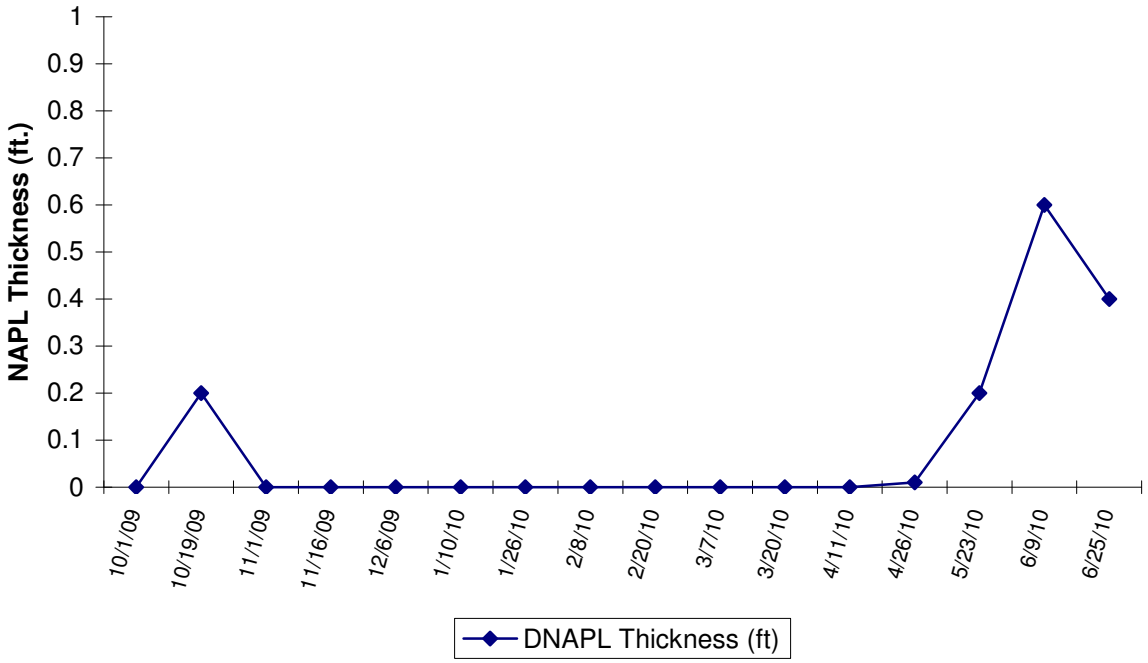
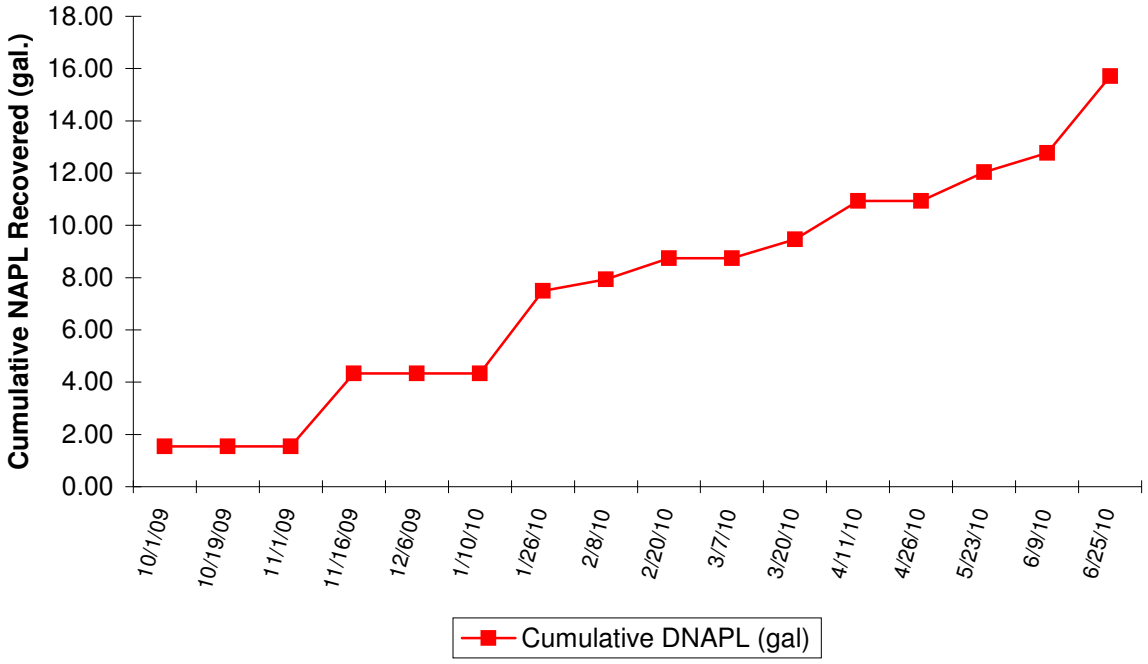
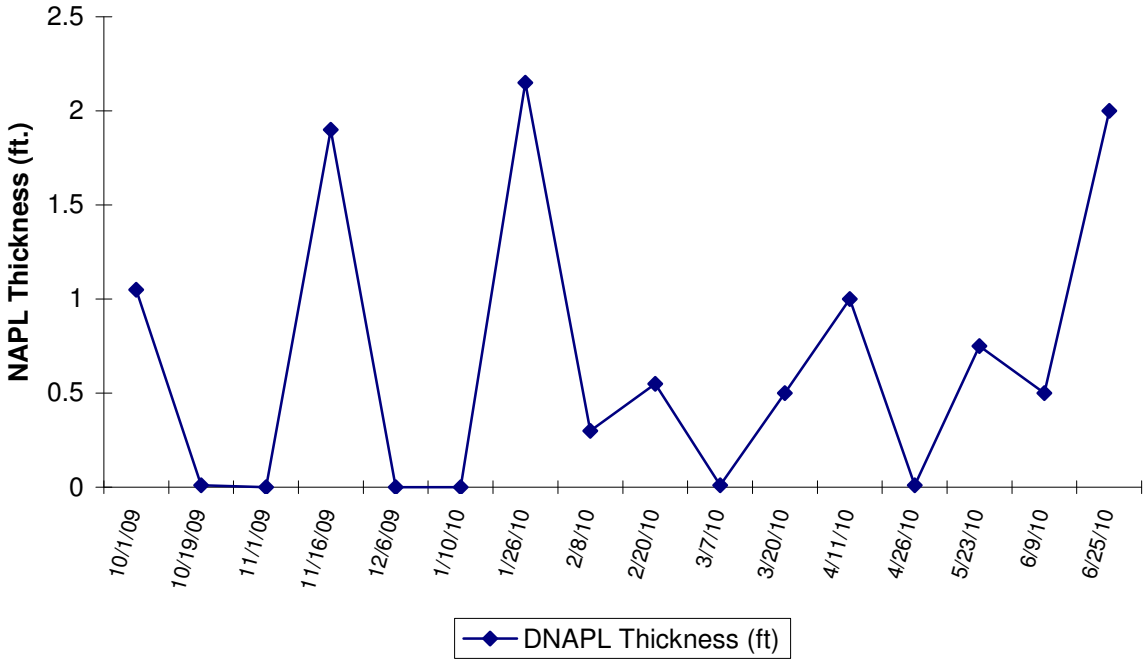


FIGURE 8AG
Well IPR-29 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site





APPENDIX A

DATA USABILITY SUMMARY REPORT

(Provided in Electronic Format Only)

ATTACHMENT A
DATA USABILITY SUMMARY REPORT
SECOND QUARTER 2010

HEMPSTEAD INTERSECTION STREET FORMER MGP SITE
VILLAGES OF GARDEN CITY AND HEMPSTEAD
LONG ISLAND, NEW YORK

Analyses Performed by:
H2M LABORATORIES, INC.

Prepared For:

NATIONAL GRID
175 EAST OLD COUNTRY RD.
HICKSVILLE, NY 11801

Prepared by:

URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203

MAY 2010

TABLE OF CONTENTS

TABLES
(Following Text)

APPENDICES
(Following Tables)

I. INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Draft DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for the Development of Data Usability Summary Reports*, December 2002.

Analytical data for twenty-one (21) groundwater samples, one (1) field duplicate, one (1) matrix spike/matrix spike duplicate (MS/MSD) pair, one (1) field blank, and five (5) trip blanks collected by URS personnel from April 13-20, 2010 are discussed in this DUSR. The samples were collected as part of the 2010 second quarter groundwater monitoring event at the Hempstead Intersection Street Former MGP Site.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION

The samples were analyzed by H2M Laboratories, Inc. (Melville, NY) for the following parameters:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) – USEPA Method SW8260B, and
- Polynuclear aromatic hydrocarbons (PAHs) – USEPA Method SW8270C.

A limited data validation was performed on the samples in accordance with the guidelines presented in the following USEPA Region II documents:

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B, SOP HW-24, Rev. 2,* August 2008; and

- *Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, SOP HW-22, Rev. 4*, August 2008.

The limited data validation included a review of completeness of all required deliverables; holding times; quality control (QC) results (instrument tunes, calibration standards, blanks, matrix spike recoveries, field duplicate analyses, laboratory control sample recoveries, and surrogate/internal standard recoveries) to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

There were no qualifications applied to the data during the data validation. The validated analytical results are presented in Tables A-1 and A-2. Copies of the validated laboratory results (i.e., Form 1's) are presented in Appendix A. Copies of the case narratives and chain-of-custodies are presented in Appendix B.

III. DATA DELIVERABLE COMPLETENESS

Full deliverable data packages (i.e., NYSDEC ASP Category B or equivalent) were provided by the laboratory, and included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

IV. HOLDING TIMES/SAMPLE RECEIPT

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC), except for the following instances.

- The sample collection time on the COC for blind field duplicate DUP-041310 (i.e., 18:00) is chronologically after the cooler shipment was received at the laboratory (i.e., 16:25). Collection times for blind field duplicates are often written on the COCs using arbitrary times so that the laboratory cannot identify the parent sample. Since the purge logs identify the parent sample associated with this field duplicate, this COC non-conformance does not jeopardize the usability of the data.
- The cooler temperature associated with samples HIMW-12S, -20I and -20S (i.e., 7°C) was slightly above QC limits (i.e., 4°C ± 2°C), because there wasn't sufficient time for the

samples to cool down during transit to the laboratory. No qualification of the data was necessary, per USEPA Region II validation guidelines, since the cooler temperature was less than 10°C.

- The VOA vials for sample HIMW-03I were not received at the lab on 04/16/10, due to a field oversight. The lab contacted the field technician regarding the whereabouts of the missing VOA vials. The field technician informed the lab that they were inadvertently omitted from the 04/16/10 shipment, but would be included in the next shipment to the lab. In the meantime, the VOA vials for this sample were maintained by the field technician under proper COC and at 4°C. No qualification of the data was necessary.

All samples were analyzed within the required holding times.

V. NON-CONFORMANCES

There were no non-conformances noted during the data review that affected the usability of the data.

VI. SAMPLE RESULTS AND REPORTING

All sample results were reported in accordance with method requirements and were adjusted for sample size and dilution factors. BTEX and PAH results detected below the quantitation limits were qualified 'J' by the laboratory. The results reported from secondary dilution analyses were qualified 'D' by the laboratory.

A field duplicate was collected from monitoring well location HIMW-14D, which exhibited good field and analytical precision. There were no target compounds detected in the field duplicate and corresponding parent sample.

VII. SUMMARY

All sample analyses were found to be compliant with the method and validation criteria, and the data are usable as reported. URS does not recommend the re-collection of any samples at this time.

Prepared By: _____ **Date:** 7/12/10
Peter R. Fairbanks, Senior Chemist

Reviewed By: _____ **Date:** 7/12/10
Mary E. Bitka, Principal Chemist

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

D – The sample results are reported from a separate secondary dilution analysis.

NJ – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			HIMW-003D	HIMW-003I	HIMW-003S	HIMW-005D	HIMW-005I
Sample ID			HIMW-3D	HIMW-3I	HIMW-3S	HIMW-5D	HIMW-5I
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/15/10	04/16/10	04/16/10	04/20/10	04/19/10
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	-	1.0 U	1.0 U	1.0 U	3	5
Ethylbenzene	UG/L	-	1.0 U	1.0 U	1.0 U	1	3
Toluene	UG/L	-	1.0 U	1.0 U	1.0 U	14	1
Xylene (total)	UG/L	-	1.0 U	1.0 U	1.0 U	210	140
Total BTEX	UG/L	100	ND	ND	ND	228	149
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	180 DJ	390 D
Acenaphthene	UG/L	-	10 U	10 U	10 U	2 J	10
Acenaphthylene	UG/L	-	10 U	10 U	10 U	27	180 DJ
Anthracene	UG/L	-	10 U	10 U	10 U	10 U	2 J
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	-	10 U	10 U	10 U	10 U	25
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	10 U	10 U	10 U	1,100 D	1,800 D
Phenanthrene	UG/L	-	10 U	10 U	10 U	10 U	14
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	ND	ND	ND	1,309	2,421

*Criteria- Goundwater Plume Delineation/Design Criteria; Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

(oval) Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis. ND - Not detected.

Made By_PRF 05/17/10_; Checked By_AMK 05/19/10_

Detection Limits shown are PQL

J:\11175065.00000\DB\Program\EDMS.mde
Printed: 7/12/2010 7:54:43 AM
[LOGDATE] BETWEEN #04/13/10# AND #04/20/10# AND [MATRIX] = 'WG' AND [LOCID] <> 'HISB-119'

TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			HIMW-005S	HIMW-008D	HIMW-008I	HIMW-008S	HIMW-012D
Sample ID			HIMW-5S	HIMW-8D	HIMW-8I	HIMW-8S	HIMW-12D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/16/10	04/19/10	04/19/10	04/19/10	04/14/10
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total BTEX	UG/L	100	ND	ND	ND	ND	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	-	10 U	10 U	10 U	2 J	10 U
Anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Phenanthrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	ND	ND	ND	2	ND

*Criteria- Goundwater Plume Delineation/Design Criteria. Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis. ND - Not detected.

Made By_PRF 05/17/10_; Checked By_AMK 05/19/10_

Detection Limits shown are PQL

TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			HIMW-012I	HIMW-012S	HIMW-013D	HIMW-013I	HIMW-013S
Sample ID			HIMW-12I	HIMW-12S	HIMW-13D	HIMW-13I	HIMW-13S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/14/10	04/15/10	04/14/10	04/14/10	04/14/10
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	-	45	1.0 U	2.7	270 D	1.0 U
Ethylbenzene	UG/L	-	1.3	1.0 U	1.0 U	24	1.0 U
Toluene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	-	7.8	7.5	3.2	11	1.0 U
Total BTEX	UG/L	100	54.1	7.5	5.9	305	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	-	42	10 U	7 J	10	10 U
Acenaphthylene	UG/L	-	50	10 U	14	91 D	10 U
Anthracene	UG/L	-	10 U	10 U	10 U	1 J	10 U
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	-	27	10 U	10 U	16	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	4 J	10 U	10 U	2 J	10 U
Phenanthrene	UG/L	-	10	10 U	10 U	13	10 U
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	133	ND	21	133	ND

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

(oval) Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis. ND - Not detected.

Made By_PRF 05/17/10_; Checked By_AMK 05/19/10_

Detection Limits shown are PQL

TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			HIMW-014D	HIMW-014D	HIMW-014I	HIMW-015D	HIMW-015I
Sample ID			DUP-041310	HIMW-14D	HIMW-14I	HIMW-15D	HIMW-15I
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/13/10	04/13/10	04/13/10	04/13/10	04/13/10
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Volatile Organic Compounds							
Benzene	UG/L	-	1.0 U	1.0 U	38	1.0 U	18
Ethylbenzene	UG/L	-	1.0 U	1.0 U	1.5	1.0 U	1.0 U
Toluene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	-	1.0 U	1.0 U	4.1	1.0 U	1.0 U
Total BTEX	UG/L	100	ND	ND	43.6	ND	18
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	-	10 U	10 U	11	10 U	4 J
Acenaphthylene	UG/L	-	10 U	10 U	17	10 U	20
Anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	-	10 U	10 U	5 J	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Phenanthrene	UG/L	-	10 U	10 U	4 J	10 U	10 U
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	ND	ND	37	ND	24

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

(oval) Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis. ND - Not detected.

Made By_PRF 05/17/10_; Checked By_AMK 05/19/10_

Detection Limits shown are PQL

TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			HIMW-020I	HIMW-020S
Sample ID			HIMW-20I	HIMW-20S
Matrix			Groundwater	Groundwater
Depth Interval (ft)			-	-
Date Sampled			04/15/10	04/15/10
Parameter	**Units**	**Criteria***		
Volatile Organic Compounds				
Benzene	UG/L	-	140	1.0 U
Ethylbenzene	UG/L	-	7.6	1.0 U
Toluene	UG/L	-	1.0 U	1.0 U
Xylene (total)	UG/L	-	45	1.0 U
Total BTEX	UG/L	100	192.6	ND
Semivolatile Organic Compounds				
2-Methylnaphthalene	UG/L	-	4 J	10 U
Acenaphthene	UG/L	-	11	10 U
Acenaphthylene	UG/L	-	120 D	10 U
Anthracene	UG/L	-	3 J	10 U
Benzo(a)anthracene	UG/L	-	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U
Chrysene	UG/L	-	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U
Fluorene	UG/L	-	19	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U
Naphthalene	UG/L	-	25	10 U
Phenanthrene	UG/L	-	27	10 U
Pyrene	UG/L	-	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	209	ND

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis. ND - Not detected.

Made By_PRF 05/17/10_; Checked By_AMK 05/19/10_

Detection Limits shown are PQL

J:\11175065.00000\DB\Program\EDMS.mde
Printed: 7/12/2010 7:54:44 AM
[LOGDATE] BETWEEN #04/13/10# AND #04/20/10# AND [MATRIX] = 'WG' AND [LOCID] <> 'HISB-119'

TABLE A-2
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID			TB 041310	FB 041410	TB 041410	TB 041510	TB 041610
Matrix			Water Quality	Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/13/10	04/14/10	04/14/10	04/15/10	04/16/10
Parameter	Units	Criteria*	Trip Blank (1-1)	Field Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds							
Benzene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total BTEX	UG/L	100	ND	ND	ND	ND	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	NA	10 U	NA	NA	NA
Acenaphthene	UG/L	-	NA	10 U	NA	NA	NA
Acenaphthylene	UG/L	-	NA	10 U	NA	NA	NA
Anthracene	UG/L	-	NA	10 U	NA	NA	NA
Benzo(a)anthracene	UG/L	-	NA	10 U	NA	NA	NA
Benzo(a)pyrene	UG/L	-	NA	10 U	NA	NA	NA
Benzo(b)fluoranthene	UG/L	-	NA	10 U	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	-	NA	10 U	NA	NA	NA
Benzo(k)fluoranthene	UG/L	-	NA	10 U	NA	NA	NA
Chrysene	UG/L	-	NA	10 U	NA	NA	NA
Dibenz(a,h)anthracene	UG/L	-	NA	10 U	NA	NA	NA
Fluoranthene	UG/L	-	NA	10 U	NA	NA	NA
Fluorene	UG/L	-	NA	10 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	-	NA	10 U	NA	NA	NA
Naphthalene	UG/L	-	NA	10 U	NA	NA	NA
Phenanthrene	UG/L	-	NA	10 U	NA	NA	NA
Pyrene	UG/L	-	NA	10 U	NA	NA	NA
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	NA	ND	NA	NA	NA

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

NA - The sample was not analyzed for this parameter.

ND - Not detected.

Made By_PRF 05/17/10_; Checked By_AMK 05/19/10_

Detection Limits shown are PQL

TABLE A-2
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			FIELDQC
Sample ID			TB 041910
Matrix			Water Quality
Depth Interval (ft)			-
Date Sampled			04/19/10
Parameter	Units	Criteria*	Trip Blank (1-1)
Volatile Organic Compounds			
Benzene	UG/L	-	1.0 U
Ethylbenzene	UG/L	-	1.0 U
Toluene	UG/L	-	1.0 U
Xylene (total)	UG/L	-	1.0 U
Total BTEX	UG/L	100	ND
Semivolatile Organic Compounds			
2-Methylnaphthalene	UG/L	-	NA
Acenaphthene	UG/L	-	NA
Acenaphthylene	UG/L	-	NA
Anthracene	UG/L	-	NA
Benzo(a)anthracene	UG/L	-	NA
Benzo(a)pyrene	UG/L	-	NA
Benzo(b)fluoranthene	UG/L	-	NA
Benzo(g,h,i)perylene	UG/L	-	NA
Benzo(k)fluoranthene	UG/L	-	NA
Chrysene	UG/L	-	NA
Dibenz(a,h)anthracene	UG/L	-	NA
Fluoranthene	UG/L	-	NA
Fluorene	UG/L	-	NA
Indeno(1,2,3-cd)pyrene	UG/L	-	NA
Naphthalene	UG/L	-	NA
Phenanthrene	UG/L	-	NA
Pyrene	UG/L	-	NA
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	NA

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

NA - The sample was not analyzed for this parameter.

ND - Not detected.

Made By_PRF 05/17/10_; Checked By_AMK 05/19/10_

Detection Limits shown are PQL

APPENDIX A

VALIDATED FORM 1'S

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004597-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69170.D

Level: (low/med) LOW Date Received: 04/13/10

% Moisture: not dec. Date Analyzed: 04/15/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S45

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004597-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69171.D

Level: (low/med) LOW Date Received: 04/13/10

% Moisture: not dec. Date Analyzed: 04/15/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	38	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1.5	
1330-20-7	Xylene (total)	4.1	

KEY-URS091 S46

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004597-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69172.D

Level: (low/med) LOW Date Received: 04/13/10

% Moisture: not dec. Date Analyzed: 04/15/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S47

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004597-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69173.D

Level: (low/med) LOW Date Received: 04/13/10

% Moisture: not dec. Date Analyzed: 04/15/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	18	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S48

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-041310

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004597-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69174.D

Level: (low/med) LOW Date Received: 04/13/10

% Moisture: not dec. Date Analyzed: 04/15/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S49

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004597-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69205.D

Level: (low/med) LOW Date Received: 04/13/10

% Moisture: not dec. Date Analyzed: 04/19/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S50

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004686-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69210.D

Level: (low/med) LOW Date Received: 04/14/10

% Moisture: not dec. Date Analyzed: 04/19/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S51

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004686-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69211.D

Level: (low/med) LOW Date Received: 04/14/10

% Moisture: not dec. Date Analyzed: 04/19/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	45	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1.3	
1330-20-7	Xylene (total)	7.8	

KEY-URS091 S52

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-13D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004686-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69212.D

Level: (low/med) LOW Date Received: 04/14/10

% Moisture: not dec. Date Analyzed: 04/19/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	2.7	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	3.2	

KEY-URS091 S53

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004686-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69213.D

Level: (low/med) LOW Date Received: 04/14/10

% Moisture: not dec. Date Analyzed: 04/19/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	~~270~~ 300	~~E~~ D
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	24	
1330-20-7	Xylene (total)	11	

5/17/10

KEY-URS091 S54

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13IDL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004686-004ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69252.D

Level: (low/med) LOW Date Received: 04/14/10

% Moisture: not dec. Date Analyzed: 04/21/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 2.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	270	D
108-88-3	Toluene	2	U
100-41-4	Ethylbenzene	14	D
1330-20-7	Xylene (total)	12	D

5/17/10

KEY-URS091 S55

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004686-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69214.D

Level: (low/med) LOW Date Received: 04/14/10

% Moisture: not dec. Date Analyzed: 04/19/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S56

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB 041410

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004686-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69206.D

Level: (low/med) LOW Date Received: 04/14/10

% Moisture: not dec. Date Analyzed: 04/19/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S57

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB 041410

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004686-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69207.D

Level: (low/med) LOW Date Received: 04/14/10

% Moisture: not dec. Date Analyzed: 04/19/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S58

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004740-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69215.D

Level: (low/med) LOW Date Received: 04/15/10

% Moisture: not dec. Date Analyzed: 04/20/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	7.5	

KEY-URS091 S59

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004740-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69218.D

Level: (low/med) LOW Date Received: 04/15/10

% Moisture: not dec. Date Analyzed: 04/20/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	140	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	7.6	
1330-20-7	Xylene (total)	45	

KEY-URS091 S60

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-20S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004740-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69219.D

Level: (low/med) LOW Date Received: 04/15/10

% Moisture: not dec. Date Analyzed: 04/20/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S61

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK4/15

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004740-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69208.D

Level: (low/med) LOW Date Received: 04/15/10

% Moisture: not dec. Date Analyzed: 04/19/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S62

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-3D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004790-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69220.D

Level: (low/med) LOW Date Received: 04/16/10

% Moisture: not dec. Date Analyzed: 04/20/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S63

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-3S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004790-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69221.D

Level: (low/med) LOW Date Received: 04/16/10

% Moisture: not dec. Date Analyzed: 04/20/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S64

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004790-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69222.D

Level: (low/med) LOW Date Received: 04/16/10

% Moisture: not dec. Date Analyzed: 04/20/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S65

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANK 0416

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004790-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69209.D

Level: (low/med) LOW Date Received: 04/16/10

% Moisture: not dec. Date Analyzed: 04/19/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S66

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004897-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69253.D

Level: (low/med) LOW Date Received: 04/20/10

% Moisture: not dec. Date Analyzed: 04/21/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S67

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004897-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69254.D

Level: (low/med) LOW Date Received: 04/20/10

% Moisture: not dec. Date Analyzed: 04/21/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S68

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004897-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A69255.D

Level: (low/med) LOW Date Received: 04/20/10

% Moisture: not dec. Date Analyzed: 04/21/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS091 S69

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004597-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38510.D

Level: (low/med) LOW Date Received: 04/13/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/16/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/19/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS091 S71

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004597-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38511.D

Level: (low/med) LOW Date Received: 04/13/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/16/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/19/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	17	
83-32-9	Acenaphthene	11	
86-73-7	Fluorene	5	J
85-01-8	Phenanthrene	4	J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS091 S72

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004597-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38512.D

Level: (low/med) LOW Date Received: 04/13/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/16/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/19/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS091 S73

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004597-004B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38513.D

Level: (low/med) LOW Date Received: 04/13/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/16/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/19/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	20	
83-32-9	Acenaphthene	4	J
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS091 S74

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DUP-041310

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004597-005B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38514.D

Level: (low/med) LOW Date Received: 04/13/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/16/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/19/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS091 S75

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004686-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38515.D

Level: (low/med) LOW Date Received: 04/14/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/16/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/19/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS091 S76

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-12I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004686-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38516.D

Level: (low/med) LOW Date Received: 04/14/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/16/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/19/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	4	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	50	
83-32-9	Acenaphthene	42	
86-73-7	Fluorene	27	
85-01-8	Phenanthrene	10	
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS091 S77

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004686-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38517.D

Level: (low/med) LOW Date Received: 04/14/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/16/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/19/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	14	
83-32-9	Acenaphthene	7	J
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS091 S78

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004686-004B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38518.D

Level: (low/med) LOW Date Received: 04/14/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/16/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/19/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	2	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	91 ~~81~~	~~E~~ D
83-32-9	Acenaphthene	10	
86-73-7	Fluorene	16	
85-01-8	Phenanthrene	13	
120-12-7	Anthracene	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

5/18/10

KEY-URS091 S79

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13IDL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004686-004BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38548.D

Level: (low/med) LOW Date Received: 04/14/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/16/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/20/10

Injection Volume: 2 (µL) Dilution Factor: 2.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	2	DJ
91-57-6	2-Methylnaphthalene	20	U
208-96-8	Acenaphthylene	91	D
83-32-9	Acenaphthene	11	DJ
86-73-7	Fluorene	16	DJ
85-01-8	Phenanthrene	14	DJ
120-12-7	Anthracene	20	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
56-55-3	Benzo(a)anthracene	20	U
218-01-9	Chrysene	20	U
205-99-2	Benzo(b)fluoranthene	20	U
207-08-9	Benzo(k)fluoranthene	20	U
50-32-8	Benzo(a)pyrene	20	U
193-39-5	Indeno(1,2,3-cd)pyrene	20	U
53-70-3	Dibenzo(a,h)anthracene	20	U
191-24-2	Benzo(g,h,i)perylene	20	U

(1) Cannot be separated from Diphenylamine

5/18/10

KEY-URS091 S80

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004686-005B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38519.D

Level: (low/med) LOW Date Received: 04/14/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/16/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/20/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS091 S81

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB 041410

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004686-006B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38520.D

Level: (low/med) LOW Date Received: 04/14/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/16/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/20/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS091 S82

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004740-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38521.D

Level: (low/med) LOW Date Received: 04/15/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/16/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/20/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004740-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38524.D

Level: (low/med) LOW Date Received: 04/15/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/16/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/20/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	25	
91-57-6	2-Methylnaphthalene	4	J
208-96-8	Acenaphthylene	120 ~~100~~	~~E~~ D
83-32-9	Acenaphthene	11	
86-73-7	Fluorene	19	
85-01-8	Phenanthrene	27	
120-12-7	Anthracene	3	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

5/18/10 2

KEY-URS091 S84

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20IDL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004740-002BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38600.D

Level: (low/med) LOW Date Received: 04/15/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/16/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/22/10

Injection Volume: 2 (µL) Dilution Factor: 2.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	27	D
91-57-6	2-Methylnaphthalene	4	DJ
208-96-8	Acenaphthylene	120	D
83-32-9	Acenaphthene	11	DJ
86-73-7	Fluorene	20	D
85-01-8	Phenanthrene	29	D
120-12-7	Anthracene	4	DJ
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
56-55-3	Benzo(a)anthracene	20	U
218-01-9	Chrysene	20	U
205-99-2	Benzo(b)fluoranthene	20	U
207-08-9	Benzo(k)fluoranthene	20	U
50-32-8	Benzo(a)pyrene	20	U
193-39-5	Indeno(1,2,3-cd)pyrene	20	U
53-70-3	Dibenzo(a,h)anthracene	20	U
191-24-2	Benzo(g,h,i)perylene	20	U

(1) Cannot be separated from Diphenylamine

5/18/10

KEY-URS091 S85

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004740-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38525.D

Level: (low/med) LOW Date Received: 04/15/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/16/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/20/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-3D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004790-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38544.D

Level: (low/med) LOW Date Received: 04/16/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/19/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/20/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-3I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004790-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38545.D

Level: (low/med) LOW Date Received: 04/16/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/19/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/20/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-3S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004790-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38546.D

Level: (low/med) LOW Date Received: 04/16/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/19/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/20/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS091 S89

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004790-004B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38547.D

Level: (low/med) LOW Date Received: 04/16/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/19/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/20/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS091 S90

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004897-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38737.D

Level: (low/med) LOW Date Received: 04/20/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/22/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/29/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS091 S91

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004897-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38738.D

Level: (low/med) LOW Date Received: 04/20/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/22/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/29/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS091

Matrix: (soil/water) WATER Lab Sample ID: 1004897-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38741.D

Level: (low/med) LOW Date Received: 04/20/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/22/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/29/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	2	J
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-3I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No. _____ SDG No.: KEY-URS095

Matrix: (soil/water) WATER Lab Sample ID: 1004898-001A

Sample wt/vol: 5 (g/mL ML Lab File ID: A\A69256.D

Level: (low/med) LOW Date Received: 04/20/10

% Moisture: not dec. Date Analyzed: 04/21/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS095 S16

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No. _____ SDG No.: KEY-URS095

Matrix: (soil/water) WATER Lab Sample ID: 1004898-002A

Sample wt/vol: 5 (g/mL ML Lab File ID: A\A69257.D

Level: (low/med) LOW Date Received: 04/20/10

% Moisture: not dec. Date Analyzed: 04/21/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	3	
108-88-3	Toluene	14	
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene (total)	210	

KEY-URS095 S17

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No. _____ SDG No.: KEY-URS095

Matrix: (soil/water) WATER Lab Sample ID: 1004898-003A

Sample wt/vol: 5 (g/mL ML Lab File ID: A\A69258.D

Level: (low/med) LOW Date Received: 04/20/10

% Moisture: not dec. Date Analyzed: 04/21/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	5	
108-88-3	Toluene	1	
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene (total)	140	

KEY-URS095 S18

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No. _____ SDG No.: KEY-URS095

Matrix: (soil/water) WATER Lab Sample ID: 1004898-004A

Sample wt/vol: 5 (g/mL ML Lab File ID: A\A69259.D

Level: (low/med) LOW Date Received: 04/20/10

% Moisture: not dec. Date Analyzed: 04/21/10

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS095 S19

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS095

Matrix: (soil/water) WATER Lab Sample ID: 1004898-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38739.D

Level: (low/med) LOW Date Received: 04/20/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/22/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/29/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	1100 ~~550~~	~~E~~ D
91-57-6	2-Methylnaphthalene	180 ~~190~~	~~E~~ DJ
208-96-8	Acenaphthylene	27	
83-32-9	Acenaphthene	2	J
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

5/18/10

KEY-URS095 S21

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5DDL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS095

Matrix: (soil/water) WATER Lab Sample ID: 1004898-002BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38846.D

Level: (low/med) LOW Date Received: 04/20/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/22/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 05/02/10

Injection Volume: 2 (µL) Dilution Factor: 20.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	1100	D
91-57-6	2-Methylnaphthalene	180	DJ
208-96-8	Acenaphthylene	27	DJ
83-32-9	Acenaphthene	200	U
86-73-7	Fluorene	200	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U

(1) Cannot be separated from Diphenylamine

5/15/10

KEY-URS095 S22

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS095

Matrix: (soil/water) WATER Lab Sample ID: 1004898-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38740.D

Level: (low/med) LOW Date Received: 04/20/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/22/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/29/10

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	1800 ~~770~~	E D
91-57-6	2-Methylnaphthalene	390 ~~370~~	E D
208-96-8	Acenaphthylene	180 ~~160~~	~~E~~ DJ
83-32-9	Acenaphthene	10	
86-73-7	Fluorene	25	
85-01-8	Phenanthrene	14	
120-12-7	Anthracene	2	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

5/18/10

KEY-URS095 S23

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5IDL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS095

Matrix: (soil/water) WATER Lab Sample ID: 1004898-003BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0\N38847.D

Level: (low/med) LOW Date Received: 04/20/10

% Moisture: Decanted: (Y/N) N Date Extracted: 04/22/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 05/02/10

Injection Volume: 2 (µL) Dilution Factor: 25.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	1800	D
91-57-6	2-Methylnaphthalene	390	D
208-96-8	Acenaphthylene	180	DJ
83-32-9	Acenaphthene	250	U
86-73-7	Fluorene	250	U
85-01-8	Phenanthrene	250	U
120-12-7	Anthracene	250	U
206-44-0	Fluoranthene	250	U
129-00-0	Pyrene	250	U
56-55-3	Benzo(a)anthracene	250	U
218-01-9	Chrysene	250	U
205-99-2	Benzo(b)fluoranthene	250	U
207-08-9	Benzo(k)fluoranthene	250	U
50-32-8	Benzo(a)pyrene	250	U
193-39-5	Indeno(1,2,3-cd)pyrene	250	U
53-70-3	Dibenzo(a,h)anthracene	250	U
191-24-2	Benzo(g,h,i)perylene	250	U

(1) Cannot be separated from Diphenylamine

5/18/10

KEY-URS095 S24

APPENDIX B

SUPPORT DOCUMENTATION

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILE ORGANICS
SAMPLES RECEIVED: 4/13/10 – 4/20/10
SDG #: KEY-URS091

For Sample(s):

HIMW-14D	HIMW-12D	TB 041410	HIMW-3S
HIMW-14I	HIMW-12I	HIMW-12S	HIMW-5S
HIMW-15D	HIMW-13D	HIMW-20I	TRIP BLANK 041610
HIMW-15I	HIMW-13I	HIMW-20S	HIMW-8D
DUP-041310	HIMW-13S	TRIP BLANK4/15	HIMW-8I
TRIP BLANK	FB 041410	HIMW-3D	HIMW-8S

The above water sample(s) was/were analyzed for a select list of volatile organic analytes (BTEX) by EPA method 8260B.

All QC data and calibrations met the requirements of the method, and no problems were encountered with sample analysis. The following should be noted:

Sample HIMW-12S was analyzed as the matrix spike/matrix spike duplicate. All percent recoveries for the three lab fortified blanks (LFB) and recoveries and RPDs for the MS and MSD were within Q. C. limits.

Sample HIMW-13I was reanalyzed at a dilution to keep the concentration of benzene within the calibration range. Both sets of data are reported.

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

Date Reported: May 4, 2010

****
* *
****
Ursula Middel
Technical Manager

KEY-URS091 A3

H2M LABS, INC.

SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLES RECEIVED: 4/13/10 – 4/20/10
SDG #: KEY-URS091

For Sample(s):

HIMW-14D	HIMW-12I	HIMW-12S	HIMW-5S
HIMW-14I	HIMW-13D	HIMW-20I	TRIP BLANK 041610
HIMW-15D	HIMW-13I	HIMW-20S	HIMW-8D
HIMW-15I	HIMW-13S	HIMW-3D	HIMW-8I
DUP-041310	FB 041410	HIMW-3S	HIMW-8S
HIMW-12D		HIMW-3I	

5/17/10

The above sample(s) was/were analyzed for a select list of semivolatile organic analytes (polynuclear aromatics) by EPA method 8270C.

All QC data and calibrations met the requirements of the method, and no problems were encountered with sample analysis. The following should be noted:

Sample HIMW-12S was analyzed as the matrix spike/matrix spike duplicate. All percent recoveries for the three lab fortified blanks and recoveries and RPDs for the MS and MSD were within Q. C. limits.

Samples HIMW-13I and HIMW-20I were reanalyzed at a dilution due to concentration levels of targeted analytes above the calibration range. Both sets of data are submitted.

In the initial calibrations on 4/1/10 and 4/23/10, %RSD exceeded the limit for linear response of 15% for various analytes, however these compounds were not targeted or not found.

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

Date Reported: May 4, 2010

****
* *
* *
****

Ursula Middel
Technical Manager

KEY-URS091 A4

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

33330

EXTERNAL CHAIN OF CUSTODY

CLIENT: URS CORPORATION

H2M SDG NO: KEY-URS091

PROJECT NAME/NUMBER: NATIONAL GRID HEMPSTEAD, NY. 11176098

SAMPLERS: (signature)/Client: H. Brian Barker / URS Corp.

DELIVERABLES:

TURNAROUND TIME: Standard

NOTES:

Project Contact: N. BRIAN BECKER

Phone Number: 201-738-5241

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: Pest/PCB	ORGANIC: BTEX	ORGANIC: PAH	INORG.: Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
4/13/10	0930	AQ	HIMW-15D	4				X	X			1004597-005 3	
4/13/10	1050	AQ	HIMW-15I	4				X	X			-006 4	
4/13/10	1325	AQ	HIMW-14D	4				X	X			-001	
4/13/10	1450	AQ	HIMW-14I	4				X	X			-002	
4/13/10	1800	AQ	DUP041310	4				X	X			-007 5	
4/12/10	-	AQ	TRIP BLANK	2				X				-008 6	

MCW 4-13-10

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
H. Brian Barker	4/13/10	1530	S. Wall	4-13-10	15.30
S. Wall	4-13-10	16.25	M. Hall	4-13-10	1625

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped ___ or Hand Delivered ✓ Airbill# ___
2. Ambient or (chilled) Temp 5.3°C on ice
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or N N/A
2. Unbroken on outer package: Y or N N/A
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL

KEY-URS091 A6

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

H2M LABS, INC.

Sample Receipt Checklist

KEY-URS 091

Client Name KEY-URS

Date and Time Received: 4/13/2010

Work Order Number 1004597

Received by MCW

Checklist completed by [signature] 4-13-10 (Signature / Date)

Reviewed by JSA 4/14/10 (Initials / Date)

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted YES Date contacted: 4/14/10 Person contacted BRIAN BECKER

Contacted by: JENARARI Regarding

Comments: DUP-041310 was said to be sampled at 18:00 on 4-13-10. Samples were received at laboratory at 16:25 on 4-13-10.

Corrective Action TIME FOR DUP IS A MADE UP TIME TO BE A BLIND TO THE LAB.

KEY-URS091 A7

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

00002

EXTERNAL CHAIN OF CUSTODY

CLIENT: URS CORPORATION

H2M SDG NO: KEY-URS091

PROJECT NAME/NUMBER: NATIONAL GRID, HEMPSTEAD, NY. 11176098

SAMPLERS: (signature)/Client: H. Brian Baker / URS CORP

DELIVERABLES:

TURNAROUND TIME: Standard

NOTES:

Project Contact: H. Brian Baker

Phone Number: 201-738-5241

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description: 40ml amber glass	1000ml amber glass	ORGANIC: VOA	BNA	Pest/PCB	BTEX	PAH	INORG.: Metal	CN	LAB I.D. NO.	REMARKS:
4/14/10	0855	AQ	HIMW-13D	4						X	X			1004686-0023	
4/14/10	0920	AQ	FB041410	4						X	X			~~0003~~ TCB 4/14/10 TCB 4/15/10	
4/14/10	1000	AQ	HIMW-13I	4						X	X			-004	
4/14/10	1125	AQ	HIMW-13S	4						X	X			-005	
4/14/10	1420	AQ	HIMW-12D	4						X	X			-0021	
4/12/10	—	AQ	TRIPBLANK	2						X				~~0024~~ TCB 4/14/10 TCB 4/15/10	
4/14/10	1515	AQ	HIMW-12I	4						X	X			-002	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
H. Brian Baker	4/14/10	1578	S. Weed	4-14-10	15.28
S. Weed	4-14-10	16.35	C Bell	4/14/10	16:35

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled, Temp._____
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

KEY-URS091 A12

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

33359

EXTERNAL CHAIN OF CUSTODY

CLIENT: URS CORPORATION

H2M SDG NO: KEY-URS091

PROJECT NAME/NUMBER: NATIONAL GRID, HEMPSTEAD, NY, 11176098

SAMPLERS: (signature)/Client: H. Brian Becker/URS Corp.

DELIVERABLES:

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: N. Brian Becker

Phone Number: 201-738-5241

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	ORGANIC SVOA	ORGANIC PAH	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
4/15/10	0900	AQ	HIMW-12S	12				6	6			1004740-001	
4/15/10	1115	AQ	HIMW-20S	4				2	2			-003	
4/15/10	1225	AQ	HIMW-20I	4				2	2			-002	
4/15/10	—	AQ	TRIPBLANK	2				2				-004	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
H. Brian Becker	4/15/10	1545	S. Wall	4-15-10	15.45
S. Wall	4-15-10	16.40	M. Wall	4-15-10	1640

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered ✓ Airbill# ___
2. Ambient or ~~Chilled~~, Temp 7°C on ice
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

KEY-URS091 A18

H2M LABS, INC.

33353

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: URS CORPORATION

H2M SDG NO: KEY-URS091

PROJECT NAME/NUMBER
NATIONAL GRID
HEMPSTEAD NY
11176098

SAMPLERS: (signature)/Client
H. Brian Becker

DELIVERABLES:

TURNAROUND TIME:
STANDARD

NOTES:

Project Contact: H. Brian Becker

Phone Number: 201-738-5241

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: Pest/PCB	ORGANIC: BTEX	ORGANIC: PAH			INORG.: Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
			Sample Container Description →					40ml. amber glass	1000ml amber glass						
4/15/10	1555	AQ	HIMW-3D	4				2	2					1004790-001	
4/16/10	0725	AQ	HIMW-5S	4				2	2					-004	
4/16/10	1130	AQ	HIMW-3I	4				2	2					-002	VOA samples were not received. (CB)
4/16/10	1220	AQ	HIMW-3S	4				2	2					-003	
4/16/10	—	AQ	TRIPBLANK	2				2						-005	

CB 4/19/10

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
H. Brian Becker	4/16/10	1330	S. Weil	4-16-10	13.30
S. Weil	4.16.10	16.40	C Bell	4/16/10	16:40

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? (Y) or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered ✓ Airbill# _____
2. Ambient or chilled, Temp 4.2
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: ~~Y or N~~ NA
2. Unbroken on outer package: ~~Y or N~~ NA
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

KEY-URS091A24

KEY-URS091

H2M LABS, INC.

Sample Receipt Checklist

Client Name KEY-URS

Date and Time Received: 4/16/2010 4:40:00 PM

Work Order Number 1004790

Received by CDB

Checklist completed by CBell 4/19/10
Signature Date

Reviewed by JSA 4/19/10
Initials Date

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted YES Date contacted: 4/19/10 Person contacted BRIAN BECKER

Contacted by: JON ARACRI Regarding:

Comments: The vials from sample HIMW-3I were not received.

Corrective Action CLIENT HAS VIALS IN COOLER ONSITE WILL ARRIVE IN NEXT SAMPLE GROUP.

KEY-URS091 A25

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

33355

EXTERNAL CHAIN OF CUSTODY

CLIENT: URS CORPORATION

H2M SDG NO: KEY-URS091/095

PROJECT NAME/NUMBER: NATIONAL GRID HEMPSTEAD, N.Y. 11176098

SAMPLERS: (signature)/Client: H. Brian Becker / URS Corporation

DELIVERABLES:

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: H. Brian Becker

Phone Number: 201-738-5241

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	ORGANIC 8260	ORGANIC 8270	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
4/8/10	1120	AQ	HIMW-8D	4				X	X			1004897-001	KEY-URS 091
4/8/10	1240	AQ	HIMW-8I	4				X	X			-002	
4/19/10	1330	AQ	HIMW-8S	4				X	X			-003	
4/16/10	1130	AQ	HIMW-3I	2				X				1004898-001	KEY-URS 095
4/19/10	1945	AQ	HIMW-5I	4				X	X			-003	
4/20/10	0725	AQ	HIMW-5D	4				X	X			-002	
4/19/10	-	AQ	TRIPBLANK	2				X				-004	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
H. Brian Becker	4/20/10	1120	Steve Kelly	4/20	1125
Steve Kelly	4/20/10	1450	B. Wall	4-20-10	1650

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped ___ or Hand Delivered ✓ Airbill# ___
2. Ambient or chilled, Temp 5.4°C on ice
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or N NA
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

KEY-URS091A30

H2M LABS, INC.

SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLES RECEIVED: 4/20/10
SDG #: KEY-URS095

For Sample(s):

~~HIMW-3I~~ 5/18/10 A2
HIMW-5D
HIMW-5I

The above sample(s) was/were analyzed for a select list of semivolatile organic analytes (polynuclear aromatics) by EPA method 8270C.

All QC data and calibrations met the requirements of the method, and no problems were encountered with sample analysis. The following should be noted:

Sample HIMW-5D was analyzed as MS/MSD.

~~No matrix spike sample was designated,~~ but a lab fortified blank (LFB) was extracted with the sample batch. Recoveries indicate good method efficiency.

In the initial calibrations on 4/23/10, %RSD exceeded the limit for linear response of 15% for various analytes, however these compounds were not targeted or not found.

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

Date Reported: May 4, 2010

****
* Middel *
****
Ursula Middel
Technical Manager

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILE ORGANICS
SAMPLES RECEIVED: 4/20/10
SDG #: KEY-URS095

For Sample(s):

HIMW-3I
HIMW-5D
HIMW-5I
TRIP BLANK

The above water sample(s) was/were analyzed for a select list of volatile organic analytes (BTEX) by EPA method 8260B.

All QC data and calibrations met the requirements of the method, and no problems were encountered with sample analysis.

No matrix spike sample was designated, but lab fortified blanks (LFB) were analyzed on all days of analysis. Recoveries indicate good method efficiency.

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

Date Reported: May 5, 2010

****
* *
* *
****
Ursula Middel
Technical Manager

KEY-URS095 A3

APPENDIX B

SOIL VAPOR SAMPLING DATA

Validated

Table X
Analytical Soil Gas Results
Hempstead Site
Hempstead, New York

Sample Name: / Sample Date:	NYSDOH Background Upper Fence Outdoor Air Concentrations	HIVP-16 6/11/2010	HIVP-17 6/11/2010	HIVP-18 6/11/2010
BTEX (ug/m3)				
Benzene	4.8	1.3 U	1.3 U	1.3 U
Toluene	5.1	**0.84 J**	**3.7**	**2.0**
Ethylbenzene	1	1.7 U	1.7 U	1.7 U
Xylene, m,p-	1	3.5 U	3.5 U	**1.0 J**
Xylene, o-	1.2	1.7 U	1.7 U	1.7 U
Other VOCs (ug/m3)				
Acetaldehyde	NE	**3.0 J**	**3.6 J**	**3.1 J**
Acetone	30	**1.6 J**	**3.8 J**	**1.9 J**
Acrolein (propenal)	NE	2.3 U	2.3 U	2.3 U
Allyl chloride	NE	1.2 U	1.2 U	1.2 U
Benzothiophene	NE	5.5 U	5.5 U	5.5 U
Bromodichloromethane	NE	2.7 U	2.7 U	2.7 U
Bromoform	NE	4.1 U	4.1 U	4.1 U
Bromomethane	0.5	1.6 U	1.6 U	1.6 U
Butadiene, 1,3-	NE	0.88 U	0.88 U	0.88 U
Butane	NE	0.95 U	0.95 U	0.95 U
Butanone,2-	5.3	1.2 U	1.2 U	1.2 U
Carbon disulfide	NE	1.2 U	1.2 U	1.2 U
Carbon tetrachloride	1.2	2.5 U	2.5 U	2.5 U
Chlorobenzene	0.25	1.8 U	1.8 U	1.8 U
Chloroethane	0.4	1.0 U	1.0 U	1.0 U
Chloroform	0.5	2.0 U	2.0 U	2.0 U
Chloromethane	4.3	**0.23 J**	0.83 U	0.83 U
Chlorotoluene,2-	NE	2.1 U	2.1 U	2.1 U
Cryofluorane	0.5	2.8 U	2.8 U	2.8 U
Cyclohexane	0.9	1.4 U	1.4 U	1.4 U
Decane, n-	4.7	2.3 U	2.3 U	2.3 U
Dibromochloromethane	NE	3.4 U	3.4 U	3.4 U
Dibromoethane,1,2-	0.4	3.1 U	3.1 U	3.1 U
Dichlorobenzene,1,2-	0.4	2.4 U	2.4 U	2.4 U
Dichlorobenzene,1,3-	0.4	2.4 U	2.4 U	2.4 U
Dichlorobenzene,1,4-	0.5	2.4 U	2.4 U	2.4 U
Dichlorodifluoromethane	10	**2.8**	**2.8**	**2.6**
Dichloroethane,1,1-	0.25	1.6 UJ	1.6 UJ	1.6 UJ
Dichloroethane,1,2-	0.4	1.6 U	1.6 U	1.6 U
Dichloroethene, cis-1,2-	0.4	1.6 U	1.6 U	1.6 U
Dichloroethene,1,1-	0.4	1.6 U	1.6 U	1.6 U
Dichloropropane,1,2-	0.4	1.8 U	1.8 U	1.8 U
Dichloropropene, cis-1,3	0.4	1.8 U	1.8 U	1.8 U
Dichloropropene, trans-1,3	0.25	1.8 U	1.8 U	1.8 U
Dioxane,1,4-	NE	1.4 U	1.4 U	1.4 U
Dodecane, n-	4.5	**1.2 J**	**0.79 J**	2.8 U
Ethanol	34	**1.3 J**	**1.8 J**	**1.7 J**
Ethylthiophene, 2-	NE	1.8 U	1.8 U	1.8 U
Ethyltoluene, p-	NE	2.0 U	2.0 U	2.0 U
Heptane, n-	2.2	1.6 U	1.6 U	1.6 U

Table X
Analytical Soil Gas Results
Hempstead Site
Hempstead, New York

Hexachlorobutadiene	0.5	4.3 U	4.3 U	4.3 U
Hexane, n-	2	1.4 U	1.4 U	1.4 U
Hexanone,2-	NE	1.6 U	1.6 U	1.6 U
Indan	NE	1.9 U	1.9 U	1.9 U
Indene	NE	**0.59 J**	**0.86 J**	**1.6 J**
Methyl tert-butyl ether	1.9	1.4 U	1.4 U	1.4 U
Methyl-2-pentanone,4-	0.5	1.6 U	1.6 U	1.6 U
Methylene chloride	1.6	**1.4 J**	**1.1 J**	**1.5 J**
Methylnaphthalene,1-	NE	5.8 U	5.8 U	5.8 U
Methylnaphthalene,2-	NE	5.8 U	5.8 U	5.8 U
Methylthiophene, 2-	NE	1.6 U	1.6 U	1.6 U
Methylthiophene, 3-	NE	1.6 U	1.6 U	1.6 U
Naphthalene	NE	**0.62 J**	**0.84 J**	**1.4 J**
Nonane	0.7	2.1 U	2.1 U	2.1 U
Octane, n-	1.5	1.9 U	1.9 U	1.9 U
Pentane	NE	1.2 U	**0.60 J**	1.2 U
Propanol,2-	NE	2.5 U	2.5 U	2.5 U
Styrene	0.5	1.7 U	1.7 U	1.7 U
t-Butyl alcohol	NE	1.2 U	1.2 U	1.2 U
Tetrachloroethane,1,1,2,2-	0.4	2.7 U	2.7 U	2.7 U
Tetrachloroethene	0.7	**3.7**	**4.4**	**1.1 J**
Tetramethylbenzene, 1,2,4,5-	NE	2.2 U	2.2 U	2.2 U
Thiophene	NE	1.4 U	1.4 U	1.4 U
Trans-1,2-dichloroethene	NE	1.6 U	1.6 U	1.6 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	2.5	3.1 U	3.1 U	3.1 U
Trichlorobenzene,1,2,4-	0.4	3.0 U	3.0 U	3.0 U
Trichloroethane,1,1,1-	0.6	2.2 U	2.2 U	2.2 U
Trichloroethane,1,1,2-	0.3	2.2 U	2.2 U	2.2 U
Trichloroethene	0.4	2.2 U	2.2 U	2.2 U
Trichlorofluoromethane	5.1	**1.7 J**	**2.0 J**	**1.4 J**
Trimethylbenzene,1,2,3-	0.5	2.0 U	2.0 U	2.0 U
Trimethylbenzene,1,2,4-	1.9	2.0 U	**0.60 J**	**0.76 J**
Trimethylbenzene,1,3,5-	0.7	2.0 U	2.0 U	2.0 U
Trimethylpentane, 2,2,4-	0.7	1.9 U	1.9 U	1.9 U
Undecane, n-	1.5	**0.66 J**	**0.95 J**	**0.72 J**
Vinyl bromide	NE	1.8 U	1.8 U	1.8 U
Vinyl chloride	0.4	1.0 U	1.0 U	1.0 U
Other (%)				
Helium	NE	0.0167 U	0.0174 U	0.0187 U

Table X
Analytical Soil Gas Results
Hempstead Site
Hempstead, New York

Notes:

ug/m^3 - micrograms per cubic meter
BTEX - benzene, toluene, ethylbenzene, and xylenes
VOCs - volatile organic compounds

' Source: NYSDOH, October 2006. Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes reported in various locations within sampled homes in NYS, 1997-2003. Background values for naphthalene are from the NYSDOH 1997 Control Home Database presented in Table C3 of the NYSDOH 2006 Guidance.

NE - not established

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

Validation Qualifiers:

J - estimated value
U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated