

**2012 Annual Groundwater
Sampling, NAPL Monitoring/
Recovery, and Groundwater
Treatment Performance Report
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

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**2012 ANNUAL GROUNDWATER SAMPLING, NAPL MONITORING, AND
GROUNDWATER TREATMENT PERFORMANCE REPORT**

**HEMPSTEAD INTERSECTION STREET
FORMER MANUFACTURED GAS PLANT SITE
VILLAGES OF HEMPSTEAD AND GARDEN CITY
NASSAU COUNTY, NEW YORK 11550**

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ACRONYMS AND ABBREVIATIONS

| | |
|--------|---|
| amsl | above mean sea level |
| BTEX | benzene, toluene, ethylbenzene, xylenes |
| DNAPL | dense non-aqueous phase liquid |
| DO | dissolved oxygen |
| DTW | depth to water |
| DUSR | data usability summary report |
| F&N | Fenley & Nicol Environmental, Inc. |
| ft | foot (feet) |
| HIMW | Hempstead Intersection (Street) Monitoring Well |
| IPR | Intersection (Street) Product Recovery |
| ISS | In Situ Solidification |
| LNAPL | light non-aqueous phase liquid |
| MGP | manufactured gas plant |
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| MP | monitoring points |
| NA | not accessible |
| NAPL | non-aqueous phase liquid |
| ND | not detected |
| NM | not measured |
| NYSDEC | New York State Department of Environmental Conservation |
| ORP | oxidation-reduction potential |
| PAHs | polycyclic aromatic hydrocarbons |
| PID | photo ionization detector |
| ppm | parts per million |
| PZ | piezometer |
| QC | quality control |
| TOR | top of riser |
| URS | URS Corporation |
| USEPA | United States Environmental Protection Agency |

EXECUTIVE SUMMARY

This annual report provides a summary of field activities, analytical results, and data interpretations associated with groundwater sampling, gauging of non-aqueous phase liquid (NAPL), and groundwater treatment system at the Hempstead Intersection Street Former Manufactured Gas Plant (MGP) site in 2012, including the initial presentation of data from Third Quarter and Fourth Quarter.

Groundwater monitoring and sampling events were conducted on March 20 – March 28, June 13 – June 25, October 8 – October 16 and December 17 – 28, 2012. This included measuring the depth to groundwater and NAPL thickness in approximately 56 wells. Groundwater samples were collected and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs). In the First and Third Quarter 2012, 20 wells were sampled and in the Second and Fourth Quarter 2012, 25 wells were sampled. The Third Quarter sampling normally occurs between July and September but was performed this year at the beginning of October. The activities and data from this event are representing the data for the Third Quarter 2012.

The following results were obtained from the groundwater sampling and NAPL monitoring events:

- The general direction of groundwater flow in 2012 in shallow, intermediate, and deep water-bearing zones was south at an average gradient of approximately 0.002 feet per foot (ft/ft) for intermediate and deep water bearing zones and approximately 0.005-0.006 ft/ft for the shallow water bearing zone.
- The 100 ug/L dissolved-phase plume extended approximately 1,320 ft south of the site boundary.
- Dense non-aqueous phase liquid (DNAPL) was observed in 7 wells during the First Quarter, 13 wells during the Second Quarter, 13 wells during the Third Quarter, and 13 existing wells during the Fourth Quarter of 2012. The wells with DNAPL are located within a parking lot immediately south of the site.

- Approximately 745 gallons of NAPL was recovered between April 2007 and July 2011. NAPL recovery was not performed during 2012.
- Based on a comparison between the Third Quarter and Fourth Quarter 2012 data and the previous 2012 data, the concentrations of total BTEX and total PAHs remained stable in most of the site monitoring wells.

The first of two oxygen delivery systems (System No. 2) was brought on line in October 2010 and promoted aerobic conditions in the aquifer near the system. The second of two oxygen delivery systems (System No. 1) was brought on line in April 2011 and has also promoted aerobic conditions in the aquifer near the system.

Bimonthly headspace and water quality parameters were collected in 2012 from the monitoring points for Systems No. 1 and No. 2 by Fenley & Nicol Environmental, Inc. (F&N). During the First Quarter, F&N monitored Systems No. 1 and No. 2 during six events. During the Second Quarter, F&N monitored System No. 1 during six events and System No. 2 during seven events. During the Third Quarter, F&N monitored System No. 1 during seven events and No. 2 during six events. During the Fourth Quarter, F&N monitored System No. 1 and No. 2 during five events.

The reported dissolved oxygen concentrations that were collected during the Second, Third, or Fourth Quarter 2012 were much lower than the First Quarter 2012 or in 2011 because the dissolved oxygen meter that was used was faulty. URS does not consider the data collected with this meter to be accurate based on the review of supplemental groundwater sampling data including monitoring well dissolved oxygen readings, well headspace readings, system operation and maintenance information, and the stable levels of contaminants in the groundwater sampling data. Upon reviewing all the supplemental data, URS believes that the oxygen delivery systems have maintained dissolved oxygen concentrations suitable for aerobic biodegradation during the year.

1.0 INTRODUCTION

This annual report summarizes potentiometric head measurements, NAPL thickness measurements, and groundwater quality sampling performed during the First, Second, Third, and Fourth Quarters of 2012 at the Hempstead Intersection Street Former MGP Site in Hempstead, NY (Figure 1).

Quarterly groundwater monitoring and bimonthly recovery of NAPL was initiated in April 2007. While separate reports are typically provided for the first three quarters of the year, the fourth quarter data get reported as part of the Annual Report. Separate URS Corporation (URS) reports have been issued for the First and Second Quarter activities performed in 2012 (URS 2012b, 2012c). Results of the Third and Fourth Quarter activities have not been presented in separate quarterly reports; instead, they are both included in this annual report. The Third Quarter sampling normally occurs between July and September but was performed this year at the beginning of October. The activities and data from this event are representing the data for the Third Quarter 2012.

URS performed the following activities in 2012:

- Measured the depth to groundwater and NAPL thickness in all accessible on site and off site monitoring wells (on March 20, June 13, October 8, and December 17, 2012), see Tables 1 and 2 and Figure 2.
- Collected groundwater samples from 20 or 25 monitoring wells for laboratory analysis. There were 20 well sampled on March 21 to March 28; 25 wells sampled on June 14 to June 25; 20 wells sampled on October 9 to October 16; and 25 wells sampled on December 18 to December 28, 2012), see Table 3.

Fenley & Nicol Environmental, Inc. (F&N) also performed water level measurements, well headspace monitoring with a multi-gas meter (RKI Eagle MultiGas meter), and dissolved oxygen (DO) measurements with a DO meter (YSI 55A) to monitor the performance of the groundwater treatment systems for System No. 1 and System No. 2 during 2012. This data is presented in Table 4.

F&N Reported that the YSI 55A used to collect the DO readings was malfunctioning during the Second, Third, and Fourth Quarter 2012 and the DO data from these measurements are not accurate.

2.0 FIELD ACTIVITIES

The field activities performed by URS for the First Quarter of 2012 included measuring the depth to groundwater and NAPL thickness in 59 monitoring wells and the collection of groundwater samples from 20 monitoring wells.

The field activities performed by URS for the Second Quarter of 2012 included measuring the depth to groundwater and NAPL thickness in 57 monitoring wells and the collection of groundwater samples from 25 monitoring wells.

The field activities performed by URS for the Third Quarter of 2012 included measuring the depth to groundwater and NAPL thickness in 57 monitoring wells and the collection of groundwater samples from 20 monitoring wells. The Third Quarter sampling normally occurs between July and September but was performed this year at the beginning of October. The activities during this event are presented as representing Third Quarter 2012.

The field activities performed by URS for the Fourth Quarter of 2012 included measuring of the depth to groundwater and NAPL thickness in 56 monitoring wells and the collection of groundwater samples from 25 monitoring wells.

Monitoring wells and piezometers used for these activities are listed in Table 1. Groundwater elevations and NAPL thickness values for 2012 are presented in Table 2. Results of groundwater sampling performed in 2012 are presented in Table 3.

F&N performed measurements to monitor the performance of the groundwater treatment Systems No. 1 and No. 2 approximately twice monthly during each quarter of 2012. F&N collected water level measurements with an electronic oil/water interface probe, well headspace monitoring data with an RKI Eagle multigas meter, and dissolved oxygen measurements with a YSI 55A dissolved oxygen meter. This data is presented in Table 4.

2.1 Groundwater Depth and NAPL Thickness Measurements

Depths to groundwater and NAPL thickness measurements for 2012 are listed in Table 2. An electronic oil/water interface probe was used to measure the depth to groundwater and check

for the presence of LNAPL. DNAPL thickness was measured using a weighted cotton string that absorbs oil.

2.2 NAPL Recovery

NAPL recovery was suspended in the Third Quarter of 2011 after the July 26, 2011 event because of the start of the In Situ Solidification (ISS) remediation project. Approximately 745 gallons of NAPL were recovered between 2007 and 2011.

2.3 Groundwater Sampling

Low-flow groundwater sampling methods were used to sample groundwater, which included 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, DO, temperature, and oxidation-reduction potential (ORP). Purging was continued until stable conditions were achieved (defined as three consecutive stable readings [i.e. ± 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 (United States Environmental Protection Agency [USEPA] Method 8260B) and PAHs (USEPA Method 8270C). Purge water is stored in an onsite storage tank for subsequent offsite disposal under a non-hazardous waste manifest. The Data Usability Summary Reports for the Third and Fourth Quarters are presented in Appendix A.

There were 25 monitoring wells sampled during the Fourth Quarter December 17 - 28, 2012 groundwater sampling event.

There were 20 monitoring wells sampled during the Third Quarter groundwater sampling event, which was conducted October 8 - 16, 2012. The sampling normally occurs between July and September but was performed this year at the beginning of October.

Results of groundwater sampling performed in 2012 are presented in Table 3.

2.4 Groundwater Treatment System Operation

National Grid has constructed two oxygen delivery systems to treat the groundwater plume. “System No. 1”, is located along Smith Street, a portion of the Long Island Railroad Right of Way, and a portion of Hilton Avenue and began operation in April 2011. “System No. 2”, extends from Mirschel Park in the east to Kensington Court in the west and began operation in October 2010. Figure 3 shows the locations of the two systems.

The performance of System No. 1 and System No. 2 was monitored during 2012 through the measurement of water levels, headspace gas, and water quality parameters in the groundwater approximately twice per month by F&N, see Table 4. F&N performed water level measurements with an electronic oil/water interface probe, well headspace monitoring with a multi-gas meter (RKI Eagle MultiGas meter), and DO measurements with a DO meter (YSI 55A). This data is presented in Table 4. These measurements were collected on the following dates:

- First Quarter measurements were taken for System No. 1 on January 6, January 24, February 13, February 24, March 9, and March 23 for a total of six events. System No. 2 measurements were collected on January 5, January 23, February 10, February 23, March 8, and March 22 for a total of six events.
- Second Quarter measurements were taken for System No. 1 on April 6, April 19, May 7, May 18, June 1, and June 18, a total of six events. System No. 2 measurements were collected on April 5, April 17, May 4, May 17, May 31, June 15, and June 27 for a total of seven events
- Third Quarter measurements were taken for System No. 1 on July 3, July 16, July 31, August 10, September 1, September 13, and September 28, a total of seven events; and were taken for System No. 2 on July 13, July 30, August 9, August 31, September 14, and September 27, for a total of six events.
- Fourth Quarter measurements were taken for System No. 1 on October 8, October 25, November 14, November 30, and December 13, a total of five events; and were taken for System No. 2 on October 8, October 24, November 13, November 29, and December 12, for a total of five events.

The full system data is included in Appendix B. URS believes that the reported dissolved oxygen measurements do not accurately represent DO levels in the area adjacent to the oxygen delivery systems. Please see Section 3.5 for a full discussion of results and conclusions.

3.0 RESULTS

3.1 Dissolved-Phase Plume

The extent of the dissolved-phase groundwater plume boundary is shown in Figures 4 and 5. Figure 4 shows the data for Third Quarter and Figure 5 shows the data for the Fourth Quarter 2012. The downgradient boundary of the plume, which is defined by total BTEX or PAH concentrations greater than 100 µg/L, extends approximately 1,320 feet south of the site boundary. Based on comparisons with the First and Second Quarters of groundwater monitoring data, the concentrations of total BTEX or PAHs in groundwater have remained relatively stable during the Third and Fourth Quarters.

For the Third Quarter 2012 data collected in early October, the concentrations of total BTEX or total PAHs in the furthest downgradient well pair (HIMW-015I/D) ranged from “not detected” (deep well, HIMW-015D) to 21 µg/L (intermediate well, HIMW-015I). The concentrations of total BTEX or total PAHs in wells located between the site and the HIMW-015 cluster varied from “not detected” to 3,345 µg/L (intermediate well, HIMW-020I), see Figure 4.

For the Fourth Quarter 2012 data collected in late December, the concentrations of total BTEX or total PAHs in the furthest downgradient well pair (HIMW-015I/D) ranged from “not detected” (deep well, HIMW-015D) to 18 µg/L (intermediate well, HIMW-015I). The concentrations of total BTEX or total PAHs in wells located between the site and the HIMW-015 cluster varied from “not detected” to 2,507 µg/L (intermediate well, HIMW-005I), see Figure 5.

There were five wells that displayed notable changes during the Third and Fourth Quarters. These are HIMW-005I and D, HIMW-020I, HIMW-024, and HIMW-025 and are discussed below:

- For HIMW-005I, total BTEX concentrations stayed relatively constant over the 100 µg/L threshold. Total PAH concentrations were increased by 900 µg/L to 3,319 µg/L in the Third Quarter and then decreased by a similar amount to 2,507 µg/L in the Fourth Quarter 2012. The changes in PAH concentrations primarily reflected changes in the naphthalene concentrations. The concentrations remained within historical ranges.

- For HIMW-005D, total BTEX concentrations stayed stable under the 100 µg/L threshold. Total PAH concentrations increased by about 300 µg/L from the Second to Third Quarter to 1,175 µg/L. The PAH concentrations were then stable from the Third to the Fourth Quarter. The concentrations remained within historical ranges.
- For HIMW-020I, total BTEX concentrations decreased from 279 µg/L to 130 µg/L, but stayed over the 100 µg/L threshold. Total PAH concentrations increased by about 1,000 µg/L (to 3,345 µg/L) in the Third Quarter and then decreased by about the same amount for the Fourth Quarter. The changes in PAH concentrations primarily reflected changes in the naphthalene concentrations. The concentrations remained within historical ranges.
- For HIMW-024, total BTEX and total PAH concentrations from the Second to Third Quarter decreased below the 100 µg/L threshold, then stayed stable during the Fourth Quarter.
- For HIMW-025, total BTEX increased to 223 µg/L in the Fourth Quarter. There was no sample analyzed for BTEX in the Third Quarter. Total PAH concentrations were stable.

From First to Fourth Quarters in 2012, there was an overall decrease in contaminant concentrations for monitoring wells where there were detectable levels of total BTEX or total PAHs. The most marked decreases were found at HIMW-005I, HIMW-005D, HIMW-012I, HIMW-020I, HIMW-024, and HIMW-025, with the biggest changes occurring for PAH at HIMW-005I and HIMW-005D (decreases of 1,390 µg/L and 1,412 µg/L, respectively) and for BTEX at HIMW-020I (decrease of 2,702 µg/L). There were a few wells with minor increases (< 20 µg/L) in contaminant concentrations that occurred over 2012, and one well, HIMW-025, with an increase of 211 µg/L for total BTEX concentrations; total PAHs were not detected or 1 µg/L. The majority of the increase for this well was seen because of an increase in the concentration of total xylene.

3.2 Potentiometric Heads and NAPL Thickness

Potentiometric heads and NAPL thickness measurements for 2012 are presented in Table 2. Potentiometric surface maps for shallow, intermediate and deep groundwater zones were developed using this data and are shown in Figures 6, 7, and 8 for Third Quarter, and Figures 9,

10, and 11 for Fourth Quarter. The data for 2012 indicates that the direction of groundwater flow within the well field was south at an average gradient of approximately 0.002 ft/ft for intermediate and deep water bearing zones and approximately 0.005-0.006 ft/ft for the shallow water bearing zones. Potentiometric surface maps for the First Quarter and Second Quarter are provided in the previous quarterly reports (URS 2012b, 2012c).

DNAPL was observed in 13 of the existing wells during the Fourth Quarter, 13 wells in the Third Quarter, 13 wells in the Second Quarter, and 7 wells in the First Quarter 2012. Figures 12 through 15 illustrate the thickness of DNAPL that was measured for the First, Second, Third, and Fourth Quarters of 2012. All of the wells where DNAPL was identified are within a parking lot that is immediately south of the site.

3.3 Groundwater Analytical Results

Groundwater analytical results from 2012 are summarized in Section 3.1 and Table 3. The Fourth and Third Quarter results are illustrated on Figures 4 and 5, respectively.

A Data Usability Summary Reports (DUSR) were prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B – Guidance for the Development of Data Usability Summary Reports, May 2010. An electronic copy of the DUSRs 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, except where noted in the DUSRs.

3.4 NAPL Recovery Volumes

Approximately 745 gallons of NAPL was recovered between April 2007 and July 2011. NAPL recovery was not performed during 2012.

3.5 Groundwater Treatment System Performance

Groundwater treatment system performance data for 2012, as collected and reported by F&N, is presented in Table 4.

During the First Quarter 2012, the average reported DO in System No. 1 monitoring points was 17.32 mg/L and 10.16 mg/L in System No. 2. The highest DO reading was 48.23 mg/L and the lowest reading was 0.45 mg/L. Historically, the range of values for the oxygen monitoring points was approximately 1 – 50 mg/L. During the Second, Third, and Fourth Quarter, DO measurements for both systems were lower; the highest reading in this period was 16.52 and the lowest was 0 mg/L. The reported DO concentrations dropped sharply in the Second Quarter and stayed low the rest of 2012. URS collected DO concentration measurements on January 15 and 16, 2013 to provide an independent check on the F&N measured DO levels and found the DO levels closer to the First Quarter values. The table below presents the F&N DO measurements averaged by quarter and by system. It also presents the URS January 2013 data as system averages, for purpose of comparison.

Comparing Average Dissolved Oxygen Readings by System

| | Average Dissolved Oxygen Concentrations (mg/L) | | | | |
|---------------------|--|----------------------------|----------------------------|----------------------------|------------------------------|
| | F&N 2012 | | | | URS |
| | 1 st Quarter | 2 nd Quarter | 3 rd Quarter | 4 th Quarter | 1 st Quarter 2013 |
| System No. 1 | 17.32 | 4.22 | 2.59 | 2.99 | 29.85 |
| System No. 2 | 10.16 | 4.34 | 2.62 | 3.07 | 19.91 |

After the January 2013 DO check was performed, F&N discovered a problem with the membrane on their YSI 55A meter and indicated this was the cause of the inaccurate measurements taken during the Second, Third and Fourth Quarters.

Since the F&N data was specifically collected to assess the system performance, but was found to be inaccurate for the Second through Fourth Quarters of 2012, URS reviewed

supplemental data that indicated that DO levels were much higher in the groundwater surrounding the oxygen delivery systems during this time.

During quarterly groundwater sampling events, DO is monitored and recorded as an indicator of well stability during low flow groundwater sampling. There are four monitoring wells in the groundwater sampling program that are adjacent to oxygen delivery system monitoring points. These are:

- HIMW-020 pair (S and I) is approximately 67 feet east of the MP-1-1 pair (S and D).
- HIMW-025 is 183 feet approximately downgradient of MP-1-6
- HIMW-023 is 60 feet approximately west of MP-2-2

Below is a table presenting the DO levels of the stabilized monitoring wells in the First Quarter 2012 and the average on the Second through Fourth Quarters 2012. The groundwater sampling DO values stayed relatively stable in the First Quarter 2012 as compared to the average of the Second through Fourth Quarters. For comparison, the average DO readings taken from the nearby monitoring points during the first quarter of 2012 (prior to experiencing DO meter errors) are presented and show results comparable to the nearby monitoring wells.

Low-Flow Groundwater Dissolved Oxygen readings (mg/L)

| Groundwater Monitoring Well near System | 1 st Quarter 2012 | Average 2 nd through 4 th Quarter 2012 | Adjacent Oxygen Delivery System Monitoring Point | Adjacent Oxygen Delivery System Monitoring Point Average Dissolved Oxygen Reading 4Q 2011/1Q2012 |
|---|------------------------------|--|--|--|
| HIMW-020S | 28.51 | 22.8 | MP-1-1S | 12.80 |
| HIMW-020I | 0.92 | 0.5 | MP-1-1D | 5.38 |
| HIMW-025 | 29.89 | 26.2 | MP-1-6 | 8.47 |
| HIMW-023 | 18.51 | 16.3 | MP-2-2 | 17.32 |

As the monitoring well DO measurements in the Second through Fourth Quarters are similar to the measurements taken during the First Quarter and correspond to monitoring point DO levels taken prior to the Second Quarter 2012, the First Quarter URS DO measurements are assumed to be representative of DO levels throughout 2012.

In Appendix B, the F&N Oxygen System Operation and Maintenance Measurements are presented. The systems received scheduled maintenance and were functioning properly throughout 2012. The running hours at the control panel and pressure at each delivery point were reported to be consistent throughout the year. The oxygen output of the systems was also consistent throughout the year.

Based on the groundwater sampling DO readings, the oxygen headspace readings, and the system operation and maintenance information, as well as the groundwater sampling data presented in Section 3.1, URS concludes that there was sufficient dissolved oxygen during 2012 to augment biodegradation of dissolved phase MGP compounds in groundwater.

System No. 1

The groundwater treatment System No. 1 started operation on April 27, 2011. F&N conduct bimonthly monitoring including measurement of water depth, DO concentration, and headspace vapors by photoionization detector (PID) monitoring. A summary of the data collected from the monitoring points in 2012 is presented on Table 4. As discussed above, the DO measurements are not accurate; however, DO measurements collected by URS in nearby monitoring wells maintained levels observed earlier, indicating maintenance of aerobic conditions needed for biological degradation of contaminants.

As mentioned in the 2011 annual report, some delivery well flows were reduced or turned off temporarily to address oxygen concentrations above the atmospheric value of 21% in delivery well headspaces. These modified delivery rates did not negatively affect the DO measurements in the monitoring points. However, on October 25 in the Fourth Quarter of 2012, in response to the erroneous low DO measurements, these wells were reactivated. No substantive changes in headspace oxygen were observed following this change with the exception of MP-1-2D during December only.

Two groundwater wells were installed downgradient of System No. 1 to help evaluate system performance. HIMW-025 is closest to the system and showed not detected to 12 µg/L in BTEX or total PAH concentrations for the First and Second Quarter. In the Third and Fourth Quarter, total PAH concentrations have stayed in this range, but the BTEX concentration rose in the Fourth Quarter to 223 µg/L. The further downgradient groundwater well HIMW-024 (located

about halfway between System No.1 and System No. 2) had a substantial drop in BTEX and total PAH concentrations after the First Quarter, indicating that the zone of oxygenated water has reached well HIMW-024 which is located approximately 400 feet downgradient of the oxygen delivery line. During the First Quarter, the BTEX and total PAH concentrations were 827 and 808 µg/L, respectively, and during the Fourth Quarter they were between 34 and 13 µg/L, respectively.

System No. 2

The groundwater treatment System No. 2 started operation on October 11, 2010. F&N conducts bimonthly monitoring including measurement of water depth, DO concentration, and headspace vapors by photoionization detector monitoring. A summary of the data collected by F&N from the monitoring points in 2012 is presented on Table 4. As discussed above, the DO measurements are not accurate; however, DO measurements collected by URS from nearby monitoring wells maintained levels observed earlier, indicating maintenance of aerobic conditions needed for biological degradation of contaminants.

As mentioned in the 2011 annual report, some delivery well flows were reduced or turned off temporarily to address oxygen concentrations above the atmospheric 21% in delivery well headspaces. These modified delivery rates did not negatively affect the DO measurements in the monitoring points. However, on October 25 in the Fourth Quarter of 2012, in response to the erroneous low DO measurements, these wells were reactivated. No substantive changes in headspace oxygen were observed following this change.

The two groundwater wells installed downgradient of this system to evaluate its performance (HIMW-022 and HIMW-023) were measured throughout the year. During the First Quarter, the BTEX and total PAH concentrations were between 17 and 45 µg/L and during the Fourth Quarter at between 3 and 26 µg/L, showing reductions in concentration of the dissolved hydrocarbons in this area.

4.0 SUMMARY

Following is a summary of the 2012 groundwater sampling, NAPL monitoring data, and groundwater treatment performance presented in this report:

- The general direction of groundwater flow in 2012 in shallow, intermediate, and deep water-bearing zones was south at an average gradient of approximately 0.002 ft/ft for intermediate and deep water bearing zones and approximately 0.005-0.006 ft/ft for the shallow water bearing zones.
- The 100 µg/L dissolved-phase plume extended up to approximately 1,320 feet south of the site boundary.
- Dense non-aqueous phase liquid (DNAPL) was observed in 13 existing wells during the Fourth Quarter of 2012, 13 wells during the Third Quarter, 13 wells during the Second Quarter, and 7 wells during the First Quarter. The wells were located within a parking lot immediately south of the site.
- Approximately 745 gallons of NAPL was recovered between April 2007 and July 2011. NAPL recovery was not performed during 2012.
- Based on a comparison of the Third and Fourth Quarter 2012 data and the previous data, the concentrations of total BTEX and total PAHs remained stable in most site monitoring wells.
- The first of two oxygen delivery systems (System No. 2), brought on line in October 2010, has promoted aerobic conditions in the aquifer near the system.
- The second of two oxygen delivery systems (System No. 1), brought on line in April 2011, has promoted aerobic conditions in the aquifer near the system.
- Bimonthly headspace and water quality parameters were collected from the monitoring points for Systems No. 1 and No. 2 by F&N. During the Fourth Quarter, F&N monitored Systems No. 1 and No. 2 during five events. During the Third Quarter, F&N monitored System No. 1 during seven events and System No. 2 during six events. During the Second Quarter, F&N monitored System No. 1 during six

events and System No. 2 during seven events. During the First Quarter, F&N monitored Systems No. 1 and No. 2 during six events.

- The reported DO concentrations that were collected by F&N during the Second, Third, or Fourth Quarter 2012 are considered inaccurate because of the use of a faulty DO meter. Based on supplemental groundwater sampling DO data collected by URS, well headspace readings, system operation and maintenance information, as well as the stable levels of contaminants in the groundwater sampling data, URS believes that the oxygen delivery systems have maintained DO concentrations suitable for aerobic biodegradation.

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- URS, 2008b. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the First Quarter of 2008 (January – March 2008) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* June.
- URS, 2008c. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Second Quarter of 2008 (April - June 2008) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* October.
- URS, 2009a. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Third Quarter of 2008 (July - September 2008) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* January.
- URS, 2009b. *2008 Annual Groundwater Sampling and NAPL Monitoring/Recovery Report for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* March.
- URS, 2009c. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the First Quarter of 2009 (January - March 2009) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* June.
- URS, 2009d. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Second Quarter of 2009 (April - June 2009) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* September.
- URS, 2009e. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Third Quarter of 2009 (July - September 2009) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* November.
- URS, 2010a. *2009 Annual Groundwater Sampling and NAPL Monitoring/Recovery Report for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* February.
- URS, 2010b. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the First Quarter of 2010 (January - March 2010) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* April.
- URS, 2010c. *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.* September.

- URS, 2010d. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Third Quarter of 2010 (July - September 2010) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* December.
- URS, 2010e. *2010 Annual Groundwater Sampling and NAPL Monitoring/Recovery Report for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* December.
- URS, 2011a. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the First Quarter of 2011 (January - March 2011) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* July.
- URS, 2011b. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Second Quarter of 2011 (April - June 2011) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* September.
- URS, 2011c. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Third Quarter of 2011 (July- September 2011) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* December.
- URS, 2012a. *2011 Annual Groundwater Sampling and NAPL Monitoring/Recovery Report for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* May.
- URS, 2012b. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the First Quarter of 2012 (January – March 2012) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* October.
- URS, 2012c. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Second Quarter of 2012 (April - June 2012) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* December.

TABLES

Table 1

Summary of 2012 Field Activities ^{(1), (2)}
Water Level Measurements, NAPL Thickness Measurements, and Water Quality Sampling
Hempstead Intersection Street Former MGP Site

| Well ID | Fourth Quarter (December 2012) ⁽³⁾ | | | Third Quarter (October 2012) ⁽³⁾ | | | Second Quarter (June 2012) | | | First Quarter (March 2012) | | |
|-----------|--|----------------|---------------|--|----------------|---------------|-------------------------------|----------------|---------------|-------------------------------|----------------|---------------|
| | Water Level | NAPL Thickness | Water Quality | Water Level | NAPL Thickness | Water Quality | Water Level | NAPL Thickness | Water Quality | Water Level | NAPL Thickness | Water Quality |
| HIMW-002S | X | X | | X | X | | X | X | | X | X | |
| HIMW-002I | X | X | | X | X | | X | X | | X | X | |
| HIMW-002D | X | X | | X | X | | X | X | | X | X | |
| HIMW-003S | X | X | X | X | X | | X | X | X | X | X | |
| HIMW-003I | X | X | X | X | X | | X | X | X | X | X | |
| HIMW-003D | X | X | X | X | X | | X | X | X | X | X | |
| HIMW-004S | X | X | | X | X | | X | X | | X | X | |
| HIMW-004I | X | X | | X | X | | X | X | | X | X | |
| HIMW-004D | X | X | | X | X | | X | X | | X | X | |
| HIMW-005S | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-005I | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-005D | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-008S | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-008I | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-008D | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-009S | X | X | | X | X | | X | X | | X | X | |
| HIMW-009I | X | X | | X | X | | X | X | | X | X | |
| HIMW-009D | X | X | | X | X | | X | X | | X | X | |
| HIMW-010S | X | X | | X | X | | X | X | | X | X | |
| HIMW-010I | X | X | | X | X | | X | X | | X | X | |
| HIMW-010D | | | | | | | | | | | | |
| HIMW-011S | X | X | | X | X | | | | | X | X | |
| HIMW-011I | X | X | | X | X | | X | X | | X | X | |
| HIMW-011D | X | X | | X | X | | X | X | | X | X | |
| HIMW-012S | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-012I | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-012D | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-013S | X | X | X | X | X | | X | X | X | X | X | |
| HIMW-013I | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-013D | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-014I | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-014D | X | X | X | X | X | | X | X | X | X | X | |
| HIMW-015I | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-015D | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-016S | X | X | | X | X | | X | X | | X | X | |
| HIMW-016I | X | X | | X | X | | X | X | | X | X | |
| HIMW-017S | X | X | | X | X | | X | X | | X | X | |
| HIMW-20S | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-20I | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-21 | X | X | | X | X | | X | X | | X | X | |
| HIMW-22 | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-23 | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-24 | X | X | X | X | X | X | X | X | X | X | X | X |
| HIMW-25 | X | X | X | X | X | X | X | X | X | X | X | X |
| PZ-02 | | | | | | | | | | | | |
| PZ-03 | | | | | | | | | | | | |
| IPR-14 | X | X | | X | X | | X | X | | X | X | |
| IPR-15 | X | X | | X | X | | X | X | | X | X | |
| IPR-16 | X | X | | X | X | | X | X | | X | X | |
| IPR-17 | X | X | | X | X | | X | X | | X | X | |
| IPR-18 | X | X | | X | X | | X | X | | X | X | |

Table 1

**Summary of 2012 Field Activities ^{(1), (2)}
Water Level Measurements, NAPL Thickness Measurements, and Water Quality Sampling
Hempstead Intersection Street Former MGP Site**

| Well ID | Fourth Quarter (December 2012) ⁽³⁾ | | | Third Quarter (October 2012) ⁽³⁾ | | | Second Quarter (June 2012) | | | First Quarter (March 2012) | | |
|-----------|--|----------------|---------------|--|----------------|---------------|-------------------------------|----------------|---------------|-------------------------------|----------------|---------------|
| | Water Level | NAPL Thickness | Water Quality | Water Level | NAPL Thickness | Water Quality | Water Level | NAPL Thickness | Water Quality | Water Level | NAPL Thickness | Water Quality |
| IPR-19S** | | | | | | | | | | | | |
| IPR-19D | X | X | | X | X | | X | X | | X | X | |
| IPR-20 | X | X | | X | X | | X | X | | X | X | |
| IPR-21 | X | X | | X | X | | X | X | | X | | |
| IPR-22 | X | X | | X | X | | X | X | | X | X | |
| IPR-23 | X | X | | X | X | | X | X | | X | X | |
| IPR-24 | X | X | | X | X | | X | X | | X | | |
| IPR-29 | X | X | | X | X | | X | X | | X | X | |
| IPR-30 | X | X | | X | X | | X | X | | X | | |
| OSMW-01 | | | | | | | X | X | | | | |
| OSMW-02 | | | | X | X | | | | | | | |
| OSMW-03 | | | | | | | | | | | | |

Notes:

- 1 Field marked with "X" indicates that the activity was performed.
- 2 Blank field indicates that the activity was not performed.
- 3 During the Third and Fourth Quarters, the stick up PVC risers at HIMW-002 S, I, and D were cut to grade. Water levels were collected, but are not usable because the locations were not resurveyed.
- * HIMW-10D was destroyed by sidewalk/driveway construction.
- ** IPR-19S is covered with cold patch and is inaccessible.

Table 2
Groundwater and NAPL Measurements
Fourth Quarter 2012
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 | Corrected Potentiometric Head ⁽¹⁾ |
|--------------------------|------------|------------------|----------------|----------------|----------------|------------|--------------------|--------------------|--|
| | | [ft amsl] | [ft] | [ft] | [ft] | [ft] | [ft] | [ft] | [ft amsl] |
| HIMW-002S ⁽²⁾ | 12/17/2012 | N/A | ND | 24.46 | ND | 39.8 | 0 | 0.00 | N/A |
| HIMW-002I ⁽²⁾ | 12/17/2012 | N/A | ND | 24.41 | ND | 88.7 | 0 | 0.00 | N/A |
| HIMW-002D ⁽²⁾ | 12/17/2012 | N/A | ND | 24.49 | ND | 110.8 | 0 | 0.00 | N/A |
| HIMW-003S | 12/17/2012 | 65.00 | ND | 18.26 | ND | 34.6 | 0 | 0.00 | 46.74 |
| HIMW-003I | 12/17/2012 | 64.94 | ND | 18.17 | ND | 85.4 | 0 | 0.00 | 46.77 |
| HIMW-003D | 12/17/2012 | 65.26 | ND | 19.03 | ND | 142.9 | 0 | 0.00 | 46.23 |
| HIMW-004S | 12/17/2012 | 72.74 | ND | 26.87 | ND | 41.6 | 0 | 0.00 | 45.87 |
| HIMW-004I | 12/17/2012 | 72.78 | ND | 26.74 | ND | 90.5 | 0 | 0.00 | 46.04 |
| HIMW-004D | 12/17/2012 | 72.65 | ND | 27.11 | ND | 177.0 | 0 | 0.00 | 45.54 |
| HIMW-005S | 12/17/2012 | 67.19 | ND | 20.99 | ND | 38.9 | 0 | 0.00 | 46.20 |
| HIMW-005I | 12/17/2012 | 67.22 | ND | 20.92 | ND | 91.8 | 0 | 0.00 | 46.30 |
| HIMW-005D | 12/17/2012 | 67.22 | ND | 21.57 | ND | 136.6 | 0 | 0.00 | 45.65 |
| HIMW-008S | 12/17/2012 | 65.04 | ND | 19.38 | ND | 36.9 | 0 | 0.00 | 45.66 |
| HIMW-008I | 12/17/2012 | 65.14 | ND | 19.50 | ND | 75.0 | 0 | 0.00 | 45.64 |
| HIMW-008D | 12/17/2012 | 64.93 | ND | 19.29 | ND | 114.7 | 0 | 0.00 | 45.64 |
| HIMW-009S | 12/17/2012 | 70.03 | ND | 23.81 | ND | 39.6 | 0 | 0.00 | 46.22 |
| HIMW-009I | 12/17/2012 | 69.93 | ND | 23.76 | ND | 80.4 | 0 | 0.00 | 46.17 |
| HIMW-009D | 12/17/2012 | 69.96 | ND | 23.91 | ND | 122.8 | 0 | 0.00 | 46.05 |
| HIMW-010S | 12/17/2012 | 71.60 | ND | 24.40 | ND | 39.2 | 0 | 0.00 | 47.20 |
| HIMW-010I | 12/17/2012 | 71.47 | ND | 24.13 | ND | 89.8 | 0 | 0.00 | 47.34 |
| HIMW-010D ⁽³⁾ | 12/17/2012 | 71.44 | NM | NM | NM | 136.0 | 0 | 0.00 | NM |
| HIMW-011S | 12/17/2012 | 71.62 | ND | 24.76 | ND | 40.2 | 0 | 0.00 | 46.86 |
| HIMW-011I | 12/17/2012 | 71.43 | ND | 24.57 | ND | 93.3 | 0 | 0.00 | 46.86 |
| HIMW-011D | 12/17/2012 | 71.39 | ND | 24.61 | ND | 123.6 | 0 | 0.00 | 46.78 |
| HIMW-012S | 12/17/2012 | 61.58 | ND | 17.16 | ND | 33.2 | 0 | 0.00 | 44.42 |
| HIMW-012I | 12/17/2012 | 61.59 | ND | 17.06 | ND | 74.5 | 0 | 0.00 | 44.53 |
| HIMW-012D | 12/17/2012 | 61.82 | ND | 18.71 | ND | 128.6 | 0 | 0.00 | 43.11 |
| HIMW-013S | 12/17/2012 | 72.83 | ND | 30.49 | ND | 48.8 | 0 | 0.00 | 42.34 |
| HIMW-013I | 12/17/2012 | 72.60 | ND | 30.28 | ND | 81.8 | 0 | 0.00 | 42.32 |
| HIMW-013D | 12/17/2012 | 72.53 | ND | 30.26 | ND | 122.3 | 0 | 0.00 | 42.27 |
| HIMW-014I | 12/17/2012 | 71.71 | ND | 29.48 | ND | 96.2 | 0 | 0.00 | 42.23 |
| HIMW-014D | 12/17/2012 | 71.59 | ND | 31.27 | ND | 152.0 | 0 | 0.00 | 40.32 |
| HIMW-015I | 12/17/2012 | 64.18 | ND | 24.99 | ND | 92.7 | 0 | 0.00 | 39.19 |
| HIMW-015D | 12/17/2012 | 63.96 | ND | 26.12 | ND | 152.6 | 0 | 0.00 | 37.84 |
| HIMW-016S | 12/17/2012 | 67.45 | ND | 21.16 | 28.91 | 34.4 | 0 | 5.50 | 46.29 |
| HIMW-016I | 12/17/2012 | 67.50 | ND | 21.14 | 77.16 | 82.7 | 0 | 5.50 | 46.36 |
| HIMW-017S | 12/17/2012 | 65.96 | ND | 20.36 | 34.60 | 36.7 | 0 | 2.10 | 45.60 |
| HIMW-020S | 12/17/2012 | 70.43 | ND | 25.29 | ND | 36.8 | 0 | 0.00 | 45.14 |
| HIMW-020I | 12/17/2012 | 70.30 | ND | 25.04 | ND | 74.8 | 0 | 0.00 | 45.26 |

Table 2
Groundwater and NAPL Measurements
Fourth Quarter 2012
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 | Corrected Potentiometric Head ⁽¹⁾ |
|------------------------|------------|------------------|----------------|----------------|----------------|------------|--------------------|--------------------|--|
| | | [ft amsl] | [ft] | [ft] | [ft] | [ft] | [ft] | [ft] | [ft amsl] |
| HIMW-021 | 12/17/2012 | NM | ND | 19.89 | 41.2 | 45.3 | 0 | 4.10 | NM |
| HIMW-022 | 12/17/2012 | NM | ND | 30.33 | ND | 64.4 | 0 | 0.00 | NM |
| HIMW-023 | 12/17/2012 | NM | ND | 30.49 | ND | 75.6 | 0 | 0.00 | NM |
| HIMW-024 | 12/17/2012 | NM | ND | 14.88 | ND | 55.0 | 0 | 0.00 | NM |
| HIMW-025 | 12/17/2012 | NM | ND | 17.26 | ND | 52.3 | 0 | 0.00 | NM |
| PZ-02 | 12/17/2012 | 72.96 | NM | NM | NM | 35.3 | NM | NM | NM |
| PZ-03 | 12/17/2012 | 64.58 | NM | NM | NM | 29.5 | NM | NM | NM |
| IPR-14 | 12/17/2012 | 66.93 | ND | 20.49 | ND | 44.4 | 0 | 0.20 | 46.44 |
| IPR-15 | 12/17/2012 | 67.93 | ND | 21.46 | ND | 44.4 | 0 | 0.00 | 46.47 |
| IPR-16 | 12/17/2012 | 69.49 | ND | 23.01 | 47.45 | 49.1 | 0 | 1.60 | 46.48 |
| IPR-17 | 12/17/2012 | 70.60 | ND | 24.01 | 53.86 | 54.1 | 0 | 0.25 | 46.59 |
| IPR-18 | 12/17/2012 | 66.87 | ND | 20.56 | ND | 50.0 | 0 | 0.00 | 46.31 |
| IPR-19S ⁽³⁾ | 12/17/2012 | 67.68 | NM | NM | NM | 45.1 | NM | NM | NM |
| IPR-19D | 12/17/2012 | 67.96 | ND | 21.62 | 89.91 | 89.9 | 0 | 0.01 | 46.34 |
| IPR-20 | 12/17/2012 | 66.70 | ND | 20.51 | 43.75 | 45.4 | 0 | 1.65 | 46.19 |
| IPR-21 | 12/17/2012 | 67.67 | ND | 21.38 | 39.46 | 45.0 | 0 | 5.50 | 46.29 |
| IPR-22 | 12/17/2012 | 66.33 | ND | 20.27 | 39.70 | 45.4 | 0 | 5.70 | 46.06 |
| IPR-23 | 12/17/2012 | 66.67 | ND | 20.51 | ND | 45.4 | 0 | 0.00 | 46.16 |
| IPR-24 | 12/17/2012 | 65.88 | ND | 19.87 | 42.1 | 44.4 | 0 | 2.30 | 46.01 |
| IPR-29 | 12/17/2012 | NM | ND | 19.89 | 45.2 | 49.7 | 0 | 4.50 | NM |
| IPR-30 | 12/17/2012 | NM | ND | 20.91 | NM | NM | 0 | 0.00 | NM |
| OSMW-01 | 12/17/2012 | 71.12 | NM | NM | NM | 42.2 | 0 | NM | NM |
| OSMW-02 | 12/17/2012 | 71.59 | NM | NM | NM | 45.2 | 0 | NM | NM |
| OSMW-03 | 12/17/2012 | 71.39 | NM | NM | NM | 44.7 | 0 | NM | NM |

Notes:

- (1) Potentiometric heads in wells containing LNAPL are corrected using a specific gravity = 0.96
- (2) PVC stick up risers on HIMW-002 S, I, and D were cut to grade in Third Quarter 2012. TOR elevations have not been resurveyed since riser levels were altered. Water levels were collected, but are not correctable.
- (3) HIMW-010D was destroyed in Third Quarter 2011. HIMW-019S is covered with cold patch and inaccessible.

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

**Dissolved-Phase Concentrations of Total BTEX and Total PAH Compounds
Data Collected in 2012
Hempstead Intersection Street Former MGP Site**

| Well ID | Fourth Quarter 2012 December 17 - December 28, 2012 | | Third Quarter 2012 October 8 - October 16, 2012 | | Second Quarter 2012 June 13 - June 25, 2012 | | First Quarter 2012 March 20 - March 28, 2012 | |
|-----------|--|---------------|--|---------------|--|---------------|---|-------------------|
| | BTEX [ug/L] | PAH [ug/L] | BTEX [ug/L] | PAH [ug/L] | BTEX [ug/L] | PAH [ug/L] | BTEX [ug/L] | PAH [ug/L] |
| HIMW-003D | ND | ND | | | ND | ND | | |
| HIMW-003I | ND | ND | | | ND | ND | | |
| HIMW-003S | ND | ND | | | ND | ND | | |
| HIMW-005D | 80 | 1,286 | 51 | 1,175 | 41 | 813 | 91 (DUP=92) | 2,698 (DUP=2,315) |
| HIMW-005I | 127 | 2,507 | 113 | 3,139 | 150 | 2,471 | 157 | 3,897 |
| HIMW-005S | ND | ND | ND (DUP ND) | ND (DUP ND) | ND | ND | ND | ND |
| HIMW-008D | ND | ND | ND | ND | ND | ND | ND | ND |
| HIMW-008I | ND | ND | ND | ND | ND | 1 | ND | ND |
| HIMW-008S | 13 | 1 | 11 | 26 | 6 | 25 | 3 | 15 |
| HIMW-012D | ND | ND | ND | ND | ND | ND | ND | ND |
| HIMW-012I | 53 | 113 | 50 | 138 | 68 | 135 | 78 | 223 |
| HIMW-012S | ND | 5 | ND | ND | ND | ND | ND | ND |
| HIMW-013D | 3 | 18 | 2 | 15 | 7 | 29 | 5 | 28 |
| HIMW-013I | 7 | 8 | 1 | 5 | 4 (DUP=5) | 13 (DUP=12) | 27 | 63 |
| HIMW-013S | ND | ND | | | ND | ND | | |
| HIMW-014D | ND | ND | | | ND | ND | | |
| HIMW-014I | 42 | 53 | 41 | 45 | 67 | 58 | 33 | 78 |
| HIMW-015D | ND | ND | ND | ND | ND | ND | ND | ND |
| HIMW-015I | 12 | 18 | 11 (DUP=10) | 21 (DUP=22) | 17 | 31 | 21 (DUP=22) | 60 (DUP=66) |
| HIMW-020I | 130 | 1,266 | 279 | 3,345 | 474 | 2,446 | 710 | 3,968 |
| HIMW-020S | ND (DUP=ND) | ND (DUP=ND) | ND | ND | ND (DUP=ND) | ND (DUP=ND) | 3 | ND |
| HIMW-022 | 26 | 16 | 1 | 3 | 83 | 91 | 45 | 17 |
| HIMW-023 | 3 | 4 | 15 | 19 | 3 | 7 | 30 | 43 |
| HIMW-024 | 34 | 13 | 30 | 14 | 125 | 134 | 827 | 808 |
| HIMW-025 | 223 (DUP=213) | ND (DUP=ND) | | 1 | 2 | 1 | 12 | ND |

Notes:

ND
ug/L

A blank field is "Not Sampled".
Not Detected.
micrograms per liter

**Table 4
Groundwater Treatment Performance Monitoring
First Quarter 2012
Hempstead Intersection Street Former MGP Site**

System No. 1

| ID | 1/6/2012 | | | 1/24/2012 | | | 2/13/2012 | | | 2/24/2012 | | | 3/9/2012 | | | 3/23/2012 | | | | | |
|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|--------------------|-----------|-----------|------------------|---------------|
| | DTW (ft) | DO (mg/L) | PID (ppm) | DTW (ft) | DO (mg/L) | PID (ppm) | DTW (ft) | DO (mg/L) | PID (ppm) | DTW (ft) | DO (mg/L) | PID (ppm) | DTW (ft) | DO (mg/L) | PID (ppm) | DTW (ft) | O2 Headspace (%O2) | DO (mg/L) | PID (ppm) | DO (mg/L) Middle | DO (mg/L) Top |
| MP-1-1S | 23.93 | 13.59 | 0.60 | 24.02 | 12.59 | 0.00 | 24.25 | 18.10 | 0.10 | 24.36 | 11.97 | 0.00 | 24.53 | 14.47 | 0.00 | 24.73 | 40.70 | 9.59 | 0.00 | NM | NM |
| MP-1-1D | 23.75 | 4.27 | 0.00 | 23.85 | 3.34 | 0.40 | 24.08 | 3.30 | 0.60 | 24.20 | 6.89 | 0.80 | 24.36 | 3.12 | 0.60 | 24.57 | 21.70 | 1.47 | 0.10 | 3.83 | 6.29 |
| MP-1-2S | 18.33 | 11.18 | 0.00 | 18.41 | 26.32 | 0.00 | 18.70 | 10.06 | 0.00 | 18.77 | 11.75 | 1.40 | 18.96 | 30.72 | 1.10 | 19.13 | 40.10 | 6.79 | 0.20 | NM | NM |
| MP-1-2D | 17.91 | 15.59 | 0.20 | 18.03 | 22.29 | 0.00 | 18.17 | 9.27 | 0.00 | 18.36 | 6.54 | 0.00 | 18.53 | 4.75 | 0.20 | 18.74 | 33.90 | 3.64 | 0.00 | 6.81 | 10.19 |
| MP-1-3S | 16.12 | 31.36 | 0.00 | 16.21 | 18.93 | 0.90 | 16.44 | 19.79 | 0.40 | 16.53 | 23.31 | 0.00 | 16.72 | 13.66 | 0.00 | 16.95 | 40.90 | 8.88 | 0.10 | NM | NM |
| MP-1-3D | 16.07 | 5.70 | 0.00 | 16.18 | 5.74 | 0.20 | 16.40 | 6.01 | 0.20 | 16.50 | 6.43 | 0.80 | 16.69 | 11.68 | 0.40 | 16.91 | 20.90 | 5.41 | 0.00 | 6.89 | 7.99 |
| MP-1-4S | 18.65 | 3.30 | 0.00 | 18.67 | 1.30 | 0.00 | 18.98 | 3.71 | 0.00 | 19.04 | 4.84 | 0.00 | 19.24 | 5.02 | 0.00 | 19.47 | 39.70 | 5.03 | 0.20 | NM | NM |
| MP-1-4D | 18.83 | 12.24 | 0.10 | 18.86 | 19.17 | 0.00 | 19.16 | 11.67 | 0.00 | 19.06 | 18.04 | 1.50 | 19.45 | 14.58 | 0.00 | 19.66 | 30.30 | 3.24 | 0.60 | 13.91 | 18.31 |
| MP-1-5 | 23.41 | 14.81 | 0.00 | 23.51 | 21.79 | 0.00 | 23.74 | 17.31 | 0.00 | 23.85 | 14.39 | 0.00 | 24.03 | 24.38 | 0.00 | 24.21 | 21.40 | 7.39 | 0.20 | NM | NM |
| MP-1-6 | 16.89 | 7.51 | 0.00 | 15.95 | 11.79 | 0.00 | 16.20 | 23.31 | 0.00 | 16.28 | 6.97 | 0.00 | 16.47 | 6.54 | 0.00 | 16.70 | 21.50 | 3.83 | 0.00 | NM | NM |
| MP-1-7 | 19.15 | 0.63 | 0.00 | 19.20 | 0.37 | 0.00 | 19.47 | 0.63 | 0.00 | 19.57 | 0.48 | 0.80 | 19.76 | 0.45 | 0.70 | 19.97 | 20.90 | 1.02 | 0.00 | NM | NM |
| MP-1-8 | 20.22 | 14.23 | 0.00 | 20.25 | 12.94 | 0.00 | 20.54 | 14.66 | 0.00 | 20.64 | 16.49 | 0.00 | 20.82 | 6.27 | 0.00 | 21.03 | 34.30 | 4.10 | 0.00 | NM | NM |

System No. 2

| ID | 1/5/2012 | | | 1/23/2012 | | | 2/10/2012 | | | 2/23/2012 | | | 3/8/2012 | | | 3/22/2012 | | | |
|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|--------------------|-----------|-----------|
| | DTW (ft) | DO (mg/L) | PID (ppm) | DTW (ft) | DO (mg/L) | PID (ppm) | DTW (ft) | DO (mg/L) | PID (ppm) | DTW (ft) | DO (mg/L) | PID (ppm) | DTW (ft) | DO (mg/L) | PID (ppm) | DTW (ft) | O2 Headspace (%O2) | DO (mg/L) | PID (ppm) |
| MP-2-1 | 26.98 | 10.31 | 0.00 | 27.11 | 11.33 | 0.10 | 27.25 | 10.01 | 0.00 | 27.34 | 8.69 | 0.50 | 27.55 | 8.69 | 0.00 | 27.75 | 24.40 | 8.69 | 0.00 |
| MP-2-2 | 28.07 | 18.21 | 0.00 | 28.21 | 22.88 | 0.00 | 28.37 | 19.93 | 0.00 | 28.46 | 10.90 | 0.00 | 28.67 | 22.75 | 0.00 | 28.87 | 20.30 | 6.03 | 0.00 |
| MP-2-3S | 28.19 | 21.12 | 0.00 | 28.30 | 6.57 | 0.40 | 28.47 | 7.44 | 0.00 | 28.58 | 7.97 | 0.90 | 28.76 | 7.34 | 0.00 | 28.98 | 20.90 | 1.65 | 0.20 |
| MP-2-3D | 28.40 | 22.68 | 0.00 | 28.51 | 26.97 | 0.00 | 28.70 | 24.49 | 0.90 | 28.77 | 17.28 | 0.00 | 28.94 | 24.41 | 0.60 | 29.18 | 39.80 | 1.71 | 0.00 |
| MP-2-4 | 16.94 | 46.51 | 0.20 | 17.07 | 21.40 | 0.00 | 17.23 | 23.32 | 0.10 | 17.31 | 18.49 | 0.00 | 17.53 | 12.67 | 0.20 | 17.74 | 27.90 | 12.67 | 0.00 |
| MP-2-5 | 15.08 | 38.11 | 0.00 | 15.23 | 28.91 | 0.40 | 15.46 | 48.23 | 0.00 | 15.52 | 27.84 | 0.20 | 15.72 | 11.27 | 0.00 | 15.95 | 30.80 | 6.04 | 0.00 |

Abbreviations

- DTW: Depth to water (feet)
- DO: Dissolved Oxygen concentration (milligrams per liter)
- PID: Photoionization Detector measurement of well headspace (parts per million)
- NA: Not Accessible
- NM: Not Measured

Note

(1) DO Headspace monitor oxygen detection limit is 40.0%; normal oxygen level in air is 20.9%

Table 4
Groundwater Treatment Performance Monitoring
Second Quarter 2012
Hempstead Intersection Street Former MGP Site

System No. 1

| ID | April 6, 2012 | | | | | April 19, 2012 | | | | | May 7, 2012 | | | | | May 18, 2012 | | | | | June 1, 2012 | | | | | June 18, 2012 | | | | | | | | | | |
|---------|---------------|---|-----------|---------------------------------|---------------------------------|------------------------------|----------|---|-----------|---------------------------------|---------------------------------|------------------------------|----------|---|-----------|---------------------------------|---------------------------------|------------------------------|----------|---|--------------|---------------------------------|---------------------------------|------------------------------|----------|---|-----------|---------------------------------|---------------------------------|------------------------------|----------|---|-----------|---------------------------------|---------------------------------|------------------------------|
| | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top |
| MP-1-1S | 24.95 | 40.00 | 18.00 | 2.97 | NM | NM | 24.25 | 39.20 | 13.00 | 3.09 | NM | NM | 25.98 | 40.00 | 5.10 | 2.69 | NM | NM | 25.30 | 40.00 | 3.40 | 1.96 | NM | NM | 25.04 | 39.90 | NM | 1.87 | NM | NM | 24.68 | 20.90 | 0.00 | 1.99 | NM | NM |
| MP-1-1D | 24.80 | 22.90 | 37.50 | 2.24 | 7.21 | 11.85 | 25.07 | 21.90 | 7.20 | 1.84 | 2.67 | 8.61 | 25.13 | 20.90 | 17.20 | 1.52 | 2.12 | 3.48 | 25.14 | 20.90 | 35.10 | 2.14 | 2.65 | 4.36 | 24.86 | 20.90 | NM | 1.86 | 2.01 | 3.00 | 24.51 | 20.90 | 0.00 | 2.34 | 1.69 | 2.22 |
| MP-1-2S | 19.40 | 40.00 | 7.50 | 4.52 | NM | NM | 19.24 | 23.40 | 4.10 | 4.74 | NM | NM | 19.25 | 29.70 | 0.00 | 2.27 | NM | NM | 19.71 | 28.80 | 0.00 | 3.65 | NM | NM | 19.45 | 40.00 | NM | 3.35 | NM | NM | 19.68 | 32.90 | 0.00 | 3.31 | NM | NM |
| MP-1-2D | 18.97 | 25.40 | 11.00 | 2.88 | 7.97 | 12.12 | 19.65 | 40.00 | 30.00 | 2.91 | 3.14 | 6.93 | 19.67 | 40.00 | 0.00 | 2.08 | 2.82 | 6.48 | 19.32 | 40.00 | 0.00 | 1.89 | 2.25 | 5.97 | 19.04 | 39.60 | NM | 1.84 | 2.05 | 2.39 | 18.67 | 24.80 | 0.00 | 1.44 | 2.01 | 3.25 |
| MP-1-3S | 17.14 | 40.00 | 227.90 | 4.56 | NM | NM | 17.44 | 40.00 | 69.90 | 4.73 | NM | NM | 17.46 | 40.00 | 0.00 | 4.04 | NM | NM | 17.48 | 40.00 | 0.00 | 3.88 | NM | NM | 17.25 | 40.00 | NM | 3.71 | NM | NM | 16.85 | 38.90 | 0.00 | 3.20 | NM | NM |
| MP-1-3D | 17.15 | 20.90 | 35.00 | 3.09 | 3.84 | 11.02 | 17.40 | 20.60 | 36.00 | 3.22 | 3.67 | 12.49 | 17.44 | 19.60 | 0.00 | 2.64 | 3.19 | 7.69 | 17.46 | 20.90 | 0.00 | 2.31 | 2.81 | 5.31 | 17.20 | 19.30 | NM | 2.51 | 2.89 | 3.59 | 16.83 | 19.70 | 0.00 | 2.35 | 2.54 | 3.18 |
| MP-1-4S | 19.68 | 38.20 | 2.70 | 3.64 | NM | NM | 19.98 | 40.00 | 0.00 | 3.99 | NM | NM | 19.95 | 40.00 | 6.70 | 2.87 | NM | NM | 19.98 | 40.00 | 184.70 | 2.68 | NM | NM | 19.76 | 40.00 | NM | 2.71 | NM | NM | 19.36 | 24.70 | 0.80 | 3.18 | NM | NM |
| MP-1-4D | 19.88 | 29.20 | 3.00 | 2.63 | 11.04 | 16.52 | 20.17 | 31.40 | 1.10 | 2.11 | 3.09 | 11.02 | 20.13 | 35.90 | 36.10 | 1.48 | 2.59 | 9.12 | 20.16 | 35.80 | 4.40 | 1.73 | 2.01 | 5.89 | 19.95 | 23.20 | NM | 2.06 | 1.99 | 3.09 | 19.54 | 28.10 | 5.50 | 1.90 | 2.12 | 3.15 |
| MP-1-5 | 24.46 | 21.70 | 10.30 | 1.67 | NM | NM | 24.73 | 1.30 | 4.50 | 1.25 | NM | NM | 24.76 | 20.90 | 21.70 | 1.97 | NM | NM | 24.80 | 20.90 | 114.10 | 2.40 | NM | NM | 24.52 | 20.90 | NM | 1.82 | NM | NM | 24.15 | 20.90 | 0.00 | 2.29 | NM | NM |
| MP-1-6 | 16.93 | 25.70 | 1.40 | 2.81 | NM | NM | 17.21 | 20.90 | 3.00 | 2.56 | NM | NM | 17.21 | 22.90 | 3.70 | 1.67 | NM | NM | 17.24 | 20.90 | 0.00 | 2.07 | NM | NM | 16.99 | 20.90 | NM | 2.08 | NM | NM | 16.60 | 20.90 | 0.00 | 2.26 | NM | NM |
| MP-1-7 | 20.20 | 20.90 | 2.40 | 1.47 | NM | NM | 20.52 | 20.90 | 0.00 | 1.60 | NM | NM | 20.43 | 20.80 | 0.00 | 1.45 | NM | NM | 20.51 | 20.90 | 0.00 | 1.40 | NM | NM | 20.26 | 20.90 | NM | 1.82 | NM | NM | 19.87 | 20.90 | 0.20 | 1.73 | NM | NM |
| MP-1-8 | 21.25 | 22.40 | 2.20 | 2.79 | NM | NM | 21.54 | 21.20 | 2.10 | 3.04 | NM | NM | 21.47 | 20.90 | 4.20 | 2.27 | NM | NM | 21.54 | 20.90 | 0.00 | 2.30 | NM | NM | 21.32 | 18.00 | NM | 2.61 | NM | NM | 20.92 | 19.70 | 0.00 | 2.02 | NM | NM |

System No. 2

| ID | April 5, 2012 | | | | | April 17, 2012 | | | | | May 4, 2012 | | | | | May 17, 2012 | | | | | May 31, 2012 | | | | | June 15, 2012 | | | | | June 27, 2012 | | | | | | | | | | | | |
|---------|---------------|---|-----------|------------------|------------------|----------------|----------|---|-----------|------------------|------------------|---------------|----------|---|-----------|------------------|------------------|---------------|----------|---|--------------|------------------|------------------|---------------|----------|---|-----------|------------------|------------------|---------------|---------------|---|-----------|------------------|------------------|---------------|-------|-------|-------|-------|------|------|----|
| | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO (mg/L) Bottom | DO (mg/L) Middle | DO (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO (mg/L) Bottom | DO (mg/L) Middle | DO (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO (mg/L) Bottom | DO (mg/L) Middle | DO (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO (mg/L) Bottom | DO (mg/L) Middle | DO (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO (mg/L) Bottom | DO (mg/L) Middle | DO (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO (mg/L) Bottom | DO (mg/L) Middle | DO (mg/L) Top | | | | | | | |
| MP-2-1 | 27.97 | 21.20 | 0.00 | 3.64 | NM | NM | 28.21 | 20.90 | 1.00 | 1.24 | NM | NM | 28.24 | 24.60 | 5.30 | 1.41 | NM | NM | 28.30 | 24.30 | 702.50 | 2.05 | NM | 1.41 | NM | 27.97 | 24.90 | 312.20 | 1.93 | NM | NM | 27.66 | 24.90 | 0.00 | 1.61 | NM | NM | 27.45 | 24.50 | 11.80 | 2.03 | NM | NM |
| MP-2-2 | 29.07 | 20.90 | 13.30 | 4.22 | 6.57 | 8.02 | 29.32 | 20.90 | 0.00 | 3.47 | 3.79 | 10.25 | 29.32 | 22.80 | 0.00 | 3.11 | 3.63 | 10.05 | 29.36 | 21.50 | 0.00 | 2.41 | 3.39 | 3.83 | 29.05 | 20.90 | 0.20 | 2.68 | 3.10 | 3.39 | 28.75 | 18.20 | 0.30 | 2.63 | 2.86 | 3.29 | 28.53 | 18.20 | 0.00 | 2.73 | 3.20 | 5.02 | |
| MP-2-3S | 29.19 | 21.70 | 2.50 | 1.81 | 1.42 | 15.24 | 29.45 | 21.40 | 0.40 | 2.40 | 3.29 | 10.44 | 29.42 | 21.50 | 0.00 | 2.89 | 3.29 | 7.77 | 29.45 | 20.90 | 1.10 | 2.32 | 1.57 | 2.51 | 29.17 | 21.10 | 0.00 | 3.41 | 2.18 | 2.53 | 28.84 | 20.90 | 0.50 | 2.40 | 2.51 | 2.81 | 28.63 | 20.50 | 0.00 | 2.21 | 2.08 | 3.30 | |
| MP-2-3D | 29.38 | 27.70 | 5.80 | 1.85 | 5.03 | 20.77 | 29.65 | 29.70 | 0.50 | 2.22 | 3.75 | 12.37 | 29.62 | 23.30 | 1.20 | 1.71 | 3.18 | 10.28 | 29.66 | 34.80 | 0.90 | 1.81 | 2.71 | 3.08 | 29.38 | 35.20 | 0.70 | 1.86 | 2.94 | 4.59 | 29.05 | 21.20 | 0.00 | 1.94 | 2.44 | 3.14 | 28.86 | 24.20 | 12.30 | 2.51 | 3.11 | 4.17 | |
| MP-2-4 | 17.92 | 24.90 | 70.10 | 3.16 | NM | NM | 18.18 | 28.50 | 0.70 | 2.47 | NM | NM | 18.15 | 23.70 | 0.00 | 2.08 | NM | NM | 18.18 | 24.20 | 0.00 | 2.31 | NM | NM | 17.91 | 22.70 | 0.20 | 2.19 | NM | NM | 17.57 | 20.90 | 0.10 | 1.74 | NM | NM | 17.37 | 32.10 | 2.10 | 2.44 | NM | NM | |
| MP-2-5 | 16.15 | 23.40 | 7.10 | 3.96 | 5.37 | 18.87 | 16.39 | 26.00 | 0.20 | 3.54 | 4.24 | 12.65 | 16.33 | 20.90 | 0.00 | 3.18 | 3.72 | 9.19 | 16.40 | 23.40 | 163.30 | 2.76 | 3.25 | 6.48 | 16.12 | 22.00 | 86.10 | 2.55 | 2.42 | 3.27 | 15.76 | 22.60 | 0.10 | 2.01 | 2.26 | 2.89 | 15.56 | 38.20 | 15.00 | 3.26 | 3.51 | 3.87 | |

Abbreviations

- DTW: Depth to water (feet)
- O₂: Oxygen measurement of well headspace (percent oxygen)
- PID: Photoionization Detector measurement of well headspace (parts per million)
- DO: Dissolved Oxygen concentration (percent or milligrams per liter)
- NA: Not Accessible
- NM: Not Measured

Note

- (1) DO Headspace monitor oxygen detection limit is 40.0%; normal oxygen level in air is 20.9%
- (2) DO measurements are inaccurate due to malfunctioning DO meter

Table 4
Groundwater Treatment Performance Monitoring
Third Quarter 2012
Hempstead Intersection Street Former MGP Site

System No. 1

| ID | July 3, 2012 | | | | | | July 16, 2012 | | | | | | July 31, 2012 | | | | | | August 10, 2012 | | | | | | September 1, 2012 | | | | | | September 13, 2012 | | | | | | September 28, 2012 | | | | | |
|---------|--------------|---|-----------|---------------------------------|---------------------------------|------------------------------|---------------|---|-----------|---------------------------------|---------------------------------|------------------------------|---------------|---|-----------|---------------------------------|---------------------------------|------------------------------|-----------------|---|-----------|---------------------------------|---------------------------------|------------------------------|-------------------|---|-----------|---------------------------------|---------------------------------|------------------------------|--------------------|---|-----------|---------------------------------|---------------------------------|------------------------------|--------------------|---|-----------|---------------------------------|---------------------------------|------------------------------|
| | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top |
| MP-1-1S | 24.56 | 32.80 | 0.00 | 2.29 | NM | NM | 24.79 | 40.00 | 0.00 | 2.46 | NM | NM | 25.08 | 31.90 | 0.30 | 2.33 | NM | NM | 25.30 | 33.40 | 0.40 | 2.35 | NM | NM | 25.63 | 22.20 | 0.00 | 2.42 | NM | NM | 25.83 | 30.20 | 0.00 | 2.64 | NM | NM | 25.92 | 29.70 | 0.00 | 2.55 | NM | NM |
| MP-1-1D | 24.42 | 20.90 | 0.00 | 2.50 | 2.06 | 2.69 | 24.62 | 20.90 | 0.00 | 2.27 | 1.84 | 2.63 | 24.93 | 20.40 | 0.00 | 2.23 | 2.12 | 2.19 | 25.11 | 18.70 | 0.00 | 2.15 | 1.58 | 1.84 | 25.46 | 20.90 | 0.00 | 2.41 | 1.80 | 1.68 | 25.66 | 20.10 | 0.00 | 2.43 | 1.82 | 2.68 | 24.77 | 19.40 | 0.00 | 2.49 | 1.91 | 2.07 |
| MP-1-2S | 18.98 | 33.80 | 0.40 | 3.38 | NM | NM | 19.18 | 32.40 | 0.00 | 2.71 | NM | NM | 19.51 | 29.20 | 0.00 | 3.40 | NM | NM | 19.73 | 24.30 | 0.00 | 3.40 | NM | NM | 20.02 | 22.90 | 0.00 | 2.71 | NM | NM | 20.22 | 31.90 | 0.50 | 2.78 | NM | NM | 20.32 | 36.70 | 0.70 | 3.05 | NM | NM |
| MP-1-2D | 18.60 | 19.20 | 0.00 | 1.71 | 2.35 | 3.43 | 18.80 | 19.90 | 0.60 | 1.57 | 2.26 | 2.56 | 19.12 | 18.60 | 0.00 | 1.74 | 2.17 | 3.21 | 19.32 | 17.60 | 0.20 | 1.75 | 2.44 | 3.25 | 19.64 | 20.90 | 0.00 | 1.94 | 2.45 | 3.01 | 19.86 | 20.70 | 0.00 | 1.69 | 2.45 | 3.76 | 19.94 | 20.70 | 0.00 | 1.77 | 2.25 | 3.17 |
| MP-1-3S | 16.75 | 26.70 | 0.20 | 3.31 | NM | NM | 16.98 | 21.20 | 0.00 | 3.54 | NM | NM | 17.30 | 24.50 | 0.00 | 3.27 | NM | NM | 17.47 | 23.40 | 0.20 | 3.49 | NM | NM | 17.83 | 25.90 | 0.00 | 3.11 | NM | NM | 18.00 | 23.70 | 0.00 | 2.54 | NM | NM | 18.12 | 22.70 | 0.90 | 3.34 | NM | NM |
| MP-1-3D | 16.73 | 20.90 | 0.00 | 2.63 | 2.88 | 3.18 | 16.98 | 21.10 | 0.00 | 2.43 | 2.68 | 2.75 | 17.26 | 20.90 | 0.00 | 2.55 | 2.37 | 2.91 | 17.45 | 20.90 | 0.00 | 2.34 | 2.62 | 3.16 | 17.80 | 21.90 | 0.00 | 2.21 | 2.02 | 1.91 | 17.98 | 22.20 | 0.00 | 3.13 | 2.56 | 3.37 | 18.10 | 19.10 | 0.00 | 2.94 | 2.76 | 3.52 |
| MP-1-4S | 19.29 | 24.80 | 2.10 | 2.97 | NM | NM | 19.53 | 21.70 | 0.00 | 2.87 | NM | NM | 19.83 | 20.90 | 0.20 | 2.94 | NM | NM | 20.02 | 20.90 | 0.00 | 2.70 | NM | NM | 20.37 | 21.60 | 0.10 | 2.31 | NM | NM | 20.45 | 23.90 | 0.00 | 2.63 | NM | NM | 20.67 | 26.70 | 0.00 | 2.69 | NM | NM |
| MP-1-4D | 19.48 | 25.20 | 0.30 | 1.86 | 2.73 | 3.58 | 19.65 | 21.90 | 0.90 | 2.45 | 2.59 | 3.67 | 20.02 | 20.90 | 0.20 | 2.09 | 2.28 | 2.54 | 20.22 | 21.50 | 0.40 | 2.10 | 2.63 | 3.03 | 20.57 | 21.70 | 0.00 | 1.72 | 2.61 | 3.15 | 20.78 | 22.40 | 0.40 | 1.93 | 2.84 | 3.83 | 20.85 | 18.90 | 0.40 | 1.83 | 2.22 | 3.25 |
| MP-1-5 | 24.07 | 20.90 | 0.00 | 2.52 | NM | NM | 24.26 | 20.90 | 11.40 | 2.94 | NM | NM | 24.57 | 20.90 | 0.00 | 2.48 | NM | NM | 24.76 | 20.10 | 0.00 | 2.46 | NM | NM | 25.12 | 20.90 | 0.00 | 2.33 | NM | NM | 25.32 | 17.30 | 0.00 | 2.87 | NM | NM | 25.43 | 16.70 | 0.00 | 2.26 | NM | NM |
| MP-1-6 | 16.54 | 20.90 | 0.00 | 2.41 | NM | NM | 16.76 | 20.90 | 0.00 | 2.51 | NM | NM | 17.07 | 20.90 | 0.00 | 2.34 | NM | NM | 17.25 | 20.90 | 0.00 | 2.43 | NM | NM | 17.60 | 17.20 | 0.20 | 2.26 | NM | NM | 17.77 | 21.70 | 0.30 | 2.63 | NM | NM | 17.90 | 20.90 | 0.30 | 2.45 | NM | NM |
| MP-1-7 | 19.81 | 20.90 | 0.00 | 2.06 | NM | NM | 20.05 | 20.60 | 0.00 | 1.77 | NM | NM | 20.36 | 20.90 | 0.00 | 1.92 | NM | NM | 20.53 | 20.90 | 0.00 | 2.77 | NM | NM | 20.89 | 20.70 | 0.00 | 2.11 | NM | NM | 21.08 | 20.90 | 0.00 | 2.51 | NM | NM | 21.15 | 18.90 | 0.00 | 1.96 | NM | NM |
| MP-1-8 | 20.83 | 20.10 | 0.00 | 2.87 | NM | NM | 21.10 | 20.90 | 0.30 | 2.75 | NM | NM | 21.40 | 30.80 | 0.00 | 2.51 | NM | NM | 21.60 | 20.50 | 0.00 | 2.93 | NM | NM | 21.94 | 20.90 | 0.00 | 2.38 | NM | NM | 22.13 | 20.90 | 0.00 | 2.50 | NM | NM | 22.17 | 19.60 | 0.00 | 2.52 | NM | NM |

System No. 2

| ID | July 13, 2012 | | | | | | July 30, 2012 | | | | | | August 9, 2012 | | | | | | August 31, 2012 | | | | | | September 14, 2012 | | | | | | September 27, 2012 | | | | | | | | | | | |
|---------|---------------|---|-----------|------------------|------------------|---------------|---------------|---|-----------|------------------|------------------|---------------|----------------|---|-----------|------------------|------------------|---------------|-----------------|---|-----------|------------------|------------------|---------------|--------------------|---|-----------|------------------|------------------|---------------|--------------------|---|-----------|------------------|------------------|---------------|----------|---|-----------|------------------|------------------|---------------|
| | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO (mg/L) Bottom | DO (mg/L) Middle | DO (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO (mg/L) Bottom | DO (mg/L) Middle | DO (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO (mg/L) Bottom | DO (mg/L) Middle | DO (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO (mg/L) Bottom | DO (mg/L) Middle | DO (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO (mg/L) Bottom | DO (mg/L) Middle | DO (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO (mg/L) Bottom | DO (mg/L) Middle | DO (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO (mg/L) Bottom | DO (mg/L) Middle | DO (mg/L) Top |
| MP-2-1 | 27.72 | 24.20 | 0.00 | 1.72 | NM | NM | 28.07 | 24.90 | 0.00 | 1.53 | NM | NM | 28.25 | 23.70 | 0.00 | 1.80 | NM | NM | 28.60 | 24.80 | 0.00 | 2.31 | NM | NM | 28.83 | 23.70 | 0.00 | 2.50 | NM | NM | 28.95 | 23.40 | 0.00 | 2.51 | NM | NM | 29.03 | 16.60 | 0.00 | 2.12 | 2.35 | 2.72 |
| MP-2-2 | 28.82 | 17.50 | 0.00 | 2.38 | 2.91 | 3.14 | 29.18 | 16.50 | 0.00 | 2.46 | 2.79 | 3.20 | 29.38 | 17.90 | 0.00 | 2.38 | 3.00 | 2.59 | 29.73 | 20.90 | 0.00 | 2.68 | 3.41 | 3.25 | 29.94 | 17.60 | 0.00 | 2.89 | 3.49 | 3.60 | 30.03 | 16.60 | 0.00 | 2.12 | 2.35 | 2.72 | 30.10 | 18.10 | 0.30 | 2.81 | 2.06 | 3.21 |
| MP-2-3S | 28.94 | 20.90 | 0.00 | 1.97 | 1.67 | 2.11 | 29.32 | 19.60 | 0.00 | 2.19 | 2.00 | 2.64 | 29.50 | 19.80 | 0.20 | 2.84 | 1.94 | 2.58 | 29.84 | 22.10 | 0.20 | 3.08 | 2.25 | 3.19 | 29.96 | 20.90 | 0.20 | 2.87 | 3.01 | 3.12 | 30.10 | 18.10 | 0.30 | 2.81 | 2.06 | 3.21 | 30.35 | 19.80 | 0.10 | 2.62 | 2.76 | 3.11 |
| MP-2-3D | 29.17 | 21.40 | 1.00 | 2.54 | 2.67 | 2.79 | 29.55 | 20.30 | 0.20 | 2.47 | 2.90 | 3.70 | 29.73 | 20.90 | 0.10 | 2.46 | 2.91 | 3.14 | 30.06 | 22.40 | 0.30 | 2.49 | 3.04 | 3.74 | 30.09 | 22.30 | 0.10 | 2.55 | 2.99 | 3.14 | 30.35 | 19.80 | 0.10 | 2.62 | 2.76 | 3.11 | 30.50 | 20.90 | 0.00 | 2.51 | NM | NM |
| MP-2-4 | 17.74 | 23.30 | 0.00 | 1.72 | NM | NM | 18.09 | 31.70 | 0.00 | 1.80 | NM | NM | 18.27 | 26.50 | 0.00 | 1.62 | NM | NM | 18.61 | 24.50 | 0.00 | 2.23 | NM | NM | 18.82 | 21.30 | 0.40 | 1.96 | NM | NM | 18.92 | 26.50 | 0.00 | 1.91 | NM | NM | 19.03 | 26.50 | 0.00 | 1.91 | NM | NM |
| MP-2-5 | 15.96 | 31.30 | 11.20 | 2.17 | 2.54 | 2.68 | 16.30 | 34.50 | 0.20 | 2.31 | 2.50 | 2.66 | 16.49 | 30.40 | 0.00 | 2.44 | 2.38 | 2.13 | 16.85 | 21.40 | 0.00 | 2.89 | 3.03 | 2.66 | 17.03 | 23.90 | 1.50 | 2.05 | 2.22 | 2.39 | 17.13 | 29.70 | 0.00 | 2.05 | 2.39 | 2.26 | 17.20 | 29.70 | 0.00 | 2.05 | 2.39 | 2.26 |

Abbreviations

- DTW: Depth to water (feet)
- O₂: Oxygen measurement of well headspace (percent oxygen)
- PID: Photoionization Detector measurement of well headspace (parts per million)
- DO: Dissolved Oxygen concentration (milligrams per liter)
- NA: Not Accessible
- NM: Not Measured

Note

- (1) DO Headspace monitor oxygen detection limit is 40.0%; normal oxygen level in air is 20.9%
- (2) DO measurements are inaccurate due to malfunctioning DO meter

**Table 4
Groundwater Treatment Performance Monitoring
Fourth Quarter 2012
Hempstead Intersection Street Former MGP Site**

System No. 1

| ID | October 8, 2012 | | | | | | October 25, 2012 | | | | | | November 14, 2012 | | | | | | November 30, 2012 | | | | | | December 13, 2012 | | | | | |
|---------|-----------------|---|-----------|---------------------------------|---------------------------------|------------------------------|------------------|---|-----------|---------------------------------|---------------------------------|------------------------------|-------------------|---|-----------|---------------------------------|---------------------------------|------------------------------|-------------------|---|-----------|---------------------------------|---------------------------------|------------------------------|-------------------|---|-----------|---------------------------------|---------------------------------|------------------------------|
| | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top |
| MP-1-1S | 25.97 | 40.40 | 0.00 | 2.95 | NM | NM | 26.28 | 40.80 | 0.00 | 2.92 | NM | NM | 26.03 | 40.00 | 0.20 | 3.24 | NM | NM | 26.63 | 40.30 | 0.00 | 3.10 | NM | NM | 26.75 | 23.50 | 0.00 | 3.31 | NM | NM |
| MP-1-1D | 25.81 | 20.90 | 0.00 | 2.99 | 2.22 | 3.16 | 26.15 | 20.90 | 0.00 | 3.01 | 2.11 | 2.34 | 25.87 | 20.90 | 0.00 | 2.97 | 2.77 | 2.99 | 26.46 | 20.90 | 0.00 | 2.59 | 2.50 | 2.99 | 26.61 | 20.90 | 0.00 | 3.35 | 2.70 | 2.81 |
| MP-1-2S | 20.42 | 33.80 | 0.50 | 3.52 | NM | NM | 20.70 | 31.60 | 0.40 | 3.68 | NM | NM | 20.55 | 31.60 | 0.30 | 3.07 | NM | NM | 21.00 | 33.80 | 0.90 | 3.66 | NM | NM | 21.16 | 30.70 | 0.80 | 3.55 | NM | NM |
| MP-1-2D | 20.09 | 20.60 | 0.00 | 2.40 | 2.66 | 3.50 | 20.31 | 20.50 | 0.30 | 2.01 | 2.56 | 2.78 | 20.16 | 20.60 | 0.30 | 2.18 | 2.61 | 2.81 | 20.62 | 20.50 | 0.00 | 2.44 | 3.46 | 3.91 | 20.76 | 40.10 | 0.30 | 3.42 | 3.58 | 3.52 |
| MP-1-3S | 18.26 | 20.90 | 0.40 | 3.58 | NM | NM | 18.48 | 20.90 | 0.10 | 3.15 | NM | NM | 18.57 | 20.90 | 0.00 | 3.35 | NM | NM | 18.80 | 20.90 | 0.50 | 3.38 | NM | NM | 18.93 | 20.90 | 0.40 | 3.02 | NM | NM |
| MP-1-3D | 18.24 | 20.90 | 0.30 | 3.61 | 3.13 | 3.71 | 18.49 | 19.70 | 0.10 | 3.37 | 3.44 | 3.70 | 18.54 | 20.90 | 0.00 | 3.41 | 3.54 | 3.69 | 18.77 | 20.90 | 0.30 | 3.26 | 3.38 | 3.89 | 18.89 | 20.90 | 0.20 | 3.16 | 3.27 | 3.51 |
| MP-1-4S | 20.84 | 22.90 | 0.00 | 3.12 | NM | NM | 21.04 | 20.90 | 0.00 | 3.20 | NM | NM | 21.05 | 22.40 | 0.00 | 3.45 | NM | NM | 21.33 | 23.50 | 0.00 | 2.83 | NM | NM | 21.45 | 31.40 | 0.00 | 2.01 | NM | NM |
| MP-1-4D | 21.02 | 20.60 | 0.20 | 2.02 | 2.78 | 4.35 | 21.22 | 20.50 | 0.00 | 2.23 | 2.39 | 2.98 | 21.21 | 20.60 | 0.10 | 2.14 | 2.43 | 3.28 | 21.48 | 20.10 | 0.70 | 2.70 | 1.87 | 3.20 | 21.57 | 20.90 | 0.50 | 1.89 | 2.52 | 2.80 |
| MP-1-5 | 25.53 | 16.20 | 0.00 | 3.51 | NM | NM | 25.80 | 16.70 | 0.00 | 3.43 | NM | NM | 25.88 | 17.90 | 0.00 | 3.71 | NM | NM | 26.11 | 16.10 | 0.00 | 3.31 | NM | NM | 26.25 | 20.90 | 0.00 | 3.72 | NM | NM |
| MP-1-6 | 18.02 | 17.50 | 0.10 | 2.72 | NM | NM | 18.26 | 16.90 | 0.20 | 2.49 | NM | NM | 18.34 | 17.60 | 0.30 | 2.68 | NM | NM | 18.57 | 17.00 | 0.60 | 2.55 | NM | NM | 21.89 | 17.00 | 0.00 | 2.37 | NM | NM |
| MP-1-7 | 21.34 | 18.90 | 0.00 | 3.54 | NM | NM | 21.55 | 20.10 | 0.00 | 2.42 | NM | NM | 21.58 | 20.70 | 0.00 | 2.91 | NM | NM | 21.84 | 18.10 | 0.00 | 2.24 | NM | NM | 21.91 | 18.00 | 0.00 | 2.41 | NM | NM |
| MP-1-8 | 22.38 | 20.90 | 0.00 | 2.16 | NM | NM | 22.62 | 20.90 | 0.00 | 2.62 | NM | NM | 22.65 | 20.90 | 0.00 | 2.61 | NM | NM | 22.89 | 20.90 | 0.00 | 2.45 | NM | NM | 23.02 | 20.90 | 0.60 | 0.00 | NM | NM |

System No. 2

| ID | October 8, 2012 | | | | | | October 24, 2012 | | | | | | November 13, 2012 | | | | | | November 29, 2012 | | | | | | December 12, 2012 | | | | | |
|---------|-----------------|---|-----------|---------------------------------|---------------------------------|------------------------------|------------------|---|-----------|---------------------------------|---------------------------------|------------------------------|-------------------|---|-----------|---------------------------------|---------------------------------|------------------------------|-------------------|---|-----------|---------------------------------|---------------------------------|------------------------------|-------------------|---|-----------|---------------------------------|---------------------------------|------------------------------|
| | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top | DTW (ft) | O ₂ Head-space (%O ₂) ⁽¹⁾ | PID (ppm) | DO ⁽²⁾ (mg/L) Bottom | DO ⁽²⁾ (mg/L) Middle | DO ⁽²⁾ (mg/L) Top |
| MP-2-1 | 29.07 | 23.40 | 0.00 | 2.90 | NM | NM | 29.29 | 24.30 | 0.00 | 2.85 | NM | NM | 29.38 | 24.50 | 0.00 | 2.48 | NM | NM | 29.61 | 23.10 | 0.00 | 2.72 | NM | NM | 29.76 | 24.70 | 0.00 | 2.59 | NM | NM |
| MP-2-2 | 30.15 | 17.20 | 0.00 | 3.52 | 3.66 | 4.04 | 30.37 | 18.50 | 0.00 | 2.63 | 3.84 | 3.97 | 30.55 | 17.70 | 0.00 | 3.15 | 3.38 | 3.24 | 30.47 | 18.50 | 0.00 | 2.53 | 2.91 | 3.07 | 30.86 | 17.50 | 0.00 | 3.05 | 3.26 | 3.70 |
| MP-2-3S | 30.26 | 19.40 | 0.50 | 3.40 | 2.36 | 2.74 | 30.50 | 20.90 | 0.40 | 2.90 | 2.27 | 3.66 | 30.52 | 20.30 | 0.10 | 2.95 | 2.70 | 2.89 | 30.81 | 21.10 | 0.30 | 3.33 | 2.98 | 3.46 | 30.95 | 19.30 | 0.60 | 3.80 | 3.61 | 3.83 |
| MP-2-3D | 30.46 | 20.10 | 0.40 | 2.41 | 3.04 | 3.97 | 30.72 | 20.90 | 0.40 | 2.65 | 2.96 | 3.31 | 30.76 | 21.10 | 0.00 | 2.39 | 2.91 | 3.04 | 30.00 | 20.90 | 0.40 | 3.08 | 2.61 | 3.41 | 31.02 | 40.60 | 0.90 | 3.06 | 3.33 | 3.58 |
| MP-2-4 | 19.00 | 27.70 | 0.10 | 2.42 | NM | NM | 19.25 | 26.50 | 0.00 | 2.33 | NM | NM | 19.29 | 22.40 | 0.00 | 2.08 | NM | NM | 19.53 | 26.10 | 0.00 | 2.39 | NM | NM | 19.69 | 20.90 | 0.00 | 1.89 | NM | NM |
| MP-2-5 | 17.22 | 28.90 | 0.00 | 2.73 | 2.81 | 2.87 | 17.48 | 29.90 | 0.00 | 3.21 | 3.37 | 4.46 | 17.48 | 25.60 | 0.00 | 2.36 | 2.80 | 2.99 | 17.75 | 29.50 | 0.00 | 2.55 | 2.99 | 2.96 | 17.89 | 20.90 | 0.00 | 2.57 | 2.78 | 2.88 |

Abbreviations

- DTW: Depth to water (feet)
- O₂: Oxygen measurement of well headspace (percent oxygen)
- PID: Photoionization Detector measurement of well headspace (parts per million)
- DO: Dissolved Oxygen concentration (milligrams per liter)
- NA: Not Accessible
- NM: Not Measured

Note

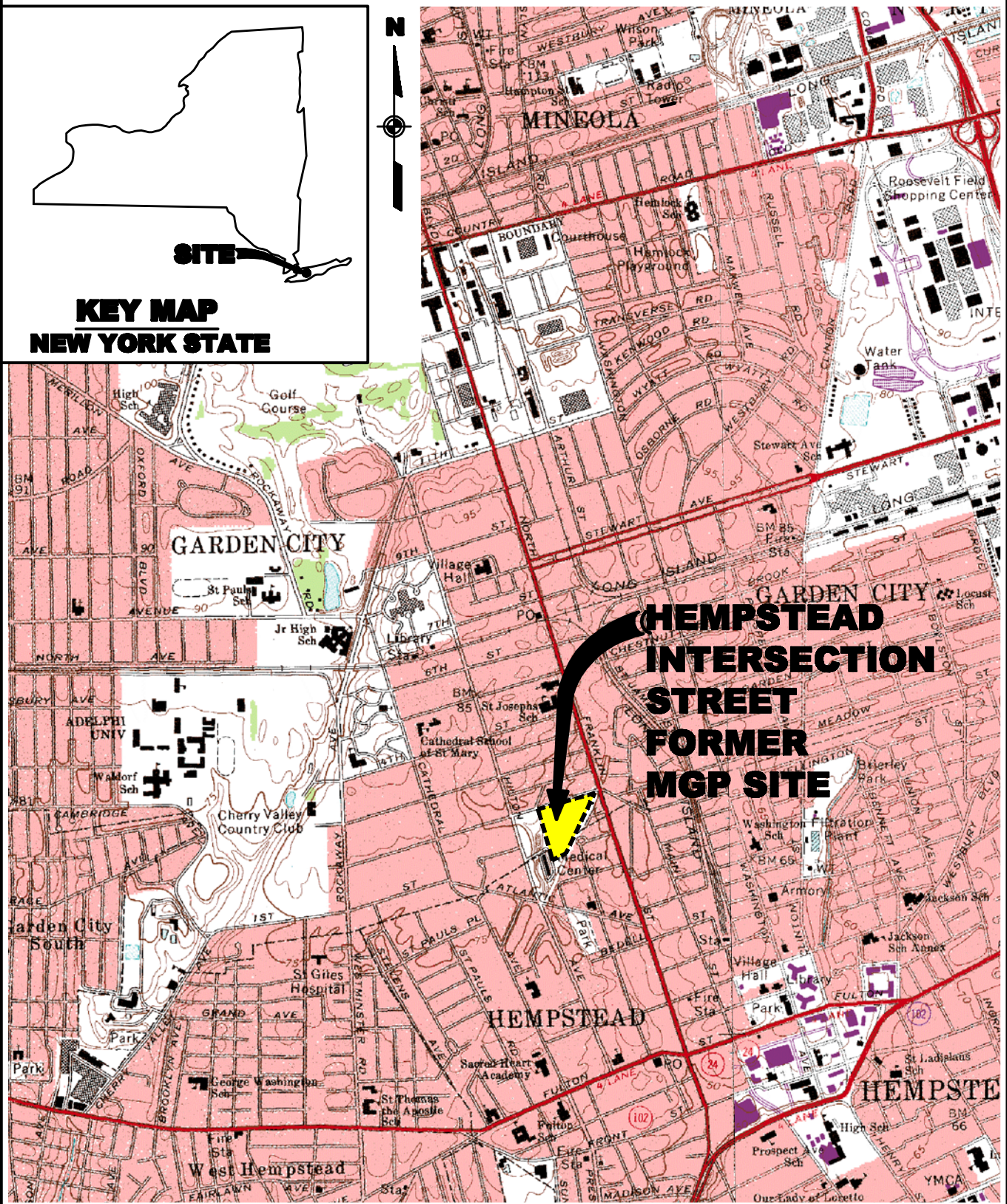
- (1) DO Headspace monitor oxygen detection limit is 40.0%; normal oxygen level in air is 20.9%
- (2) DO measurements are inaccurate due to malfunctioning DO meter

FIGURES

J:\1175065.0000\CAD\TASK2\HEMPSTEAD\GROUNDWATER MONITORING\FIGURE-1.dwg 3/13/09 - 1 RAL

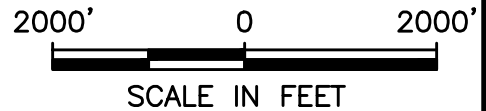


**KEY MAP
NEW YORK STATE**



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

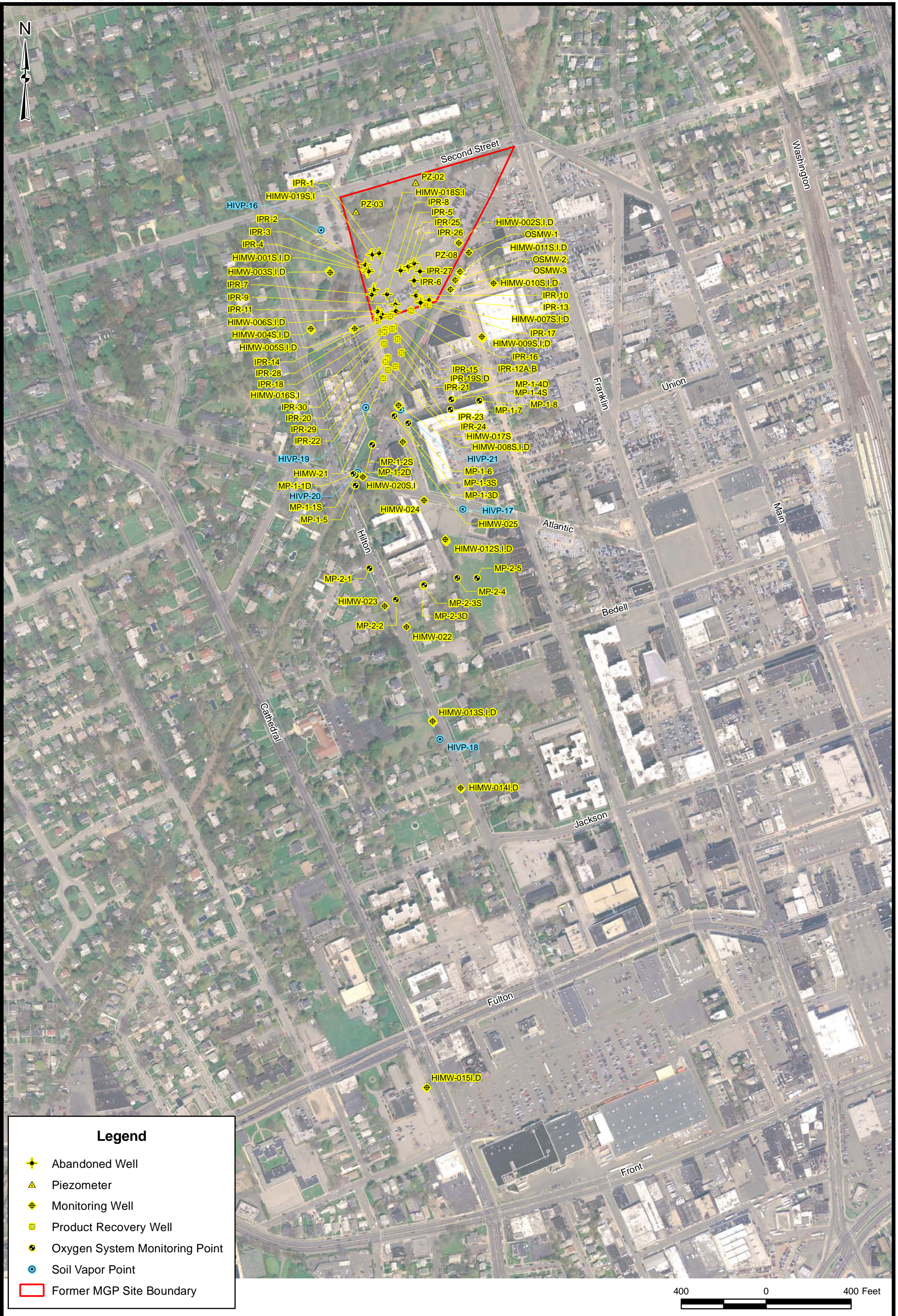
SOURCE:
USGS 7.5 MINUTE SERIES
TOPOGRAPHICAL QUADRANGLES:
FREEPORT, NY (1969)
LYNDBROOK, NY (1969)










URS Corporation

LOCATION MAP

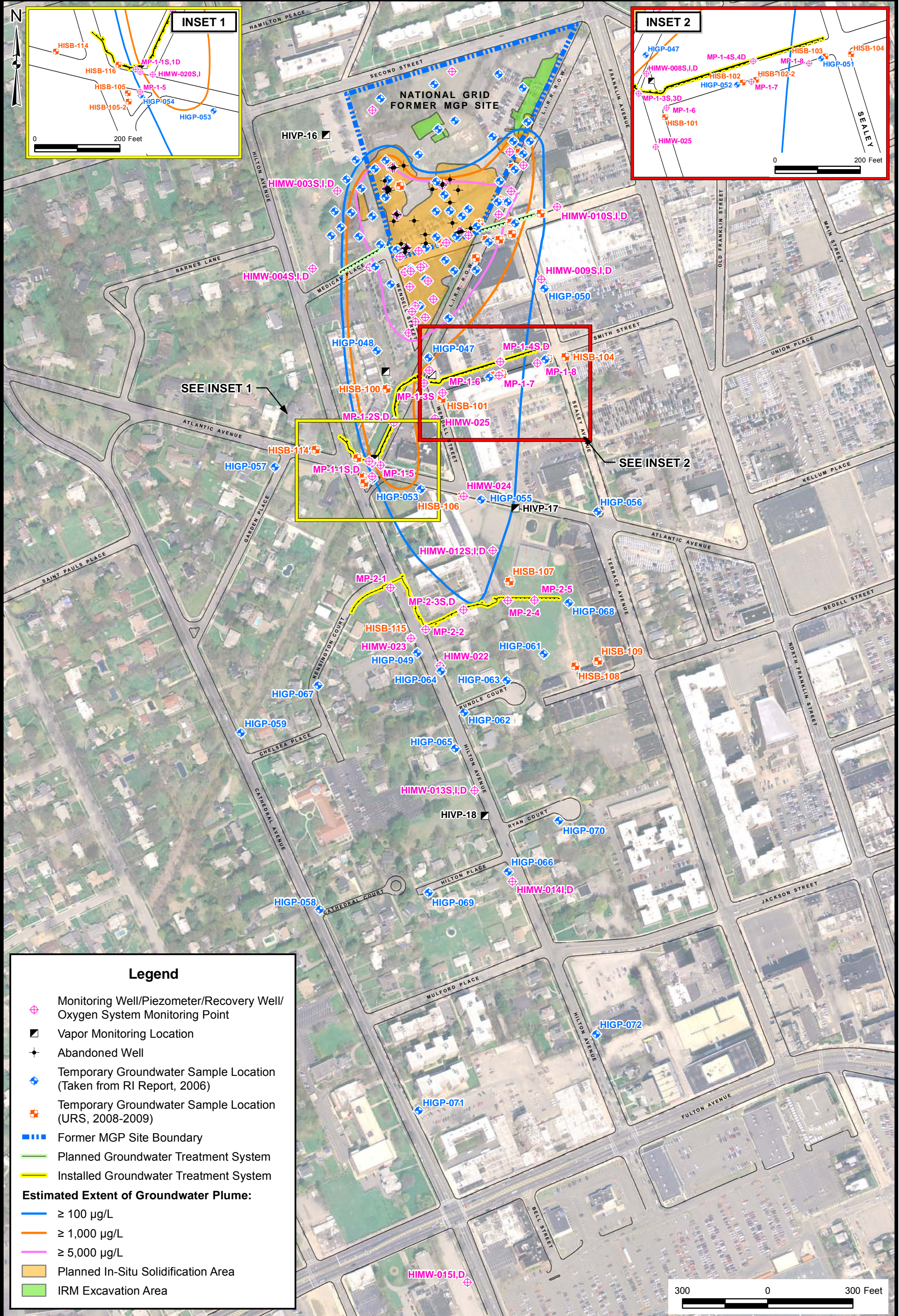
FIGURE 1



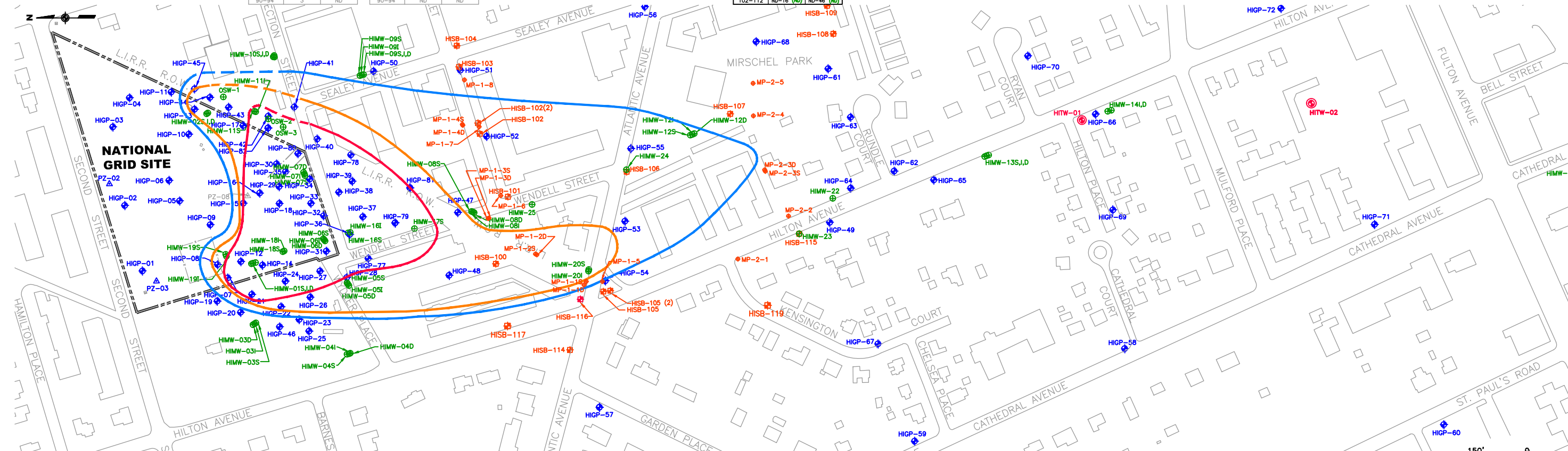
Legend

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

400 0 400 Feet

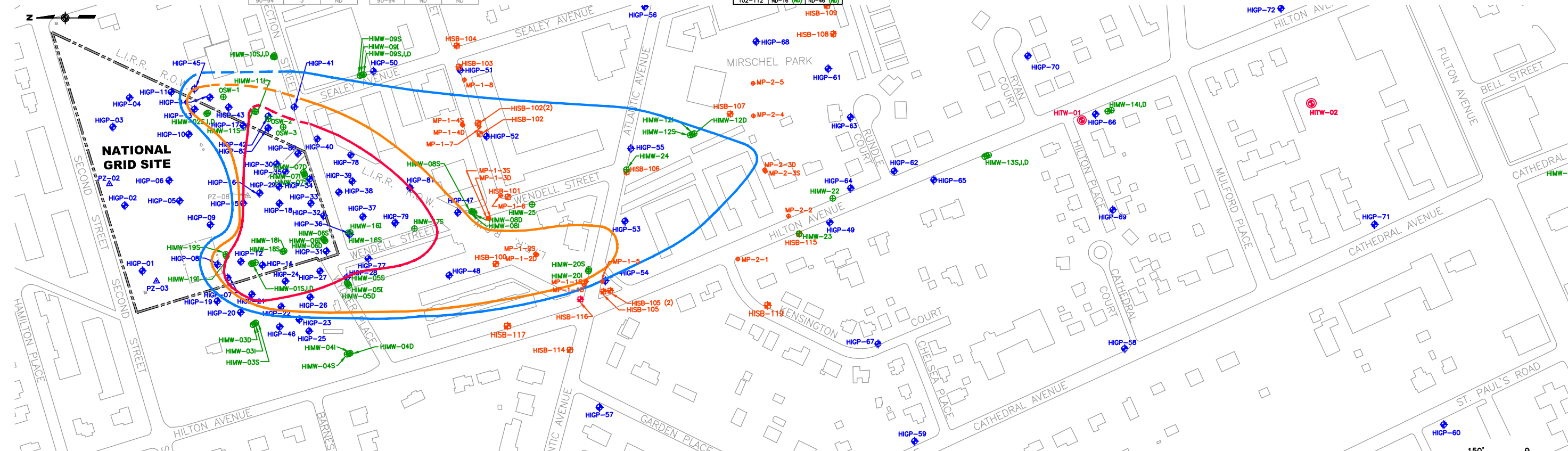


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|--|--|--|--|--|---|---|---|--|--|---|--|---|---|--|---|--|---|---|--|--|---|---|--|
| DGP-209 (11/11/08) DEPTH TOT. BTEX TOT. PAHs 34-38 1,709 1,066 40-44 4,980 645 50-54 3,859 1,297 70-74 2 3 | HIGP-40 (8/7/00) DEPTH TOT. BTEX TOT. PAHs 30-34 4,166 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-009S,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-015,I,D DEPTH TOT. BTEX TOT. PAHs 80-90 5-111 (11) ND-273 (21) 141.5-151.5 ND-94 (ND) ND-1 (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 90-94 100 451 100-104 292 604 | 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 | 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 28 ND 80-84 31 2 90-94 ND ND 100-104 ND ND | 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-119 (4/14/10) DEPTH TOT. BTEX TOT. PAHs 30-34 ND ND 40-44 ND ND 50-54 ND ND 60-64 ND ND 70-74 ND ND 80-84 ND ND 90-94 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 ND ND 60-64 247 912 70-74 59 34 80-84 14 69 90-94 24 221 100-104 1 ND | 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 | 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-01 (9/21/01) DEPTH TOT. BTEX TOT. PAHs 30-34 ND ND 40-44 ND ND 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 |
|--|--|--|--|--|---|---|---|--|--|---|--|---|---|--|---|--|---|---|--|--|---|---|--|



| | | | | | | | | | | | | | |
|--|--|---|---|---|--|---------------------|---|--|-----------------------------------|--|---|---|---|
| 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 | HIMW-13 (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 | MONITORING WELL PZ-02 (10/31/01) PZ-08 (10/31/01) HISB-114 (10/31/01) | PIEZOMETER PZ-02 (10/31/01) PZ-08 (10/31/01) | ABANDONED PIEZOMETER PZ-08 (10/31/01) | TEMPORARY GROUNDWATER SAMPLE LOCATION (URS, 2008-2009) | NOT DETECTED | LOCATION ID DEPTH (ft bgs) HIMW-015 I,D 80-90 5-111 (11) ND-273 (21) 141.5-151.5 ND-94 (ND) ND-1 (ND) | SAMPLE DATE CONCENTRATION UNITS are ug/L (OCTOBER 2012 CONCENTRATION) | 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 1,000 ug/L | 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 100 ug/L |
|--|--|---|---|---|--|---------------------|---|--|-----------------------------------|--|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|---|--|---|---|--|---|--|--|---|---|--|---|--|--|---|---|---|--|--|--|---|--|---|
| DGP-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 ND 60-64 7 63 90-94 ND 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 ND 60-64 30 39 90-94 2 2 | HIGP-66 (12/14/00) DEPTH TOT. BTEX TOT. PAHs 40-44 ND 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 ND 54-58 ND ND ND 62-66 1 7 72-76 29 84 81-85 126 95 | HIMW-009S,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-015,I,D DEPTH TOT. BTEX TOT. PAHs 80-90 5-111 (12) ND-273 (18) 141.5-151.5 ND-94 (ND) ND-1 (ND) | HISB-100 (11/19/08) DEPTH TOT. BTEX TOT. PAHs 30-34 ND 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 ND 45-49 ND ND ND 55-59 ND ND ND | HISB-108 (12/9/08) DEPTH TOT. BTEX TOT. PAHs 30-34 ND ND ND 40-44 ND ND ND 50-54 ND ND ND 60-64 ND ND ND 70-74 12 1 80-84 20 1 90-94 100 451 100-104 292 604 | HISB-116 (6/23/09) DEPTH TOT. BTEX TOT. PAHs 30-34 ND ND ND 40-44 ND 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 | HISB-117 (4/22/10) DEPTH TOT. BTEX TOT. PAHs 30-34 ND ND ND 40-44 ND ND ND 50-54 ND ND ND 60-64 ND ND ND 70-74 ND ND ND 80-84 2 32 90-94 ND 2 100-104 ND ND | 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 ND 40-44 ND 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 ND 40-44 ND ND ND 50-54 8 ND ND 60-64 19 ND ND 70-74 28 ND ND 80-84 31 2 90-94 ND ND ND | HISB-110 (4/22/10) DEPTH TOT. BTEX TOT. PAHs 30-34 ND ND ND 40-44 ND ND ND 50-54 ND ND ND 60-64 ND ND ND 70-74 ND ND 2 80-84 2 32 90-94 ND 2 100-104 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 ND ND ND 60-64 560 2,941 70-74 59 34 80-84 14 69 90-94 24 221 100-104 1 ND | HISB-114 (12/23/08) DEPTH TOT. BTEX TOT. PAHs 30-34 ND ND ND 40-44 ND ND ND 50-54 ND ND ND 60-64 ND ND ND 70-74 ND ND ND 80-84 ND ND ND 90-94 ND ND ND | HISB-119 (4/14/10) DEPTH TOT. BTEX TOT. PAHs 30-34 ND ND ND 40-44 ND ND 2 50-54 ND ND 1 60-64 ND ND ND 70-74 ND ND 2 80-84 ND ND ND 90-94 ND ND 4 100-104 ND ND 16 ND 4 | HISB-102(2) (1/8/09) DEPTH TOT. BTEX TOT. PAHs 30-34 423 859 40-44 464 274 50-54 349 852 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-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 69 90-94 56 67 | HTW-01 (9/21/01) DEPTH TOT. BTEX TOT. PAHs 30-34 ND ND ND 40-44 ND ND ND 50-54 288 265 60-64 125 133 70-74 1,411 1,153 80-84 123 69 90-94 56 67 | HTW-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 |
|--|--|--|--|---|--|---|---|--|---|--|--|---|---|--|---|--|--|---|---|---|--|--|--|---|--|---|



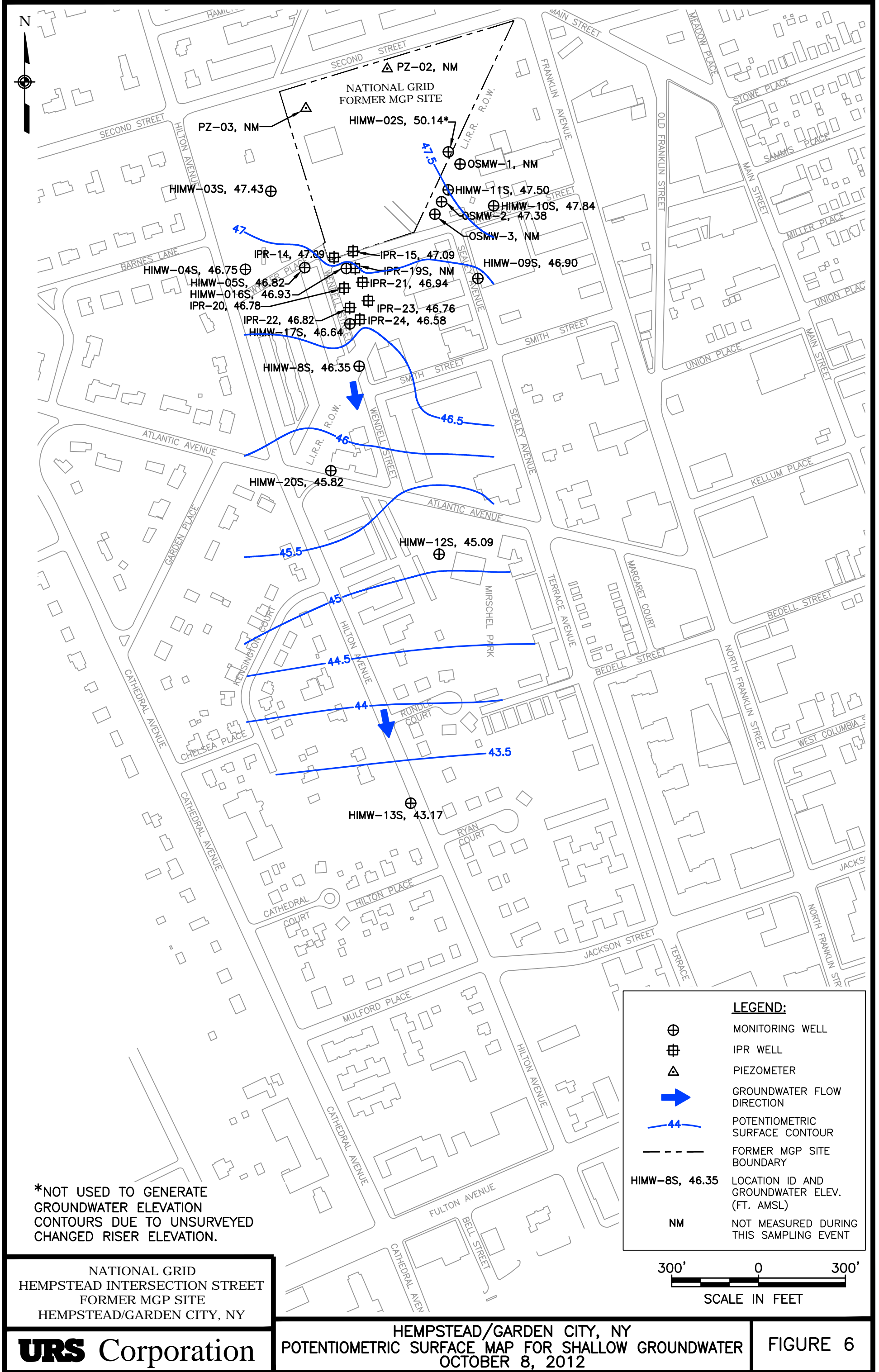
| | | | | | |
|--|--|---|---|--|---|
| HTW-02 (red circle with cross) TEMPORARY GROUNDWATER MONITORING WELL (TAKEN FROM RI REPORT, 2006) | HIMW-13 (green circle) MONITORING WELL | LOCATION ID: HIMW-015 I,D | EXISTING HOUSE OR BUILDING (black outline) | ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 1,000 ug/L (orange line) | ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 100 ug/L (blue line) |
| HIGP-53 (blue circle with cross) TEMPORARY GROUNDWATER SAMPLE LOCATION (TAKEN FROM RI REPORT, 2006) | PZ-02 (blue triangle) PIEZOMETER | DEPTH (ft bgs): 80-90 5-111 (12) ND-273 (18) 141.5-151.5 ND-94 (ND) ND-1 (ND) | NATIONAL GRID PROPERTY BOUNDARY (dashed line) | ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 5,000 ug/L (red line) | ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 1,000 ug/L (dashed orange line) |
| MP-2-1 (orange circle with cross) MONITORING WELL | PZ-08 (grey triangle) ABANDONED PIEZOMETER | CONCENTRATION UNITS ARE ug/L (DECEMBER 2012 CONCENTRATION) | | | |
| | HISB-114 (red circle with cross) TEMPORARY GROUNDWATER SAMPLE LOCATION (URS, 2008-2009) | | | | |
| | ND NOT DETECTED | | | | |

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

**EXTENT OF DISSOLVED-PHASE
PLUME AND GROUNDWATER
ANALYTICAL RESULTS - DECEMBER 2012**

FIGURE 5

J:\1175055\00000\CAU\0461\1\ASKZ\HEMPSTEAD\GROUNDWATER_MONITORING\FOURTH_QUARTER_2012\Figure_5.dwg 3/1/13 5:06 PM



*NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS DUE TO UNSURVEYED CHANGED RISER ELEVATION.

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

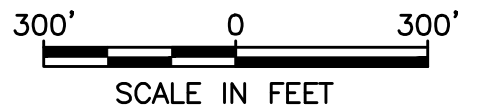
URS Corporation

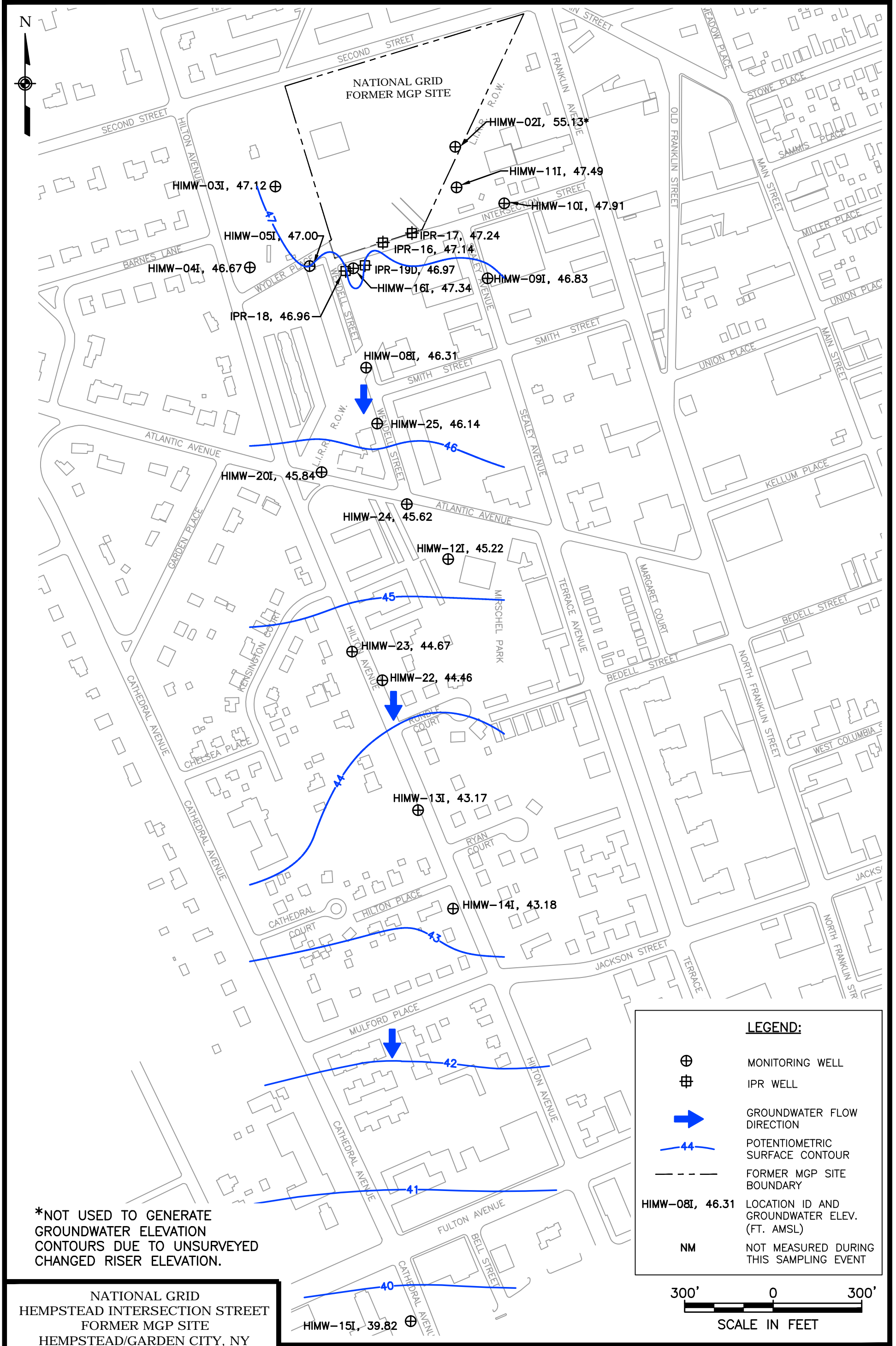
HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER
OCTOBER 8, 2012

FIGURE 6

LEGEND:

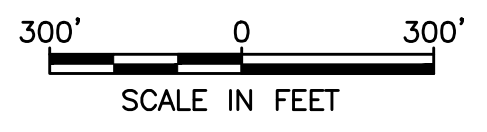
- ⊕ MONITORING WELL
- ⊞ IPR WELL
- △ PIEZOMETER
- ➔ GROUNDWATER FLOW DIRECTION
- 44— POTENTIOMETRIC SURFACE CONTOUR
- - - FORMER MGP SITE BOUNDARY
- HIMW-8S, 46.35 LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL)
- NM NOT MEASURED DURING THIS SAMPLING EVENT





*NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS DUE TO UNSURVEYED CHANGED RISER ELEVATION.

| LEGEND: | |
|-----------------|--|
| ⊕ | MONITORING WELL |
| ⊞ | IPR WELL |
| ➔ | GROUNDWATER FLOW DIRECTION |
| —44— | POTENTIOMETRIC SURFACE CONTOUR |
| - - - | FORMER MGP SITE BOUNDARY |
| HIMW-08I, 46.31 | LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL) |
| NM | NOT MEASURED DURING THIS SAMPLING EVENT |

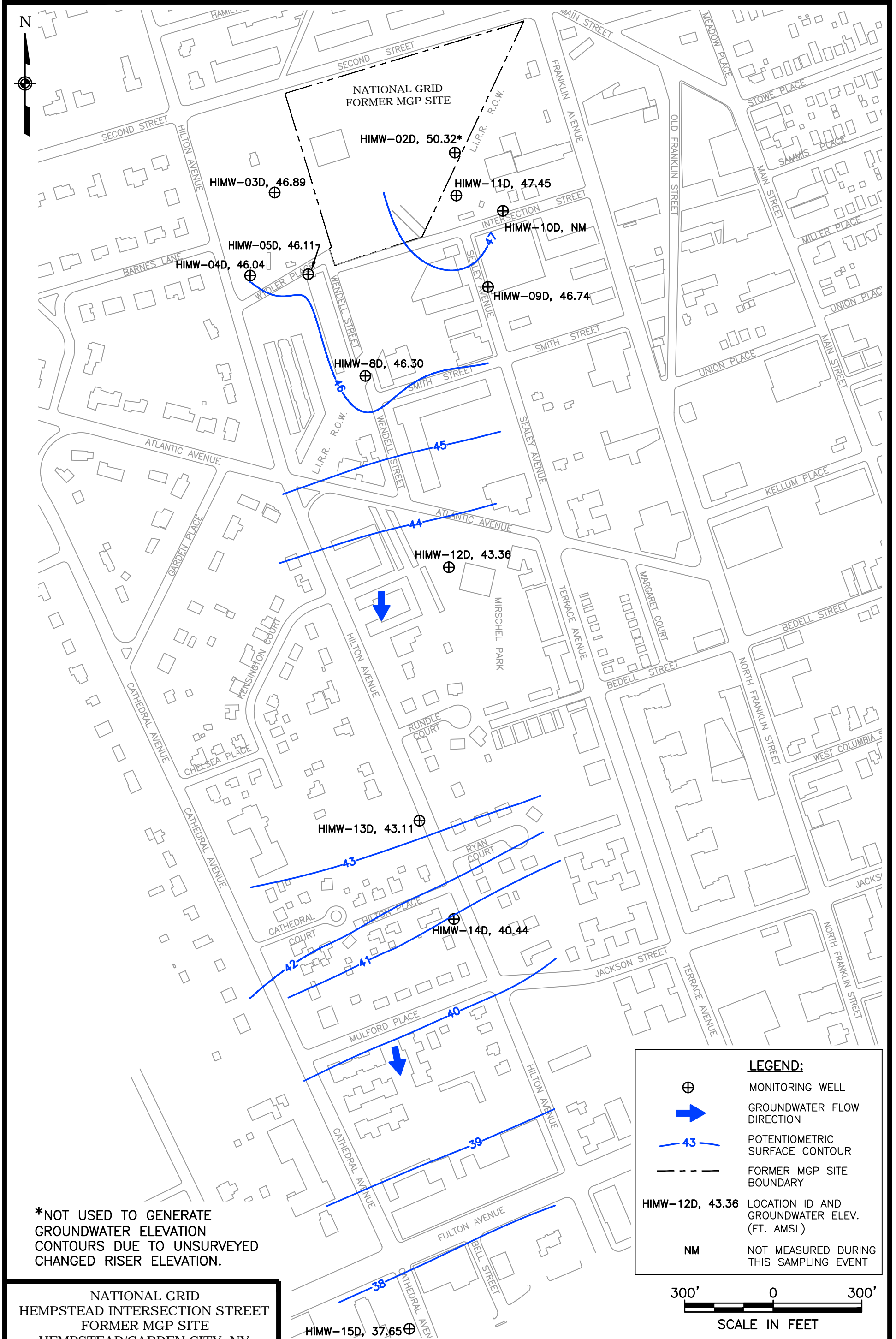


NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY

HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER
OCTOBER 8, 2012

FIGURE 7



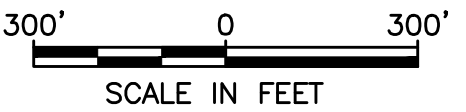


*NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS DUE TO UNSURVEYED CHANGED RISER ELEVATION.

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

LEGEND:

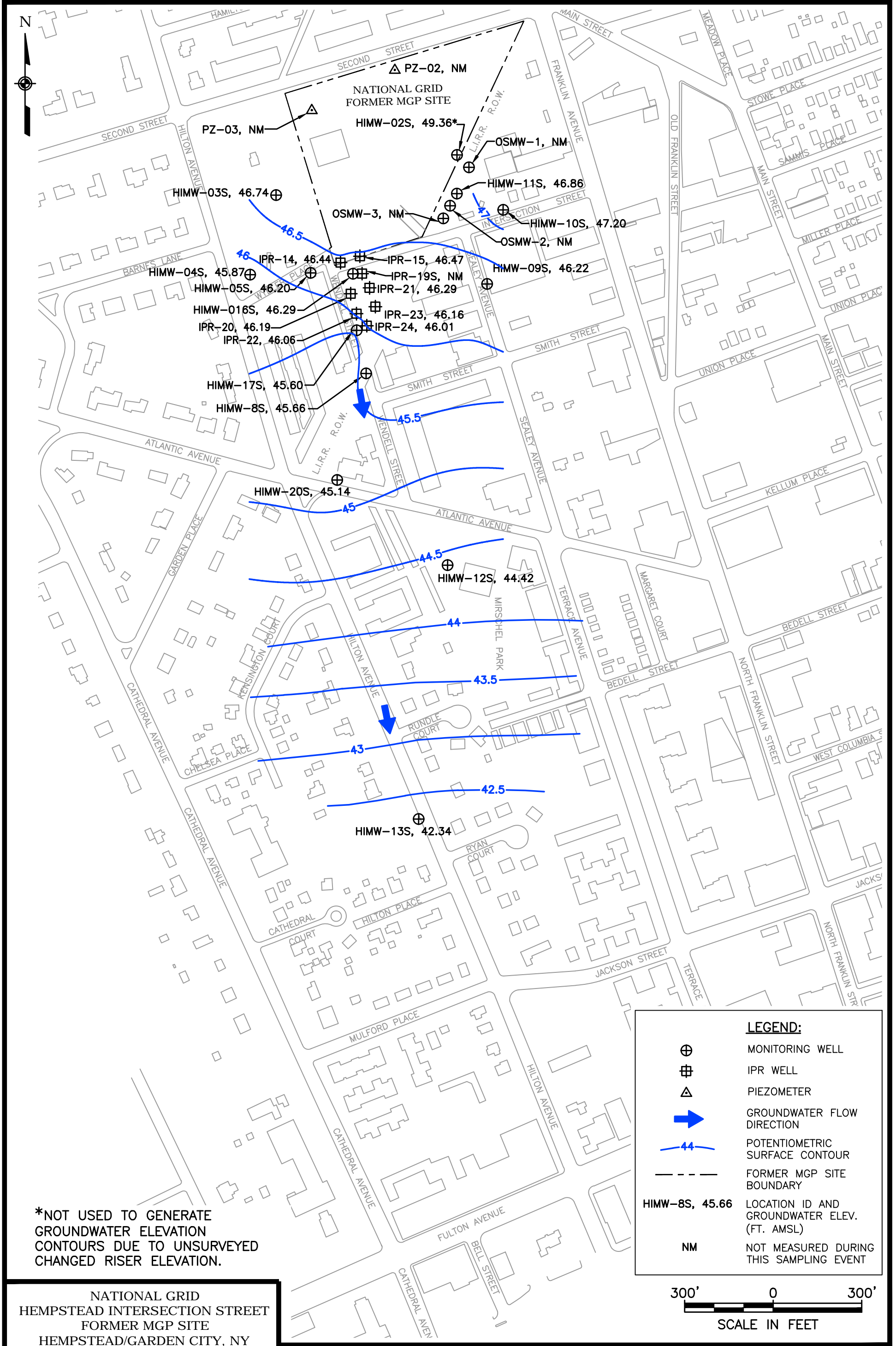
- MONITORING WELL
- GROUNDWATER FLOW DIRECTION
- POTENTIOMETRIC SURFACE CONTOUR
- FORMER MGP SITE BOUNDARY
- HIMW-12D, 43.36** LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL)
- NM** NOT MEASURED DURING THIS SAMPLING EVENT



URS Corporation

HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER
OCTOBER 8, 2012

FIGURE 8



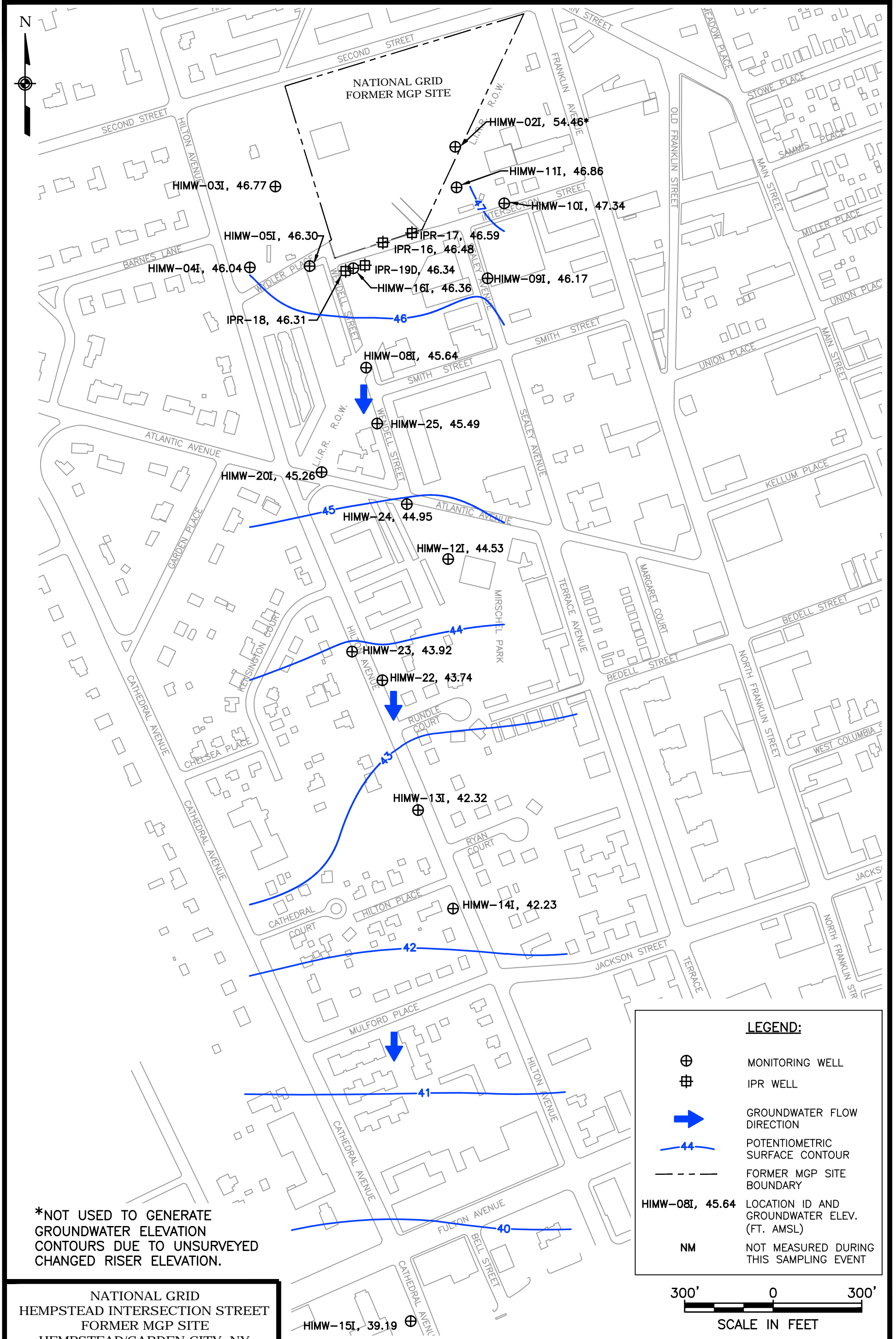
*NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS DUE TO UNSURVEYED CHANGED RISER ELEVATION.

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

URS Corporation

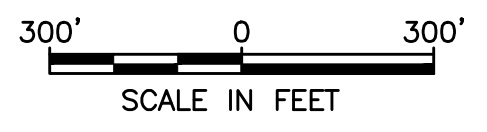
HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER
DECEMBER 17, 2012

FIGURE 9



*NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS DUE TO UNSURVEYED CHANGED RISER ELEVATION.

| LEGEND: | |
|-----------------|--|
| ⊕ | MONITORING WELL |
| ⊞ | IPR WELL |
| ➔ | GROUNDWATER FLOW DIRECTION |
| —44— | POTENTIOMETRIC SURFACE CONTOUR |
| - - - | FORMER MGP SITE BOUNDARY |
| HIMW-08I, 45.64 | LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL) |
| NM | NOT MEASURED DURING THIS SAMPLING EVENT |

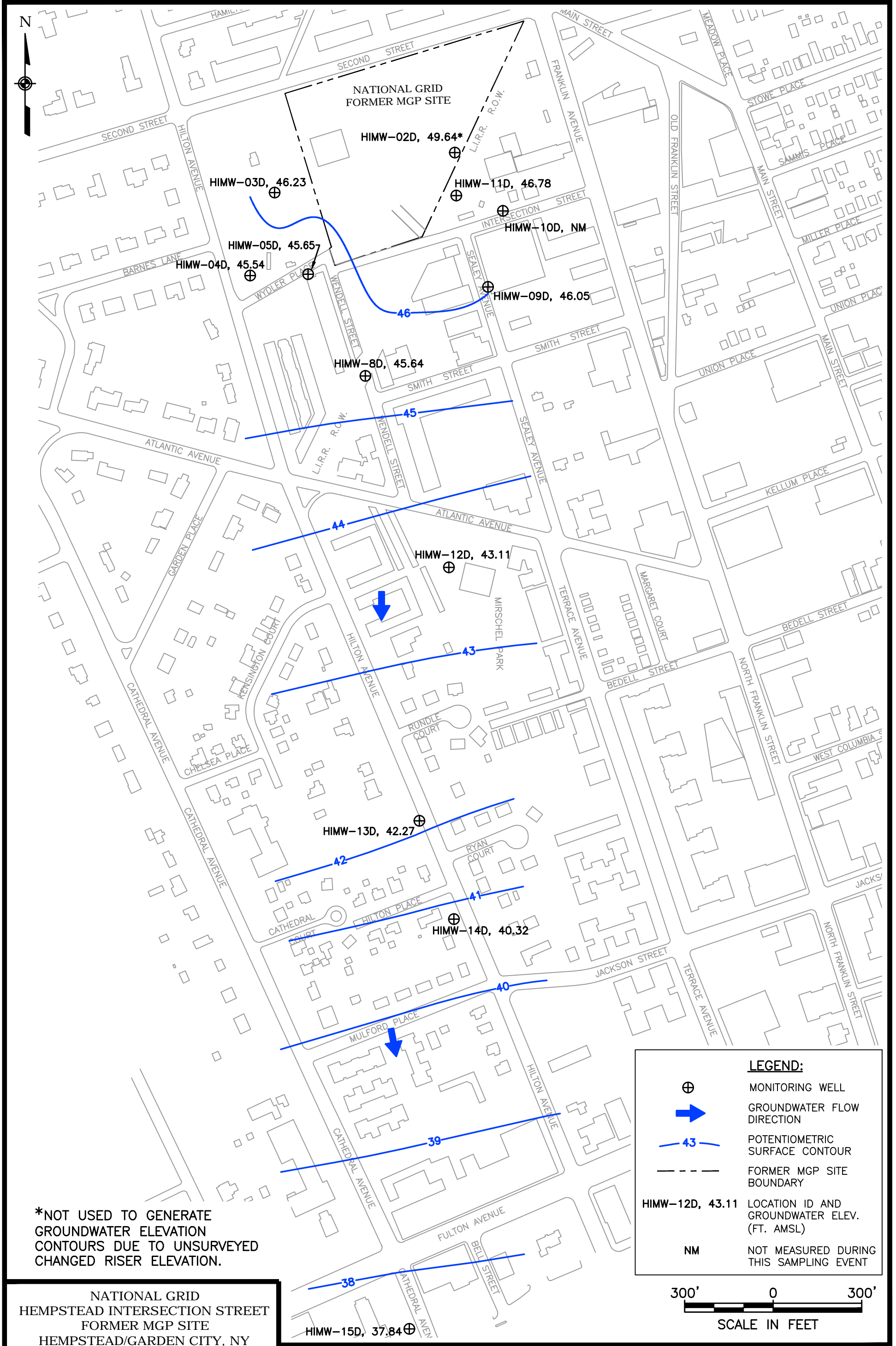


NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY

HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER
DECEMBER 17, 2012

FIGURE 10





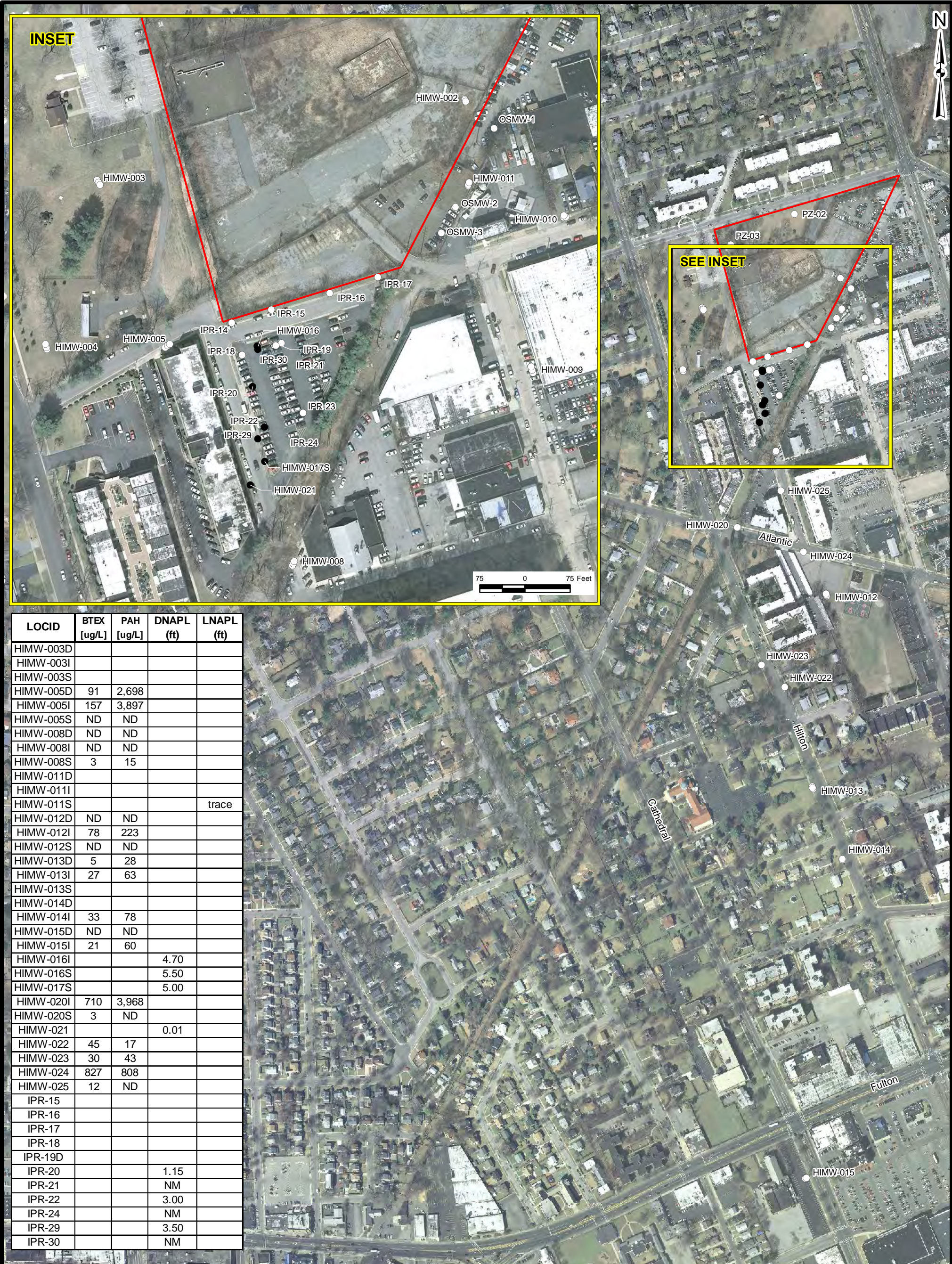
*NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS DUE TO UNSURVEYED CHANGED RISER ELEVATION.

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

LEGEND:

- MONITORING WELL
- GROUNDWATER FLOW DIRECTION
- POTENTIOMETRIC SURFACE CONTOUR
- FORMER MGP SITE BOUNDARY
- HIMW-12D, 43.11** LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL)
- NM** NOT MEASURED DURING THIS SAMPLING EVENT

300' 0 300'
SCALE IN FEET

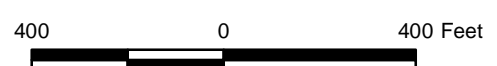


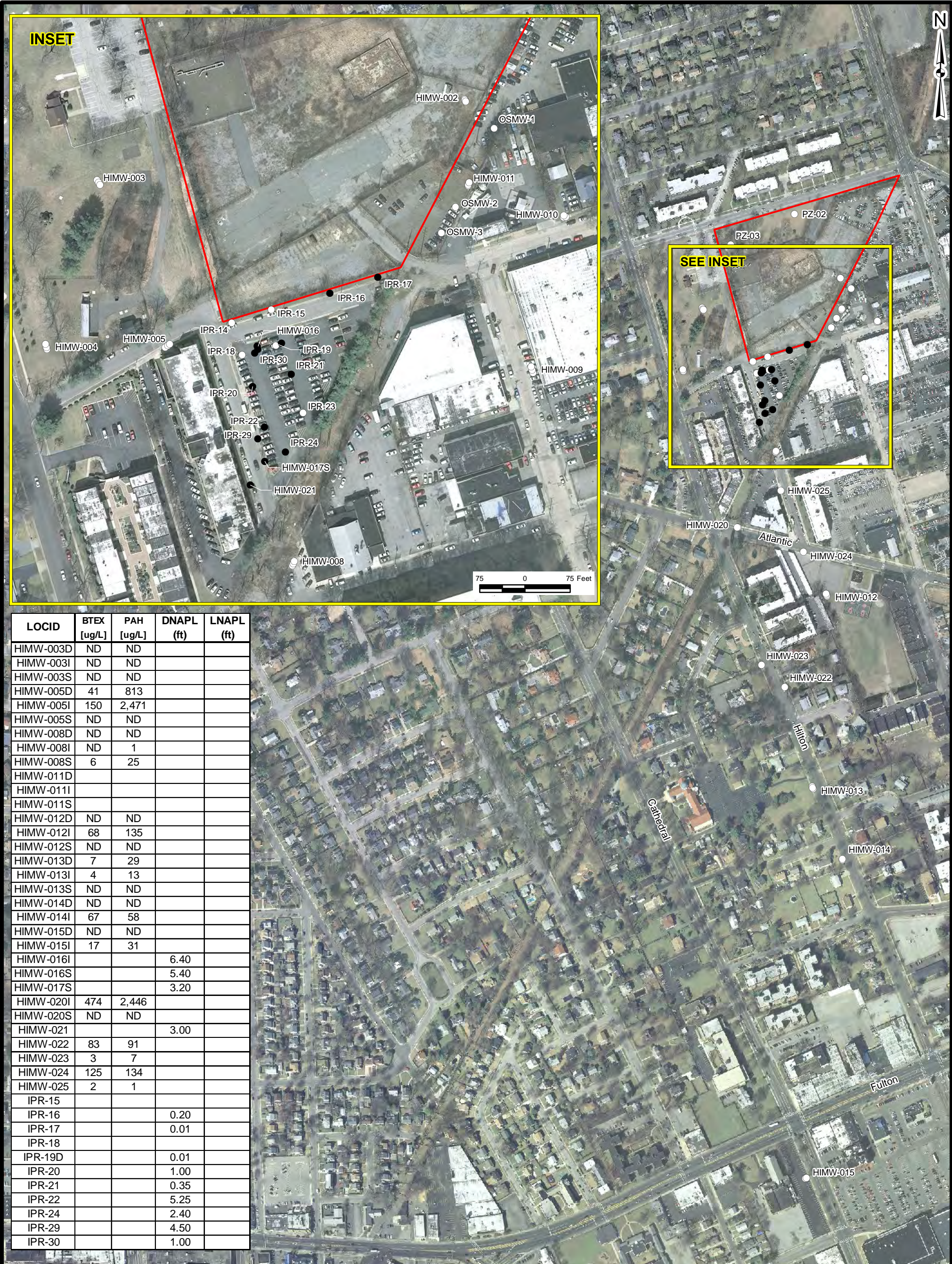
| LOCID | BTEX [ug/L] | PAH [ug/L] | DNAPL (ft) | LNAPL (ft) |
|-----------|----------------|---------------|---------------|---------------|
| HIMW-003D | | | | |
| HIMW-003I | | | | |
| HIMW-003S | | | | |
| HIMW-005D | 91 | 2,698 | | |
| HIMW-005I | 157 | 3,897 | | |
| HIMW-005S | ND | ND | | |
| HIMW-008D | ND | ND | | |
| HIMW-008I | ND | ND | | |
| HIMW-008S | 3 | 15 | | |
| HIMW-011D | | | | |
| HIMW-011I | | | | |
| HIMW-011S | | | | trace |
| HIMW-012D | ND | ND | | |
| HIMW-012I | 78 | 223 | | |
| HIMW-012S | ND | ND | | |
| HIMW-013D | 5 | 28 | | |
| HIMW-013I | 27 | 63 | | |
| HIMW-013S | | | | |
| HIMW-014D | | | | |
| HIMW-014I | 33 | 78 | | |
| HIMW-015D | ND | ND | | |
| HIMW-015I | 21 | 60 | | |
| HIMW-016I | | | 4.70 | |
| HIMW-016S | | | 5.50 | |
| HIMW-017S | | | 5.00 | |
| HIMW-020I | 710 | 3,968 | | |
| HIMW-020S | 3 | ND | | |
| HIMW-021 | | | 0.01 | |
| HIMW-022 | 45 | 17 | | |
| HIMW-023 | 30 | 43 | | |
| HIMW-024 | 827 | 808 | | |
| HIMW-025 | 12 | ND | | |
| IPR-15 | | | | |
| IPR-16 | | | | |
| IPR-17 | | | | |
| IPR-18 | | | | |
| IPR-19D | | | | |
| IPR-20 | | | 1.15 | |
| IPR-21 | | | NM | |
| IPR-22 | | | 3.00 | |
| IPR-24 | | | NM | |
| IPR-29 | | | 3.50 | |
| IPR-30 | | | NM | |

Notes:
 LOCID - Location Identifier
 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
 NM - Not Measured
 ND - Non Detect

Legend

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





INSET

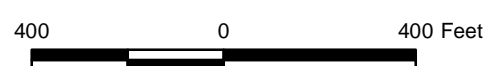
SEE INSET

| LOCID | BTEX [ug/L] | PAH [ug/L] | DNAPL (ft) | LNAPL (ft) |
|-----------|----------------|---------------|---------------|---------------|
| HIMW-003D | ND | ND | | |
| HIMW-003I | ND | ND | | |
| HIMW-003S | ND | ND | | |
| HIMW-005D | 41 | 813 | | |
| HIMW-005I | 150 | 2,471 | | |
| HIMW-005S | ND | ND | | |
| HIMW-008D | ND | ND | | |
| HIMW-008I | ND | 1 | | |
| HIMW-008S | 6 | 25 | | |
| HIMW-011D | | | | |
| HIMW-011I | | | | |
| HIMW-011S | | | | |
| HIMW-012D | ND | ND | | |
| HIMW-012I | 68 | 135 | | |
| HIMW-012S | ND | ND | | |
| HIMW-013D | 7 | 29 | | |
| HIMW-013I | 4 | 13 | | |
| HIMW-013S | ND | ND | | |
| HIMW-014D | ND | ND | | |
| HIMW-014I | 67 | 58 | | |
| HIMW-015D | ND | ND | | |
| HIMW-015I | 17 | 31 | | |
| HIMW-016I | | | 6.40 | |
| HIMW-016S | | | 5.40 | |
| HIMW-017S | | | 3.20 | |
| HIMW-020I | 474 | 2,446 | | |
| HIMW-020S | ND | ND | | |
| HIMW-021 | | | 3.00 | |
| HIMW-022 | 83 | 91 | | |
| HIMW-023 | 3 | 7 | | |
| HIMW-024 | 125 | 134 | | |
| HIMW-025 | 2 | 1 | | |
| IPR-15 | | | | |
| IPR-16 | | | 0.20 | |
| IPR-17 | | | 0.01 | |
| IPR-18 | | | | |
| IPR-19D | | | 0.01 | |
| IPR-20 | | | 1.00 | |
| IPR-21 | | | 0.35 | |
| IPR-22 | | | 5.25 | |
| IPR-24 | | | 2.40 | |
| IPR-29 | | | 4.50 | |
| IPR-30 | | | 1.00 | |

Legend

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

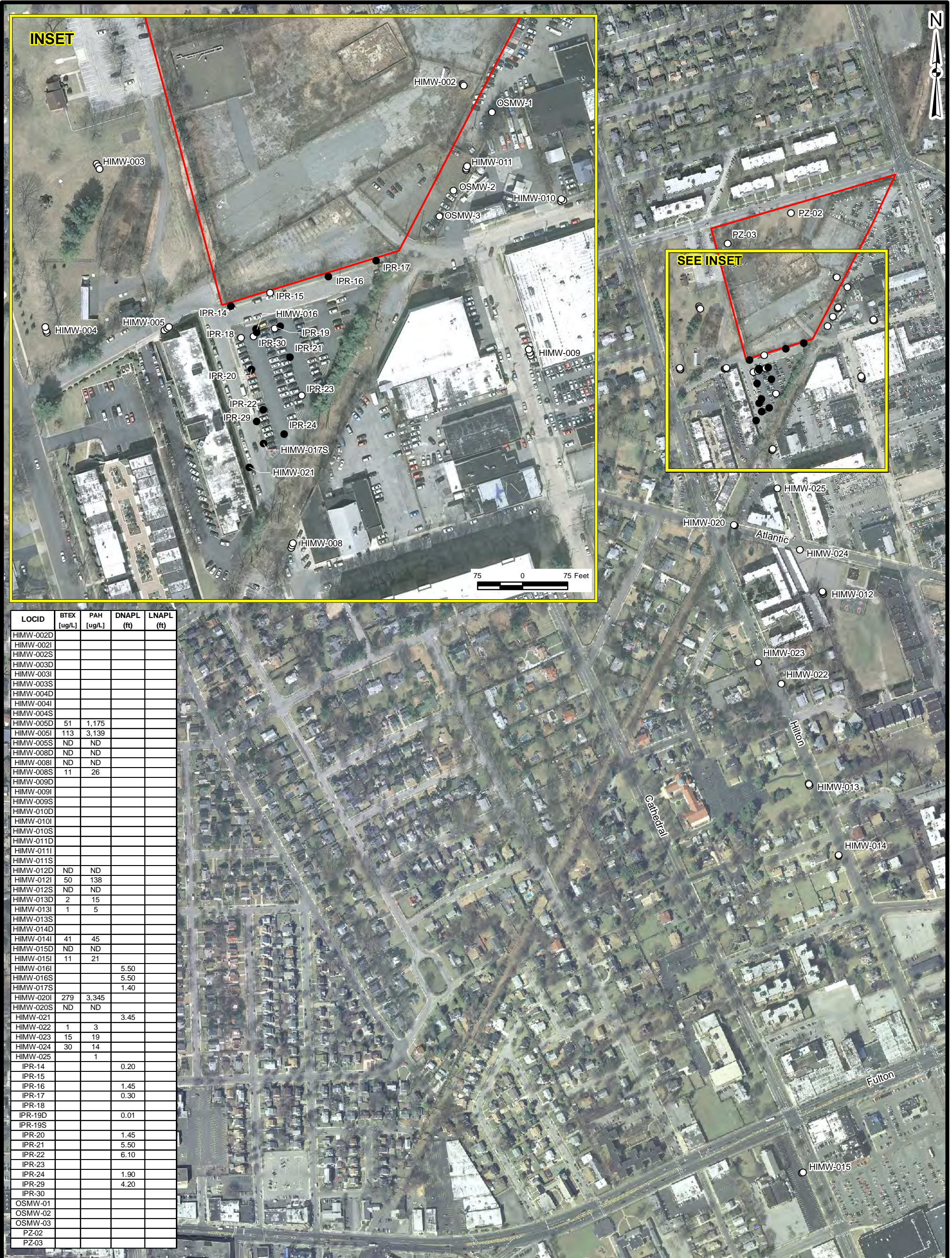
Notes:
 LOCID - Location Identifier
 BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes
 PAH - Polynuclear Aromatic Hydrocarbons
 DNAPL - Dense Non-Aqueous Phase Liquid
 LNAPL - Light Non-Aqueous Phase Liquid
 ug/L - Micrograms per Liter
 ft - Feet of Product Thickness
 ND - Non Detect



**HEMPSTEAD/GARDEN CITY, NY
 TOTAL DISSOLVED-PHASE BTEX/PAH CONCENTRATIONS
 AND FREE PRODUCT THICKNESS
 SECOND QUARTER 2012**



FIGURE 13



INSET

SEE INSET

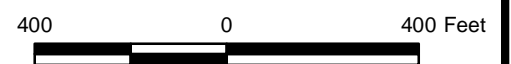
| LOCID | BTEX [ug/L] | PAH [ug/L] | DNAPL (ft) | LNAPL (ft) |
|-----------|----------------|---------------|---------------|---------------|
| HIMW-002D | | | | |
| HIMW-002I | | | | |
| HIMW-002S | | | | |
| HIMW-003D | | | | |
| HIMW-003I | | | | |
| HIMW-003S | | | | |
| HIMW-004D | | | | |
| HIMW-004I | | | | |
| HIMW-004S | | | | |
| HIMW-005D | 51 | 1,175 | | |
| HIMW-005I | 113 | 3,139 | | |
| HIMW-005S | ND | ND | | |
| HIMW-008D | ND | ND | | |
| HIMW-008I | ND | ND | | |
| HIMW-008S | 11 | 26 | | |
| HIMW-009D | | | | |
| HIMW-009I | | | | |
| HIMW-009S | | | | |
| HIMW-010D | | | | |
| HIMW-010I | | | | |
| HIMW-010S | | | | |
| HIMW-011D | | | | |
| HIMW-011I | | | | |
| HIMW-011S | | | | |
| HIMW-012D | ND | ND | | |
| HIMW-012I | 50 | 138 | | |
| HIMW-012S | ND | ND | | |
| HIMW-013D | 2 | 15 | | |
| HIMW-013I | 1 | 5 | | |
| HIMW-013S | | | | |
| HIMW-014D | | | | |
| HIMW-014I | 41 | 45 | | |
| HIMW-015D | ND | ND | | |
| HIMW-015I | 11 | 21 | | |
| HIMW-016I | | | 5.50 | |
| HIMW-016S | | | 5.50 | |
| HIMW-017S | | | 1.40 | |
| HIMW-020I | 279 | 3,345 | | |
| HIMW-020S | ND | ND | | |
| HIMW-021I | | | 3.45 | |
| HIMW-022I | 1 | 3 | | |
| HIMW-023I | 15 | 19 | | |
| HIMW-024I | 30 | 14 | | |
| HIMW-025I | | | 1 | |
| IPR-14 | | | 0.20 | |
| IPR-15 | | | | |
| IPR-16 | | | 1.45 | |
| IPR-17 | | | 0.30 | |
| IPR-18 | | | | |
| IPR-19D | | | 0.01 | |
| IPR-19S | | | | |
| IPR-20 | | | 1.45 | |
| IPR-21 | | | 5.50 | |
| IPR-22 | | | 6.10 | |
| IPR-23 | | | | |
| IPR-24 | | | 1.90 | |
| IPR-29 | | | 4.20 | |
| IPR-30 | | | | |
| OSMW-01 | | | | |
| OSMW-02 | | | | |
| OSMW-03 | | | | |
| PZ-02 | | | | |
| PZ-03 | | | | |

Legend

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

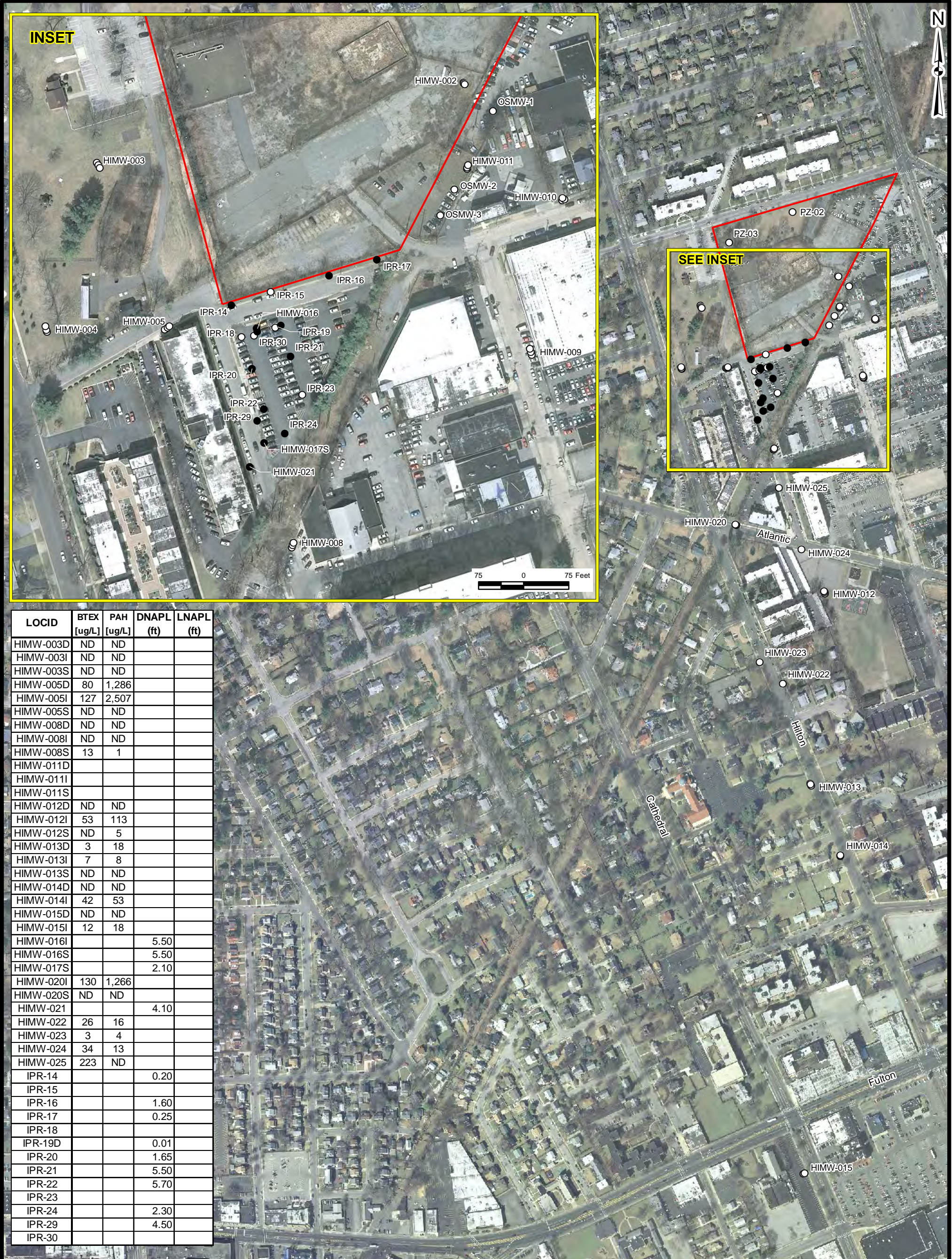
Notes:

LOCID - Location Identifier
 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
 ND - Non Detect



HEMPSTEAD/GARDEN CITY, NY
 TOTAL DISSOLVED-PHASE BTEX/PAH CONCENTRATIONS
 AND FREE PRODUCT THICKNESS
 THIRD QUARTER 2012

FIGURE 14

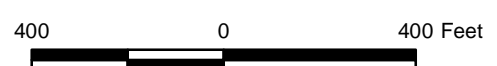


| LOCID | BTEX [ug/L] | PAH [ug/L] | DNAPL (ft) | LNAPL (ft) |
|-----------|----------------|---------------|---------------|---------------|
| HIMW-003D | ND | ND | | |
| HIMW-003I | ND | ND | | |
| HIMW-003S | ND | ND | | |
| HIMW-005D | 80 | 1,286 | | |
| HIMW-005I | 127 | 2,507 | | |
| HIMW-005S | ND | ND | | |
| HIMW-008D | ND | ND | | |
| HIMW-008I | ND | ND | | |
| HIMW-008S | 13 | 1 | | |
| HIMW-011D | | | | |
| HIMW-011I | | | | |
| HIMW-011S | | | | |
| HIMW-012D | ND | ND | | |
| HIMW-012I | 53 | 113 | | |
| HIMW-012S | ND | 5 | | |
| HIMW-013D | 3 | 18 | | |
| HIMW-013I | 7 | 8 | | |
| HIMW-013S | ND | ND | | |
| HIMW-014D | ND | ND | | |
| HIMW-014I | 42 | 53 | | |
| HIMW-015D | ND | ND | | |
| HIMW-015I | 12 | 18 | | |
| HIMW-016I | | | 5.50 | |
| HIMW-016S | | | 5.50 | |
| HIMW-017S | | | 2.10 | |
| HIMW-020I | 130 | 1,266 | | |
| HIMW-020S | ND | ND | | |
| HIMW-021 | | | 4.10 | |
| HIMW-022 | 26 | 16 | | |
| HIMW-023 | 3 | 4 | | |
| HIMW-024 | 34 | 13 | | |
| HIMW-025 | 223 | ND | | |
| IPR-14 | | | 0.20 | |
| IPR-15 | | | | |
| IPR-16 | | | 1.60 | |
| IPR-17 | | | 0.25 | |
| IPR-18 | | | | |
| IPR-19D | | | 0.01 | |
| IPR-20 | | | 1.65 | |
| IPR-21 | | | 5.50 | |
| IPR-22 | | | 5.70 | |
| IPR-23 | | | | |
| IPR-24 | | | 2.30 | |
| IPR-29 | | | 4.50 | |
| IPR-30 | | | | |

Legend

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

Notes:
 LOCID - Location Identifier
 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
 ND - Non Detect



APPENDIX A

DATA USABILITY SUMMARY REPORTS

THIRD AND FOURTH QUARTERS

(Provided in Electronic Format Only)

**APPENDIX A
DATA USABILITY SUMMARY REPORT
THIRD QUARTER 2012**

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

**Analyses Performed by:
H2M LABS, INC.**

Prepared For:

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

Prepared by:

**URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203**

DECEMBER 2012

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| IV. SAMPLE RECEIPT/HOLDING TIMES | A-2 |
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TABLES
(Following Text)

- Table A-1 Validated Groundwater Sample Analytical Results
- Table A-2 Validated Field QC Sample Analytical Results

APPENDICES
(Following Tables)

- Attachment A Validated Form 1's
- Attachment B Support Documentation

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 *DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for Data Deliverables and Development of Data Usability Summary Reports*, May 2010.

This DUSR discusses the usability of the analytical data for twenty (20) groundwater samples, two (2) field duplicates, one (1) matrix spike/matrix spike duplicate (MS/MSD) pair, one (1) field blank, and three (3) trip blanks collected by URS personnel on October 9-16, 2012. The samples were collected as part of the 2012 3rd quarter groundwater monitoring event at the Hempstead Intersection Street Former MGP Site. Note, the 3rd quarter sampling event, which usually takes place in July was delayed until October due to onsite construction.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION

The samples were analyzed by H2M Labs, 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 (LCS) 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.

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 Attachment A. Copies of the chain-of-custodies, case narratives, and documentation supporting the qualification of data are presented in Attachment B. Only problems affecting data usability are discussed in this report.

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. SAMPLE RECEIPT/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC), except for the following instances, where no qualification of the data was necessary.

- For samples collected on October 9-10, 2012, sample IDs were not written on the container labels. Since sample collection times were properly documented on the sample containers, no further action by the laboratory was deemed necessary.
- For sample HIMW-25, no BTEX vials were received at the laboratory. Sample re-collection was not performed. This sample is scheduled to be collected during the next quarterly sampling event.

All samples were analyzed within the required holding times, except for the following instance.

- For sample HIMW-20I, the associated initial matrix spike (MS) was inadvertently not fortified by the laboratory for PAHs. The resulting re-extraction was performed 17 days outside holding time (i.e., 7 days to extract from date of collection). Since the re-extracted MS and associated LCS results were within QC limits, no data qualification to the parent sample results was deemed necessary.

V. NON-CONFORMANCES

Apart from the minor non-conformances noted above, which did not result in data qualification, no other non-conformances were identified. The data are usable as reported.

VI. SAMPLE RESULTS AND REPORTING

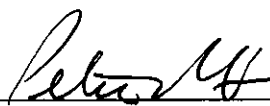
All sample results were reported in accordance with method requirements and were adjusted for sample size and dilution factors. BTEX and PAH results detected below the quantitation limits were qualified 'J' by the laboratory. The results reported from secondary dilution analyses were qualified 'D' by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

The laboratory case narratives indicated that results associated with calibration outliers were qualified 'Z'. Since all calibrations were within USEPA Region II data validation criteria, the laboratory qualifier 'Z' was crossed out on the affected Form 1s.

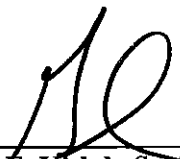
Field duplicates were collected from monitoring well locations HIMW-05S and HIMW-15I, which exhibited good field and analytical precision.

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: 
Peter R. Fairbanks, Senior Chemist

Date: 12/11/12

Reviewed By: 
George E. Kisluk, Senior Chemist

Date: 12-11-12

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-005D | HIMW-005I | HIMW-005S | HIMW-005S | HIMW-008D |
|---|-------|-----------|-------------|-------------|-----------------------|-------------|-------------|
| Sample ID | | | HIMW-05D | HIMW-05I | DUP 101212 | HIMW-05S | HIMW-08D |
| Matrix | | | Groundwater | Groundwater | Groundwater | Groundwater | Groundwater |
| Depth Interval (ft) | | | - | - | - | - | - |
| Date Sampled | | | 10/12/12 | 10/12/12 | 10/12/12 | 10/12/12 | 10/16/12 |
| Parameter | Units | Criteria* | | | Field Duplicate (1-1) | | |
| Volatile Organic Compounds | | | | | | | |
| Benzene | UG/L | - | 1 U | 2 | 1 U | 1 U | 1 U |
| Ethylbenzene | UG/L | - | 1 U | 1 | 1 U | 1 U | 1 U |
| Toluene | UG/L | - | 1 U | 1 U | 1 U | 1 U | 1 U |
| Xylene (total) | UG/L | - | 51 | 110 | 1 U | 1 U | 1 U |
| Total BTEX | UG/L | 100 | 51 | 113 | ND | ND | ND |
| Semivolatile Organic Compounds | | | | | | | |
| 2-Methylnaphthalene | UG/L | - | 120 DJ | 400 DJ | 10 U | 10 U | 10 U |
| Acenaphthene | UG/L | - | 2 J | 12 | 10 U | 10 U | 10 U |
| Acenaphthylene | UG/L | - | 46 | 180 DJ | 10 U | 10 U | 10 U |
| Anthracene | UG/L | - | 10 U | 2 J | 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 | - | 7 J | 29 | 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 | - | 1,000 D | 2,500 D | 10 U | 10 U | 10 U |
| Phenanthrene | UG/L | - | 10 U | 16 | 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 | 1,175 | 3,139 | ND | ND | ND |

*Criteria- Groundwater 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.

Made By PRF 11/30/12; Checked By: *CHK 12/3/12*


Detection Limits shown are PQL

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

| Location ID | | | HIMW-008I | HIMW-008S | HIMW-012D | HIMW-012I | HIMW-012S |
|---|-------|-----------|-------------|-------------|-------------|-------------|-------------|
| Sample ID | | | HIMW-08I | HIMW-08S | HIMW-12D | HIMW-12I | HIMW-12S |
| Matrix | | | Groundwater | Groundwater | Groundwater | Groundwater | Groundwater |
| Depth Interval (ft) | | | - | - | - | - | - |
| Date Sampled | | | 10/16/12 | 10/16/12 | 10/15/12 | 10/15/12 | 10/15/12 |
| Parameter | Units | Criteria* | | | | | |
| Volatile Organic Compounds | | | | | | | |
| Benzene | UG/L | - | 1 U | 6 | 1 U | 46 | 1 U |
| Ethylbenzene | UG/L | - | 1 U | 1 U | 1 U | 1 U | 1 U |
| Toluene | UG/L | - | 1 U | 1 U | 1 U | 1 U | 1 U |
| Xylene (total) | UG/L | - | 1 U | 5 | 1 U | 4 | 1 U |
| Total BTEX | UG/L | 100 | ND | 11 | ND | 50 | ND |
| Semivolatile Organic Compounds | | | | | | | |
| 2-Methylnaphthalene | UG/L | - | 10 U | 5 J | 10 U | 10 U | 10 U |
| Acenaphthene | UG/L | - | 10 U | 10 U | 10 U | 47 | 10 U |
| Acenaphthylene | UG/L | - | 10 U | 4 J | 10 U | 44 | 10 U |
| Anthracene | UG/L | - | 10 U | 1 J | 10 U | 2 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 | - | 10 U | 10 U | 10 U | 30 | 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 | 16 | 10 U | 2 J | 10 U |
| Phenanthrene | UG/L | - | 10 U | 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 | ND | 26 | ND | 138 | ND |

*Criteria- Groundwater 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.

Made By PRF 11/30/12; Checked By *[Signature]*

Detection Limits shown are PQL

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

| Location ID | | | HIMW-013D | HIMW-013I | HIMW-014I | HIMW-015D | HIMW-015I |
|---|-------|-----------|-------------|-------------|-------------|-------------|-----------------------|
| Sample ID | | | HIMW-13D | HIMW-13I | HIMW-14I | HIMW-15D | DUP 101012 |
| Matrix | | | Groundwater | Groundwater | Groundwater | Groundwater | Groundwater |
| Depth Interval (ft) | | | - | - | - | - | - |
| Date Sampled | | | 10/09/12 | 10/09/12 | 10/10/12 | 10/10/12 | 10/10/12 |
| Parameter | Units | Criteria* | | | | | Field Duplicate (1-1) |
| Volatile Organic Compounds | | | | | | | |
| Benzene | UG/L | - | 2 | 1 | 22 | 1 U | 8 |
| Ethylbenzene | UG/L | - | 1 U | 1 U | 14 | 1 U | 1 U |
| Toluene | UG/L | - | 1 U | 1 U | 1 U | 1 U | 1 U |
| Xylene (total) | UG/L | - | 1 U | 1 U | 5 | 1 U | 2 |
| Total BTEX | UG/L | 100 | 2 | 1 | 41 | ND | 10 |
| Semivolatile Organic Compounds | | | | | | | |
| 2-Methylnaphthalene | UG/L | - | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acenaphthene | UG/L | - | 5 J | 10 U | 14 | 10 U | 4 J |
| Acenaphthylene | UG/L | - | 10 | 2 J | 19 | 10 U | 16 |
| 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 | 7 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 | 1 J | 10 U | 10 U |
| Phenanthrene | UG/L | - | 10 U | 3 J | 4 J | 10 U | 2 J |
| Pyrene | UG/L | - | 10 U | 10 U | 10 U | 10 U | 10 U |
| Total Polynuclear Aromatic Hydrocarbons | UG/L | 100 | 15 | 5 | 45 | ND | 22 |

*Criteria- Groundwater 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.

Made By PRF 11/30/12; Checked By *CHW* 12/3/12

Detection Limits shown are PQL

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

| Location ID | | | HIMW-015I | HIMW-020I | HIMW-020S | HIMW-022 | HIMW-023 |
|---|-------|-----------|-------------|-------------|-------------|-------------|-------------|
| Sample ID | | | HIMW-15I | HIMW-20I | HIMW-20S | HIMW-22 | HIMW-23 |
| Matrix | | | Groundwater | Groundwater | Groundwater | Groundwater | Groundwater |
| Depth Interval (ft) | | | - | - | - | - | - |
| Date Sampled | | | 10/10/12 | 10/11/12 | 10/11/12 | 10/09/12 | 10/11/12 |
| Parameter | Units | Criteria* | | | | | |
| Volatile Organic Compounds | | | | | | | |
| Benzene | UG/L | - | 9 | 20 | 1 U | 1 | 6 |
| Ethylbenzene | UG/L | - | 1 U | 3 | 1 U | 1 U | 2 |
| Toluene | UG/L | - | 1 U | 6 | 1 U | 1 U | 1 U |
| Xylene (total) | UG/L | - | 2 | 250 | 1 U | 1 U | 7 |
| Total BTEX | UG/L | 100 | 11 | 279 | ND | 1 | 15 |
| Semivolatile Organic Compounds | | | | | | | |
| 2-Methylnaphthalene | UG/L | - | 10 U | 510 D | 10 U | 10 U | 10 U |
| Acenaphthene | UG/L | - | 4 J | 12 | 10 U | 10 U | 2 J |
| Acenaphthylene | UG/L | - | 15 | 260 DJ | 10 U | 3 J | 13 |
| Anthracene | UG/L | - | 10 U | 4 J | 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 | 30 | 10 U | 10 U | 3 J |
| Indeno(1,2,3-cd)pyrene | UG/L | - | 10 U | 10 U | 10 U | 10 U | 10 U |
| Naphthalene | UG/L | - | 10 U | 2,500 D | 10 U | 10 U | 10 U |
| Phenanthrene | UG/L | - | 2 J | 29 | 10 U | 10 U | 1 J |
| Pyrene | UG/L | - | 10 U | 10 U | 10 U | 10 U | 10 U |
| Total Polynuclear Aromatic Hydrocarbons | UG/L | 100 | 21 | 3,345 | ND | 3 | 19 |

*Criteria- Groundwater 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.

Made By PRF 11/30/12; Checked By 

Detection Limits shown are PQL

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

| Location ID | | | HIMW-024 | HIMW-025 |
|---|-------|-----------|-------------|-------------|
| Sample ID | | | HIMW-24 | HIMW-25 |
| Matrix | | | Groundwater | Groundwater |
| Depth Interval (ft) | | | - | - |
| Date Sampled | | | 10/11/12 | 10/12/12 |
| Parameter | Units | Criteria* | | |
| Volatile Organic Compounds | | | | |
| Benzene | UG/L | - | 13 | NA |
| Ethylbenzene | UG/L | - | 11 | NA |
| Toluene | UG/L | - | 1 U | NA |
| Xylene (total) | UG/L | - | 6 | NA |
| Total BTEX | UG/L | 100 | 30 | NA |
| Semivolatile Organic Compounds | | | | |
| 2-Methylnaphthalene | UG/L | - | 10 U | 10 U |
| Acenaphthene | UG/L | - | 3 J | 10 U |
| Acenaphthylene | UG/L | - | 4 J | 10 U |
| Anthracene | UG/L | - | 10 U | 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 | - | 3 J | 10 U |
| Indeno(1,2,3-cd)pyrene | UG/L | - | 10 U | 10 U |
| Naphthalene | UG/L | - | 2 J | 1 J |
| Phenanthrene | UG/L | - | 2 J | 10 U |
| Pyrene | UG/L | - | 10 U | 10 U |
| Total Polynuclear Aromatic Hydrocarbons | UG/L | 100 | 14 | 1 |

*Criteria- Groundwater 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.

Made By_PRF 11/30/12; Checked By *[Signature]* 11/21/12

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 | FIELDQC | FIELDQC | FIELDQC |
|---|-------|-----------|------------------|------------------|-------------------|------------------|
| Sample ID | | | TB 101012 | TB 101212 | FB-101612 | TB-101612 |
| Matrix | | | Water Quality | Water Quality | Water Quality | Water Quality |
| Depth Interval (ft) | | | - | - | - | - |
| Date Sampled | | | 10/10/12 | 10/12/12 | 10/16/12 | 10/16/12 |
| Parameter | Units | Criteria* | Trip Blank (1-1) | Trip Blank (1-1) | Field Blank (1-1) | Trip Blank (1-1) |
| Volatile Organic Compounds | | | | | | |
| Benzene | UG/L | - | 1 U | 1 U | 1 U | 1 U |
| Ethylbenzene | UG/L | - | 1 U | 1 U | 1 U | 1 U |
| Toluene | UG/L | - | 1 U | 1 U | 1 U | 1 U |
| Xylene (total) | UG/L | - | 1 U | 1 U | 1 U | 1 U |
| Total BTEX | UG/L | 100 | ND | ND | ND | ND |
| Semivolatile Organic Compounds | | | | | | |
| 2-Methylnaphthalene | UG/L | - | NA | NA | 10 U | NA |
| Acenaphthene | UG/L | - | NA | NA | 10 U | NA |
| Acenaphthylene | UG/L | - | NA | NA | 10 U | NA |
| Anthracene | UG/L | - | NA | NA | 10 U | NA |
| Benzo(a)anthracene | UG/L | - | NA | NA | 10 U | NA |
| Benzo(a)pyrene | UG/L | - | NA | NA | 10 U | NA |
| Benzo(b)fluoranthene | UG/L | - | NA | NA | 10 U | NA |
| Benzo(g,h,i)perylene | UG/L | - | NA | NA | 10 U | NA |
| Benzo(k)fluoranthene | UG/L | - | NA | NA | 10 U | NA |
| Chrysene | UG/L | - | NA | NA | 10 U | NA |
| Dibenz(a,h)anthracene | UG/L | - | NA | NA | 10 U | NA |
| Fluoranthene | UG/L | - | NA | NA | 10 U | NA |
| Fluorene | UG/L | - | NA | NA | 10 U | NA |
| Indeno(1,2,3-cd)pyrene | UG/L | - | NA | NA | 10 U | NA |
| Naphthalene | UG/L | - | NA | NA | 10 U | NA |
| Phenanthrene | UG/L | - | NA | NA | 10 U | NA |
| Pyrene | UG/L | - | NA | NA | 10 U | NA |
| Total Polynuclear Aromatic Hydrocarbons | UG/L | 100 | NA | NA | ND | NA |

*Criteria- Groundwater 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.

Made By_PRF 11/30/12; Checked By *CHX* 12/3/12

Detection Limits shown are PQL

ATTACHMENT A
VALIDATED FORM 1'S

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13D

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154
 Matrix: (soil/water) WATER Lab Sample ID: 1210642-001A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52016.D
 Level: (low/med) LOW Date Received: 10/10/12
 % Moisture: not dec. Date Analyzed: 10/16/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

KEY-URS154 S30

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-13I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154

Matrix: (soil/water) WATER Lab Sample ID: 1210642-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52015.D

Level: (low/med) LOW Date Received: 10/10/12

% Moisture: not dec. Date Analyzed: 10/16/12

GC Column: Rtx-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) <u>UG/L</u> | <u>Q</u> |
| 71-43-2 | Benzene | 1 | |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 1 | U |
| 1330-20-7 | Xylene (total) | 1 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14I

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154
 Matrix: (soil/water) WATER Lab Sample ID: 1210642-003A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52014.D
 Level: (low/med) LOW Date Received: 10/10/12
 % Moisture: not dec. Date Analyzed: 10/16/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) <u>UG/L</u> | Q |
|-----------|----------------|-----------------------------|---|
| 71-43-2 | Benzene | 22 | |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 14 | |
| 1330-20-7 | Xylene (total) | 5 | |

KEY-URS154 S32

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154

Matrix: (soil/water) WATER Lab Sample ID: 1210642-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52078.D

Level: (low/med) LOW Date Received: 10/10/12

% Moisture: not dec. Date Analyzed: 10/19/12

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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-URS154 S33

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15I

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154
 Matrix: (soil/water) WATER Lab Sample ID: 1210642-005A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52013.D
 Level: (low/med) LOW Date Received: 10/10/12
 % Moisture: not dec. Date Analyzed: 10/16/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) UG/L | Q |
|-----------|----------------|----------------------|---|
| 71-43-2 | Benzene | 9 | |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 1 | U |
| 1330-20-7 | Xylene (total) | 2 | |

KEY-URS154 S34

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-22

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154
 Matrix: (soil/water) WATER Lab Sample ID: 1210642-006A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\PS2012.D
 Level: (low/med) LOW Date Received: 10/10/12
 % Moisture: not dec. Date Analyzed: 10/16/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

KEY-URS154 S35

VOLATILE ORGANICS ANALYSIS DATA SHEET

| |
|-----------------------------|
| DUP 101012 (H2M) - 015-I |
|-----------------------------|

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154

Matrix: (soil/water) WATER Lab Sample ID: 1210642-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52011.D

Level: (low/med) LOW Date Received: 10/10/12

% Moisture: not dec. Date Analyzed: 10/16/12

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) UG/L | Q |
|-----------|----------------|----------------------|---|
| 71-43-2 | Benzene | 8 | |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 1 | U |
| 1330-20-7 | Xylene (total) | 2 | |

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB 101012

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154

Matrix: (soil/water) WATER Lab Sample ID: 1210642-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52010.D

Level: (low/med) LOW Date Received: 10/10/12

% Moisture: not dec. Date Analyzed: 10/16/12

GC Column: Rtx-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 |

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-05D

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154
 Matrix: (soil/water) WATER Lab Sample ID: 1210763-001A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52079.D
 Level: (low/med) LOW Date Received: 10/12/12
 % Moisture: not dec. Date Analyzed: 10/19/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) <u>UG/L</u> | Q |
|-----------|----------------|-----------------------------|---|
| 71-43-2 | Benzene | 1 | U |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 1 | U |
| 1330-20-7 | Xylene (total) | 51 | |

KEY-URS154 S38

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-05I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154

Matrix: (soil/water) WATER Lab Sample ID: 1210763-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52080.D

Level: (low/med) LOW Date Received: 10/12/12

% Moisture: not dec. Date Analyzed: 10/19/12

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) <u>UG/L</u> | <u>Q</u> |
|-----------|----------------|-----------------------------|--------------|
| 71-43-2 | Benzene | 2 | L |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 1 | |
| 1330-20-7 | Xylene (total) | 110 | |

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KEY-URS154 S39

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-05S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154

Matrix: (soil/water) WATER Lab Sample ID: 1210763-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52081.D

Level: (low/med) LOW Date Received: 10/12/12

% Moisture: not dec. Date Analyzed: 10/19/12

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) <u>UG/L</u> | 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-URS154 S40

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-201

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154

Matrix: (soil/water) WATER Lab Sample ID: 1210763-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52082.D

Level: (low/med) LOW Date Received: 10/12/12

% Moisture: not dec. Date Analyzed: 10/19/12

GC Column: Rtx-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 |
| 71-43-2 | Benzene | 20 | 2 |
| 108-88-3 | Toluene | 6 | 6 |
| 100-41-4 | Ethylbenzene | 3 | |
| 1330-20-7 | Xylene (total) | 250 | |

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KEY-URS154 S41

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20S

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154
 Matrix: (soil/water) WATER Lab Sample ID: 1210763-005A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52085.D
 Level: (low/med) LOW Date Received: 10/12/12
 % Moisture: not dec. Date Analyzed: 10/19/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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-URS154 S42

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-23

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154
 Matrix: (soil/water) WATER Lab Sample ID: 1210763-006A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52086.D
 Level: (low/med) LOW Date Received: 10/12/12
 % Moisture: not dec. Date Analyzed: 10/19/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:
(µg/L or µg/Kg) UG/L

| CAS NO. | COMPOUND | (µg/L or µg/Kg) <u>UG/L</u> | Q |
|-----------|----------------|-----------------------------|--------------|
| 71-43-2 | Benzene | 6 | 2 |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 2 | |
| 1330-20-7 | Xylene (total) | 7 | |

11/14/12
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KEY-URS154 S43

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-24

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154

Matrix: (soil/water) WATER Lab Sample ID: 1210763-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52087.D

Level: (low/med) LOW Date Received: 10/12/12

% Moisture: not dec. Date Analyzed: 10/19/12

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) <u>UG/L</u> | <u>Q</u> |
|-----------|----------------|-----------------------------|--------------|
| 71-43-2 | Benzene | 13 | Q |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 11 | |
| 1330-20-7 | Xylene (total) | 6 | |

11/14/12

KEY-URS154 S44

VOLATILE ORGANICS ANALYSIS DATA SHEET

DUP 101212

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154

Matrix: (soil/water) WATER Lab Sample ID: 1210763-009A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52088.D

Level: (low/med) LOW Date Received: 10/12/12

% Moisture: not dec. Date Analyzed: 10/19/12

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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-URS154 S45

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB 101212

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154
 Matrix: (soil/water) WATER Lab Sample ID: 1210763-010A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52089.D
 Level: (low/med) LOW Date Received: 10/12/12
 % Moisture: not dec. Date Analyzed: 10/19/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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-URS154 S46

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12D

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154
 Matrix: (soil/water) WATER Lab Sample ID: 1210902-001A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52090.D
 Level: (low/med) LOW Date Received: 10/16/12
 % Moisture: not dec. Date Analyzed: 10/19/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) <u>UG/L</u> | 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-URS154 S47

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-121

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154
 Matrix: (soil/water) WATER Lab Sample ID: 1210902-002A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52091.D
 Level: (low/med) LOW Date Received: 10/16/12
 % Moisture: not dec. Date Analyzed: 10/19/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) <u>UG/L</u> | Q |
|-----------|----------------|-----------------------------|---|
| 71-43-2 | Benzene | 46 | |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 1 | U |
| 1330-20-7 | Xylene (total) | 4 | |

KEY-URS154 S48

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12S

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154
 Matrix: (soil/water) WATER Lab Sample ID: 1210902-003A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52092.D
 Level: (low/med) LOW Date Received: 10/16/12
 % Moisture: not dec. Date Analyzed: 10/20/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) <u>UG/L</u> | 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-URS154 S49

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-08D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154

Matrix: (soil/water) WATER Lab Sample ID: 1210902-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52093.D

Level: (low/med) LOW Date Received: 10/16/12

% Moisture: not dec. Date Analyzed: 10/20/12

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) <u>UG/L</u> | 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-URS154 S50

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-08I

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154
 Matrix: (soil/water) WATER Lab Sample ID: 1210902-005A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P52094.D
 Level: (low/med) LOW Date Received: 10/16/12
 % Moisture: not dec. Date Analyzed: 10/20/12
 GC Column: Rtx-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) <u>UG/L</u> | <u>Q</u> |
| 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-URS154 S51

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-088

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS SAS No.: _____SDG No.: KEY-URS154

Matrix: (soil/water)

WATERLab Sample ID: 1210902-006ASample wt/vol: 5(g/mL) MLLab File ID: 12\G16519.

Level: (low/med)

LOWDate Received: 10/16/12

% Moisture: not dec.

Date Analyzed: 10/25/12GC Column: Rtx-624ID: .18 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) UG/L | Q |
|-----------|----------------|----------------------|--------------|
| 71-43-2 | Benzene | 6 | Q |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 1 | U |
| 1330-20-7 | Xylene (total) | 5 | |

11/14/12
✓

KEY-URS154 S52

VOLATILE ORGANICS ANALYSIS DATA SHEET

FB-101612

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154

Matrix: (soil/water) WATER Lab Sample ID: 1210902-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G16520.

Level: (low/med) LOW Date Received: 10/16/12

% Moisture: not dec. Date Analyzed: 10/25/12

GC Column: Rtx-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) <u>UG/L</u> | <u>Q</u> |
| 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-URS154 S53

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB-101612

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS154

Matrix: (soil/water) WATER Lab Sample ID: 1210902-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G16521.

Level: (low/med) LOW Date Received: 10/16/12

% Moisture: not dec. Date Analyzed: 10/25/12

GC Column: Rtx-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 |

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-13D

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210642-001BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\N53779.DLevel: (low/med) LOWDate Received: 10/10/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/15/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/17/12Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 | | |
| 83-32-9 | Acenaphthene | 5 | | 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-URS154 S56

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-13I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210642-002BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\N53780.DLevel: (low/med) LOWDate Received: 10/10/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/15/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/17/12Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 | 3 | | 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-URS154 S57

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-14I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210642-003BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\N53781.DLevel: (low/med) LOWDate Received: 10/10/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/15/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/17/12Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) | UG/L | Q |
|----------|------------------------|-----------------|------|---|
| 91-20-3 | Naphthalene | 1 | | J |
| 91-57-6 | 2-Methylnaphthalene | 10 | | U |
| 208-96-8 | Acenaphthylene | 19 | | |
| 83-32-9 | Acenaphthene | 14 | | |
| 86-73-7 | Fluorene | 7 | | 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

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15D

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210642-004BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\N53782.DLevel: (low/med) LOWDate Received: 10/10/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/15/12Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 10/17/12Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (μ g/L or μ g/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-URS154 S59

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154

Matrix: (soil/water) WATER

Lab Sample ID: 1210642-005B

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

Lab File ID: 2\N53783.D

Level: (low/med) LOW

Date Received: 10/10/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 10/15/12

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 10/17/12

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 | 15 | | |
| 83-32-9 | Acenaphthene | 4 | | J |
| 86-73-7 | Fluorene | 10 | | U |
| 85-01-8 | Phenanthrene | 2 | | 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-URS154 S60

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-22

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154

Matrix: (soil/water) WATER

Lab Sample ID: 1210642-006B

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

Lab File ID: 2\N53784.D

Level: (low/med) LOW

Date Received: 10/10/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 10/15/12

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 10/17/12

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 | 3 | | 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

KEY-URS154 S61

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DUP 101012

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210642-007BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\N53785.DLevel: (low/med) LOWDate Received: 10/10/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/15/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/18/12Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 | 16 | |
| 83-32-9 | Acenaphthene | 4 | J |
| 86-73-7 | Fluorene | 10 | U |
| 85-01-8 | Phenanthrene | 2 | 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

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-05D

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210763-001BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R12131.DLevel: (low/med) LOWDate Received: 10/12/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/16/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/20/12Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/kg) | UG/L | Q |
|----------|------------------------|--------------------------------|------|----------------|
| 91-20-3 | Naphthalene | 1000 500 | | ED |
| 91-57-6 | 2-Methylnaphthalene | | 120 | EDJ |
| 208-96-8 | Acenaphthylene | | 46 | |
| 83-32-9 | Acenaphthene | | 2 | J |
| 86-73-7 | Fluorene | | 7 | J |
| 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

11/29/12
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KEY-URS154 S63

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ERA SAMPLE NO.

HIMW-05DDL

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210763-001BDLSample wt/vol: 1000 (g/mL) MLLab File ID: 2\R12246.DLevel: (low/med) LOWDate Received: 10/12/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/16/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/24/12Injection Volume: 2 (µL)Dilution Factor: 20.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) UG/L | Q |
|----------|--------------------------|----------------------|----|
| 91-20-3 | Naphthalene | 1000 | D |
| 91-57-6 | 2-Methylnaphthalene | 120 | DJ |
| 208-96-8 | Acenaphthylene | 46 | 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

11/29/12

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-05I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210763-002BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R12132.DLevel: (low/med) LOWDate Received: 10/12/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/16/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/20/12Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(µg/L or µg/Kg) UG/L Q

| | | | |
|----------|------------------------|---------------------------------|----------------|
| 91-20-3 | Naphthalene | 2500 1100 | ED |
| 91-57-6 | 2-Methylnaphthalene | 400 410 | EDS |
| 208-96-8 | Acenaphthylene | 180 270 | EDS |
| 83-32-9 | Acenaphthene | 12 | |
| 86-73-7 | Fluorene | 29 | |
| 85-01-8 | Phenanthrene | 16 | |
| 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 |

11/30/12
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(1) Cannot be separated from Diphenylamine

KEY-URS154 S65

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05IDL

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210763-002BDLSample wt/vol: 1000 (g/mL) MLLab File ID: 2\R12247.DLevel: (low/med) LOWDate Received: 10/12/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/16/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/24/12Injection Volume: 2 (µL)Dilution Factor: 50.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) | UG/L | Q |
|----------|--------------------------|-----------------|------|----|
| 91-20-3 | Naphthalene | 2500 | | D |
| 91-57-6 | 2-Methylnaphthalene | 400 | | DJ |
| 208-96-8 | Acenaphthylene | 180 | | DJ |
| 83-32-9 | Acenaphthene | 500 | | U |
| 86-73-7 | Fluorene | 500 | | U |
| 85-01-8 | Phenanthrene | 500 | | U |
| 120-12-7 | Anthracene | 500 | | U |
| 206-44-0 | Fluoranthene | 500 | | U |
| 129-00-0 | Pyrene | 500 | | U |
| 56-55-3 | Benzo (a) anthracene | 500 | | U |
| 218-01-9 | Chrysene | 500 | | U |
| 205-99-2 | Benzo (b) fluoranthene | 500 | | U |
| 207-08-9 | Benzo (k) fluoranthene | 500 | | U |
| 50-32-8 | Benzo (a) pyrene | 500 | | U |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 500 | | U |
| 53-70-3 | Dibenzo (a,h) anthracene | 500 | | U |
| 191-24-2 | Benzo (g,h,i) perylene | 500 | | U |

(1) Cannot be separated from Diphenylamine

11/30/12
AC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-058

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210763-003BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R12133.DLevel: (low/med) LOWDate Received: 10/12/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/16/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/20/12Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210763-004BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R12331.DLevel: (low/med) LOWDate Received: 10/12/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/15/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/27/12Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) | UG/L | Q |
|----------|--------------------------|-----------------|------|-----|
| 91-20-3 | Naphthalene | 2500 | 1300 | F/D |
| 91-57-6 | 2-Methylnaphthalene | 510 | 490 | F/D |
| 208-96-8 | Acenaphthylene | 260 | 170 | F/D |
| 83-32-9 | Acenaphthene | | 12 | |
| 86-73-7 | Fluorene | | 30 | |
| 85-01-8 | Phenanthrene | | 29 | |
| 120-12-7 | Anthracene | | 4 | 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

11/30/12

KEY-URS154 S68

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20IDL

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210763-004BDLSample wt/vol: 1000 (g/mL) MLLab File ID: 2\R12456.DLevel: (low/med) LOWDate Received: 10/12/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/15/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/31/12Injection Volume: 2 (µL)Dilution Factor: 50.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) | UG/L | Q |
|----------|------------------------|-----------------|------|----|
| 91-20-3 | Naphthalene | 2500 | | D |
| 91-57-6 | 2-Methylnaphthalene | 510 | | D |
| 208-96-8 | Acenaphthylene | 260 | | DJ |
| 83-32-9 | Acenaphthene | 500 | | U |
| 86-73-7 | Fluorene | 500 | | U |
| 85-01-8 | Phenanthrene | 500 | | U |
| 120-12-7 | Anthracene | 500 | | U |
| 206-44-0 | Fluoranthene | 500 | | U |
| 129-00-0 | Pyrene | 500 | | U |
| 56-55-3 | Benzo(a)anthracene | 500 | | U |
| 218-01-9 | Chrysene | 500 | | U |
| 205-99-2 | Benzo(b)fluoranthene | 500 | | U |
| 207-08-9 | Benzo(k)fluoranthene | 500 | | U |
| 50-32-8 | Benzo(a)pyrene | 500 | | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 500 | | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 500 | | U |
| 191-24-2 | Benzo(g,h,i)perylene | 500 | | U |

(1) Cannot be separated from Diphenylamine

11/30/12
2

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-208

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154

Matrix: (soil/water) WATER

Lab Sample ID: 1210763-005B

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

Lab File ID: 2\R12134.D

Level: (low/med) LOW

Date Received: 10/12/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 10/16/12

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 10/20/12

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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-URS154 S70

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-23

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210763-006BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R12135.DLevel: (low/med) LOWDate Received: 10/12/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/16/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/21/12Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

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

| CAS NO. | COMPOUND | (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 | 13 | | |
| 83-32-9 | Acenaphthene | 2 | | J |
| 86-73-7 | Fluorene | 3 | | J |
| 85-01-8 | Phenanthrene | 1 | | 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

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-24

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210763-007BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R12136.DLevel: (low/med) LOWDate Received: 10/12/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/16/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/21/12Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 | 4 | | J |
| 83-32-9 | Acenaphthene | 3 | | J |
| 86-73-7 | Fluorene | 3 | | J |
| 85-01-8 | Phenanthrene | 2 | | 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

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-25

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154

Matrix: (soil/water) WATER

Lab Sample ID: 1210763-008B

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

Lab File ID: 2\R12137.D

Level: (low/med) LOW

Date Received: 10/12/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 10/16/12

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 10/21/12

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) | UG/L | Q |
|----------|------------------------|-----------------|------|---|
| 91-20-3 | Naphthalene | 1 | | J |
| 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-URS154 S73

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DUP 101212

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210763-009BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R12138.DLevel: (low/med) LOWDate Received: 10/12/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/16/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/21/12Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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-URS154 S74

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-12D

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210902-001BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R12324.DLevel: (low/med) LOWDate Received: 10/16/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/19/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/27/12Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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-12I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154

Matrix: (soil/water) WATER

Lab Sample ID: 1210902-002B

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

Lab File ID: 2\R12325.D

Level: (low/med) LOW

Date Received: 10/16/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 10/19/12

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 10/27/12

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 | 44 | | |
| 83-32-9 | Acenaphthene | 47 | | |
| 86-73-7 | Fluorene | 30 | | |
| 85-01-8 | Phenanthrene | 13 | | |
| 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

KEY-URS154 S76

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12S

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210902-003BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R12326.DLevel: (low/med) LOWDate Received: 10/16/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/19/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/27/12Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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-08D

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154

Matrix: (soil/water) WATER

Lab Sample ID: 1210902-004B

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

Lab File ID: 2\R12327.D

Level: (low/med) LOW

Date Received: 10/16/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 10/19/12

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 10/27/12

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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-URS154 S78

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-08I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210902-005BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R12328.DLevel: (low/med) LOWDate Received: 10/16/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/19/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/27/12Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-088

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210902-006BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R12329.DLevel: (low/med) LOWDate Received: 10/16/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/19/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/27/12Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) | UG/L | Q |
|----------|------------------------|-----------------|------|---|
| 91-20-3 | Naphthalene | 16 | | |
| 91-57-6 | 2-Methylnaphthalene | 5 | | J |
| 208-96-8 | Acenaphthylene | 4 | | J |
| 83-32-9 | Acenaphthene | 10 | | U |
| 86-73-7 | Fluorene | 10 | | U |
| 85-01-8 | Phenanthrene | 10 | | U |
| 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

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FB-101612

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS154Matrix: (soil/water) WATERLab Sample ID: 1210902-007BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R12330.DLevel: (low/med) LOWDate Received: 10/16/12% Moisture: Decanted: (Y/N) NDate Extracted: 10/19/12Concentrated Extract Volume: 1000 (µL)Date Analyzed: 10/27/12Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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

ATTACHMENT B
SUPPORT DOCUMENTATION

H2M LABS, INC.

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

40115 EXTERNAL CHAIN OF CUSTODY

| | | | | | |
|--|-------|---|------------|--|----------|
| PROJECT NAME/NUMBER NATIONAL GRID - HEMSTEAD/11176093 | | CLIENT: URS CORP | | H2M SDG NO: KEY-URS15A | |
| SAMPLERS: (signature)/Client <i>John Long</i> / URS MIKE BEUTHE / URS | | NOTES: PLEASE CALL PETER PARSONS WITH ANY QUESTIONS | | Project Contact: PETER PARSONS Phone Number: 716-802-5636 PIS/Quote # | |
| DELIVERABLES: | | ANALYSIS REQUESTED | | LAB I.D. NO. REMARKS: | |
| TURNAROUND TIME: STANDARD | | ORGANIC | | LAB I.D. NO. REMARKS: | |
| DATE | TIME | MATRIX | FIELD I.D. | LAB I.D. NO. | REMARKS: |
| 10/9/12 | 11:45 | AA | H1MW-13D | 001 | |
| 10/9/12 | 14:05 | AA | H1MW-13I | 002 | |
| 10/9/12 | 15:50 | AA | H1MW-22 | 000 | |
| 10/10/12 | 09:58 | AA | H1MW-15D | 004 | |
| 10/10/12 | 11:17 | AA | H1MW-15I | 005 | |
| 10/10/12 | 14:23 | AA | H1MW-14I | 003 | |
| 10/10/12 | 14:42 | AA | FB101012 | 006 | |
| 10/10/12 | 12:00 | AA | DUP101012 | 007 | |
| Retinquished by: (Signature) | | Date | Time | LABORATORY USE ONLY | |
| <i>John Long</i> | | 10-10-12 | 15:10 | Discrepancies Between Sample Labels and COC Record? Y or N | |
| Retinquished by: (Signature) | | Date | Time | Explain: | |
| <i>Mike Beuthe</i> | | 10/10/12 | 14:10 | 1. Shipped <input checked="" type="checkbox"/> Hand Delivered <input type="checkbox"/> Air Mail | |
| Retinquished by: (Signature) | | Date | Time | 2. Ambient of Chilled, Temp. <input type="checkbox"/> or N <input checked="" type="checkbox"/> 1.7° | |
| <i>Mike Beuthe</i> | | 10/10/12 | 16:10 | 3. Received in good condition <input type="checkbox"/> or N <input checked="" type="checkbox"/> 2.4° | |
| Retinquished by: (Signature) | | Date | Time | 4. Properly preserved: <input type="checkbox"/> Y or N <input checked="" type="checkbox"/> | |
| <i>Mike Beuthe</i> | | | | COC TAG WAS: | |
| Retinquished by: (Signature) | | Date | Time | 1. Present on outer package: Y or N <input checked="" type="checkbox"/> N | |
| <i>Mike Beuthe</i> | | | | 2. Unbroken on outer package: Y or N <input checked="" type="checkbox"/> N | |
| | | | | 3. COC record present & complete upon sample receipt: Y or N <input checked="" type="checkbox"/> N | |

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY



H2M LABS INC
 575 Broad Hollow Road
 Melville, NY 11747
 TEL: (631) 694-3040 FAX: (631) 420-8436
 Website: www.h2mlabs.com

Key-URS 154
Sample Receipt Checklist

Client Name **KEY-URS**

Date and Time Received: 10/10/2012 4:10:00 PM

Work Order Number: **1210642**

RcptNo: 1

Received by **Saul Weinstein**

Completed by: 

Reviewed by: 

Completed Date: 10/10/2012

Reviewed Date: 10/16/2012 5:36:44 PM

Carrier name: H2M Pickup

- 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
- Are matrices correctly identified on Chain of custody? Yes No
- Is it clear what analyses were requested? Yes No
- Custody seals intact on sample bottles? Yes No Not Present
- Samples in proper container/bottle? Yes No
- Were correct preservatives used and noted? Yes No NA
- Preservative added to bottles:
- Sample Condition? Intact Broken Leaking
- Sufficient sample volume for indicated test? Yes No
- Were container labels complete (ID, Pres, Date)? Yes No
- All samples received within holding time? Yes No
- Was an attempt made to cool the samples? Yes No NA
- All samples received at a temp. of > 0° C to 6.0° C? Yes No NA
- Response when temperature is outside of range:
- Sample Temp. taken and recorded upon receipt? Yes No 1.7 To 2.4 °
- Water - Were bubbles absent in VOC vials? Yes No No Vials
- Water - Was there Chlorine Present? Yes No NA
- Water - pH acceptable upon receipt? Yes No No Water
- Are Samples considered acceptable? Yes No
- Custody Seals present? Yes No
- Airbill or Sticker? Air Bil Sticker Not Present

Case Number:

SDG:
KEY-URS154

SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? Yes No Person Contacted: John Crespo
 Contact Mode: Phone: Fax: Email: In Person:

Client Instructions:

Date Contacted: 10/11/2012 Contacted By: Jennifer Aracri

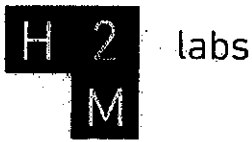
Regarding:

Comments:

The sample ID's werent written on the bottles. The time of collection was used to determine the ID's.
 For VOA analysis 3 sample bottles were received instead of 2 that are required. The third bottle will be used as spare volume.

CorrectiveAction:

KEY-URS154 S4



H2M LABS INC
 575 Broad Hollow Road
 Melville, NY 11747
 TEL: (631) 694-3040 FAX: (631) 420-8436
 Website: www.h2mlabs.com

KeyURS 154
Sample Receipt Checklist

Client Name **KEY-URS**

Date and Time Received: **10/12/2012 3:00:00 PM**

Work Order Number: **1210763**

RcptNo: **1**

Received by **Saul Weinstein**

Completed by: *Renee S. De...*

Reviewed by: *[Signature]*

Completed Date: **10/12/2012 5:10:42 PM**

Reviewed Date: **10/16/2012 6:18:23 PM**

Carrier name: **H2M Pickup**

- 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
- Are matrices correctly identified on Chain of custody? Yes No
- Is it clear what analyses were requested? Yes No
- Custody seals intact on sample bottles? Yes No Not Present
- Samples in proper container/bottle? Yes No
- Were correct preservatives used and noted? Yes No NA
- Preservative added to bottles:
- Sample Condition? Intact Broken Leaking
- Sufficient sample volume for indicated test? Yes No
- Were container labels complete (ID, Pres, Date)? Yes No
- All samples received within holding time? Yes No
- Was an attempt made to cool the samples? Yes No NA
- All samples received at a temp. of > 0° C to 6.0° C? Yes No NA
- Response when temperature is outside of range:
- Sample Temp. taken and recorded upon receipt? Yes No 2.8 To 3.6 °
- Water - Were bubbles absent in VOC vials? Yes No No Vials
- Water - Was there Chlorine Present? Yes No NA
- Water - pH acceptable upon receipt? Yes No No Water
- Are Samples considered acceptable? Yes No
- Custody Seals present? Yes No
- Airbill or Sticker? Air Bil Sticker Not Present

Case Number:

SDG:
KEY-URS154

SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? Yes No Person Contacted:
 Contact Mode: Phone: Fax: Email: In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

H2M did not receive VOA vials for HIMW-25

CorrectiveAction:

KEY-URS154 S11

H2M LABS, INC.

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

38228 EXTERNAL CHAIN OF CUSTODY

PROJECT NAME/NUMBER

National Grid - Hempstead
 11176098.0007

SAMPLERS: (signature)/Client

Megan Dascal / Megan Dascal, VLS

DELIVERABLES:

TURNAROUND TIME: Standard

| | | | |
|--|-------------------------|-------------------------|--------------------------|
| CLIENT: VRS Corp | | H2M SDG NO: KEN-VRS 154 | |
| Project Contact: Pete Fairbank Jon Sundquist | | Phone Number: | |
| P/S/Quote # | | NOTES: | |
| Sample Container Description | ↑ | VOC 8260B SVOC 8270C | |
| ANALYSIS REQUESTED | ORGANIC | VOC | X |
| | INORG. | Metal | X |
| DATE | TIME | MATRIX | FIELD I.D. |
| 10/15/12 | 1140 | GW | H1MW-12-D |
| 10/15/12 | 1355 | GW | H1MW-13-2-I |
| 10/15/12 | 1540 | GW | H1MW-12-S |
| 10/16/12 | 915 | GW | H1MW-08-D |
| 10/16/12 | 1040 | GW | H1MW-08-I |
| 10/16/12 | 1148 | GW | H1MW-08-S |
| 10/16/12 | 1230 | H2O | TB10/6/12 |
| 10/16/12 | 1215 | H2O | FB10/6/12 |
| Retrieved by: (Signature) | Date | Time | Received by: (Signature) |
| Megan Dascal | 10/16/12 | 15:08 | Megan Dascal |
| Retrieved by: (Signature) | Date | Time | Received by: (Signature) |
| Sund | 10/16/12 | 16:10 | M |
| Retrieved by: (Signature) | Date | Time | Received by: (Signature) |
| | Date | Time | Received by: (Signature) |
| Retrieved by: (Signature) | Date | Time | Received by: (Signature) |
| | Date | Time | Received by: (Signature) |
| Sample Container | Total No. of Containers | LAB I.D. NO. | REMARKS: |
| 4 | 4 | 1210902-001 | |
| 4 | 4 | -002 | |
| 4 | 4 | -003 | |
| 4 | 4 | -004 | |
| 4 | 4 | -005 | |
| 4 | 4 | -006 | |
| 2 | 2 | -008 | |
| 4 | 4 | -007 | |

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:

- Shipped or Hand Delivered Airbill #
- Ambient (filled) Temp 37.0C
- Received in good condition: Y or N
- Properly preserved: Y or N 1.20C

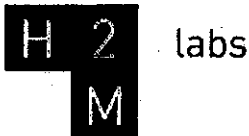
COC TAGS WERE:

- Present on outer package: Y or N
- Unbroken on outer package: Y or N
- COC record present & complete upon sample receipt:

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY



H2M LABS INC
 575 Broad Hollow Road
 Melville, NY 11747
 TEL: (631) 694-3040 FAX: (631) 420-8436
 Website: www.h2mlabs.com

KEY-URS 154
 Sample Receipt Checklist

Client Name **KEY-URS**

Date and Time Received: 10/16/2012 4:10:00 PM

Work Order Number: 1210902

RcptNo: 1

Received by **Melissa Watson**

Completed by:

M. Watson

Reviewed by:

James Car

Completed Date:

10/17/2012

Reviewed Date:

10/19/2012 1:39:52 PM

Carrier name: **H2M Pickup**

- 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
- Are matrices correctly identified on Chain of custody? Yes No
- Is it clear what analyses were requested? Yes No
- Custody seals intact on sample bottles? Yes No Not Present
- Samples in proper container/bottle? Yes No
- Were correct preservatives used and noted? Yes No NA
- Preservative added to bottles:
- Sample Condition? Intact Broken Leaking
- Sufficient sample volume for indicated test? Yes No
- Were container labels complete (ID, Pres, Date)? Yes No
- All samples received within holding time? Yes No
- Was an attempt made to cool the samples? Yes No NA
- All samples received at a temp. of > 0° C to 6.0° C? Yes No NA
- Response when temperature is outside of range:
- Sample Temp. taken and recorded upon receipt? Yes No 1.8 To 3.7°
- Water - Were bubbles absent in VOC vials? Yes No No Vials
- Water - Was there Chlorine Present? Yes No NA
- Water - pH acceptable upon receipt? Yes No No Water
- Are Samples considered acceptable? Yes No
- Custody Seals present? Yes No
- Airbill or Sticker? Air Bill Sticker Not Present

Case Number:

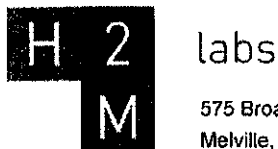
SDG:
KEY-URS154

SAS:

Any No response should be detailed in the comments section below, if applicable.

- Client Contacted? Yes No Person Contacted:
- Contact Mode: Phone: Fax: Email: In Person:
- Client Instructions:
- Date Contacted: Contacted By:
- Regarding:
- Comments:
- CorrectiveAction:

KEY-URS154 S17



575 Broad Hollow Road
Melville, NY 11747

tel 631.694.3040
fax 631.420.8436

**SDG NARRATIVE FOR VOLATILE ORGANICS
SAMPLES RECEIVED: 10/10/12 – 10/16/12
SDG #: KEY-URS154**

For Sample(s):

| | | | |
|------------|-----------|------------|-----------|
| HIMW-13D | TB 101012 | HIMW-24 | HIMW-08D |
| HIMW-13I | HIMW-05D | HIMW-25 | HIMW-08I |
| HIMW-14I | HIMW-05I | DUP 101212 | HIMW-08S |
| HIMW-15D | HIMW-05S | TB 101212 | FB-101612 |
| HIMW-15I | HIMW-20I | HIMW-12D | TB-101612 |
| HIMW-22 | HIMW-20S | HIMW-12I | |
| DUP 101012 | HIMW-23 | HIMW-12S | |

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

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


Sample HIMW-20I was analyzed as the matrix spike/matrix spike duplicate. All percent recoveries and RPDs were met. Lab fortified blanks were analyzed and indicate good method efficiency.

CCC and SPCC requirements were met in all calibrations. Average response factors or linear regression were used as appropriate for the initial calibration.

In the continuous calibration, several targeted analytes exceeded 15% for %D. The results for these compounds are flagged with the qualifier "Z" on the report to indicate that they are regarded estimated.

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: November 9, 2012
Date Revised: December 5, 2012

*  *
*

Joann M. Slavin
Senior Vice President

KEY-URS154 A3 Revised CLG Dec-10-12



labs

575 Broad Hollow Road
Melville, NY 11747

tel 631.694.3040
fax 631.420.8436

SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLES RECEIVED: 10/10/12, 10/12/12 & 10/16/12
SDG #: KEY-URS154

Page 1 of 2

For Sample(s):

| | | | |
|----------|------------|------------|-----------|
| HIMW-13D | DUP 101012 | HIMW-23 | HIMW-12S |
| HIMW-13I | HIMW-05D | HIMW-24 | HIMW-08D |
| HIMW-14I | HIMW-05I | HIMW-25 | HIMW-08I |
| HIMW-15D | HIMW-05S | DUP 101212 | HIMW-08S |
| HIMW-15I | HIMW-20I | HIMW-12D | FB-101612 |
| HIMW-22 | HIMW-20S | HIMW-12I | |

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

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

Sample HIMW-20I was analyzed as the matrix spike/matrix spike duplicate (MS/MSD). Four lab fortified blanks were analyzed, and results indicate good method efficiency. The matrix spike had to be re-extracted, because no spike had been added. Even though the re-extract was performed outside holding time, the original is not reported, because recoveries could not be evaluated. The MS/MSD RPD for the recoveries of acenaphthene exceeded the Q. C. limit.

Three samples were reanalyzed at dilutions to keep the concentration of targeted analytes within the calibration range. Both sets of data are reported. No surrogate recoveries are reported for two dilutions, because the surrogates were diluted out.

The recovery for 4-terphenyl-d14 was below the Q. C. limit in sample HIMW-15I.

In the calibrations, CCC and SPCC requirements were met. In the initial calibrations average response factors were employed as applicable, and linear regression functions were used for RSDs above 15%.

In the continuous calibration on 10/17/12 several targeted analytes exceeded 15% for %D. The results for these compounds are flagged with the qualifier "Z" on the report to indicate that they are regarded estimated. This applies to LFB-36906, but none of the samples analyzed on that day contained positives for these analytes.

KEY-URS154 S24



labs

575 Broad Hollow Road
Melville, NY 11747

tel 631.694.3040
fax 631.420.8436

**SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLES RECEIVED: 10/10/12, 10/12/12 & 10/16/12
SDG #: KEY-URS154**

Page 2 of 2

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: November 10, 2012

* *Ursula Middel* *
* *Ursula Middel* *

Ursula Middel
Technical Manager

KEY-URS154 S25

**APPENDIX A
DATA USABILITY SUMMARY REPORT
FOURTH QUARTER 2012**

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

**Analyses Performed by:
H2M LABS, INC.**

Prepared For:

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

Prepared by:

**URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203**

FEBRUARY 2013

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| III. DATA DELIVERABLE COMPLETENESS | A-2 |
| IV. SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES | A-2 |
| V. NON-CONFORMANCES | A-2 |
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| VII. SUMMARY | A-3 |

TABLES (Following Text)

| | |
|-----------|---|
| Table A-1 | Validated Groundwater Sample Analytical Results |
| Table A-2 | Validated Field QC Sample Analytical Results |

APPENDICES (Following Tables)

| | |
|--------------|-----------------------|
| Attachment A | Validated Form 1's |
| Attachment B | Support Documentation |

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 *DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for Data Deliverables and Development of Data Usability Summary Reports*, May 2010.

Discussed in this DUSR are the analytical data for twenty-five (25) groundwater samples, two (2) field duplicates, one (1) matrix spike/matrix spike duplicate (MS/MSD) pair, one (1) field blank, and three (3) trip blanks collected by URS personnel from December 18-28, 2012. The samples were collected as part of the 2012 fourth quarter groundwater monitoring event at the Hempstead Intersection Street Former MGP Site.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION PROCEDURES

The samples were analyzed by H2M Labs, 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 (i.e., 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 laboratory data qualifiers.

Qualifications applied to the data during the data validation process include 'J' (estimated) and 'UJ' (estimated quantitation limit). 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 Attachment A. Copies of the chain-of-custodies (COC), case narratives, and documentation supporting the qualification of data are presented in Attachment B. Only problems affecting data usability are discussed in this report.

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. SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper COC. All samples were analyzed within the required holding times.

V. NON-CONFORMANCES

For PAH analyses, the percent difference (%D) between the initial calibration (ICAL) average relative response factor (RRF) and the RRF in the continuing calibration (CCAL) standard was greater than 20.0% for benzo(b)fluoranthene. The non-detect benzo(b)fluoranthene results for the following samples were qualified 'UJ': HIMW-03D, -03I, -03S, -05D, -05I, -05S, -12I, -12S, and FB122812.

Documentation supporting the qualification of data (i.e., Forms 5 and 7) is presented in Attachment B.

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.


Field duplicates were collected from monitoring well locations HIMW-20S (DUP-122012) and HIMW-25 (DUP-122112), which exhibited acceptable field and analytical precision [i.e., <20 relative percent difference (RPD)].

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: 
Peter R. Fairbanks, Senior Chemist

Date: 2/11/13

Reviewed By: 
George E. Kisluk, Senior Chemist

Date: 2-11-13

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-03D | HIMW-03I | HIMW-03S | HIMW-05D | HIMW-05I |
| Matrix | | | Groundwater | Groundwater | Groundwater | Groundwater | Groundwater |
| Depth Interval (ft) | | | - | - | - | - | - |
| Date Sampled | | | 12/27/12 | 12/28/12 | 12/27/12 | 12/28/12 | 12/28/12 |
| Parameter | Units | Criteria* | | | | | |
| Volatile Organic Compounds | | | | | | | |
| Benzene | UG/L | - | 1 U | 1 U | 1 U | 7 | 4 |
| Ethylbenzene | UG/L | - | 1 U | 1 U | 1 U | 1 U | 2 |
| Toluene | UG/L | - | 1 U | 1 U | 1 U | 0.8 J | 1 |
| Xylene (total) | UG/L | - | 1 U | 1 U | 1 U | 72 | 120 |
| Total BTEX | UG/L | 100 | ND | ND | ND | 79.8 | 127 |
| Semivolatile Organic Compounds | | | | | | | |
| 2-Methylnaphthalene | UG/L | - | 10 U | 10 U | 10 U | 140 JD | 370 JD |
| Acenaphthene | UG/L | - | 10 U | 10 U | 10 U | 2 J | 10 |
| Acenaphthylene | UG/L | - | 10 U | 10 U | 10 U | 38 | 190 JD |
| 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 UJ | 10 UJ | 10 UJ | 10 UJ | 10 UJ |
| 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 | 6 J | 23 |
| 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 | 1,900 D |
| Phenanthrene | UG/L | - | 10 U | 10 U | 10 U | 10 U | 12 |
| Pyrene | UG/L | - | 10 U | 10 U | 10 U | 10 U | 10 U |
| Total Polynuclear Aromatic Hydrocarbons | UG/L | 100 | ND | ND | ND | 1,286 | 2,507 |

*Criteria- Groundwater 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

UJ - Not detected. The reported quantitation limit is an estimated value

D - Result reported from a secondary dilution analysis

Made By_PRF 01/29/13_ Checked By_GEK 02/05/13_


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 | | | 12/27/12 | 12/27/12 | 12/19/12 | 12/19/12 | 12/19/12 |
| Parameter | Units | Criteria* | | | | | |
| Volatile Organic Compounds | | | | | | | |
| Benzene | UG/L | - | 50 | 1 U | 2 | 6 | 1 U |
| Ethylbenzene | UG/L | - | 1 U | 1 U | 1 U | 1 | 1 U |
| Toluene | UG/L | - | 1 U | 1 U | 1 U | 1 U | 1 U |
| Xylene (total) | UG/L | - | 3 | 1 U | 1 | 1 U | 1 U |
| Total BTEX | UG/L | 100 | 53 | ND | 3 | 7 | ND |
| Semivolatile Organic Compounds | | | | | | | |
| 2-Methylnaphthalene | UG/L | - | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acenaphthene | UG/L | - | 39 | 10 U | 6 J | 10 U | 10 U |
| Acenaphthylene | UG/L | - | 36 | 10 U | 12 | 5 J | 10 U |
| Anthracene | UG/L | - | 1 J | 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 UJ | 10 UJ | 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 | - | 25 | 10 U | 10 U | 1 J | 10 U |
| Indeno(1,2,3-cd)pyrene | UG/L | - | 10 U | 10 U | 10 U | 10 U | 10 U |
| Naphthalene | UG/L | - | 1 J | 5 J | 10 U | 10 U | 10 U |
| Phenanthrene | UG/L | - | 11 | 10 U | 10 U | 2 J | 10 U |
| Pyrene | UG/L | - | 10 U | 10 U | 10 U | 10 U | 10 U |
| Total Polynuclear Aromatic Hydrocarbons | UG/L | 100 | 113 | 5 | 18 | 8 | ND |

*Criteria- Groundwater 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

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D - Result reported from a secondary dilution analysis

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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-014I | HIMW-015D | HIMW-015I | HIMW-020I |
|---|-------|-----------|-------------|-------------|-------------|-------------|-------------|
| Sample ID | | | HIMW-14D | HIMW-14I | HIMW-15D | HIMW-15I | HIMW-20I |
| Matrix | | | Groundwater | Groundwater | Groundwater | Groundwater | Groundwater |
| Depth Interval (ft) | | | - | - | - | - | - |
| Date Sampled | | | 12/18/12 | 12/18/12 | 12/18/12 | 12/18/12 | 12/20/12 |
| Parameter | Units | Criteria* | | | | | |
| Volatile Organic Compounds | | | | | | | |
| Benzene | UG/L | - | 1 U | 34 | 1 U | 10 | 7 |
| Ethylbenzene | UG/L | - | 1 U | 4 | 1 U | 1 U | 1 |
| Toluene | UG/L | - | 1 U | 1 U | 1 U | 1 U | 2 |
| Xylene (total) | UG/L | - | 1 U | 4 | 1 U | 2 | 120 |
| Total BTEX | UG/L | 100 | ND | 42 | ND | 12 | 130 |
| Semivolatile Organic Compounds | | | | | | | |
| 2-Methylnaphthalene | UG/L | - | 10 U | 10 U | 10 U | 10 U | 130 DJ |
| Acenaphthene | UG/L | - | 10 U | 16 | 10 U | 5 J | 8 J |
| Acenaphthylene | UG/L | - | 10 U | 22 | 10 U | 11 | 150 DJ |
| Anthracene | UG/L | - | 10 U | 1 J | 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 | 7 J | 10 U | 10 U | 16 |
| 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 | 950 D |
| Phenanthrene | UG/L | - | 10 U | 6 J | 10 U | 2 J | 10 |
| Pyrene | UG/L | - | 10 U | 1 J | 10 U | 10 U | 10 U |
| Total Polynuclear Aromatic Hydrocarbons | UG/L | 100 | ND | 53 | ND | 18 | 1,266 |

*Criteria- Groundwater 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

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UJ - Not detected. The reported quantitation limit is an estimated value

D - Result reported from a secondary dilution analysis

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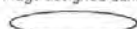
Detection Limits shown are PQL

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

| Location ID | | | HIMW-020S | HIMW-020S | HIMW-022 | HIMW-023 | HIMW-024 |
|---|-------|-----------|-----------------------|-------------|-------------|-------------|-------------|
| Sample ID | | | DUP122012 | HIMW-20S | HIMW-22 | HIMW-23 | HIMW-24 |
| Matrix | | | Groundwater | Groundwater | Groundwater | Groundwater | Groundwater |
| Depth Interval (ft) | | | - | - | - | - | - |
| Date Sampled | | | 12/20/12 | 12/20/12 | 12/19/12 | 12/19/12 | 12/20/12 |
| Parameter | Units | Criteria* | Field Duplicate (1-1) | | | | |
| Volatile Organic Compounds | | | | | | | |
| Benzene | UG/L | - | 1 U | 1 U | 14 | 2 | 16 |
| Ethylbenzene | UG/L | - | 1 U | 1 U | 1 U | 1 U | 15 |
| Toluene | UG/L | - | 1 U | 1 U | 1 U | 1 U | 1 U |
| Xylene (total) | UG/L | - | 1 U | 1 U | 12 | 1 | 3 |
| Total BTEX | UG/L | 100 | ND | ND | 26 | 3 | 34 |
| Semivolatile Organic Compounds | | | | | | | |
| 2-Methylnaphthalene | UG/L | - | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acenaphthene | UG/L | - | 10 U | 10 U | 1 J | 10 U | 2 J |
| Acenaphthylene | UG/L | - | 10 U | 10 U | 13 | 4 J | 4 J |
| 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 | 4 J |
| 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 | 2 J | 10 U | 3 J |
| Pyrene | UG/L | - | 10 U | 10 U | 10 U | 10 U | 10 U |
| Total Polynuclear Aromatic Hydrocarbons | UG/L | 100 | ND | ND | 16 | 4 | 13 |

*Criteria- Groundwater 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

UG - Not detected. The reported quantitation limit is an estimated value

D - Result reported from a secondary dilution analysis

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Detection Limits shown are PQL

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

| Location ID | | | HIMW-025 | HIMW-025 |
|---|-------|-----------|-----------------------|-------------|
| Sample ID | | | DUP122112 | HIMW-25 |
| Matrix | | | Groundwater | Groundwater |
| Depth Interval (ft) | | | - | - |
| Date Sampled | | | 12/21/12 | 12/21/12 |
| Parameter | Units | Criteria* | Field Duplicate (1-1) | |
| Volatile Organic Compounds | | | | |
| Benzene | UG/L | - | 2 | 2 |
| Ethylbenzene | UG/L | - | 3 | 3 |
| Toluene | UG/L | - | 8 | 8 |
| Xylene (total) | UG/L | - | 200 | 210 |
| Total BTEX | UG/L | 100 | 213 | 223 |
| Semivolatile Organic Compounds | | | | |
| 2-Methylnaphthalene | UG/L | - | 10 U | 10 U |
| Acenaphthene | UG/L | - | 10 U | 10 U |
| Acenaphthylene | UG/L | - | 10 U | 10 U |
| Anthracene | UG/L | - | 10 U | 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 | - | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | UG/L | - | 10 U | 10 U |
| Naphthalene | UG/L | - | 10 U | 10 U |
| Phenanthrene | UG/L | - | 10 U | 10 U |
| Pyrene | UG/L | - | 10 U | 10 U |
| Total Polynuclear Aromatic Hydrocarbons | UG/L | 100 | ND | ND |

*Criteria- Groundwater 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.

UJ - Not detected. The reported quantitation limit is an estimated value.

D - Result reported from a secondary dilution analysis.

Made By_PRF 01/29/13_ Checked By_GEK 02/05/13_

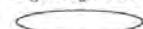
Detection Limits shown are PQL

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

| Location ID | | | FIELDQC | FIELDQC | FIELDQC | FIELDQC |
|---|-------|-----------|-----------------|-----------------|-------------------|-----------------|
| Sample ID | | | TB-121912 | TB-122112 | FB-122812 | TB-122812 |
| Matrix | | | Water Quality | Water Quality | Water Quality | Water Quality |
| Depth Interval (ft) | | | - | - | - | - |
| Date Sampled | | | 12/19/12 | 12/21/12 | 12/28/12 | 12/28/12 |
| Parameter | Units | Criteria* | Trp Blank (1-1) | Trp Blank (1-1) | Field Blank (1-1) | Trp Blank (1-1) |
| Volatile Organic Compounds | | | | | | |
| Benzene | UG/L | - | 1 U | 1 U | 1 U | 1 U |
| Ethylbenzene | UG/L | - | 1 U | 1 U | 1 U | 1 U |
| Toluene | UG/L | - | 1 U | 1 U | 1 U | 1 U |
| Xylene (total) | UG/L | - | 1 U | 1 U | 1 U | 1 U |
| Total BTEX | UG/L | 100 | ND | ND | ND | ND |
| Semivolatile Organic Compounds | | | | | | |
| 2-Methylnaphthalene | UG/L | - | NA | NA | 10 U | NA |
| Acenaphthene | UG/L | - | NA | NA | 10 U | NA |
| Acenaphthylene | UG/L | - | NA | NA | 10 U | NA |
| Anthracene | UG/L | - | NA | NA | 10 U | NA |
| Benzo(a)anthracene | UG/L | - | NA | NA | 10 U | NA |
| Benzo(a)pyrene | UG/L | - | NA | NA | 10 U | NA |
| Benzo(b)fluoranthene | UG/L | - | NA | NA | 10 UJ | NA |
| Benzo(g,h,i)perylene | UG/L | - | NA | NA | 10 U | NA |
| Benzo(k)fluoranthene | UG/L | - | NA | NA | 10 U | NA |
| Chrysene | UG/L | - | NA | NA | 10 U | NA |
| Dibenz(a,h)anthracene | UG/L | - | NA | NA | 10 U | NA |
| Fluoranthene | UG/L | - | NA | NA | 10 U | NA |
| Fluorene | UG/L | - | NA | NA | 10 U | NA |
| Indeno(1,2,3-cd)pyrene | UG/L | - | NA | NA | 10 U | NA |
| Naphthalene | UG/L | - | NA | NA | 10 U | NA |
| Phenanthrene | UG/L | - | NA | NA | 10 U | NA |
| Pyrene | UG/L | - | NA | NA | 10 U | NA |
| Total Polynuclear Aromatic Hydrocarbons | UG/L | 100 | NA | NA | ND | NA |

*Criteria- Groundwater 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

UJ - Not detected. The reported quantitation limit is an estimated value.

NA - The sample was not analyzed for this parameter

Made By_PRF 01/29/13_ Checked By_GEK 02/05/13_

Detection Limits shown are PQL

ATTACHMENT A
VALIDATED FORM 1'S

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.

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-03S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS157

Matrix: (soil/water) WATER Lab Sample ID: 1212D60-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A77808.D

Level: (low/med) LOW Date Received: 12/28/12

% Moisture: not dec. Date Analyzed: 01/03/13

GC Column: Rtx-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 |
| 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 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-031

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS157
 Matrix: (soil/water) WATER Lab Sample ID: 1212D60-005A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A77806.D
 Level: (low/med) LOW Date Received: 12/28/12
 % Moisture: not dec. Date Analyzed: 01/03/13
 GC Column: Rtx-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 |
| 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 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-03D

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS157
 Matrix: (soil/water) WATER Lab Sample ID: 1212D60-004A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A77807.D
 Level: (low/med) LOW Date Received: 12/28/12
 % Moisture: not dec. Date Analyzed: 01/03/13
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05S

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS157
 Matrix: (soil/water) WATER Lab Sample ID: 1212D60-006A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A77805.D
 Level: (low/med) LOW Date Received: 12/28/12
 % Moisture: not dec. Date Analyzed: 01/03/13
 GC Column: Rtx-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 |
| 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 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05I

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS157
 Matrix: (soil/water) WATER Lab Sample ID: 1212D60-007A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A77802.D
 Level: (low/med) LOW Date Received: 12/28/12
 % Moisture: not dec. Date Analyzed: 01/03/13
 GC Column: Rtx-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) <u>UG/L</u> | <u>Q</u> |
| 71-43-2 | Benzene | 4 | |
| 108-88-3 | Toluene | 1 | |
| 100-41-4 | Ethylbenzene | 2 | |
| 1330-20-7 | Xylene (total) | 120 | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS157

Matrix: (soil/water) WATER Lab Sample ID: 1212D60-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A77801.D

Level: (low/med) LOW Date Received: 12/28/12

% Moisture: not dec. Date Analyzed: 01/03/13

GC Column: Rtx-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 | 7 | |
| 108-88-3 | Toluene | 0.8 | J |
| 100-41-4 | Ethylbenzene | 1 | U |
| 1330-20-7 | Xylene (total) | 72 | |

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-8S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212B46-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8818.D

Level: (low/med) LOW Date Received: 12/21/12

% Moisture: not dec. Date Analyzed: 12/28/12

GC Column: Rtx-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) <u>UG/L</u> | Q |
| 71-43-2 | Benzene | 8 | |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 1 | U |
| 1330-20-7 | Xylene (total) | 5 | |

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-81

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212B46-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8817.D

Level: (low/med) LOW Date Received: 12/21/12

% Moisture: not dec. Date Analyzed: 12/28/12

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 |

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-8D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212B46-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8816.D

Level: (low/med) LOW Date Received: 12/21/12

% Moisture: not dec. Date Analyzed: 12/28/12

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
HIMW-12S

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS157
 Matrix: (soil/water) WATER Lab Sample ID: 1212D60-001A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A77810.D
 Level: (low/med) LOW Date Received: 12/28/12
 % Moisture: not dec. Date Analyzed: 01/03/13
 GC Column: Rtx-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 |
| 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 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS157

Matrix: (soil/water) WATER Lab Sample ID: 1212D60-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A77809.D

Level: (low/med) LOW Date Received: 12/28/12

% Moisture: not dec. Date Analyzed: 01/03/13

GC Column: Rtx-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 | 50 | |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 1 | U |
| 1330-20-7 | Xylene (total) | 3 | |

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-12D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212B46-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8819.D

Level: (low/med) LOW Date Received: 12/21/12

% Moisture: not dec. Date Analyzed: 12/28/12

GC Column: Rtx-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 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212A52-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8809.D

Level: (low/med) LOW Date Received: 12/19/12

% Moisture: not dec. Date Analyzed: 12/28/12

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 |

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-13I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212A52-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8810.D

Level: (low/med) LOW Date Received: 12/19/12

% Moisture: not dec. Date Analyzed: 12/28/12

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) UG/L | Q |
|-----------|----------------|----------------------|---|
| 71-43-2 | Benzene | 6 | |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 1 | |
| 1330-20-7 | Xylene (total) | 1 | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-13D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212A52-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8811.D

Level: (low/med) LOW Date Received: 12/19/12

% Moisture: not dec. Date Analyzed: 12/28/12

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

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

CONCENTRATION UNITS:

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14I

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156
 Matrix: (soil/water) WATER Lab Sample ID: 1212A52-003A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8813.D
 Level: (low/med) LOW Date Received: 12/19/12
 % Moisture: not dec. Date Analyzed: 12/28/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) UG/L | Q |
|-----------|----------------|----------------------|---|
| 71-43-2 | Benzene | 34 | |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 4 | |
| 1330-20-7 | Xylene (total) | 4 | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212A52-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8812.D

Level: (low/med) LOW Date Received: 12/19/12

% Moisture: not dec. Date Analyzed: 12/28/12

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 |

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-15I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212A52-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8815.D

Level: (low/med) LOW Date Received: 12/19/12

% Moisture: not dec. Date Analyzed: 12/28/12

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) <u>UG/L</u> | Q |
|-----------|----------------|-----------------------------|---|
| 71-43-2 | Benzene | 10 | |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 1 | U |
| 1330-20-7 | Xylene (total) | 2 | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15D

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156
 Matrix: (soil/water) WATER Lab Sample ID: 1212A52-002A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8814.D
 Level: (low/med) LOW Date Received: 12/19/12
 % Moisture: not dec. Date Analyzed: 12/28/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212B46-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8821.D

Level: (low/med) LOW Date Received: 12/21/12

% Moisture: not dec. Date Analyzed: 12/28/12

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 |

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| |
|-----------|
| DUP122012 |
|-----------|

Lab Name: H2M LABS INC

Contract: _____

*Field Duplicate of
H1Mw-205*Lab Code: H2MCase No.: KEY-URS SAS No.: _____SDG No.: KEY-URS156

Matrix: (soil/water)

WATERLab Sample ID: 1212B46-009ASample wt/vol: 5(g/mL) MLLab File ID: 12\J8824.D

Level: (low/med)

LOWDate Received: 12/21/12

% Moisture: not dec.

Date Analyzed: 12/28/12GC Column: Rtx-624ID: .18 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 |

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212B46-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8820.D

Level: (low/med) LOW Date Received: 12/21/12

% Moisture: not dec. Date Analyzed: 12/28/12

GC Column: Rtx-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 | 7 | |
| 108-88-3 | Toluene | 2 | |
| 100-41-4 | Ethylbenzene | 1 | |
| 1330-20-7 | Xylene (total) | 120 | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-22

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156
 Matrix: (soil/water) WATER Lab Sample ID: 1212A52-009A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8807.D
 Level: (low/med) LOW Date Received: 12/19/12
 % Moisture: not dec. Date Analyzed: 12/28/12
 GC Column: Rtx-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) <u>UG/L</u> | <u>Q</u> |
| 71-43-2 | Benzene | 14 | |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 1 | U |
| 1330-20-7 | Xylene (total) | 12 | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-23

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212A52-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8808.D

Level: (low/med) LOW Date Received: 12/19/12

% Moisture: not dec. Date Analyzed: 12/28/12

GC Column: Rtx-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 | |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 1 | U |
| 1330-20-7 | Xylene (total) | 1 | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-24

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212B46-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8822.D

Level: (low/med) LOW Date Received: 12/21/12

% Moisture: not dec. Date Analyzed: 12/28/12

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) UG/L | Q |
|-----------|----------------|----------------------|---|
| 71-43-2 | Benzene | 16 | |
| 108-88-3 | Toluene | 1 | U |
| 100-41-4 | Ethylbenzene | 15 | |
| 1330-20-7 | Xylene (total) | 3 | |

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-25

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212B46-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8823.D

Level: (low/med) LOW Date Received: 12/21/12

% Moisture: not dec. Date Analyzed: 12/28/12

GC Column: Rtx-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 | |
| 108-88-3 | Toluene | 8 | |
| 100-41-4 | Ethylbenzene | 3 | |
| 1330-20-7 | Xylene (total) | 210 | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP122112

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212B46-010A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8825.D

Level: (low/med) LOW Date Received: 12/21/12

% Moisture: not dec. Date Analyzed: 12/28/12

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

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

*Field Duplicate of
H101W-25*

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|-----------|----------------|----------------------|---|
| | | (µg/L or µg/Kg) UG/L | Q |
| 71-43-2 | Benzene | 2 | |
| 108-88-3 | Toluene | 8 | |
| 100-41-4 | Ethylbenzene | 3 | |
| 1330-20-7 | Xylene (total) | 200 | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-121912

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212A52-010A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\J8806.D

Level: (low/med) LOW Date Received: 12/19/12

% Moisture: not dec. Date Analyzed: 12/28/12

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-122812

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS157
 Matrix: (soil/water) WATER Lab Sample ID: 1212D60-009A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A77821.D
 Level: (low/med) LOW Date Received: 12/28/12
 % Moisture: not dec. Date Analyzed: 01/04/13
 GC Column: Rtx-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 |
| 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 |

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB-122812

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS157

Matrix: (soil/water) WATER Lab Sample ID: 1212D60-010A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A77820.D

Level: (low/med) LOW Date Received: 12/28/12

% Moisture: not dec. Date Analyzed: 01/04/13

GC Column: Rtx-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) <u>UG/L</u> | <u>Q</u> |
| 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 |

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB-122112

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212B46-011A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A77818.D

Level: (low/med) LOW Date Received: 12/21/12

% Moisture: not dec. Date Analyzed: 01/04/13

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

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 |

IC

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-03S

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS157Matrix: (soil/water) WATERLab Sample ID: 1212D60-003BSample wt/vol: 1000 (g/mL) mlLab File ID: 3\N55394.DLevel: (low/med) LOWDate Received: 12/28/12% Moisture: Decanted: (Y/N) NDate Extracted: 01/02/13Concentrated Extract Volume: 1000 (µL)Date Analyzed: 01/03/13Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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 J |
| 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

1/28/13
2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-03I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS157Matrix: (soil/water) WATERLab Sample ID: 1212D60-005BSample wt/vol: 1000 (g/mL) mlLab File ID: 3\N55396.DLevel: (low/med) LOWDate Received: 12/28/12% Moisture: Decanted: (Y/N) NDate Extracted: 01/02/13Concentrated Extract Volume: 1000 (µL)Date Analyzed: 01/04/13Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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-03D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS157

Matrix: (soil/water) WATER Lab Sample ID: 1212D60-004B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 3\N55395.D

Level: (low/med) LOW Date Received: 12/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 01/02/13

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/03/13

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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

1/25/13
2-

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS157

Matrix: (soil/water) WATER Lab Sample ID: 1212D60-006B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 3\N55397.D

Level: (low/med) LOW Date Received: 12/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 01/02/13

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/04/13

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (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

1/28/13

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS157Matrix: (soil/water) WATERLab Sample ID: 1212D60-007BSample wt/vol: 1000 (g/mL) mlLab File ID: 3\N55398.DLevel: (low/med) LOWDate Received: 12/28/12% Moisture: Decanted: (Y/N) NDate Extracted: 01/02/13Concentrated Extract Volume: 1000 (µL)Date Analyzed: 01/04/13Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) | UG/L | Q |
|----------|------------------------|-----------------|------|-------|
| 91-20-3 | Naphthalene | 1900 | 860 | E D |
| 91-57-6 | 2-Methylnaphthalene | 370 | 280 | E D J |
| 208-96-8 | Acenaphthylene | 190 | 140 | E D J |
| 83-32-9 | Acenaphthene | | 10 | |
| 86-73-7 | Fluorene | | 23 | |
| 85-01-8 | Phenanthrene | | 12 | |
| 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 J |
| 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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05IDL

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS157Matrix: (soil/water) WATERLab Sample ID: 1212D60-007BDLSample wt/vol: 1000 (g/mL) MLLab File ID: 3\N55415.DLevel: (low/med) LOWDate Received: 12/28/12% Moisture: Decanted: (Y/N) NDate Extracted: 01/02/13Concentrated Extract Volume: 1000 (µL)Date Analyzed: 01/04/13Injection Volume: 2 (µL)Dilution Factor: 40.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) | UG/L | Q |
|----------|------------------------|-----------------|------|----|
| 91-20-3 | Naphthalene | 1900 | | D |
| 91-57-6 | 2-Methylnaphthalene | 370 | | DJ |
| 208-96-8 | Acenaphthylene | 190 | | DJ |
| 83-32-9 | Acenaphthene | 400 | | U |
| 86-73-7 | Fluorene | 400 | | U |
| 85-01-8 | Phenanthrene | 400 | | U |
| 120-12-7 | Anthracene | 400 | | U |
| 206-44-0 | Fluoranthene | 400 | | U |
| 129-00-0 | Pyrene | 400 | | U |
| 56-55-3 | Benzo(a)anthracene | 400 | | U |
| 218-01-9 | Chrysene | 400 | | U |
| 205-99-2 | Benzo(b)fluoranthene | 400 | | U |
| 207-08-9 | Benzo(k)fluoranthene | 400 | | U |
| 50-32-8 | Benzo(a)pyrene | 400 | | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 400 | | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 400 | | U |
| 191-24-2 | Benzo(g,h,i)perylene | 400 | | U |

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05D

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS157Matrix: (soil/water) WATERLab Sample ID: 1212D60-008BSample wt/vol: 1000 (g/mL) mlLab File ID: 3\N55401.DLevel: (low/med) LOWDate Received: 12/28/12% Moisture: Decanted: (Y/N) NDate Extracted: 01/02/13Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 01/04/13Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | | |
|----------|------------------------|----------------------------|------|-----|
| | | (μ g/L or μ g/Kg) | UG/L | Q |
| 91-20-3 | Naphthalene | 1100 | 540 | ED |
| 91-57-6 | 2-Methylnaphthalene | 140 | 98 | EDJ |
| 208-96-8 | Acenaphthylene | | 38 | |
| 83-32-9 | Acenaphthene | | 2 | J |
| 86-73-7 | Fluorene | | 6 | J |
| 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

1/20/13
2

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05DDL

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS157

Matrix: (soil/water) WATER

Lab Sample ID: 1212D60-008BDL

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

Lab File ID: 3\N55443.D

Level: (low/med) LOW

Date Received: 12/28/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 01/02/13

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 01/07/13

Injection Volume: 2 (µL)

Dilution Factor: 40.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (µg/L or µg/Kg) | UG/L | Q |
|----------|---------------------------|-----------------|------|----|
| 91-20-3 | Naphthalene | 1100 | | D |
| 91-57-6 | 2-Methylnaphthalene | 140 | | DJ |
| 208-96-8 | Acenaphthylene | 56 | | DJ |
| 83-32-9 | Acenaphthene | 400 | | U |
| 86-73-7 | Fluorene | 400 | | U |
| 85-01-8 | Phenanthrene | 400 | | U |
| 120-12-7 | Anthracene | 400 | | U |
| 206-44-0 | Fluoranthene | 400 | | U |
| 129-00-0 | Pyrene | 400 | | U |
| 56-55-3 | Benzo (a) anthracene | 400 | | U |
| 218-01-9 | Chrysene | 400 | | U |
| 205-99-2 | Benzo (b) fluoranthene | 400 | | U |
| 207-08-9 | Benzo (k) fluoranthene | 400 | | U |
| 50-32-8 | Benzo (a) pyrene | 400 | | U |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 400 | | U |
| 53-70-3 | Dibenzo (a, h) anthracene | 400 | | U |
| 191-24-2 | Benzo (g, h, i) perylene | 400 | | U |

(1) Cannot be separated from Diphenylamine

1/24/13

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8S

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212B46-003B

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

Lab File ID: 2\R13573.D

Level: (low/med) LOW

Date Received: 12/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/26/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 12/29/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|------------------------|---------------------------------|---|
| | | (μ g/L or μ g/Kg) UG/L | Q |
| 91-20-3 | Naphthalene | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 208-96-8 | Acenaphthylene | 1 | 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

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212B46-002B

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

Lab File ID: 2\R13572.D

Level: (low/med) LOW

Date Received: 12/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/26/12

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 12/29/12

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

| 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-8D

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212B46-001B

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

Lab File ID: 2\R13571.D

Level: (low/med) LOW

Date Received: 12/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/26/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 12/28/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|------------------------|----------------------------|--------|
| | | (μ g/L or μ g/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-12S

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS157Matrix: (soil/water) WATERLab Sample ID: 1212D60-001BSample wt/vol: 1000 (g/mL) mlLab File ID: 3\N55392.DLevel: (low/med) LOWDate Received: 12/28/12% Moisture: Decanted: (Y/N) NDate Extracted: 01/02/13Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 01/03/13Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (μ g/L or μ g/Kg) <u>UG/L</u> | Q |
|----------|------------------------|--|-----|
| 91-20-3 | Naphthalene | 5 | J |
| 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 J |
| 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

1/28/13

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS157Matrix: (soil/water) WATERLab Sample ID: 1212D60-002BSample wt/vol: 1000 (g/mL) mlLab File ID: 3\N55393.DLevel: (low/med) LOWDate Received: 12/28/12% Moisture: Decanted: (Y/N) NDate Extracted: 01/02/13Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 01/03/13Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|------------------------|----------------------------|--------|
| | | (μ g/L or μ g/kg) | UG/L O |
| 91-20-3 | Naphthalene | 1 | J |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 208-96-8 | Acenaphthylene | 36 | |
| 83-32-9 | Acenaphthene | 39 | |
| 86-73-7 | Fluorene | 25 | |
| 85-01-8 | Phenanthrene | 11 | |
| 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

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12D

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212B46-004B

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

Lab File ID: 2\R13574.D

Level: (low/med) LOW

Date Received: 12/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/26/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 12/29/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|------------------------|--|----------|
| | | (μ g/L or μ g/Kg) <u>UG/L</u> | <u>Q</u> |
| 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-13S

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212A52-007B

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

Lab File ID: 2\R13561.D

Level: (low/med) LOW

Date Received: 12/19/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/21/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 12/28/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|------------------------|----------------------------|--------|
| | | (μ g/L or μ g/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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS SAS No.: _____SDG No.: KEY-URS156Matrix: (soil/water) WATERLab Sample ID: 1212A52-006BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R13513.DLevel: (low/med) LOWDate Received: 12/19/12% Moisture: Decanted: (Y/N) NDate Extracted: 12/21/12Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 12/27/12Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (μ g/L or μ g/Kg) UG/L | Q |
|----------|------------------------|---------------------------------|---|
| 91-20-3 | Naphthalene | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 208-96-8 | Acenaphthylene | 5 | J |
| 83-32-9 | Acenaphthene | 10 | U |
| 86-73-7 | Fluorene | 1 | J |
| 85-01-8 | Phenanthrene | 2 | 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

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13D

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212A52-005B

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

Lab File ID: 2\R13512.D

Level: (low/med) LOW

Date Received: 12/19/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/21/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 12/27/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (μ g/L or μ g/Kg) <u>UG/L</u> Q | |
|----------|------------------------|--|---|
| 91-20-3 | Naphthalene | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 208-96-8 | Acenaphthylene | 12 | |
| 83-32-9 | Acenaphthene | 6 | 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

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212A52-003B

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

Lab File ID: 2\R13510.D

Level: (low/med) LOW

Date Received: 12/19/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/21/12

Concentrated Extract Volume: 1000 (μL)

Date Analyzed: 12/27/12

Injection Volume: 2 (μL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

| 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 | 22 | |
| 83-32-9 | Acenaphthene | 16 | |
| 86-73-7 | Fluorene | 7 | J |
| 85-01-8 | Phenanthrene | 6 | J |
| 120-12-7 | Anthracene | 1 | J |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 1 | J |
| 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-14D

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212A52-004B

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

Lab File ID: 2\R13511.D

Level: (low/med) LOW

Date Received: 12/19/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/21/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 12/27/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|------------------------|--|----------|
| | | (μ g/L or μ g/Kg) <u>UG/L</u> | <u>Q</u> |
| 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-15I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212A52-001B

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

Lab File ID: 2\R13508.D

Level: (low/med) LOW

Date Received: 12/19/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/21/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 12/27/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|------------------------|---------------------------------|---|
| | | (μ g/L or μ g/Kg) UG/L | Q |
| 91-20-3 | Naphthalene | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 208-96-8 | Acenaphthylene | 11 | |
| 83-32-9 | Acenaphthene | 5 | J |
| 86-73-7 | Fluorene | 10 | U |
| 85-01-8 | Phenanthrene | 2 | 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

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15D

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212A52-002B

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

Lab File ID: 2\R13509.D

Level: (low/med) LOW

Date Received: 12/19/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/21/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 12/27/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|----------------------------|--|----------|
| | | (μ g/L or μ g/Kg) <u>UG/L</u> | <u>Q</u> |
| 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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20S

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156Matrix: (soil/water) WATERLab Sample ID: 1212B46-006BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R13576.DLevel: (low/med) LOWDate Received: 12/21/12% Moisture: Decanted: (Y/N) NDate Extracted: 12/26/12Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 12/29/12Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N

pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (μ g/L or μ g/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.

DUP122012

Field
Duplicate of
#1 MW-205

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212B46-009B

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

Lab File ID: 2\R13579.D

Level: (low/med) LOW

Date Received: 12/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/26/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 12/29/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|------------------------|--|----------|
| | | (μ g/L or μ g/Kg) <u>UG/L</u> | <u>Q</u> |
| 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: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212B46-005B

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

Lab File ID: 2\R13575.D

Level: (low/med) LOW

Date Received: 12/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/26/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 12/29/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|------------------------|---------------------------------|-----------------|
| | | (μ g/L or μ g/Kg) UG/L | Q |
| 91-20-3 | Naphthalene | 780 950 | E D |
| 91-57-6 | 2-Methylnaphthalene | 97 130 | E DS |
| 208-96-8 | Acenaphthylene | 120 150 | E DS |
| 83-32-9 | Acenaphthene | 8 | J |
| 86-73-7 | Fluorene | 16 | |
| 85-01-8 | Phenanthrene | 10 | |
| 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 |

1/25/13
[Signature]

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20IDL

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212B46-005BDL

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

Lab File ID: 3\R13642.D

Level: (low/med) LOW

Date Received: 12/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/26/12

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 01/08/13

Injection Volume: 2 (µL)

Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:
(µg/L or µg/Kg) UG/L Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (µg/L or µg/Kg) <u>UG/L</u> | Q |
|----------|------------------------|---|----|
| 91-20-3 | Naphthalene | 950 | D |
| 91-57-6 | 2-Methylnaphthalene | 130 | DJ |
| 208-96-8 | Acenaphthylene | 150 | 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

1/25/13

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-22

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS156

Matrix: (soil/water) WATER Lab Sample ID: 1212A52-009B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\R13570.D

Level: (low/med) LOW Date Received: 12/19/12

% Moisture: Decanted: (Y/N) N Date Extracted: 12/26/12

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 12/28/12

Injection Volume: 2 (μ L) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (μ g/L or μ g/Kg) UG/L | Q |
|----------|------------------------|---------------------------------|---|
| 91-20-3 | Naphthalene | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 208-96-8 | Acenaphthylene | 13 | |
| 83-32-9 | Acenaphthene | 1 | J |
| 86-73-7 | Fluorene | 10 | U |
| 85-01-8 | Phenanthrene | 2 | 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

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-23

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212A52-008B

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

Lab File ID: 2\R13562.D

Level: (low/med) LOW

Date Received: 12/19/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/21/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 12/28/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|------------------------|----------------------------|--------|
| | | (μ g/L or μ g/Kg) | UG/L Q |
| 91-20-3 | Naphthalene | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 208-96-8 | Acenaphthylene | 4 | 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

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-24

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212B46-007B

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

Lab File ID: 2\R13577.D

Level: (low/med) LOW

Date Received: 12/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/26/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 12/29/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|------------------------|--|----------|
| | | (μ g/L or μ g/Kg) <u>UG/L</u> | <u>Q</u> |
| 91-20-3 | Naphthalene | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 208-96-8 | Acenaphthylene | 4 | J |
| 83-32-9 | Acenaphthene | 2 | J |
| 86-73-7 | Fluorene | 4 | J |
| 85-01-8 | Phenanthrene | 3 | 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

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-25

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212B46-008B

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

Lab File ID: 2\R13578.D

Level: (low/med) LOW

Date Received: 12/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/26/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 12/29/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|------------------------|--|----------|
| | | (μ g/L or μ g/Kg) <u>UG/L</u> | <u>Q</u> |
| 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.

DU122112

*Field Duplicate
of
H1 MW-25*

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS156

Matrix: (soil/water) WATER

Lab Sample ID: 1212B46-010B

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

Lab File ID: 2\R13580.D

Level: (low/med) LOW

Date Received: 12/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 12/26/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 12/29/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|------------------------|--|----------|
| | | (μ g/L or μ g/Kg) <u>UG/L</u> | <u>Q</u> |
| 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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-122812

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS157Matrix: (soil/water) WATERLab Sample ID: 1212D60-009BSample wt/vol: 1000 (g/mL) mlLab File ID: 3\N55402.DLevel: (low/med) LOWDate Received: 12/28/12% Moisture: Decanted: (Y/N) NDate Extracted: 01/02/13Concentrated Extract Volume: 1000 (µL)Date Analyzed: 01/04/13Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

| 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

1/2/13
2

ATTACHMENT B
SUPPORT DOCUMENTATION

H2M LABS, INC.

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

38223 EXTERNAL CHAIN OF CUSTODY

p 1 of 1

CLIENT: VRS Corporation
H2M SDG NO: KENTURS146
Project Contact: Jon Sundquist
Phone Number: 716-856-5636
PIS/Quote #

NOTES:

Sample Container Description
 BTE X82608
 FAH 8270C

PROJECT NAME/NUMBER
 National Grid
 Intersection St, Hempstead, NY
 1176298.00004
SAMPLERS: (signature)/Client
 Mira Abdelaziz / VRS
 Megan Dascoli / VRS
DELIVERABLES:

| DATE | TIME | MATRIX | FIELD I.D. | Total No. of Containers | ANALYSIS REQUESTED | | | | LAB I.D. NO. | REMARKS: |
|----------|------|--------|------------|-------------------------|--------------------|--------|-----|-------|--------------|------------|
| | | | | | ORGANIC | INORG. | PCB | Metal | | |
| 12/19/12 | 915 | GW | H1MW-15I | 4 | X | | | | 1212ASZ-001 | |
| 12/18/12 | 1020 | GW | H1MW-15D | 4 | X | | | | -002 | |
| 12/18/12 | 1240 | GW | H1MW-14I | 4 | X | | | | -003 | |
| 12/18/12 | 1350 | GW | H1MW-14D | 4 | X | | | | -004 | |
| 12/19/12 | 840 | GW | H1MW-13D | 4 | X | | | | -005 | |
| 12/19/12 | 1015 | GW | H1MW-13I | 4 | X | | | | -006 | |
| 12/19/12 | 1155 | GW | H1MW-13S | 4 | X | | | | -007 | |
| 12/19/12 | 1545 | GW | H1MW-23 | 4 | X | | | | -008 | |
| 12/19/12 | 1345 | GW | H1MW-22 | 4 | X | | | | -009 | Time: 1345 |
| 12/19/12 | 1545 | GW | TB121912 | 2 | X | | | | -010 | |

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: 2.5°C + 4.3, 3.4°C
 3. Received in good condition: Y or N
 4. Properly preserved: Y or N
 COC Type 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

H2M LABS, INC.

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

38224 EXTERNAL CHAIN OF CUSTODY

p. 1 of 2

| | | | | | | |
|--|------|--|------------|-------------------------------|--------|--|
| PROJECT NAME/NUMBER National Grid Intersection St, Hempstead, NY 1176098, 00004 | | CLIENT: URS Corporation | | H2M SDG NO: KEY-URS US6 | | |
| SAMPLERS: (signature)/Client Mira Abdelaziz / URS Megan Dascoli / URS | | Project Contact: Jon Sundquist Peter Fairbanks | | Phone Number: 716-856-5636 | | |
| DELIVERABLES: | | NOTES: | | PIS/Quote # | | |
| TURNAROUND TIME: Standard | | ANALYSIS REQUESTED | | LAB I.D. NO. | | |
| DATE | TIME | MATRIX | FIELD I.D. | ORGANIC | INORG. | REMARKS: |
| 12/20/12 | 0905 | GW | H1MW-20S | VOA | Z | 1212-B416-006 |
| 12/20/12 | 1055 | GW | H1MW-20I | PCB | | -005 |
| 12/20/12 | 1305 | GW | H1MW-24 | BNA | | -007 |
| 12/20/12 | 1435 | GW | H1MW-12D | VOA | | 004 |
| 12/20/12 | 0830 | GW | H1MW-8D | PCB | | -001 |
| 12/20/12 | 1055 | GW | H1MW-8I | BNA | | -002 |
| 12/20/12 | 1120 | GW | H1MW-8S | VOA | | -003 |
| 12/20/12 | 1305 | GW | H1MW-25 | PCB | | -007 |
| 12/20/12 | 1305 | GW | TB1221012 | VOA | | 5011 |
| 12/20/12 | 1200 | GW | DUP122012 | PCB | | 008 |
| Relinquished by: (Signature) Megan Dascoli | | Date 12/21/12 | | Time 1340 | | LABORATORY USE ONLY Samples were: 1. Shipped or Hand Delivered: <input checked="" type="checkbox"/> Airbill# 2. Ambient or chilled, Temp: 2-3-2-3.2.9 3. Received in good condition: Y or N 4. Properly preserved: Y or N COC Labels wgs: 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 |
| Relinquished by: (Signature) Mira Abdelaziz | | Date 12/21/12 | | Time 1435 | | |
| Relinquished by: (Signature) Mira Abdelaziz | | Date 12/21/12 | | Time 1435 | | |
| Relinquished by: (Signature) | | Date | | Time | | |

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

H2M LABS, INC.

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

38226 EXTERNAL CHAIN OF CUSTODY

Pt of 2

CLIENT: VRS Corporation
H2M SDG NO: KEY-VRS 157
Project Contact: Jon Sundquist
Phone Number: 716-856-5636
PIS/Quote #

NOTES:

PROJECT NAME/NUMBER: National Grid
 Intersection St, Hempstead, NY
 1176098.0004
SAMPLERS: (signature) Client
 Megan Dascoli/VRS/Algonand
 John Crespo/VRS/John Crespo
DELIVERABLES:

| DATE | TIME | MATRIX | FIELD I.D. | ANALYSIS REQUESTED | | | LAB I.D. NO. | REMARKS: |
|----------|------|--------|------------|--------------------|--------|-------|--------------|----------|
| | | | | ORGANIC | INORG. | Metal | | |
| 12/27/12 | 0845 | GW | H1MW-12S | X | | | 1212060-001 | |
| 12/27/12 | 1015 | GW | H1MW-12I | X | | | -002 | |
| 12/27/12 | 1215 | GW | H1MW-03S | X | | | -003 | |
| 12/27/12 | 1458 | GW | H1MW-03D | X | | | -004 | |
| 12/28/12 | 1215 | GW | H1MW-03I | X | | | -005 | |
| 12/28/12 | 1055 | GW | H1MW-05S | X | | | -006 | |
| 12/28/12 | 0935 | GW | H1MW-05I | X | | | -007 | |
| 12/28/12 | 0800 | GW | H1MW-05D | X | | | -008 | |
| 12/28/12 | 1300 | GW | T8122812 | X | | | -010 | |
| 12/28/12 | 1005 | GW | FB122812 | X | | | -009 | |

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°C
 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

KEYWHITES99753 ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076

Tel: (631) 694-3040 Fax: (631) 420-8436

PROJECT NAME/NUMBER

National Grid, Hempstead, NY

11176098.00004

SAMPLERS: (signature) Client

DELIVERABLES:

TURNAROUND TIME: standard

38227 EXTERNAL CHAIN OF CUSTODY

p 2 of 2

CLIENT: VRS Corporation

H2M SDG NO: KEY-VRS157

Project Contact:
Jon Sundquist
Peter Fairbanks
Phone Number:
716-856-5636
PIS/Quote #

NOTES:

BLEX 82608
PAH 8270C

Sample Container Description

Total No. of Containers

ANALYSIS REQUESTED

ORGANIC
VOC
Pb
Cu
Metal

INORG.
Zn

DATE TIME MATRIX FIELD I.D.

12/28/12 09:35 GW MS-H1MW-05I MS
12/28/12 09:35 GW MS-H1MW-05I MSD

REMARKS:

LAB I.D. NO.
1212090 -007

Relinquished by: (Signature)

John Long

Date

12/28/12

Time

14:21

Received by: (Signature)

Robert Williams

Date

12/28/12

Time

14:21

Relinquished by: (Signature)

Robert Williams

Date

12/28/12

Time

15:37

Received by: (Signature)

A. V. V. V.

Date

12-28-12

Time

15:37

Relinquished by: (Signature)

Robert Williams

Date

12/28/12

Time

15:37

Received by: (Signature)

Robert Williams

Date

12-28-12

Time

15:37

LABORATORY USE ONLY

Samples were:

- 1. Shipped or Hand Delivered Airbill#
- 2. Ambient or Filled, Temp or °C
- 3. Received in good condition: or Y or N
- 4. Properly preserved: or Y or N

COC Labels 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

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

WHITE COPY - ORIGINAL

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PINK COPY - LABORATORY



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Melville, NY 11747

tel 631.694.3040
fax 631.420.8436

SDG NARRATIVE FOR VOLATILE ORGANICS
SAMPLES RECEIVED: 12/19/12 & 12/21/12
SDG #: KEY-URS156

Page 1 of 2

For Samples:

| | | | |
|----------|-----------|----------|-----------|
| HIMW-15I | HIMW-13S | HIMW-8I | HIMW-24 |
| HIMW-15D | HIMW-23 | HIMW-8S | HIMW-25 |
| HIMW-14I | HIMW-22 | HIMW-12D | DUP122012 |
| HIMW-14D | TB-121912 | HIMW-20I | DUP122112 |
| HIMW-13D | HIMW-8D | HIMW-20S | TB-122112 |
| HIMW-13I | | | |

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

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

No sample of this SDG was submitted for matrix spike/matrix spike duplicate analysis, but lab fortified blanks were analyzed for each day of analysis. Recoveries indicate good method efficiency.

Requirements for CCC and SPCC compounds were met in all calibrations. In the initial calibrations, average response factors (RF) and linear regression were used as applicable depending on RSDs. The targeted analytes all had average RF calibrations and acceptable %Ds in the continuous calibration (below 15%).

Requirements for CCC and SPCC compounds were met in all calibrations. In the initial calibrations, average response factors (RF) and linear regression were used as applicable depending on RSDs. The targeted analytes all had average RF calibrations and acceptable %Ds in the continuous calibrations (below 15%). %D for two surrogates (toluene-d8 and 4-bromofluorobenzene) showed low responses with %D greater than 15% on 1/3/13. The reported recoveries for these two surrogated are regarded estimated in sample TB-122112 and the Q. C. samples analyzed on 1/3/13 and are believed to be biased low. The limits are still met.

No positives were found in the method blanks.

KEY-URS156 S17



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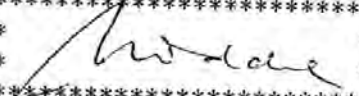
tel 631.694.3040
fax 631.420.8436

**SDG NARRATIVE FOR VOLATILE ORGANICS
SAMPLES RECEIVED: 12/19/12 & 12/21/12
SDG #: KEY-URS156**

Page 2 of 2

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: January 14, 2013

*  *
*

Ursula Middel
Technical Manager



575 Broad Hollow Road tel 631.694.3040
 Melville, NY 11747 fax 631.420.8436

SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLES RECEIVED: 12/19/12 & 12/21/12
SDG #: KEY-URS156

For Samples:

| | | | |
|----------|-----------|----------|-----------|
| HIMW-15I | HIMW-13S | HIMW-8I | HIMW-24 |
| HIMW-15D | HIMW-23 | HIMW-8S | HIMW-25 |
| HIMW-14I | HIMW-22 | HIMW-12D | DUP122012 |
| HIMW-14D | TB-121912 | HIMW-20I | DUP122112 |
| HIMW-13D | HIMW-8D | HIMW-20S | TB-122112 |
| HIMW-13I | | | |

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

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

No sample from this SDG was submitted for matrix spike/matrix spike duplicate (MS/MSD) analysis, but results for the lab fortified blanks indicate good method efficiency. All recoveries met the Q. C. limits.

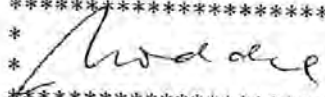
One sample, HIMW-20I, was reanalyzed at a dilution to keep the concentration of targeted analytes within the calibration range. Both sets of data are reported.

Recovery for the surrogate 1,2-dichlorobenzene-d4 of 115% in sample HIMW-20IDL was above the Q. C. limit of 110%.

All CCC and SPCC calibration requirements were met. In the initial calibrations, average response factors were employed, and all %D for targeted analytes in the three continuous calibrations were within the limit of 15%.

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: January 14, 2013

 *  *
 *

Ursula Middel
 Technical Manager

KEY-URS156 S19



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Melville, NY 11747

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fax 631.420.8436

**SDG NARRATIVE FOR VOLATILE ORGANICS
SAMPLES RECEIVED: 12/28/12
SDG #: KEY-URS157**

For Samples:

| | | |
|----------|----------|-----------|
| HIMW-12S | HIMW-03I | HIMW-05D |
| HIMW-12I | HIMW-05S | FB-122812 |
| HIMW-03S | HIMW-05I | TB-122812 |
| HIMW-03D | | |

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

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

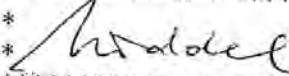
Sample HIMW-05I was analyzed as matrix spike/ matrix spike duplicate (MS/MSD). All percent recoveries for the lab fortified blanks and recoveries and RPDs for the MS and MSD were within Q. C. limits.

Requirements for CCC and SPCC compounds were met in all calibrations. In the initial calibrations, average response factors (RF) and linear regression were used as applicable depending on RSDs. The targeted analytes all had average RF calibrations and acceptable %Ds below 15% in the continuous calibration verification (CCV). %D for two surrogates, toluene-d8 and 4-bromofluorobenzene, showed low responses with %D greater than 15% in both CCVs. The reported recoveries for these two surrogated are regarded estimated and are believed to be biased low. The limits are still met.

No positives were found in the method blanks.

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: January 14, 2013

 *  *
 *

Ursula Middel
Technical Manager

KEY-URS157 S11



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Melville, NY 11747

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fax 631.420.8436

SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLES RECEIVED: 12/28/12
SDG #: KEY-URS157

For Samples:

| | | |
|----------|----------|-----------|
| HIMW-12S | HIMW-03D | HIMW-05I |
| HIMW-12I | HIMW-03I | HIMW-05D |
| HIMW-03S | HIMW-05S | FB-122812 |

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

All Q. C. data and calibrations met the requirements of the method unless discussed below, and no problems were encountered with sample analyses. The following should be noted:

Sample HIMW-05I was analyzed as matrix spike/ matrix spike duplicate (MS/MSD). All percent recoveries for the lab fortified blanks (LFB) and recoveries and RPDs for the MS and MSD were within Q. C. limits.

Two samples, HIMW-05I and HIMW-05D, were reanalyzed at a dilution to keep the concentration of targeted analytes within the calibration range. Both sets of data are reported.

Recovery for the surrogate 1,2-dichlorobenzene-d4 of 148% in sample HIMW-05/DDL was above the Q. C. limit of 110%.


All CCC and SPCC calibration requirements were met. In the initial calibrations, average response factors were employed. All %D for targeted analytes in the continuous calibrations verification (CCV) were within the limit with the following exception: %D for benzo(b)fluoranthene in the CCV on 1/4/13 exceeded 15%, and the result in the LFB is regarded estimated and is flagged with the qualifier "Z".

1/28/13

1/7/13 need

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: January 14, 2013

 *
 *  *
 *

 Ursula Middel
 Technical Manager

KEY-URS157 S12

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS157
 Lab File ID: 3\N55383.D DFTPP Injection Date: 01/03/13
 Instrument ID: HP5973N DFTPP Injection Time: 17:35

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51 | 30.0 - 60.0% of mass 198 | 34.5 |
| 68 | Less than 2% of mass 69 | 0.2 (0.4)1 |
| 69 | Mass 69 relative abundance | 42.9 |
| 70 | Less than 2% of mass 69 | 0.1 (0.2)1 |
| 127 | 40.0 - 60.0% of mass 198 | 56.7 |
| 197 | Less than 1% of mass 198 | 0.3 |
| 198 | Base peak, 100% relative abundance | 100.0 |
| 199 | 5.0 - 9.0% of mass 198 | 7.4 |
| 275 | 10.0 - 30.0% of mass 198 | 20.6 |
| 365 | Greater than 1% of mass 198 | 3.0 |
| 441 | Present, but less than mass 443 | 7.8 |
| 442 | 40.0 - 110.0% of mass 198 | 50.7 |
| 443 | 17.0 - 23.0% of mass 442 | 8.7 (17.1)2 |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|----------------|-----------------|-------------|---------------|---------------|
| 01 | SSTD025 | SSTD025 | 3\N55384.D | 01/03/13 | 17:55 |
| 02 | MB-37915 | MB-37915 | 1\N55388R.D | 01/03/13 | 20:18 |
| 03 | LFB-37915 | LFB-37915 | 1\N55389R.D | 01/03/13 | 20:49 |
| 04 | HIMW-12S | 1212D60-001B | 3\N55392.D | 01/03/13 | 22:23 |
| 05 | HIMW-12I | 1212D60-002B | 3\N55393.D | 01/03/13 | 22:53 |
| 06 | HIMW-03S | 1212D60-003B | 3\N55394.D | 01/03/13 | 23:24 |
| 07 | HIMW-03D | 1212D60-004B | 3\N55395.D | 01/03/13 | 23:55 |
| 08 | HIMW-03I | 1212D60-005B | 3\N55396.D | 01/04/13 | 0:25 |
| 09 | HIMW-05S | 1212D60-006B | 3\N55397.D | 01/04/13 | 0:56 |
| 10 | HIMW-05I | 1212D60-007B | 3\N55398.D | 01/04/13 | 1:26 |
| 11 | HIMW-05IMS | 1212D60-007BMS | 3\N55399.D | 01/04/13 | 1:57 |
| 12 | HIMW-05IMSD | 1212D60-007BMSD | 3\N55400.D | 01/04/13 | 2:28 |
| 13 | HIMW-05D | 1212D60-008B | 3\N55401.D | 01/04/13 | 2:58 |
| 14 | FB-122812 | 1212D60-009B | 3\N55402.D | 01/04/13 | 3:29 |

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS157
 Instrument ID: HP5973N Calibration Date: 1/3/2013 Time: 17:55
 Lab File ID: 3\N55384.D Init. Calib. Date(s): 11/13/12 11/13/12
 EPA Sample No. (SSTD050##): SSTD025 Init. Calib. Times: 14:22 19:15
 GC Column: Rxi-5SILMS ID: 0.25 (mm)

| COMPOUND | RRF | RRF50 | MIN RRF | %D | MAX %D |
|------------------------|-------|-------|---------|------|--------|
| Naphthalene | 1.137 | 1.190 | | 4.6 | |
| 2-Methylnaphthalene | 0.754 | 0.781 | | 3.6 | |
| Acenaphthylene | 2.010 | 2.042 | | 1.6 | |
| Acenaphthene | 1.301 | 1.352 | | 3.9 | 20.0 |
| Fluorene | 1.402 | 1.435 | | 2.4 | |
| Phenanthrene | 1.248 | 1.276 | | 2.3 | |
| Anthracene | 1.299 | 1.295 | | -0.3 | |
| Fluoranthene | 1.242 | 1.296 | | 4.3 | 20.0 |
| Pyrene | 1.587 | 1.661 | | 4.7 | |
| Benzo(a)anthracene | 1.351 | 1.372 | | 1.5 | |
| Chrysene | 1.263 | 1.289 | | 2.1 | |
| Benzo(b)fluoranthene | 1.985 | 2.388 | | 20.3 | |
| Benzo(k)fluoranthene | 1.770 | 1.823 | | 3.0 | |
| Benzo(a)pyrene | 1.785 | 1.975 | | 10.7 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 2.000 | 1.978 | | -1.1 | |
| Dibenzo(a,h)anthracene | 1.653 | 1.667 | | 0.8 | |
| Benzo(g,h,i)perylene | 1.701 | 1.618 | | -4.9 | |

All other compounds must meet a minimum RRF of 0.010.

APPENDIX B

**OXYGEN SYSTEM OPERATION & MAINTENANCE
MEASUREMENTS**

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|------------------|
| Date: | <u>7/3/2012</u> |
| Time: | <u>1315</u> |
| Weather: | <u>Sunny</u> |
| Outdoor Temperature: | <u>~90° F</u> |
| Inside Trailer Temperature: | <u>~70° F</u> |
| Performed By: | <u>Mike Ryan</u> |

| O ₂ Generator (AirSep) | | | | Compressor (Kaesar Rotary Screw) | | | |
|--|----------------|-----------|--|--|--------------|--|---------|
| Hours | <u>3,522.7</u> | | | Compressor Tank * | <u>110</u> | | (psi) |
| Feed Air Pressure * | <u>105</u> | (psi) | | (readings below are made from control panel) | | | |
| Cycle Pressure * | <u>60</u> | (psi) | | Delivery Air | <u>111</u> | | (psi) |
| Oxygen Receiver Pressure * | <u>110</u> | (psi) | | Element Outlet Temperature | <u>187</u> | | (oF) |
| | | | | Running Hours | <u>4,216</u> | | (hours) |
| | | | | Loading Hours | <u>2,655</u> | | (hours) |
| Oxygen Purity | <u>95.9</u> | (percent) | | | | | |
| * maximum reading during loading cycle | | | | * maximum reading during loading cycle | | | |

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| Injection Bank 1 | | | | Injection Bank 2 | | | | Injection Bank 3 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-1 | 95.5 | 30 | 32 | OW-1-5S | 67.3 | 30 | 18 | OW-1-9D | 88.5 | OFF | OFF |
| OW-1-2 | 96.5 | 30 | 30 | OW-1-6S | 67.0 | 30 | 18 | OW-1-10D | 87.2 | OFF | OFF |
| OW-1-3 | 96.3 | 30 | 32 | OW-1-7S | 66.9 | 30 | 18 | OW-1-11D | 86.1 | OFF | OFF |
| OW-1-4 | 95.0 | 35 | 30 | OW-1-8S | 66.7 | OFF | OFF | OW-1-12D | 85.3 | OFF | OFF |
| OW-1-5D | 93.9 | 45 | 30 | OW-1-9S | 66.0 | 30 | 19 | OW-1-13D | 84.7 | OFF | OFF |
| OW-1-6D | 92.4 | 40 | 30 | OW-1-10S | 54.6 | 40 | 14 | OW-1-14D | 84.1 | OFF | OFF |
| OW-1-7D | 91.1 | 30 | 30 | OW-1-11S | 54.1 | 45 | 15 | OW-1-15D | 83.3 | OFF | OFF |
| OW-1-8D | 89.6 | OFF | OFF | OW-1-12S | 53.6 | 50 | 15 | OW-1-16D | 82.5 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 7/3/2012

O₂ Injection System #1

| Injection Bank 4 | | | | Injection Bank 5 | | | | Injection Bank 6 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-13S | 53.1 | 20 | 15 | OW-1-17D | 79.5 | OFF | OFF | OW-1-21S | 49.3 | 25 | 12 |
| OW-1-14S | 52.7 | 25 | 15 | OW-1-18D | 78.3 | OFF | OFF | OW-1-22S | 49.3 | 30 | 12 |
| OW-1-15S | 52.2 | 30 | 14 | OW-1-19D | 78.9 | OFF | OFF | OW-1-23S | 48.8 | 30 | 12 |
| OW-1-16SR | 51.8 | OFF | OFF | OW-1-20D | 79.5 | OFF | OFF | OW-1-24S | 48.4 | 25 | 12 |
| OW-1-17S | 50.7 | OFF | OFF | OW-1-21D | 79.5 | OFF | OFF | OW-1-25S | 48.8 | 40 | 13 |
| OW-1-18S | 50.2 | 30 | 13 | OW-1-22D | 79.5 | OFF | OFF | OW-1-26SR | 48.3 | 25 | 14 |
| OW-1-19S | 49.7 | 45 | 14 | OW-1-23D | 78.7 | OFF | OFF | OW-1-27S | 48.3 | 30 | 14 |
| OW-1-20S | 49.3 | 40 | 15 | OW-1-24D | 78.2 | OFF | OFF | OW-1-28S | 48.3 | 25 | 14 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

| Injection Bank 7 | | | | Injection Bank 8 | | | | Injection Bank 9 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-25D | 78.1 | 30 | 28 | OW-1-29S | 48.5 | 30 | 13 | OW-1-33D | 83.2 | 40 | 30 |
| OW-1-26D | 78.1 | 40 | 29 | OW-1-30S | 48.8 | 20 | 13 | OW-1-34D | 84.5 | 35 | 31 |
| OW-1-27D | 77.9 | 40 | 29 | OW-1-31S | 49.3 | 20 | 13 | OW-1-35D | 85.0 | 50 | 27 |
| OW-1-28D | 78.0 | 35 | 28 | OW-1-32S | 49.3 | 30 | 12 | OW-1-36D | 85.0 | 25 | 30 |
| OW-1-29D | 78.4 | 35 | 27 | OW-1-33S | 49.7 | 25 | 13 | OW-1-37D | 84.0 | 30 | 30 |
| OW-1-30D | 79.0 | 30 | 33 | OW-1-34S | 50.1 | 25 | 13 | OW-1-38D | 82.0 | 40 | 34 |
| OW-1-31D | 80.5 | 50 | 27 | OW-1-35S | 50.3 | 30 | 13 | OW-1-39D | 78.0 | 25 | 27 |
| OW-1-32D | 81.6 | 25 | 29 | OW-1-36S | 50.3 | 30 | 13 | OW-1-40D | 76.0 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 7/3/2012

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|-------------------|-------|------|-----|-------------------|-------|------|-----|
| Injection Bank 10 | | | | Injection Bank 11 | | | | Injection Bank 12 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-37S | 50.5 | 20 | 13 | OW-1-41D | 73.6 | OFF | OFF | OW-1-43 | 67.4 | OFF | OFF |
| OW-1-38S | 50.6 | 30 | 13 | OW-1-42D | 71.0 | OFF | OFF | OW-1-44 | 66.6 | 29 | 19 |
| OW-1-39S | 50.7 | 40 | 14 | OW-1-45 | 65.7 | 25 | 20 | OW-1-51R | 60.6 | 30 | 17 |
| OW-1-40S | 51.1 | 25 | 13 | OW-1-46 | 64.3 | 30 | 18 | OW-1-52 | 59.3 | 30 | 16 |
| OW-1-41S | 51.5 | 15 | 15 | OW-1-47 | 63.4 | 25 | 18 | OW-1-53 | 60.0 | 30 | 17 |
| OW-1-42S | 51.3 | 25 | 13 | OW-1-48 | 62.5 | 30 | 18 | OW-1-54 | 60.0 | 30 | 16 |
| | | | | OW-1-49 | 61.5 | 20 | 18 | | | | |
| | | | | OW-1-50 | 61.0 | 35 | 17 | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

| O ₂ Injection System #2 | | | | | | | | | | | | |
|------------------------------------|-------|-------------------------------------|------------------|-----------|-----------------------|-------|-------------------------------------|------------------|-----------|-----------------------|------------------|---------------|
| Monitoring Points Log | | | | | Monitoring Points Log | | | | | Monitoring Points Log | | |
| ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DO (mg/L) Middle | DO (mg/L) Top |
| MP-1-1D | 24.42 | 20.9 | 2.50 | 0 | MP-1-5 | 24.07 | 20.9 | 2.52 | 0 | MP-1-1D | 2.06 | 2.69 |
| MP-1-1S | 24.56 | 32.8 | 2.29 | 0 | MP-1-6 | 16.54 | 20.9 | 2.41 | 0 | MP-1-2D | 2.35 | 3.43 |
| MP-1-2D | 18.60 | 19.2 | 1.71 | 0 | MP-1-7 | 19.81 | 20.9 | 2.06 | 0 | MP-1-3D | 2.88 | 3.18 |
| MP-1-2S | 18.98 | 33.8 | 3.38 | 0.4 | MP-1-8 | 20.83 | 20.1 | 2.87 | 0 | MP-1-4D | 2.73 | 3.58 |
| MP-1-3D | 16.73 | 20.9 | 2.63 | 0 | | | | | | | | |
| MP-1-3S | 16.75 | 26.7 | 3.31 | 0.2 | | | | | | | | |
| MP-1-4D | 19.48 | 25.2 | 1.86 | 0.3 | | | | | | | | |
| MP-1-4S | 19.29 | 24.8 | 2.97 | 2.1 | | | | | | | | |

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|------------------|
| Date: | <u>7/16/2012</u> |
| Time: | <u>1314</u> |
| Weather: | <u>Sunny</u> |
| Outdoor Temperature: | <u>~95° F</u> |
| Inside Trailer Temperature: | <u>~75° F</u> |
| Performed By: | <u>Mike Ryan</u> |

| O ₂ Generator (AirSep) | | | | Compressor (Kaesar Rotary Screw) | | | |
|--|----------------|-----------|--|--|--------------|--|---------|
| Hours | <u>3,628.9</u> | | | Compressor Tank * | <u>110</u> | | (psi) |
| Feed Air Pressure * | <u>105</u> | (psi) | | (readings below are made from control panel) | | | |
| Cycle Pressure * | <u>70</u> | (psi) | | Delivery Air | <u>111</u> | | (psi) |
| Oxygen Receiver Pressure * | <u>110</u> | (psi) | | Element Outlet Temperature | <u>126</u> | | (oF) |
| | | | | Running Hours | <u>4,334</u> | | (hours) |
| | | | | Loading Hours | <u>2,731</u> | | (hours) |
| Oxygen Purity | <u>97.8</u> | (percent) | | | | | |
| * maximum reading during loading cycle | | | | * maximum reading during loading cycle | | | |

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| Injection Bank 1 | | | | Injection Bank 2 | | | | Injection Bank 3 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-1 | 95.5 | 40 | 32 | OW-1-5S | 67.3 | 35 | 18 | OW-1-9D | 88.5 | OFF | OFF |
| OW-1-2 | 96.5 | 40 | 30 | OW-1-6S | 67.0 | 30 | 18 | OW-1-10D | 87.2 | OFF | OFF |
| OW-1-3 | 96.3 | 30 | 31 | OW-1-7S | 66.9 | 30 | 18 | OW-1-11D | 86.1 | OFF | OFF |
| OW-1-4 | 95.0 | 30 | 30 | OW-1-8S | 66.7 | OFF | OFF | OW-1-12D | 85.3 | OFF | OFF |
| OW-1-5D | 93.9 | 45 | 30 | OW-1-9S | 66.0 | 30 | 19 | OW-1-13D | 84.7 | OFF | OFF |
| OW-1-6D | 92.4 | 30 | 30 | OW-1-10S | 54.6 | 40 | 14 | OW-1-14D | 84.1 | OFF | OFF |
| OW-1-7D | 91.1 | 25 | 30 | OW-1-11S | 54.1 | 40 | 15 | OW-1-15D | 83.3 | OFF | OFF |
| OW-1-8D | 89.6 | OFF | OFF | OW-1-12S | 53.6 | 30 | 16 | OW-1-16D | 82.5 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 7/16/2012

O₂ Injection System #1

| Injection Bank 4 | | | | Injection Bank 5 | | | | Injection Bank 6 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-13S | 53.1 | 30 | 14 | OW-1-17D | 79.5 | OFF | OFF | OW-1-21S | 49.3 | 30 | 12 |
| OW-1-14S | 52.7 | 35 | 15 | OW-1-18D | 78.3 | OFF | OFF | OW-1-22S | 49.3 | 30 | 12 |
| OW-1-15S | 52.2 | 30 | 13 | OW-1-19D | 78.9 | OFF | OFF | OW-1-23S | 48.8 | 40 | 12 |
| OW-1-16SR | 51.8 | OFF | OFF | OW-1-20D | 79.5 | OFF | OFF | OW-1-24S | 48.4 | 45 | 13 |
| OW-1-17S | 50.7 | OFF | OFF | OW-1-21D | 79.5 | OFF | OFF | OW-1-25S | 48.8 | 30 | 13 |
| OW-1-18S | 50.2 | 30 | 13 | OW-1-22D | 79.5 | OFF | OFF | OW-1-26SR | 48.3 | 35 | 13 |
| OW-1-19S | 49.7 | 45 | 14 | OW-1-23D | 78.7 | OFF | OFF | OW-1-27S | 48.3 | 40 | 13 |
| OW-1-20S | 49.3 | 50 | 13 | OW-1-24D | 78.2 | OFF | OFF | OW-1-28S | 48.3 | 40 | 14 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

| Injection Bank 7 | | | | Injection Bank 8 | | | | Injection Bank 9 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-25D | 78.1 | 40 | 28 | OW-1-29S | 48.5 | 40 | 13 | OW-1-33D | 83.2 | 40 | 30 |
| OW-1-26D | 78.1 | 50 | 27 | OW-1-30S | 48.8 | 30 | 13 | OW-1-34D | 84.5 | 40 | 31 |
| OW-1-27D | 77.9 | 30 | 30 | OW-1-31S | 49.3 | 30 | 13 | OW-1-35D | 85.0 | 50 | 30 |
| OW-1-28D | 78.0 | 30 | 28 | OW-1-32S | 49.3 | 30 | 13 | OW-1-36D | 85.0 | 35 | 30 |
| OW-1-29D | 78.4 | 30 | 28 | OW-1-33S | 49.7 | 30 | 14 | OW-1-37D | 84.0 | 40 | 29 |
| OW-1-30D | 79.0 | 40 | 29 | OW-1-34S | 50.1 | 40 | 13 | OW-1-38D | 82.0 | 50 | 30 |
| OW-1-31D | 80.5 | 45 | 29 | OW-1-35S | 50.3 | 35 | 13 | OW-1-39D | 78.0 | 30 | 28 |
| OW-1-32D | 81.6 | 40 | 29 | OW-1-36S | 50.3 | 30 | 13 | OW-1-40D | 76.0 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 7/16/2012

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|-------------------|-------|------|-----|-------------------|-------|------|-----|
| Injection Bank 10 | | | | Injection Bank 11 | | | | Injection Bank 12 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-37S | 50.5 | 40 | 12 | OW-1-41D | 73.6 | OFF | OFF | OW-1-43 | 67.4 | OFF | OFF |
| OW-1-38S | 50.6 | 40 | 13 | OW-1-42D | 71.0 | OFF | OFF | OW-1-44 | 66.6 | 40 | 18 |
| OW-1-39S | 50.7 | 50 | 13 | OW-1-45 | 65.7 | 30 | 20 | OW-1-51R | 60.6 | 35 | 17 |
| OW-1-40S | 51.1 | 30 | 13 | OW-1-46 | 64.3 | 40 | 18 | OW-1-52 | 59.3 | 50 | 18 |
| OW-1-41S | 51.5 | 30 | 14 | OW-1-47 | 63.4 | 30 | 18 | OW-1-53 | 60.0 | 30 | 17 |
| OW-1-42S | 51.3 | 30 | 13 | OW-1-48 | 62.5 | 35 | 18 | OW-1-54 | 60.0 | 30 | 17 |
| | | | | OW-1-49 | 61.5 | 30 | 17 | | | | |
| | | | | OW-1-50 | 61.0 | 30 | 18 | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

| O ₂ Injection System #2 | | | | | | | | | | | | |
|------------------------------------|-------|-------------------------------------|------------------|-----------|-----------------------|-------|-------------------------------------|------------------|-----------|-----------------------|------------------|---------------|
| Monitoring Points Log | | | | | Monitoring Points Log | | | | | Monitoring Points Log | | |
| ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DO (mg/L) Middle | DO (mg/L) Top |
| MP-1-1D | 24.62 | 20.9 | 2.27 | 0 | MP-1-5 | 24.26 | 20.9 | 2.94 | 11.4 | MP-1-1D | 1.84 | 2.63 |
| MP-1-1S | 24.79 | 40.0 | 2.46 | 0 | MP-1-6 | 16.76 | 20.9 | 2.51 | 0 | MP-1-2D | 2.26 | 2.56 |
| MP-1-2D | 18.80 | 19.9 | 1.57 | 0.6 | MP-1-7 | 20.05 | 20.6 | 1.77 | 0 | MP-1-3D | 2.68 | 2.75 |
| MP-1-2S | 19.18 | 32.4 | 2.71 | 0 | MP-1-8 | 21.10 | 20.9 | 2.75 | 0.3 | MP-1-4D | 2.59 | 3.67 |
| MP-1-3D | 16.98 | 21.1 | 2.43 | 0 | | | | | | | | |
| MP-1-3S | 16.98 | 21.2 | 3.54 | 0 | | | | | | | | |
| MP-1-4D | 19.65 | 21.9 | 2.45 | 0.9 | | | | | | | | |
| MP-1-4S | 19.53 | 21.7 | 2.87 | 0 | | | | | | | | |

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 7/16/2012

OPERATIONAL NOTES

GA5 Air Compressor

- | | | |
|--|------------------------------|-----------------------------|
| 1) Oil Level Checked with system unloaded* | Yes <u> X </u> | No <u> </u> |
| * Unload system, wait until Delivery Air Pressure is less than 9 psi | | |
| 2) Oil Level with system unloaded | | |
| Low (red) <u> </u> | Normal (green) <u> </u> | High (orange) <u> </u> |
| 3) Oil added | Yes <u> </u> | No <u> X </u> |
| 4) Oil changed | Yes <u> </u> | No <u> X </u> |
| 5) Oil filter changed | Yes <u> </u> | No <u> X </u> |
| 6) Air filter Changed | Yes <u> </u> | No <u> X </u> |
| 7) Oil separator changed | Yes <u> </u> | No <u> X </u> |
| 8) Terminal strips checked | Yes <u> X </u> | No <u> </u> |

AS-80 O₂ Generator

- | | | |
|-----------------------|-------------------|-----------------|
| 1) Prefilter changed | Yes <u> </u> | No <u> X </u> |
| 2) Coalescing changed | Yes <u> </u> | No <u> X </u> |

GENERAL SYSTEM NOTES

Trailer

- | | | | |
|----|---|------------------|------------------|
| 1) | Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) | Yes <u> X </u> | No <u> </u> |
| 2) | Abnormal conditions observed (e.g. vandalism) <u> </u> | | |
| 3) | Other major activities completed <u> </u> | | |
| 4) | Supplies needed <u> </u> | | |
| 5) | Visitors <u> </u> | | |

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

On Thursday, July 5, 2012, Mike Ryan replaced the tip seals in the booster pump. All fittings on the pump were greased and put back together. A small oil leak was observed at the base of the compressor. A crack was found in the drain valve on the base of the cooling canister. The broken part was replaced and the system was restarted.

Soaked up oil inside oil water separator with pads for disposal. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas. Utilized weed whacker and low mower to cut down weeds along the fence and gates. Removed dead tree branches that fell into fence area. Sprayed bug spray around the shed due to ants getting into shed.

Electric Meter # 96-934-323 tied into Pole #4

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|------------------|
| Date: | <u>7/31/2012</u> |
| Time: | <u>1255</u> |
| Weather: | <u>Sunny</u> |
| Outdoor Temperature: | <u>~85° F</u> |
| Inside Trailer Temperature: | <u>~72° F</u> |
| Performed By: | <u>Mike Ryan</u> |

| O ₂ Generator (AirSep) | | | | Compressor (Kaesar Rotary Screw) | | | |
|--|----------------|-----------|--|--|--------------|--|---------|
| Hours | <u>3,748.7</u> | | | Compressor Tank * | <u>115</u> | | (psi) |
| Feed Air Pressure * | <u>115</u> | (psi) | | (readings below are made from control panel) | | | |
| Cycle Pressure * | <u>70</u> | (psi) | | Delivery Air | <u>113</u> | | (psi) |
| Oxygen Receiver Pressure * | <u>110</u> | (psi) | | Element Outlet Temperature | <u>140</u> | | (oF) |
| | | | | Running Hours | <u>4,468</u> | | (hours) |
| | | | | Loading Hours | <u>2,816</u> | | (hours) |
| Oxygen Purity | <u>88.2</u> | (percent) | | | | | |
| * maximum reading during loading cycle | | | | * maximum reading during loading cycle | | | |

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| Injection Bank 1 | | | | Injection Bank 2 | | | | Injection Bank 3 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-1 | 95.5 | 35 | 31 | OW-1-5S | 67.3 | 40 | 18 | OW-1-9D | 88.5 | OFF | OFF |
| OW-1-2 | 96.5 | 35 | 29 | OW-1-6S | 67.0 | 30 | 18 | OW-1-10D | 87.2 | OFF | OFF |
| OW-1-3 | 96.3 | 40 | 31 | OW-1-7S | 66.9 | 30 | 18 | OW-1-11D | 86.1 | OFF | OFF |
| OW-1-4 | 95.0 | 30 | 30 | OW-1-8S | 66.7 | OFF | OFF | OW-1-12D | 85.3 | OFF | OFF |
| OW-1-5D | 93.9 | 35 | 30 | OW-1-9S | 66.0 | 35 | 19 | OW-1-13D | 84.7 | OFF | OFF |
| OW-1-6D | 92.4 | 30 | 30 | OW-1-10S | 54.6 | 35 | 13 | OW-1-14D | 84.1 | OFF | OFF |
| OW-1-7D | 91.1 | 30 | 29 | OW-1-11S | 54.1 | 30 | 14 | OW-1-15D | 83.3 | OFF | OFF |
| OW-1-8D | 89.6 | OFF | OFF | OW-1-12S | 53.6 | 40 | 15 | OW-1-16D | 82.5 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 7/31/2012

O₂ Injection System #1

| Injection Bank 4 | | | | Injection Bank 5 | | | | Injection Bank 6 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-13S | 53.1 | 30 | 13 | OW-1-17D | 79.5 | OFF | OFF | OW-1-21S | 49.3 | 30 | 12 |
| OW-1-14S | 52.7 | 30 | 14 | OW-1-18D | 78.3 | OFF | OFF | OW-1-22S | 49.3 | 30 | 12 |
| OW-1-15S | 52.2 | 40 | 13 | OW-1-19D | 78.9 | OFF | OFF | OW-1-23S | 48.8 | 30 | 12 |
| OW-1-16SR | 51.8 | OFF | OFF | OW-1-20D | 79.5 | OFF | OFF | OW-1-24S | 48.4 | 40 | 12 |
| OW-1-17S | 50.7 | OFF | OFF | OW-1-21D | 79.5 | OFF | OFF | OW-1-25S | 48.8 | 30 | 13 |
| OW-1-18S | 50.2 | 30 | 13 | OW-1-22D | 79.5 | OFF | OFF | OW-1-26SR | 48.3 | 35 | 13 |
| OW-1-19S | 49.7 | 40 | 12 | OW-1-23D | 78.7 | OFF | OFF | OW-1-27S | 48.3 | 40 | 13 |
| OW-1-20S | 49.3 | 40 | 13 | OW-1-24D | 78.2 | OFF | OFF | OW-1-28S | 48.3 | 40 | 14 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

| Injection Bank 7 | | | | Injection Bank 8 | | | | Injection Bank 9 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-25D | 78.1 | 35 | 27 | OW-1-29S | 48.5 | 40 | 12 | OW-1-33D | 83.2 | 40 | 30 |
| OW-1-26D | 78.1 | 40 | 28 | OW-1-30S | 48.8 | 30 | 12 | OW-1-34D | 84.5 | 40 | 32 |
| OW-1-27D | 77.9 | 50 | 29 | OW-1-31S | 49.3 | 30 | 12 | OW-1-35D | 85.0 | 50 | 29 |
| OW-1-28D | 78.0 | 30 | 27 | OW-1-32S | 49.3 | 40 | 12 | OW-1-36D | 85.0 | 35 | 30 |
| OW-1-29D | 78.4 | 40 | 27 | OW-1-33S | 49.7 | 30 | 12 | OW-1-37D | 84.0 | 30 | 29 |
| OW-1-30D | 79.0 | 50 | 33 | OW-1-34S | 50.1 | 35 | 12 | OW-1-38D | 82.0 | 35 | 35 |
| OW-1-31D | 80.5 | 50 | 21 | OW-1-35S | 50.3 | 40 | 12 | OW-1-39D | 78.0 | 25 | 27 |
| OW-1-32D | 81.6 | 35 | 29 | OW-1-36S | 50.3 | 30 | 12 | OW-1-40D | 76.0 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 7/31/2012

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|-------------------|-------|------|-----|-------------------|-------|------|-----|
| Injection Bank 10 | | | | Injection Bank 11 | | | | Injection Bank 12 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-37S | 50.5 | 40 | 12 | OW-1-41D | 73.6 | OFF | OFF | OW-1-43 | 67.4 | OFF | OFF |
| OW-1-38S | 50.6 | 40 | 13 | OW-1-42D | 71.0 | OFF | OFF | OW-1-44 | 66.6 | 30 | 19 |
| OW-1-39S | 50.7 | 50 | 13 | OW-1-45 | 65.7 | 30 | 20 | OW-1-51R | 60.6 | 40 | 18 |
| OW-1-40S | 51.1 | 30 | 13 | OW-1-46 | 64.3 | 30 | 18 | OW-1-52 | 59.3 | 50 | 17 |
| OW-1-41S | 51.5 | 30 | 14 | OW-1-47 | 63.4 | 35 | 18 | OW-1-53 | 60.0 | 40 | 18 |
| OW-1-42S | 51.3 | 30 | 13 | OW-1-48 | 62.5 | 35 | 18 | OW-1-54 | 60.0 | 30 | 17 |
| | | | | OW-1-49 | 61.5 | 40 | 17 | | | | |
| | | | | OW-1-50 | 61.0 | 30 | 17 | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

| O ₂ Injection System #2 | | | | | | | | | | | | |
|------------------------------------|-------|-------------------------------------|------------------|-----------|-----------------------|-------|-------------------------------------|------------------|-----------|-----------------------|------------------|---------------|
| Monitoring Points Log | | | | | Monitoring Points Log | | | | | Monitoring Points Log | | |
| ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DO (mg/L) Middle | DO (mg/L) Top |
| MP-1-1D | 24.93 | 20.4 | 2.23 | 0 | MP-1-5 | 24.57 | 20.9 | 2.48 | 0 | MP-1-1D | 2.12 | 2.19 |
| MP-1-1S | 25.08 | 31.9 | 2.33 | 0.3 | MP-1-6 | 17.07 | 20.9 | 2.34 | 0 | MP-1-2D | 2.17 | 3.21 |
| MP-1-2D | 19.12 | 18.6 | 1.74 | 0 | MP-1-7 | 20.36 | 20.9 | 1.92 | 0 | MP-1-3D | 2.37 | 2.91 |
| MP-1-2S | 19.51 | 29.2 | 3.40 | 0 | MP-1-8 | 21.40 | 30.8 | 2.51 | 0 | MP-1-4D | 2.28 | 2.54 |
| MP-1-3D | 17.26 | 20.9 | 2.55 | 0 | | | | | | | | |
| MP-1-3S | 17.30 | 24.5 | 3.27 | 0 | | | | | | | | |
| MP-1-4D | 20.02 | 20.9 | 2.09 | 0.2 | | | | | | | | |
| MP-1-4S | 19.83 | 20.9 | 2.94 | 0.2 | | | | | | | | |

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 7/31/2012

OPERATIONAL NOTES

GA5 Air Compressor

- | | | |
|--|------------------------------|-----------------------------|
| 1) Oil Level Checked with system unloaded* | Yes <u> X </u> | No <u> </u> |
| * Unload system, wait until Delivery Air Pressure is less than 9 psi | | |
| 2) Oil Level with system unloaded | | |
| Low (red) <u> </u> | Normal (green) <u> </u> | High (orange) <u> </u> |
| 3) Oil added | Yes <u> </u> | No <u> X </u> |
| 4) Oil changed | Yes <u> </u> | No <u> X </u> |
| 5) Oil filter changed | Yes <u> </u> | No <u> X </u> |
| 6) Air filter Changed | Yes <u> </u> | No <u> X </u> |
| 7) Oil separator changed | Yes <u> </u> | No <u> X </u> |
| 8) Terminal strips checked | Yes <u> </u> | No <u> X </u> |

AS-80 O₂ Generator

- | | | |
|-----------------------|-------------------|-----------------|
| 1) Prefilter changed | Yes <u> </u> | No <u> X </u> |
| 2) Coalescing changed | Yes <u> </u> | No <u> X </u> |

GENERAL SYSTEM NOTES

Trailer

- | | | | |
|----|---|------------------|------------------|
| 1) | Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) | Yes <u> X </u> | No <u> </u> |
| 2) | Abnormal conditions observed (e.g. vandalism) <u> </u> | | |
| 3) | Other major activities completed <u> </u> | | |
| 4) | Supplies needed <u> </u> | | |
| 5) | Visitors <u> </u> | | |

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Soaked up oil inside oil water separator with pads for disposal. Found oxygen level a little low. Determined that there is a bad valve in the oxygen generator and will isolate for replacement later in the week. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas.

Electric Meter # 96-934-323 tied into Pole #4

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|-----------|
| Date: | 8/10/2012 |
| Time: | 1249 |
| Weather: | Sunny |
| Outdoor Temperature: | ~84° F |
| Inside Trailer Temperature: | ~72° F |
| Performed By: | Mike Ryan |

| O ₂ Generator (AirSep) | | | | Compressor (Kaesar Rotary Screw) | | | |
|--|---------|-----------|--|--|-------|--|---------|
| Hours | 3,827.0 | | | Compressor Tank * | 115 | | (psi) |
| Feed Air Pressure * | 110 | (psi) | | (readings below are made from control panel) | | | |
| Cycle Pressure * | 60 | (psi) | | Delivery Air | 113 | | (psi) |
| Oxygen Receiver Pressure * | 110 | (psi) | | Element Outlet Temperature | 151 | | (oF) |
| | | | | Running Hours | 4,556 | | (hours) |
| | | | | Loading Hours | 2,871 | | (hours) |
| Oxygen Purity | 96.9 | (percent) | | | | | |
| * maximum reading during loading cycle | | | | * maximum reading during loading cycle | | | |

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| Injection Bank 1 | | | | Injection Bank 2 | | | | Injection Bank 3 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-1 | 95.5 | 30 | 32 | OW-1-5S | 67.3 | 35 | 18 | OW-1-9D | 88.5 | OFF | OFF |
| OW-1-2 | 96.5 | 30 | 29 | OW-1-6S | 67.0 | 30 | 18 | OW-1-10D | 87.2 | OFF | OFF |
| OW-1-3 | 96.3 | 30 | 31 | OW-1-7S | 66.9 | 30 | 17 | OW-1-11D | 86.1 | OFF | OFF |
| OW-1-4 | 95.0 | 35 | 30 | OW-1-8S | 66.7 | OFF | OFF | OW-1-12D | 85.3 | OFF | OFF |
| OW-1-5D | 93.9 | 30 | 29 | OW-1-9S | 66.0 | 30 | 19 | OW-1-13D | 84.7 | OFF | OFF |
| OW-1-6D | 92.4 | 40 | 30 | OW-1-10S | 54.6 | 35 | 13 | OW-1-14D | 84.1 | OFF | OFF |
| OW-1-7D | 91.1 | 30 | 29 | OW-1-11S | 54.1 | 30 | 14 | OW-1-15D | 83.3 | OFF | OFF |
| OW-1-8D | 89.6 | OFF | OFF | OW-1-12S | 53.6 | 30 | 15 | OW-1-16D | 82.5 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 8/10/2012

O₂ Injection System #1

| Injection Bank 4 | | | | Injection Bank 5 | | | | Injection Bank 6 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-13S | 53.1 | 30 | 13 | OW-1-17D | 79.5 | OFF | OFF | OW-1-21S | 49.3 | 30 | 12 |
| OW-1-14S | 52.7 | 30 | 14 | OW-1-18D | 78.3 | OFF | OFF | OW-1-22S | 49.3 | 40 | 12 |
| OW-1-15S | 52.2 | 35 | 14 | OW-1-19D | 78.9 | OFF | OFF | OW-1-23S | 48.8 | 25 | 12 |
| OW-1-16SR | 51.8 | OFF | OFF | OW-1-20D | 79.5 | OFF | OFF | OW-1-24S | 48.4 | 30 | 13 |
| OW-1-17S | 50.7 | OFF | OFF | OW-1-21D | 79.5 | OFF | OFF | OW-1-25S | 48.8 | 25 | 13 |
| OW-1-18S | 50.2 | 30 | 13 | OW-1-22D | 79.5 | OFF | OFF | OW-1-26SR | 48.3 | 20 | 13 |
| OW-1-19S | 49.7 | 35 | 15 | OW-1-23D | 78.7 | OFF | OFF | OW-1-27S | 48.3 | 40 | 13 |
| OW-1-20S | 49.3 | 45 | 14 | OW-1-24D | 78.2 | OFF | OFF | OW-1-28S | 48.3 | 20 | 13 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

| Injection Bank 7 | | | | Injection Bank 8 | | | | Injection Bank 9 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-25D | 78.1 | 25 | 27 | OW-1-29S | 48.5 | 30 | 13 | OW-1-33D | 83.2 | 35 | 29 |
| OW-1-26D | 78.1 | 50 | 28 | OW-1-30S | 48.8 | 30 | 13 | OW-1-34D | 84.5 | 30 | 31 |
| OW-1-27D | 77.9 | 50 | 28 | OW-1-31S | 49.3 | 35 | 13 | OW-1-35D | 85.0 | 50 | 30 |
| OW-1-28D | 78.0 | 30 | 27 | OW-1-32S | 49.3 | 30 | 12 | OW-1-36D | 85.0 | 30 | 30 |
| OW-1-29D | 78.4 | 30 | 27 | OW-1-33S | 49.7 | 40 | 13 | OW-1-37D | 84.0 | 30 | 29 |
| OW-1-30D | 79.0 | 40 | 38 | OW-1-34S | 50.1 | 35 | 13 | OW-1-38D | 82.0 | 60 | 36 |
| OW-1-31D | 80.5 | 40 | 26 | OW-1-35S | 50.3 | 30 | 13 | OW-1-39D | 78.0 | 25 | 27 |
| OW-1-32D | 81.6 | 30 | 29 | OW-1-36S | 50.3 | 25 | 13 | OW-1-40D | 76.0 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 8/10/2012

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|-------------------|-------|------|-----|-------------------|-------|------|-----|
| Injection Bank 10 | | | | Injection Bank 11 | | | | Injection Bank 12 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-37S | 50.5 | 30 | 12 | OW-1-41D | 73.6 | OFF | OFF | OW-1-43 | 67.4 | OFF | OFF |
| OW-1-38S | 50.6 | 25 | 13 | OW-1-42D | 71.0 | OFF | OFF | OW-1-44 | 66.6 | 30 | 19 |
| OW-1-39S | 50.7 | 35 | 13 | OW-1-45 | 65.7 | 35 | 20 | OW-1-51R | 60.6 | 40 | 17 |
| OW-1-40S | 51.1 | 25 | 13 | OW-1-46 | 64.3 | 35 | 18 | OW-1-52 | 59.3 | 50 | 17 |
| OW-1-41S | 51.5 | 25 | 13 | OW-1-47 | 63.4 | 35 | 18 | OW-1-53 | 60.0 | 50 | 17 |
| OW-1-42S | 51.3 | 30 | 13 | OW-1-48 | 62.5 | 30 | 18 | OW-1-54 | 60.0 | 40 | 17 |
| | | | | OW-1-49 | 61.5 | 30 | 17 | | | | |
| | | | | OW-1-50 | 61.0 | 40 | 17 | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

| O ₂ Injection System #2 | | | | | | | | | | | | |
|------------------------------------|-------|-------------------------------------|------------------|-----------|-----------------------|-------|-------------------------------------|------------------|-----------|-----------------------|------------------|---------------|
| Monitoring Points Log | | | | | Monitoring Points Log | | | | | Monitoring Points Log | | |
| ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DO (mg/L) Middle | DO (mg/L) Top |
| MP-1-1D | 25.11 | 18.7 | 2.15 | 0 | MP-1-5 | 24.76 | 20.1 | 2.46 | 0 | MP-1-1D | 1.58 | 1.84 |
| MP-1-1S | 25.30 | 33.4 | 2.35 | 0.4 | MP-1-6 | 17.25 | 20.9 | 2.43 | 0 | MP-1-2D | 2.44 | 3.25 |
| MP-1-2D | 19.32 | 17.6 | 1.75 | 0.2 | MP-1-7 | 20.53 | 20.9 | 2.77 | 0 | MP-1-3D | 2.62 | 3.16 |
| MP-1-2S | 19.73 | 24.3 | 3.40 | 0 | MP-1-8 | 21.60 | 20.5 | 2.93 | 0 | MP-1-4D | 2.63 | 3.03 |
| MP-1-3D | 17.45 | 20.9 | 2.34 | 0 | | | | | | | | |
| MP-1-3S | 17.47 | 23.4 | 3.49 | 0.2 | | | | | | | | |
| MP-1-4D | 20.22 | 21.5 | 2.10 | 0.4 | | | | | | | | |
| MP-1-4S | 20.02 | 20.9 | 2.70 | 0 | | | | | | | | |

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 8/10/2012

OPERATIONAL NOTES

GA5 Air Compressor

- | | | |
|--|--|--|
| 1) Oil Level Checked with system unloaded* | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| * Unload system, wait until Delivery Air Pressure is less than 9 psi | | |
| 2) Oil Level with system unloaded | | |
| Low (red) _____ | Normal (green) <input checked="" type="checkbox"/> | High (orange) _____ |
| 3) Oil added | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 4) Oil changed | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 5) Oil filter changed | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 6) Air filter Changed | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 7) Oil separator changed | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 8) Terminal strips checked | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

AS-80 O₂ Generator

- | | | |
|-----------------------|-----------|--|
| 1) Prefilter changed | Yes _____ | No <input checked="" type="checkbox"/> |
| 2) Coalescing changed | Yes _____ | No <input checked="" type="checkbox"/> |

GENERAL SYSTEM NOTES

Trailer

- | | | | |
|----|---|---|-----------------------------|
| 1) | Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| 2) | Abnormal conditions observed (e.g. vandalism) _____ | | |
| 3) | Other major activities completed _____ | | |
| 4) | Supplies needed _____ | | |
| 5) | Visitors _____ | | |

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

On Friday, August 3, 2012 Mike was on-site to determine why the oxygen level was low. Found oxygen level at 82% before shutting down the system for service. Determined that all of the solenoid valves on air separator unit were dirty and needed to be cleaned. Cleaned all valves and reinstalled into system. Tested each valve for proper voltage and cycle and found to be functioning properly. Restart system and oxygen level was at 94%. Left system running.

August 10, 2012 - Soaked up oil inside oil water separator with pads for disposal. Found oxygen level at 96%. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas. Flushed and cleaned A/C unit filter.

Electric Meter # 96-934-323 tied into Pole #4

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|-----------|
| Date: | 9/1/2012 |
| Time: | 1159 |
| Weather: | Sunny |
| Outdoor Temperature: | ~91° F |
| Inside Trailer Temperature: | ~75° F |
| Performed By: | Mike Ryan |

| O ₂ Generator (AirSep) | | Compressor (Kaesar Rotary Screw) | |
|--|---------------|--|-------------|
| Hours | OFF | Compressor Tank * | OFF (psi) |
| Feed Air Pressure * | OFF (psi) | (readings below are made from control panel) | |
| Cycle Pressure * | OFF (psi) | Delivery Air | OFF (psi) |
| Oxygen Receiver Pressure * | OFF (psi) | Element Outlet Temperature | OFF (oF) |
| Oxygen Purity | OFF (percent) | Running Hours | OFF (hours) |
| | | Loading Hours | OFF (hours) |
| * maximum reading during loading cycle | | * maximum reading during loading cycle | |

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| Injection Bank 1 | | | | Injection Bank 2 | | | | Injection Bank 3 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-1 | 95.5 | OFF | OFF | OW-1-5S | 67.3 | OFF | OFF | OW-1-9D | 88.5 | OFF | OFF |
| OW-1-2 | 96.5 | OFF | OFF | OW-1-6S | 67.0 | OFF | OFF | OW-1-10D | 87.2 | OFF | OFF |
| OW-1-3 | 96.3 | OFF | OFF | OW-1-7S | 66.9 | OFF | OFF | OW-1-11D | 86.1 | OFF | OFF |
| OW-1-4 | 95.0 | OFF | OFF | OW-1-8S | 66.7 | OFF | OFF | OW-1-12D | 85.3 | OFF | OFF |
| OW-1-5D | 93.9 | OFF | OFF | OW-1-9S | 66.0 | OFF | OFF | OW-1-13D | 84.7 | OFF | OFF |
| OW-1-6D | 92.4 | OFF | OFF | OW-1-10S | 54.6 | OFF | OFF | OW-1-14D | 84.1 | OFF | OFF |
| OW-1-7D | 91.1 | OFF | OFF | OW-1-11S | 54.1 | OFF | OFF | OW-1-15D | 83.3 | OFF | OFF |
| OW-1-8D | 89.6 | OFF | OFF | OW-1-12S | 53.6 | OFF | OFF | OW-1-16D | 82.5 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 9/1/2012

O₂ Injection System #1

| Injection Bank 4 | | | | Injection Bank 5 | | | | Injection Bank 6 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-13S | 53.1 | OFF | OFF | OW-1-17D | 79.5 | OFF | OFF | OW-1-21S | 49.3 | OFF | OFF |
| OW-1-14S | 52.7 | OFF | OFF | OW-1-18D | 78.3 | OFF | OFF | OW-1-22S | 49.3 | OFF | OFF |
| OW-1-15S | 52.2 | OFF | OFF | OW-1-19D | 78.9 | OFF | OFF | OW-1-23S | 48.8 | OFF | OFF |
| OW-1-16SR | 51.8 | OFF | OFF | OW-1-20D | 79.5 | OFF | OFF | OW-1-24S | 48.4 | OFF | OFF |
| OW-1-17S | 50.7 | OFF | OFF | OW-1-21D | 79.5 | OFF | OFF | OW-1-25S | 48.8 | OFF | OFF |
| OW-1-18S | 50.2 | OFF | OFF | OW-1-22D | 79.5 | OFF | OFF | OW-1-26SR | 48.3 | OFF | OFF |
| OW-1-19S | 49.7 | OFF | OFF | OW-1-23D | 78.7 | OFF | OFF | OW-1-27S | 48.3 | OFF | OFF |
| OW-1-20S | 49.3 | OFF | OFF | OW-1-24D | 78.2 | OFF | OFF | OW-1-28S | 48.3 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

| Injection Bank 7 | | | | Injection Bank 8 | | | | Injection Bank 9 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-25D | 78.1 | OFF | OFF | OW-1-29S | 48.5 | OFF | OFF | OW-1-33D | 83.2 | OFF | OFF |
| OW-1-26D | 78.1 | OFF | OFF | OW-1-30S | 48.8 | OFF | OFF | OW-1-34D | 84.5 | OFF | OFF |
| OW-1-27D | 77.9 | OFF | OFF | OW-1-31S | 49.3 | OFF | OFF | OW-1-35D | 85.0 | OFF | OFF |
| OW-1-28D | 78.0 | OFF | OFF | OW-1-32S | 49.3 | OFF | OFF | OW-1-36D | 85.0 | OFF | OFF |
| OW-1-29D | 78.4 | OFF | OFF | OW-1-33S | 49.7 | OFF | OFF | OW-1-37D | 84.0 | OFF | OFF |
| OW-1-30D | 79.0 | OFF | OFF | OW-1-34S | 50.1 | OFF | OFF | OW-1-38D | 82.0 | OFF | OFF |
| OW-1-31D | 80.5 | OFF | OFF | OW-1-35S | 50.3 | OFF | OFF | OW-1-39D | 78.0 | OFF | OFF |
| OW-1-32D | 81.6 | OFF | OFF | OW-1-36S | 50.3 | OFF | OFF | OW-1-40D | 76.0 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 9/1/2012

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|-------------------|-------|------|-----|-------------------|-------|------|-----|
| Injection Bank 10 | | | | Injection Bank 11 | | | | Injection Bank 12 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-37S | 50.5 | OFF | OFF | OW-1-41D | 73.6 | OFF | OFF | OW-1-43 | 67.4 | OFF | OFF |
| OW-1-38S | 50.6 | OFF | OFF | OW-1-42D | 71.0 | OFF | OFF | OW-1-44 | 66.6 | OFF | OFF |
| OW-1-39S | 50.7 | OFF | OFF | OW-1-45 | 65.7 | OFF | OFF | OW-1-51R | 60.6 | OFF | OFF |
| OW-1-40S | 51.1 | OFF | OFF | OW-1-46 | 64.3 | OFF | OFF | OW-1-52 | 59.3 | OFF | OFF |
| OW-1-41S | 51.5 | OFF | OFF | OW-1-47 | 63.4 | OFF | OFF | OW-1-53 | 60.0 | OFF | OFF |
| OW-1-42S | 51.3 | OFF | OFF | OW-1-48 | 62.5 | OFF | OFF | OW-1-54 | 60.0 | OFF | OFF |
| | | | | OW-1-49 | 61.5 | OFF | OFF | | | | |
| | | | | OW-1-50 | 61.0 | OFF | OFF | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

| O ₂ Injection System #2 | | | | | | | | | | | | |
|------------------------------------|-------|-------------------------------------|------------------|-----------|-----------------------|-------|-------------------------------------|------------------|-----------|-----------------------|------------------|---------------|
| Monitoring Points Log | | | | | Monitoring Points Log | | | | | Monitoring Points Log | | |
| ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DO (mg/L) Middle | DO (mg/L) Top |
| MP-1-1D | 25.46 | 20.9 | 2.41 | 0 | MP-1-5 | 25.12 | 20.9 | 2.33 | 0 | MP-1-1D | 1.80 | 1.68 |
| MP-1-1S | 25.63 | 22.2 | 2.42 | 0 | MP-1-6 | 17.60 | 17.2 | 2.26 | 0.2 | MP-1-2D | 2.45 | 3.01 |
| MP-1-2D | 19.64 | 20.9 | 1.94 | 0 | MP-1-7 | 20.89 | 20.7 | 2.11 | 0 | MP-1-3D | 2.02 | 1.91 |
| MP-1-2S | 20.02 | 22.9 | 2.71 | 0 | MP-1-8 | 21.94 | 20.9 | 2.38 | 0 | MP-1-4D | 2.61 | 3.15 |
| MP-1-3D | 17.80 | 21.9 | 2.21 | 0 | | | | | | | | |
| MP-1-3S | 17.83 | 25.9 | 3.11 | 0 | | | | | | | | |
| MP-1-4D | 20.57 | 21.7 | 1.72 | 0 | | | | | | | | |
| MP-1-4S | 20.37 | 21.6 | 2.31 | 0.1 | | | | | | | | |

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 9/1/2012

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes No
* Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded Low (red) Normal (green) High (orange)
3) Oil added Yes No
4) Oil changed Yes No
5) Oil filter changed Yes No
6) Air filter Changed Yes No
7) Oil separator changed Yes No
8) Terminal strips checked Yes No

AS-80 O2 Generator

- 1) Prefilter changed Yes No
2) Coalescing changed Yes No

GENERAL SYSTEM NOTES

Trailer

- 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) Yes No
2) Abnormal conditions observed (e.g. vandalism)
3) Other major activities completed
4) Supplies needed
5) Visitors

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

As discussed with Jon Sundquist on Thursday, August 30, 2012, with the system down for repairs we collected monitoring point readings to get a level with the system off.

Electric Meter # 96-934-323 tied into Pole #4

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|------------------|
| Date: | <u>9/13/2012</u> |
| Time: | <u>1320</u> |
| Weather: | <u>Sunny</u> |
| Outdoor Temperature: | <u>~80° F</u> |
| Inside Trailer Temperature: | <u>~78° F</u> |
| Performed By: | <u>Mike Ryan</u> |

| O ₂ Generator (AirSep) | | | | Compressor (Kaesar Rotary Screw) | | | |
|--|----------------|-----------|--|--|--------------|--|---------|
| Hours | <u>3,968.9</u> | | | Compressor Tank * | <u>120</u> | | (psi) |
| Feed Air Pressure * | <u>110</u> | (psi) | | (readings below are made from control panel) | | | |
| Cycle Pressure * | <u>65</u> | (psi) | | Delivery Air | <u>109</u> | | (psi) |
| Oxygen Receiver Pressure * | <u>105</u> | (psi) | | Element Outlet Temperature | <u>174</u> | | (oF) |
| | | | | Running Hours | <u>4,714</u> | | (hours) |
| | | | | Loading Hours | <u>2,971</u> | | (hours) |
| Oxygen Purity | <u>97.8</u> | (percent) | | | | | |
| * maximum reading during loading cycle | | | | * maximum reading during loading cycle | | | |

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| Injection Bank 1 | | | | Injection Bank 2 | | | | Injection Bank 3 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-1 | 95.5 | 30 | 31 | OW-1-5S | 67.3 | 30 | 18 | OW-1-9D | 88.5 | OFF | OFF |
| OW-1-2 | 96.5 | 25 | 30 | OW-1-6S | 67.0 | 30 | 18 | OW-1-10D | 87.2 | OFF | OFF |
| OW-1-3 | 96.3 | 30 | 31 | OW-1-7S | 66.9 | 25 | 19 | OW-1-11D | 86.1 | OFF | OFF |
| OW-1-4 | 95.0 | 30 | 30 | OW-1-8S | 66.7 | OFF | OFF | OW-1-12D | 85.3 | OFF | OFF |
| OW-1-5D | 93.9 | 30 | 29 | OW-1-9S | 66.0 | 20 | 19 | OW-1-13D | 84.7 | OFF | OFF |
| OW-1-6D | 92.4 | 30 | 29 | OW-1-10S | 54.6 | 25 | 13 | OW-1-14D | 84.1 | OFF | OFF |
| OW-1-7D | 91.1 | 25 | 29 | OW-1-11S | 54.1 | 30 | 14 | OW-1-15D | 83.3 | OFF | OFF |
| OW-1-8D | 89.6 | OFF | OFF | OW-1-12S | 53.6 | 35 | 14 | OW-1-16D | 82.5 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 9/13/2012

O₂ Injection System #1

| Injection Bank 4 | | | | Injection Bank 5 | | | | Injection Bank 6 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-13S | 53.1 | 25 | 14 | OW-1-17D | 79.5 | OFF | OFF | OW-1-21S | 49.3 | 28 | 12 |
| OW-1-14S | 52.7 | 30 | 15 | OW-1-18D | 78.3 | OFF | OFF | OW-1-22S | 49.3 | 30 | 11 |
| OW-1-15S | 52.2 | 30 | 14 | OW-1-19D | 78.9 | OFF | OFF | OW-1-23S | 48.8 | 20 | 12 |
| OW-1-16SR | 51.8 | OFF | OFF | OW-1-20D | 79.5 | OFF | OFF | OW-1-24S | 48.4 | 30 | 12 |
| OW-1-17S | 50.7 | OFF | OFF | OW-1-21D | 79.5 | OFF | OFF | OW-1-25S | 48.8 | 38 | 13 |
| OW-1-18S | 50.2 | 25 | 13 | OW-1-22D | 79.5 | OFF | OFF | OW-1-26SR | 48.3 | 25 | 13 |
| OW-1-19S | 49.7 | 35 | 15 | OW-1-23D | 78.7 | OFF | OFF | OW-1-27S | 48.3 | 30 | 13 |
| OW-1-20S | 49.3 | 45 | 14 | OW-1-24D | 78.2 | OFF | OFF | OW-1-28S | 48.3 | 25 | 13 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

| Injection Bank 7 | | | | Injection Bank 8 | | | | Injection Bank 9 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-25D | 78.1 | 35 | 28 | OW-1-29S | 48.5 | 20 | 12 | OW-1-33D | 83.2 | 40 | 29 |
| OW-1-26D | 78.1 | 45 | 30 | OW-1-30S | 48.8 | 20 | 13 | OW-1-34D | 84.5 | 35 | 31 |
| OW-1-27D | 77.9 | 35 | 29 | OW-1-31S | 49.3 | 25 | 13 | OW-1-35D | 85.0 | 60 | 29 |
| OW-1-28D | 78.0 | 40 | 28 | OW-1-32S | 49.3 | 30 | 12 | OW-1-36D | 85.0 | 30 | 30 |
| OW-1-29D | 78.4 | 30 | 27 | OW-1-33S | 49.7 | 20 | 13 | OW-1-37D | 84.0 | 30 | 29 |
| OW-1-30D | 79.0 | 30 | 32 | OW-1-34S | 50.1 | 30 | 13 | OW-1-38D | 82.0 | 60 | 27 |
| OW-1-31D | 80.5 | 35 | 19 | OW-1-35S | 50.3 | 25 | 13 | OW-1-39D | 78.0 | 20 | 27 |
| OW-1-32D | 81.6 | 20 | 28 | OW-1-36S | 50.3 | 20 | 13 | OW-1-40D | 76.0 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 9/13/2012

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|-------------------|-------|------|-----|-------------------|-------|------|-----|
| Injection Bank 10 | | | | Injection Bank 11 | | | | Injection Bank 12 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-37S | 50.5 | 40 | 12 | OW-1-41D | 73.6 | OFF | OFF | OW-1-43 | 67.4 | OFF | OFF |
| OW-1-38S | 50.6 | 25 | 13 | OW-1-42D | 71.0 | OFF | OFF | OW-1-44 | 66.6 | 30 | 18 |
| OW-1-39S | 50.7 | 40 | 12 | OW-1-45 | 65.7 | 35 | 19 | OW-1-51R | 60.6 | 30 | 17 |
| OW-1-40S | 51.1 | 25 | 13 | OW-1-46 | 64.3 | 30 | 14 | OW-1-52 | 59.3 | 55 | 13 |
| OW-1-41S | 51.5 | 20 | 13 | OW-1-47 | 63.4 | 30 | 17 | OW-1-53 | 60.0 | 35 | 16 |
| OW-1-42S | 51.3 | 30 | 13 | OW-1-48 | 62.5 | 30 | 18 | OW-1-54 | 60.0 | 35 | 16 |
| | | | | OW-1-49 | 61.5 | 25 | 18 | | | | |
| | | | | OW-1-50 | 61.0 | 30 | 14 | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

| O ₂ Injection System #2 | | | | | | | | | | | | |
|------------------------------------|-------|-------------------------------------|------------------|-----------|-----------------------|-------|-------------------------------------|------------------|-----------|-----------------------|------------------|---------------|
| Monitoring Points Log | | | | | Monitoring Points Log | | | | | Monitoring Points Log | | |
| ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DO (mg/L) Middle | DO (mg/L) Top |
| MP-1-1D | 25.66 | 20.1 | 2.43 | 0 | MP-1-5 | 25.32 | 17.3 | 2.87 | 0 | MP-1-1D | 1.82 | 2.68 |
| MP-1-1S | 25.83 | 30.2 | 2.64 | 0 | MP-1-6 | 17.77 | 21.7 | 2.63 | 0.3 | MP-1-2D | 2.45 | 3.76 |
| MP-1-2D | 19.86 | 20.7 | 1.69 | 0 | MP-1-7 | 21.08 | 20.9 | 2.51 | 0 | MP-1-3D | 2.56 | 3.37 |
| MP-1-2S | 20.22 | 31.9 | 2.78 | 0.5 | MP-1-8 | 22.13 | 20.9 | 2.50 | 0 | MP-1-4D | 2.84 | 3.83 |
| MP-1-3D | 17.98 | 22.2 | 3.13 | 0 | | | | | | | | |
| MP-1-3S | 18.00 | 23.7 | 2.54 | 0 | | | | | | | | |
| MP-1-4D | 20.78 | 22.4 | 1.93 | 0.4 | | | | | | | | |
| MP-1-4S | 20.45 | 23.9 | 2.63 | 0 | | | | | | | | |

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|-----------|
| Date: | 9/28/2012 |
| Time: | 1251 |
| Weather: | Cloudy |
| Outdoor Temperature: | ~65° F |
| Inside Trailer Temperature: | ~70° F |
| Performed By: | Mike Ryan |

| O ₂ Generator (AirSep) | | | | Compressor (Kaesar Rotary Screw) | | | |
|--|---------|-----------|--|--|-------|--|---------|
| Hours | 4,102.3 | | | Compressor Tank * | 110 | | (psi) |
| Feed Air Pressure * | 110 | (psi) | | (readings below are made from control panel) | | | |
| Cycle Pressure * | 70 | (psi) | | Delivery Air | 109 | | (psi) |
| Oxygen Receiver Pressure * | 95 | (psi) | | Element Outlet Temperature | 90 | | (oF) |
| | | | | Running Hours | 4,862 | | (hours) |
| | | | | Loading Hours | 3,063 | | (hours) |
| Oxygen Purity | 96.9 | (percent) | | | | | |
| * maximum reading during loading cycle | | | | * maximum reading during loading cycle | | | |

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| Injection Bank 1 | | | | Injection Bank 2 | | | | Injection Bank 3 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-1 | 95.5 | 40 | 31 | OW-1-5S | 67.3 | 35 | 18 | OW-1-9D | 88.5 | OFF | OFF |
| OW-1-2 | 96.5 | 40 | 29 | OW-1-6S | 67.0 | 30 | 18 | OW-1-10D | 87.2 | OFF | OFF |
| OW-1-3 | 96.3 | 35 | 30 | OW-1-7S | 66.9 | 40 | 18 | OW-1-11D | 86.1 | OFF | OFF |
| OW-1-4 | 95.0 | 30 | 30 | OW-1-8S | 66.7 | OFF | OFF | OW-1-12D | 85.3 | OFF | OFF |
| OW-1-5D | 93.9 | 40 | 29 | OW-1-9S | 66.0 | 35 | 19 | OW-1-13D | 84.7 | OFF | OFF |
| OW-1-6D | 92.4 | 50 | 29 | OW-1-10S | 54.6 | 40 | 14 | OW-1-14D | 84.1 | OFF | OFF |
| OW-1-7D | 91.1 | 40 | 29 | OW-1-11S | 54.1 | 30 | 14 | OW-1-15D | 83.3 | OFF | OFF |
| OW-1-8D | 89.6 | OFF | OFF | OW-1-12S | 53.6 | 30 | 15 | OW-1-16D | 82.5 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 9/28/2012

O₂ Injection System #1

| Injection Bank 4 | | | | Injection Bank 5 | | | | Injection Bank 6 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-13S | 53.1 | 30 | 13 | OW-1-17D | 79.5 | OFF | OFF | OW-1-21S | 49.3 | 30 | 12 |
| OW-1-14S | 52.7 | 40 | 14 | OW-1-18D | 78.3 | OFF | OFF | OW-1-22S | 49.3 | 30 | 12 |
| OW-1-15S | 52.2 | 35 | 13 | OW-1-19D | 78.9 | OFF | OFF | OW-1-23S | 48.8 | 40 | 13 |
| OW-1-16SR | 51.8 | OFF | OFF | OW-1-20D | 79.5 | OFF | OFF | OW-1-24S | 48.4 | 40 | 13 |
| OW-1-17S | 50.7 | OFF | OFF | OW-1-21D | 79.5 | OFF | OFF | OW-1-25S | 48.8 | 30 | 13 |
| OW-1-18S | 50.2 | 30 | 13 | OW-1-22D | 79.5 | OFF | OFF | OW-1-26SR | 48.3 | 35 | 13 |
| OW-1-19S | 49.7 | 40 | 14 | OW-1-23D | 78.7 | OFF | OFF | OW-1-27S | 48.3 | 30 | 13 |
| OW-1-20S | 49.3 | 50 | 13 | OW-1-24D | 78.2 | OFF | OFF | OW-1-28S | 48.3 | 45 | 14 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

| Injection Bank 7 | | | | Injection Bank 8 | | | | Injection Bank 9 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-25D | 78.1 | 40 | 27 | OW-1-29S | 48.5 | 35 | 12 | OW-1-33D | 83.2 | 30 | 29 |
| OW-1-26D | 78.1 | 70 | 28 | OW-1-30S | 48.8 | 35 | 13 | OW-1-34D | 84.5 | 40 | 31 |
| OW-1-27D | 77.9 | 60 | 29 | OW-1-31S | 49.3 | 35 | 13 | OW-1-35D | 85.0 | 60 | 29 |
| OW-1-28D | 78.0 | 40 | 28 | OW-1-32S | 49.3 | 30 | 13 | OW-1-36D | 85.0 | 30 | 30 |
| OW-1-29D | 78.4 | 35 | 26 | OW-1-33S | 49.7 | 40 | 13 | OW-1-37D | 84.0 | 30 | 29 |
| OW-1-30D | 79.0 | 50 | 38 | OW-1-34S | 50.1 | 30 | 13 | OW-1-38D | 82.0 | 35 | 33 |
| OW-1-31D | 80.5 | 50 | 21 | OW-1-35S | 50.3 | 35 | 14 | OW-1-39D | 78.0 | 35 | 28 |
| OW-1-32D | 81.6 | 40 | 29 | OW-1-36S | 50.3 | 30 | 14 | OW-1-40D | 76.0 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 9/28/2012

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|-------------------|-------|------|-----|-------------------|-------|------|-----|
| Injection Bank 10 | | | | Injection Bank 11 | | | | Injection Bank 12 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-37S | 50.5 | 40 | 12 | OW-1-41D | 73.6 | OFF | OFF | OW-1-43 | 67.4 | OFF | OFF |
| OW-1-38S | 50.6 | 35 | 12 | OW-1-42D | 71.0 | OFF | OFF | OW-1-44 | 66.6 | 30 | 18 |
| OW-1-39S | 50.7 | 50 | 12 | OW-1-45 | 65.7 | 40 | 19 | OW-1-51R | 60.6 | 40 | 17 |
| OW-1-40S | 51.1 | 30 | 13 | OW-1-46 | 64.3 | 30 | 18 | OW-1-52 | 59.3 | 50 | 17 |
| OW-1-41S | 51.5 | 40 | 13 | OW-1-47 | 63.4 | 30 | 18 | OW-1-53 | 60.0 | 40 | 17 |
| OW-1-42S | 51.3 | 30 | 13 | OW-1-48 | 62.5 | 30 | 18 | OW-1-54 | 60.0 | 30 | 16 |
| | | | | OW-1-49 | 61.5 | 25 | 17 | | | | |
| | | | | OW-1-50 | 61.0 | 40 | 17 | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

| O ₂ Injection System #2 | | | | | | | | | | | | |
|------------------------------------|-------|-------------------------------------|------------------|-----------|-----------------------|-------|-------------------------------------|------------------|-----------|-----------------------|------------------|---------------|
| Monitoring Points Log | | | | | Monitoring Points Log | | | | | Monitoring Points Log | | |
| ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DO (mg/L) Middle | DO (mg/L) Top |
| MP-1-1D | 24.77 | 19.4 | 2.49 | 0 | MP-1-5 | 25.43 | 16.7 | 2.26 | 0 | MP-1-1D | 1.91 | 2.07 |
| MP-1-1S | 25.92 | 29.7 | 2.55 | 0 | MP-1-6 | 17.90 | 20.9 | 2.45 | 0.3 | MP-1-2D | 2.25 | 3.17 |
| MP-1-2D | 19.94 | 20.7 | 1.77 | 0 | MP-1-7 | 21.15 | 18.9 | 1.96 | 0 | MP-1-3D | 2.76 | 3.52 |
| MP-1-2S | 20.32 | 36.7 | 3.05 | 0.7 | MP-1-8 | 22.17 | 19.6 | 2.52 | 0 | MP-1-4D | 2.22 | 3.25 |
| MP-1-3D | 18.10 | 19.1 | 2.94 | 0 | | | | | | | | |
| MP-1-3S | 18.12 | 22.7 | 3.34 | 0.9 | | | | | | | | |
| MP-1-4D | 20.85 | 18.9 | 1.83 | 0.4 | | | | | | | | |
| MP-1-4S | 20.67 | 26.7 | 2.69 | 0 | | | | | | | | |

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|-----------|
| Date: | 10/8/2012 |
| Time: | 1514 |
| Weather: | Rain |
| Outdoor Temperature: | ~58° F |
| Inside Trailer Temperature: | ~70° F |
| Performed By: | Mike Ryan |

| O ₂ Generator (AirSep) | | | | Compressor (Kaesar Rotary Screw) | | | |
|--|---------|-----------|--|--|-------|--|---------|
| Hours | 4,182.4 | | | Compressor Tank * | 110 | | (psi) |
| Feed Air Pressure * | 120 | (psi) | | (readings below are made from control panel) | | | |
| Cycle Pressure * | 60 | (psi) | | Delivery Air | 105 | | (psi) |
| Oxygen Receiver Pressure * | 110 | (psi) | | Element Outlet Temperature | 176 | | (oF) |
| | | | | Running Hours | 4,951 | | (hours) |
| | | | | Loading Hours | 3,119 | | (hours) |
| Oxygen Purity | 95.9 | (percent) | | | | | |
| * maximum reading during loading cycle | | | | * maximum reading during loading cycle | | | |

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| Injection Bank 1 | | | | Injection Bank 2 | | | | Injection Bank 3 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-1 | 95.5 | 30 | 31 | OW-1-5S | 67.3 | 30 | 18 | OW-1-9D | 88.5 | OFF | OFF |
| OW-1-2 | 96.5 | 30 | 30 | OW-1-6S | 67.0 | 30 | 18 | OW-1-10D | 87.2 | OFF | OFF |
| OW-1-3 | 96.3 | 30 | 30 | OW-1-7S | 66.9 | 35 | 19 | OW-1-11D | 86.1 | OFF | OFF |
| OW-1-4 | 95.0 | 30 | 30 | OW-1-8S | 66.7 | OFF | OFF | OW-1-12D | 85.3 | OFF | OFF |
| OW-1-5D | 93.9 | 25 | 29 | OW-1-9S | 66.0 | 30 | 19 | OW-1-13D | 84.7 | OFF | OFF |
| OW-1-6D | 92.4 | 30 | 29 | OW-1-10S | 54.6 | 30 | 12 | OW-1-14D | 84.1 | OFF | OFF |
| OW-1-7D | 91.1 | 30 | 29 | OW-1-11S | 54.1 | 30 | 13 | OW-1-15D | 83.3 | OFF | OFF |
| OW-1-8D | 89.6 | OFF | OFF | OW-1-12S | 53.6 | 25 | 15 | OW-1-16D | 82.5 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 10/8/2012

O₂ Injection System #1

| Injection Bank 4 | | | | Injection Bank 5 | | | | Injection Bank 6 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-13S | 53.1 | 28 | 13 | OW-1-17D | 79.5 | OFF | OFF | OW-1-21S | 49.3 | 30 | 12 |
| OW-1-14S | 52.7 | 35 | 14 | OW-1-18D | 78.3 | OFF | OFF | OW-1-22S | 49.3 | 30 | 12 |
| OW-1-15S | 52.2 | 30 | 13 | OW-1-19D | 78.9 | OFF | OFF | OW-1-23S | 48.8 | 25 | 11 |
| OW-1-16SR | 51.8 | OFF | OFF | OW-1-20D | 79.5 | OFF | OFF | OW-1-24S | 48.4 | 30 | 12 |
| OW-1-17S | 50.7 | OFF | OFF | OW-1-21D | 79.5 | OFF | OFF | OW-1-25S | 48.8 | 35 | 13 |
| OW-1-18S | 50.2 | 30 | 12 | OW-1-22D | 79.5 | OFF | OFF | OW-1-26SR | 48.3 | 35 | 13 |
| OW-1-19S | 49.7 | 35 | 13 | OW-1-23D | 78.7 | OFF | OFF | OW-1-27S | 48.3 | 40 | 13 |
| OW-1-20S | 49.3 | 40 | 13 | OW-1-24D | 78.2 | OFF | OFF | OW-1-28S | 48.3 | 40 | 13 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

| Injection Bank 7 | | | | Injection Bank 8 | | | | Injection Bank 9 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-25D | 78.1 | 30 | 27 | OW-1-29S | 48.5 | 20 | 12 | OW-1-33D | 83.2 | 35 | 29 |
| OW-1-26D | 78.1 | 50 | 28 | OW-1-30S | 48.8 | 30 | 13 | OW-1-34D | 84.5 | 40 | 30 |
| OW-1-27D | 77.9 | 35 | 28 | OW-1-31S | 49.3 | 30 | 12 | OW-1-35D | 85.0 | 50 | 27 |
| OW-1-28D | 78.0 | 25 | 28 | OW-1-32S | 49.3 | 40 | 12 | OW-1-36D | 85.0 | 30 | 29 |
| OW-1-29D | 78.4 | 30 | 27 | OW-1-33S | 49.7 | 30 | 12 | OW-1-37D | 84.0 | 30 | 29 |
| OW-1-30D | 79.0 | 45 | 33 | OW-1-34S | 50.1 | 30 | 12 | OW-1-38D | 82.0 | 60 | 32 |
| OW-1-31D | 80.5 | 20 | 28 | OW-1-35S | 50.3 | 30 | 13 | OW-1-39D | 78.0 | 20 | 27 |
| OW-1-32D | 81.6 | 50 | 28 | OW-1-36S | 50.3 | 30 | 13 | OW-1-40D | 76.0 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 10/8/2012

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|-------------------|-------|------|-----|-------------------|-------|------|-----|
| Injection Bank 10 | | | | Injection Bank 11 | | | | Injection Bank 12 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-37S | 50.5 | 25 | 12 | OW-1-41D | 73.6 | OFF | OFF | OW-1-43 | 67.4 | OFF | OFF |
| OW-1-38S | 50.6 | 20 | 13 | OW-1-42D | 71.0 | OFF | OFF | OW-1-44 | 66.6 | 30 | 18 |
| OW-1-39S | 50.7 | 30 | 12 | OW-1-45 | 65.7 | 25 | 19 | OW-1-51R | 60.6 | 30 | 17 |
| OW-1-40S | 51.1 | 25 | 13 | OW-1-46 | 64.3 | 30 | 18 | OW-1-52 | 59.3 | 40 | 15 |
| OW-1-41S | 51.5 | 30 | 13 | OW-1-47 | 63.4 | 25 | 18 | OW-1-53 | 60.0 | 50 | 16 |
| OW-1-42S | 51.3 | 20 | 13 | OW-1-48 | 62.5 | 30 | 17 | OW-1-54 | 60.0 | 40 | 15 |
| | | | | OW-1-49 | 61.5 | 25 | 17 | | | | |
| | | | | OW-1-50 | 61.0 | 30 | 15 | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

| O ₂ Injection System #2 | | | | | | | | | | | | |
|------------------------------------|-------|-------------------------------------|------------------|-----------|-----------------------|-------|-------------------------------------|------------------|-----------|-----------------------|------------------|---------------|
| Monitoring Points Log | | | | | Monitoring Points Log | | | | | Monitoring Points Log | | |
| ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DO (mg/L) Middle | DO (mg/L) Top |
| MP-1-1D | 25.81 | 20.9 | 2.99 | 0 | MP-1-5 | 25.53 | 16.2 | 3.51 | 0 | MP-1-1D | 2.22 | 3.16 |
| MP-1-1S | 25.97 | 40.4 | 2.95 | 0 | MP-1-6 | 18.02 | 17.5 | 2.72 | 0.1 | MP-1-2D | 2.66 | 3.50 |
| MP-1-2D | 20.09 | 20.6 | 2.40 | 0 | MP-1-7 | 21.34 | 18.9 | 3.54 | 0 | MP-1-3D | 3.13 | 3.71 |
| MP-1-2S | 20.42 | 33.8 | 3.52 | 0.5 | MP-1-8 | 22.38 | 20.9 | 2.16 | 0 | MP-1-4D | 2.78 | 4.35 |
| MP-1-3D | 18.24 | 20.9 | 3.61 | 0.3 | | | | | | | | |
| MP-1-3S | 18.26 | 20.9 | 3.58 | 0.4 | | | | | | | | |
| MP-1-4D | 21.02 | 20.6 | 2.02 | 0.2 | | | | | | | | |
| MP-1-4S | 20.84 | 22.9 | 3.12 | 0 | | | | | | | | |

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|------------|
| Date: | 10/25/2012 |
| Time: | 13:30 |
| Weather: | Rain |
| Outdoor Temperature: | ~64° F |
| Inside Trailer Temperature: | ~70° F |
| Performed By: | Mike Ryan |

| O ₂ Generator (AirSep) | | | | Compressor (Kaesar Rotary Screw) | | | |
|--|---------|-----------|--|--|-------|--|---------|
| Hours | 4,326.7 | | | Compressor Tank * | 120 | | (psi) |
| Feed Air Pressure * | 110 | (psi) | | (readings below are made from control panel) | | | |
| Cycle Pressure * | 65 | (psi) | | Delivery Air | 114 | | (psi) |
| Oxygen Receiver Pressure * | 100 | (psi) | | Element Outlet Temperature | 160 | | (oF) |
| | | | | Running Hours | 5,111 | | (hours) |
| | | | | Loading Hours | 3,221 | | (hours) |
| Oxygen Purity | 96.9 | (percent) | | | | | |
| * maximum reading during loading cycle | | | | * maximum reading during loading cycle | | | |

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| Injection Bank 1 | | | | Injection Bank 2 | | | | Injection Bank 3 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-1 | 95.5 | 30 | 30 | OW-1-5S | 67.3 | 30 | 17 | OW-1-9D | 88.5 | OFF | OFF |
| OW-1-2 | 96.5 | 30 | 31 | OW-1-6S | 67.0 | 30 | 18 | OW-1-10D | 87.2 | OFF | OFF |
| OW-1-3 | 96.3 | 35 | 30 | OW-1-7S | 66.9 | 35 | 18 | OW-1-11D | 86.1 | OFF | OFF |
| OW-1-4 | 95.0 | 30 | 29 | OW-1-8S | 66.7 | OFF | OFF | OW-1-12D | 85.3 | OFF | OFF |
| OW-1-5D | 93.9 | 35 | 29 | OW-1-9S | 66.0 | 35 | 18 | OW-1-13D | 84.7 | OFF | OFF |
| OW-1-6D | 92.4 | 40 | 29 | OW-1-10S | 54.6 | 40 | 14 | OW-1-14D | 84.1 | OFF | OFF |
| OW-1-7D | 91.1 | 45 | 29 | OW-1-11S | 54.1 | 30 | 14 | OW-1-15D | 83.3 | OFF | OFF |
| OW-1-8D | 89.6 | OFF | OFF | OW-1-12S | 53.6 | 30 | 15 | OW-1-16D | 82.5 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 10/25/2012

O₂ Injection System #1

| Injection Bank 4 | | | | Injection Bank 5 | | | | Injection Bank 6 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-13S | 53.1 | 25 | 13 | OW-1-17D | 79.5 | OFF | OFF | OW-1-21S | 49.3 | 30 | 12 |
| OW-1-14S | 52.7 | 35 | 14 | OW-1-18D | 78.3 | OFF | OFF | OW-1-22S | 49.3 | 35 | 12 |
| OW-1-15S | 52.2 | 30 | 13 | OW-1-19D | 78.9 | OFF | OFF | OW-1-23S | 48.8 | 25 | 12 |
| OW-1-16SR | 51.8 | OFF | OFF | OW-1-20D | 79.5 | OFF | OFF | OW-1-24S | 48.4 | 35 | 13 |
| OW-1-17S | 50.7 | OFF | OFF | OW-1-21D | 79.5 | OFF | OFF | OW-1-25S | 48.8 | 30 | 13 |
| OW-1-18S | 50.2 | 30 | 13 | OW-1-22D | 79.5 | OFF | OFF | OW-1-26SR | 48.3 | 30 | 13 |
| OW-1-19S | 49.7 | 40 | 14 | OW-1-23D | 78.7 | OFF | OFF | OW-1-27S | 48.3 | 40 | 13 |
| OW-1-20S | 49.3 | 45 | 13 | OW-1-24D | 78.2 | OFF | OFF | OW-1-28S | 48.3 | 30 | 13 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

| Injection Bank 7 | | | | Injection Bank 8 | | | | Injection Bank 9 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-25D | 78.1 | 30 | 27 | OW-1-29S | 48.5 | 40 | 12 | OW-1-33D | 83.2 | 30 | 29 |
| OW-1-26D | 78.1 | 50 | 28 | OW-1-30S | 48.8 | 30 | 12 | OW-1-34D | 84.5 | 30 | 29 |
| OW-1-27D | 77.9 | 40 | 28 | OW-1-31S | 49.3 | 35 | 12 | OW-1-35D | 85.0 | 50 | 27 |
| OW-1-28D | 78.0 | 35 | 27 | OW-1-32S | 49.3 | 40 | 13 | OW-1-36D | 85.0 | 30 | 30 |
| OW-1-29D | 78.4 | 30 | 27 | OW-1-33S | 49.7 | 40 | 13 | OW-1-37D | 84.0 | 25 | 29 |
| OW-1-30D | 79.0 | 40 | 38 | OW-1-34S | 50.1 | 35 | 12 | OW-1-38D | 82.0 | 40 | 32 |
| OW-1-31D | 80.5 | 40 | 22 | OW-1-35S | 50.3 | 30 | 13 | OW-1-39D | 78.0 | 30 | 28 |
| OW-1-32D | 81.6 | 50 | 28 | OW-1-36S | 50.3 | 30 | 13 | OW-1-40D | 76.0 | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 10/25/2012

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|-------------------|-------|------|-----|-------------------|-------|------|-----|
| Injection Bank 10 | | | | Injection Bank 11 | | | | Injection Bank 12 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-37S | 50.5 | 30 | 12 | OW-1-41D | 73.6 | OFF | OFF | OW-1-43 | 67.4 | OFF | OFF |
| OW-1-38S | 50.6 | 30 | 12 | OW-1-42D | 71.0 | OFF | OFF | OW-1-44 | 66.6 | 30 | 18 |
| OW-1-39S | 50.7 | 50 | 12 | OW-1-45 | 65.7 | 30 | 19 | OW-1-51R | 60.6 | 35 | 17 |
| OW-1-40S | 51.1 | 30 | 13 | OW-1-46 | 64.3 | 35 | 18 | OW-1-52 | 59.3 | 40 | 16 |
| OW-1-41S | 51.5 | 50 | 13 | OW-1-47 | 63.4 | 30 | 18 | OW-1-53 | 60.0 | 35 | 16 |
| OW-1-42S | 51.3 | 30 | 13 | OW-1-48 | 62.5 | 40 | 18 | OW-1-54 | 60.0 | 35 | 16 |
| | | | | OW-1-49 | 61.5 | 35 | 17 | | | | |
| | | | | OW-1-50 | 61.0 | 30 | 17 | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

| O ₂ Injection System #2 | | | | | | | | | | | | |
|------------------------------------|-------|-------------------------------------|------------------|-----------|-----------------------|-------|-------------------------------------|------------------|-----------|-----------------------|------------------|---------------|
| Monitoring Points Log | | | | | Monitoring Points Log | | | | | Monitoring Points Log | | |
| ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DO (mg/L) Middle | DO (mg/L) Top |
| MP-1-1D | 26.15 | 20.9 | 3.01 | 0 | MP-1-5 | 25.80 | 16.7 | 3.43 | 0 | MP-1-1D | 2.11 | 2.34 |
| MP-1-1S | 26.28 | 40.8 | 2.92 | 0 | MP-1-6 | 18.26 | 16.9 | 2.49 | 0.2 | MP-1-2D | 2.56 | 2.78 |
| MP-1-2D | 20.31 | 20.5 | 2.01 | 0.3 | MP-1-7 | 21.55 | 20.1 | 2.42 | 0 | MP-1-3D | 3.44 | 3.70 |
| MP-1-2S | 20.70 | 31.6 | 3.68 | 0.4 | MP-1-8 | 22.62 | 20.9 | 2.62 | 0 | MP-1-4D | 2.39 | 2.98 |
| MP-1-3D | 18.49 | 19.7 | 3.37 | 0.1 | | | | | | | | |
| MP-1-3S | 18.48 | 20.9 | 3.15 | 0.1 | | | | | | | | |
| MP-1-4D | 21.22 | 20.5 | 2.23 | 0 | | | | | | | | |
| MP-1-4S | 21.04 | 20.9 | 3.20 | 0 | | | | | | | | |

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 10/25/2012

OPERATIONAL NOTES

GA5 Air Compressor

- | | | |
|--|--|--|
| 1) Oil Level Checked with system unloaded* | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| * Unload system, wait until Delivery Air Pressure is less than 9 psi | | |
| 2) Oil Level with system unloaded | | |
| Low (red) _____ | Normal (green) <input checked="" type="checkbox"/> | High (orange) _____ |
| 3) Oil added | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 4) Oil changed | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 5) Oil filter changed | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 6) Air filter Changed | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 7) Oil separator changed | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 8) Terminal strips checked | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

AS-80 O₂ Generator

- | | | |
|-----------------------|-----------|--|
| 1) Prefilter changed | Yes _____ | No <input checked="" type="checkbox"/> |
| 2) Coalescing changed | Yes _____ | No <input checked="" type="checkbox"/> |

GENERAL SYSTEM NOTES

Trailer

- | | | | |
|----|---|---|-----------------------------|
| 1) | Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| 2) | Abnormal conditions observed (e.g. vandalism) _____ | | |
| 3) | Other major activities completed _____ | | |
| 4) | Supplies needed _____ | | |
| 5) | Visitors _____ | | |

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Soaked up small amount of oil and water from separator for disposal. Added small amount of oil to compressor and greased motor shaft on air separator unit. Changed small fresh air filters in electrical boxes. Restarted all injection points that were manually turned off after collecting system readings. Replaced monitoring well bots at monitoring point MP-1-7. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas.

Electric Meter # 96-934-323 tied into Pole #4

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|------------|
| Date: | 11/14/2012 |
| Time: | 13:18 |
| Weather: | Sunny |
| Outdoor Temperature: | ~39° F |
| Inside Trailer Temperature: | ~70° F |
| Performed By: | Mike Ryan |

| O ₂ Generator (AirSep) | | | | Compressor (Kaesar Rotary Screw) | | | |
|--|---------|--|-----------|--|-------|--|---------|
| Hours | 4,510.3 | | | Compressor Tank * | 110 | | (psi) |
| Feed Air Pressure * | 120 | | (psi) | (readings below are made from control panel) | | | |
| Cycle Pressure * | 60 | | (psi) | Delivery Air | 111 | | (psi) |
| Oxygen Receiver Pressure * | 100 | | (psi) | Element Outlet Temperature | 178 | | (oF) |
| Oxygen Purity | 97.5 | | (percent) | Running Hours | 5,309 | | (hours) |
| | | | | Loading Hours | 3,348 | | (hours) |
| * maximum reading during loading cycle | | | | * maximum reading during loading cycle | | | |

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| Injection Bank 1 | | | | Injection Bank 2 | | | | Injection Bank 3 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-1 | 95.5 | 35 | 30 | OW-1-5S | 67.3 | 30 | 17 | OW-1-9D | 88.5 | 40 | 32 |
| OW-1-2 | 96.5 | 30 | 31 | OW-1-6S | 67.0 | 40 | 19 | OW-1-10D | 87.2 | 35 | 31 |
| OW-1-3 | 96.3 | 40 | 30 | OW-1-7S | 66.9 | 40 | 19 | OW-1-11D | 86.1 | 40 | 30 |
| OW-1-4 | 95.0 | 40 | 29 | OW-1-8S | 66.7 | 45 | 18 | OW-1-12D | 85.3 | 30 | 29 |
| OW-1-5D | 93.9 | 30 | 30 | OW-1-9S | 66.0 | 50 | 18 | OW-1-13D | 84.7 | 30 | 29 |
| OW-1-6D | 92.4 | 35 | 30 | OW-1-10S | 54.6 | 50 | 15 | OW-1-14D | 84.1 | 30 | 30 |
| OW-1-7D | 91.1 | 45 | 29 | OW-1-11S | 54.1 | 20 | 14 | OW-1-15D | 83.3 | 35 | 31 |
| OW-1-8D | 89.6 | 40 | 30 | OW-1-12S | 53.6 | 30 | 15 | OW-1-16D | 82.5 | 40 | 30 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 11/14/2012

O₂ Injection System #1

| Injection Bank 4 | | | | Injection Bank 5 | | | | Injection Bank 6 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-13S | 53.1 | 30 | 13 | OW-1-17D | 79.5 | 30 | 27 | OW-1-21S | 49.3 | 30 | 12 |
| OW-1-14S | 52.7 | 40 | 15 | OW-1-18D | 78.3 | 30 | 28 | OW-1-22S | 49.3 | 30 | 12 |
| OW-1-15S | 52.2 | 45 | 14 | OW-1-19D | 78.9 | 35 | 28 | OW-1-23S | 48.8 | 30 | 12 |
| OW-1-16SR | 51.8 | 40 | 15 | OW-1-20D | 79.5 | 40 | 27 | OW-1-24S | 48.4 | 30 | 14 |
| OW-1-17S | 50.7 | 30 | 15 | OW-1-21D | 79.5 | 40 | 26 | OW-1-25S | 48.8 | 40 | 13 |
| OW-1-18S | 50.2 | 30 | 13 | OW-1-22D | 79.5 | 50 | 27 | OW-1-26SR | 48.3 | 30 | 13 |
| OW-1-19S | 49.7 | 30 | 14 | OW-1-23D | 78.7 | 55 | 29 | OW-1-27S | 48.3 | 20 | 12 |
| OW-1-20S | 49.3 | 25 | 14 | OW-1-24D | 78.2 | 30 | 29 | OW-1-28S | 48.3 | 25 | 13 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

| Injection Bank 7 | | | | Injection Bank 8 | | | | Injection Bank 9 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-25D | 78.1 | 30 | 27 | OW-1-29S | 48.5 | 40 | 12 | OW-1-33D | 83.2 | 30 | 29 |
| OW-1-26D | 78.1 | 35 | 29 | OW-1-30S | 48.8 | 35 | 12 | OW-1-34D | 84.5 | 30 | 29 |
| OW-1-27D | 77.9 | 40 | 29 | OW-1-31S | 49.3 | 30 | 12 | OW-1-35D | 85.0 | 35 | 27 |
| OW-1-28D | 78.0 | 40 | 28 | OW-1-32S | 49.3 | 30 | 13 | OW-1-36D | 85.0 | 30 | 30 |
| OW-1-29D | 78.4 | 30 | 27 | OW-1-33S | 49.7 | 30 | 13 | OW-1-37D | 84.0 | 45 | 30 |
| OW-1-30D | 79.0 | 30 | 37 | OW-1-34S | 50.1 | 40 | 13 | OW-1-38D | 82.0 | 45 | 32 |
| OW-1-31D | 80.5 | 40 | 22 | OW-1-35S | 50.3 | 30 | 14 | OW-1-39D | 78.0 | 55 | 29 |
| OW-1-32D | 81.6 | 45 | 28 | OW-1-36S | 50.3 | 50 | 13 | OW-1-40D | 76.0 | 40 | 31 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 11/14/2012

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|-------------------|-------|------|-----|-------------------|-------|------|-----|
| Injection Bank 10 | | | | Injection Bank 11 | | | | Injection Bank 12 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-37S | 50.5 | 35 | 12 | OW-1-41D | 73.6 | 35 | 20 | OW-1-43 | 67.4 | 40 | 19 |
| OW-1-38S | 50.6 | 30 | 12 | OW-1-42D | 71.0 | 40 | 19 | OW-1-44 | 66.6 | 35 | 18 |
| OW-1-39S | 50.7 | 40 | 12 | OW-1-45 | 65.7 | 40 | 19 | OW-1-51R | 60.6 | 40 | 18 |
| OW-1-40S | 51.1 | 50 | 12 | OW-1-46 | 64.3 | 50 | 19 | OW-1-52 | 59.3 | 35 | 16 |
| OW-1-41S | 51.5 | 55 | 13 | OW-1-47 | 63.4 | 35 | 18 | OW-1-53 | 60.0 | 40 | 16 |
| OW-1-42S | 51.3 | 35 | 13 | OW-1-48 | 62.5 | 40 | 18 | OW-1-54 | 60.0 | 40 | 16 |
| | | | | OW-1-49 | 61.5 | 40 | 17 | | | | |
| | | | | OW-1-50 | 61.0 | 45 | 17 | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

| O ₂ Injection System #2 | | | | | | | | | | | | |
|------------------------------------|-------|-------------------------------------|------------------|-----------|-----------------------|-------|-------------------------------------|------------------|-----------|-----------------------|------------------|---------------|
| Monitoring Points Log | | | | | Monitoring Points Log | | | | | Monitoring Points Log | | |
| ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DO (mg/L) Middle | DO (mg/L) Top |
| MP-1-1D | 25.87 | 20.9 | 2.97 | 0 | MP-1-5 | 25.88 | 17.9 | 3.71 | 0 | MP-1-1D | 2.77 | 2.99 |
| MP-1-1S | 26.03 | 40.0 | 3.24 | 0.2 | MP-1-6 | 18.34 | 17.6 | 2.68 | 0.3 | MP-1-2D | 2.61 | 2.81 |
| MP-1-2D | 20.16 | 20.6 | 2.18 | 0.3 | MP-1-7 | 21.58 | 20.7 | 2.91 | 0 | MP-1-3D | 3.54 | 3.69 |
| MP-1-2S | 20.55 | 31.6 | 3.07 | 0.3 | MP-1-8 | 22.65 | 20.9 | 2.61 | 0 | MP-1-4D | 2.43 | 3.28 |
| MP-1-3D | 18.54 | 20.9 | 3.41 | 0 | | | | | | | | |
| MP-1-3S | 18.57 | 20.9 | 3.35 | 0 | | | | | | | | |
| MP-1-4D | 21.21 | 20.6 | 2.14 | 0.1 | | | | | | | | |
| MP-1-4S | 21.05 | 22.4 | 3.45 | 0 | | | | | | | | |

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|------------|
| Date: | 11/30/2012 |
| Time: | 13:18 |
| Weather: | Sunny |
| Outdoor Temperature: | ~46° F |
| Inside Trailer Temperature: | ~68° F |
| Performed By: | Mike Ryan |

| O ₂ Generator (AirSep) | | | | Compressor (Kaesar Rotary Screw) | | | |
|--|---------|-----------|--|--|-------|--|---------|
| Hours | 4,631.8 | | | Compressor Tank * | 110 | | (psi) |
| Feed Air Pressure * | 105 | (psi) | | (readings below are made from control panel) | | | |
| Cycle Pressure * | 60 | (psi) | | Delivery Air | 112 | | (psi) |
| Oxygen Receiver Pressure * | 100 | (psi) | | Element Outlet Temperature | 102 | | (oF) |
| | | | | Running Hours | 5,444 | | (hours) |
| | | | | Loading Hours | 3,431 | | (hours) |
| Oxygen Purity | 97.1 | (percent) | | | | | |
| * maximum reading during loading cycle | | | | * maximum reading during loading cycle | | | |

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| Injection Bank 1 | | | | Injection Bank 2 | | | | Injection Bank 3 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-1 | 95.5 | 40 | 30 | OW-1-5S | 67.3 | 30 | 17 | OW-1-9D | 88.5 | 40 | 28 |
| OW-1-2 | 96.5 | 30 | 31 | OW-1-6S | 67.0 | 40 | 18 | OW-1-10D | 87.2 | 30 | 28 |
| OW-1-3 | 96.3 | 30 | 29 | OW-1-7S | 66.9 | 30 | 18 | OW-1-11D | 86.1 | 30 | 28 |
| OW-1-4 | 95.0 | 30 | 29 | OW-1-8S | 66.7 | 40 | 19 | OW-1-12D | 85.3 | 35 | 29 |
| OW-1-5D | 93.9 | 45 | 29 | OW-1-9S | 66.0 | 35 | 19 | OW-1-13D | 84.7 | 45 | 27 |
| OW-1-6D | 92.4 | 55 | 29 | OW-1-10S | 54.6 | 40 | 14 | OW-1-14D | 84.1 | 55 | 29 |
| OW-1-7D | 91.1 | 40 | 29 | OW-1-11S | 54.1 | 40 | 14 | OW-1-15D | 83.3 | 40 | 29 |
| OW-1-8D | 89.6 | 35 | 29 | OW-1-12S | 53.6 | 30 | 15 | OW-1-16D | 82.5 | 30 | 19 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 11/30/2012

O₂ Injection System #1

| Injection Bank 4 | | | | Injection Bank 5 | | | | Injection Bank 6 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-13S | 53.1 | 25 | 13 | OW-1-17D | 79.5 | 40 | 16 | OW-1-21S | 49.3 | 30 | 12 |
| OW-1-14S | 52.7 | 30 | 14 | OW-1-18D | 78.3 | 30 | 28 | OW-1-22S | 49.3 | 30 | 13 |
| OW-1-15S | 52.2 | 30 | 14 | OW-1-19D | 78.9 | 30 | 28 | OW-1-23S | 48.8 | 30 | 12 |
| OW-1-16SR | 51.8 | 40 | 28 | OW-1-20D | 79.5 | 30 | 28 | OW-1-24S | 48.4 | 30 | 13 |
| OW-1-17S | 50.7 | 30 | 27 | OW-1-21D | 79.5 | 35 | 27 | OW-1-25S | 48.8 | 40 | 13 |
| OW-1-18S | 50.2 | 40 | 13 | OW-1-22D | 79.5 | 40 | 27 | OW-1-26SR | 48.3 | 50 | 13 |
| OW-1-19S | 49.7 | 30 | 14 | OW-1-23D | 78.7 | 30 | 27 | OW-1-27S | 48.3 | 30 | 13 |
| OW-1-20S | 49.3 | 30 | 14 | OW-1-24D | 78.2 | 30 | 28 | OW-1-28S | 48.3 | 30 | 13 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

| Injection Bank 7 | | | | Injection Bank 8 | | | | Injection Bank 9 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-25D | 78.1 | 30 | 27 | OW-1-29S | 48.5 | 30 | 12 | OW-1-33D | 83.2 | 30 | 29 |
| OW-1-26D | 78.1 | 40 | 29 | OW-1-30S | 48.8 | 40 | 12 | OW-1-34D | 84.5 | 35 | 28 |
| OW-1-27D | 77.9 | 30 | 29 | OW-1-31S | 49.3 | 30 | 12 | OW-1-35D | 85.0 | 45 | 27 |
| OW-1-28D | 78.0 | 30 | 27 | OW-1-32S | 49.3 | 30 | 13 | OW-1-36D | 85.0 | 50 | 30 |
| OW-1-29D | 78.4 | 30 | 27 | OW-1-33S | 49.7 | 30 | 12 | OW-1-37D | 84.0 | 50 | 29 |
| OW-1-30D | 79.0 | 40 | 38 | OW-1-34S | 50.1 | 40 | 13 | OW-1-38D | 82.0 | 60 | 31 |
| OW-1-31D | 80.5 | 45 | 22 | OW-1-35S | 50.3 | 30 | 13 | OW-1-39D | 78.0 | 30 | 28 |
| OW-1-32D | 81.6 | 55 | 27 | OW-1-36S | 50.3 | 35 | 12 | OW-1-40D | 76.0 | 45 | 29 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 11/30/2012

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|-------------------|-------|------|-----|-------------------|-------|------|-----|
| Injection Bank 10 | | | | Injection Bank 11 | | | | Injection Bank 12 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-37S | 50.5 | 30 | 12 | OW-1-41D | 73.6 | 30 | 24 | OW-1-43 | 67.4 | 35 | 20 |
| OW-1-38S | 50.6 | 30 | 12 | OW-1-42D | 71.0 | 35 | 23 | OW-1-44 | 66.6 | 40 | 18 |
| OW-1-39S | 50.7 | 30 | 12 | OW-1-45 | 65.7 | 40 | 19 | OW-1-51R | 60.6 | 30 | 18 |
| OW-1-40S | 51.1 | 40 | 13 | OW-1-46 | 64.3 | 30 | 19 | OW-1-52 | 59.3 | 30 | 16 |
| OW-1-41S | 51.5 | 30 | 13 | OW-1-47 | 63.4 | 30 | 18 | OW-1-53 | 60.0 | 30 | 16 |
| OW-1-42S | 51.3 | 35 | 13 | OW-1-48 | 62.5 | 35 | 19 | OW-1-54 | 60.0 | 30 | 16 |
| | | | | OW-1-49 | 61.5 | 45 | 17 | | | | |
| | | | | OW-1-50 | 61.0 | 35 | 17 | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

| O ₂ Injection System #2 | | | | | | | | | | | | |
|------------------------------------|-------|-------------------------------------|------------------|-----------|-----------------------|-------|-------------------------------------|------------------|-----------|-----------------------|------------------|---------------|
| Monitoring Points Log | | | | | Monitoring Points Log | | | | | Monitoring Points Log | | |
| ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DO (mg/L) Middle | DO (mg/L) Top |
| MP-1-1D | 26.46 | 20.9 | 2.59 | 0 | MP-1-5 | 26.11 | 16.1 | 3.31 | 0 | MP-1-1D | 2.50 | 2.99 |
| MP-1-1S | 26.63 | 40.3 | 3.10 | 0 | MP-1-6 | 18.57 | 17.0 | 2.55 | 0.6 | MP-1-2D | 3.46 | 3.91 |
| MP-1-2D | 20.62 | 20.5 | 2.44 | 0 | MP-1-7 | 21.84 | 18.1 | 2.24 | 0 | MP-1-3D | 3.38 | 3.89 |
| MP-1-2S | 21.00 | 33.8 | 3.66 | 0.9 | MP-1-8 | 22.89 | 20.9 | 2.45 | 0 | MP-1-4D | 1.87 | 3.20 |
| MP-1-3D | 18.77 | 20.9 | 3.26 | 0.3 | | | | | | | | |
| MP-1-3S | 18.80 | 20.9 | 3.38 | 0.5 | | | | | | | | |
| MP-1-4D | 21.48 | 20.1 | 2.70 | 0.7 | | | | | | | | |
| MP-1-4S | 21.33 | 23.5 | 2.83 | 0 | | | | | | | | |

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|------------|
| Date: | 12/13/2012 |
| Time: | 13:21 |
| Weather: | Sunny |
| Outdoor Temperature: | ~57° F |
| Inside Trailer Temperature: | ~70° F |
| Performed By: | Mike Ryan |

| O ₂ Generator (AirSep) | | | | Compressor (Kaesar Rotary Screw) | | | |
|--|---------|-----------|--|--|-------|--|---------|
| Hours | 4,748.8 | | | Compressor Tank * | 115 | | (psi) |
| Feed Air Pressure * | 110 | (psi) | | (readings below are made from control panel) | | | |
| Cycle Pressure * | 60 | (psi) | | Delivery Air | 113 | | (psi) |
| Oxygen Receiver Pressure * | 100 | (psi) | | Element Outlet Temperature | 118 | | (oF) |
| | | | | Running Hours | 5,575 | | (hours) |
| | | | | Loading Hours | 3,511 | | (hours) |
| Oxygen Purity | 98.1 | (percent) | | | | | |
| * maximum reading during loading cycle | | | | * maximum reading during loading cycle | | | |

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| Injection Bank 1 | | | | Injection Bank 2 | | | | Injection Bank 3 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-1 | 95.5 | 30 | 30 | OW-1-5S | 67.3 | 30 | 17 | OW-1-9D | 88.5 | 30 | 28 |
| OW-1-2 | 96.5 | 30 | 28 | OW-1-6S | 67.0 | 35 | 18 | OW-1-10D | 87.2 | 30 | 28 |
| OW-1-3 | 96.3 | 30 | 30 | OW-1-7S | 66.9 | 45 | 18 | OW-1-11D | 86.1 | 30 | 29 |
| OW-1-4 | 95.0 | 40 | 30 | OW-1-8S | 66.7 | 65 | 18 | OW-1-12D | 85.3 | 30 | 30 |
| OW-1-5D | 93.9 | 30 | 29 | OW-1-9S | 66.0 | 40 | 18 | OW-1-13D | 84.7 | 35 | 28 |
| OW-1-6D | 92.4 | 35 | 29 | OW-1-10S | 54.6 | 30 | 13 | OW-1-14D | 84.1 | 30 | 29 |
| OW-1-7D | 91.1 | 45 | 29 | OW-1-11S | 54.1 | 30 | 14 | OW-1-15D | 83.3 | 40 | 29 |
| OW-1-8D | 89.6 | 40 | 28 | OW-1-12S | 53.6 | 30 | 14 | OW-1-16D | 82.5 | 30 | 15 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 12/13/2012

O₂ Injection System #1

| Injection Bank 4 | | | | Injection Bank 5 | | | | Injection Bank 6 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-13S | 53.1 | 30 | 13 | OW-1-17D | 79.5 | 35 | 14 | OW-1-21S | 49.3 | 30 | 12 |
| OW-1-14S | 52.7 | 40 | 14 | OW-1-18D | 78.3 | 40 | 26 | OW-1-22S | 49.3 | 35 | 12 |
| OW-1-15S | 52.2 | 30 | 13 | OW-1-19D | 78.9 | 30 | 26 | OW-1-23S | 48.8 | 30 | 12 |
| OW-1-16SR | 51.8 | 60 | 26 | OW-1-20D | 79.5 | 30 | 27 | OW-1-24S | 48.4 | 35 | 12 |
| OW-1-17S | 50.7 | 30 | 15 | OW-1-21D | 79.5 | 30 | 27 | OW-1-25S | 48.8 | 30 | 13 |
| OW-1-18S | 50.2 | 40 | 12 | OW-1-22D | 79.5 | 30 | 25 | OW-1-26SR | 48.3 | 30 | 13 |
| OW-1-19S | 49.7 | 40 | 12 | OW-1-23D | 78.7 | 30 | 26 | OW-1-27S | 48.3 | 30 | 13 |
| OW-1-20S | 49.3 | 45 | 13 | OW-1-24D | 78.2 | 30 | 27 | OW-1-28S | 48.3 | 30 | 13 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

| Injection Bank 7 | | | | Injection Bank 8 | | | | Injection Bank 9 | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|-----|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-25D | 78.1 | 40 | 27 | OW-1-29S | 48.5 | 25 | 13 | OW-1-33D | 83.2 | 30 | 28 |
| OW-1-26D | 78.1 | 45 | 28 | OW-1-30S | 48.8 | 30 | 13 | OW-1-34D | 84.5 | 40 | 30 |
| OW-1-27D | 77.9 | 50 | 28 | OW-1-31S | 49.3 | 30 | 13 | OW-1-35D | 85.0 | 40 | 30 |
| OW-1-28D | 78.0 | 30 | 27 | OW-1-32S | 49.3 | 15 | 13 | OW-1-36D | 85.0 | 30 | 29 |
| OW-1-29D | 78.4 | 30 | 26 | OW-1-33S | 49.7 | 30 | 13 | OW-1-37D | 84.0 | 30 | 29 |
| OW-1-30D | 79.0 | 30 | 36 | OW-1-34S | 50.1 | 30 | 13 | OW-1-38D | 82.0 | 30 | 35 |
| OW-1-31D | 80.5 | 40 | 20 | OW-1-35S | 50.3 | 30 | 13 | OW-1-39D | 78.0 | 35 | 27 |
| OW-1-32D | 81.6 | 30 | 29 | OW-1-36S | 50.3 | 30 | 13 | OW-1-40D | 76.0 | 30 | 28 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 12/13/2012

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| O ₂ Injection System #1 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|-------------------|-------|------|-----|-------------------|-------|------|-----|
| Injection Bank 10 | | | | Injection Bank 11 | | | | Injection Bank 12 | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | psi |
| OW-1-37S | 50.5 | 20 | 11 | OW-1-41D | 73.6 | 35 | 24 | OW-1-43 | 67.4 | 25 | 20 |
| OW-1-38S | 50.6 | 30 | 12 | OW-1-42D | 71.0 | 30 | 23 | OW-1-44 | 66.6 | 30 | 18 |
| OW-1-39S | 50.7 | 30 | 12 | OW-1-45 | 65.7 | 30 | 19 | OW-1-51R | 60.6 | 30 | 17 |
| OW-1-40S | 51.1 | 30 | 12 | OW-1-46 | 64.3 | 40 | 18 | OW-1-52 | 59.3 | 34 | 16 |
| OW-1-41S | 51.5 | 40 | 13 | OW-1-47 | 63.4 | 50 | 18 | OW-1-53 | 60.0 | 40 | 16 |
| OW-1-42S | 51.3 | 30 | 12 | OW-1-48 | 62.5 | 45 | 18 | OW-1-54 | 60.0 | 30 | 16 |
| | | | | OW-1-49 | 61.5 | 40 | 17 | | | | |
| | | | | OW-1-50 | 61.0 | 30 | 17 | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

| O ₂ Injection System #1 | | | | | | | | | | | | |
|------------------------------------|-------|-------------------------------------|------------------|-----------|-----------------------|-------|-------------------------------------|------------------|-----------|-----------------------|------------------|---------------|
| Monitoring Points Log | | | | | Monitoring Points Log | | | | | Monitoring Points Log | | |
| ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) | ID | DO (mg/L) Middle | DO (mg/L) Top |
| MP-1-1D | 26.61 | 20.9 | 3.35 | 0 | MP-1-5 | 26.25 | 20.9 | 3.72 | 0 | MP-1-1D | 2.70 | 2.81 |
| MP-1-1S | 26.75 | 23.5 | 3.31 | 0 | MP-1-6 | 21.89 | 17.0 | 2.37 | 0 | MP-1-2D | 3.58 | 3.52 |
| MP-1-2D | 20.76 | 40.1 | 3.42 | 0.3 | MP-1-7 | 21.91 | 18.0 | 2.41 | 0 | MP-1-3D | 3.27 | 3.51 |
| MP-1-2S | 21.16 | 30.7 | 3.55 | 0.8 | MP-1-8 | 23.02 | 20.9 | 0.00 | 0.6 | MP-1-4D | 2.52 | 2.80 |
| MP-1-3D | 18.89 | 20.9 | 3.16 | 0.2 | | | | | | | | |
| MP-1-3S | 18.93 | 20.9 | 3.02 | 0.4 | | | | | | | | |
| MP-1-4D | 21.57 | 20.9 | 1.89 | 0.5 | | | | | | | | |
| MP-1-4S | 21.45 | 31.4 | 2.01 | 0 | | | | | | | | |

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|------------------|
| Date: | <u>7/13/2012</u> |
| Time: | <u>1246</u> |
| Weather: | <u>Sunny</u> |
| Outdoor Temperature: | <u>~90° F</u> |
| Inside Trailer Temperature: | <u>~74° F</u> |
| Performed By: | <u>Mike Ryan</u> |

| O ₂ Generator (AirSep) | | Compressor (Kaesar Rotary Screw) | |
|--|-----------------------|--|-----------------------|
| Hours | <u>12,944</u> | Compressor Tank * | <u>95</u> (psi) |
| Feed Air Pressure * | <u>110</u> (psi) | (readings below are made from control panel) | |
| Cycle Pressure * | <u>60</u> (psi) | Delivery Air | <u>102</u> (psi) |
| Oxygen Receiver Pressure * | <u>105</u> (psi) | Element Outlet Temperature | <u>174</u> (°F) |
| Oxygen Purity | <u>95.4</u> (percent) | Running Hours | <u>13,086</u> (hours) |
| | | Loading Hours | <u>12,913</u> (hours) |
| * maximum reading during loading cycle | | * maximum reading during loading cycle | |

| O ₂ Injection System #2 | | | | | | | | | | | |
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|

| Injection Bank A | | | | Injection Bank B | | | | Injection Bank C | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|--------|------|------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-2 | 90.2' | 30 | 32 | OW-2-9S | 75' | 40 | 20 | OW-2-10D | 97.2' | 30 | 28 |
| OW-2-3 | 94.3' | 35 | 28 | OW-2-10S | 75' | 50 | 30 | OW-2-11D | 100.8' | 30 | 32 |
| OW-2-4 | 94.7' | 45 | 32 | OW-2-11S | 76.5' | 30 | 21 | OW-2-12 | 94' | 35 | 20 |
| OW-2-5 | 95.3' | 30 | 30 | OW-2-13S | 75' | 40 | 19 | OW-2-13D | 97' | 35 | 31 |
| OW-2-6 | 95.7' | 30 | 31 | OW-2-15S | 75' | OFF | OFF | OW-2-14 | 96.4' | 30 | 29 |
| OW-2-7 | 96' | 30 | 30 | OW-2-16S | 75.5' | OFF | OFF | OW-2-15D | 94.6' | OFF | OFF |
| OW-2-8 | 96.3' | 45 | 30 | OW-2-18S | 74.5' | 30 | 20 | OW-2-16D | 94.1' | OFF | OFF |
| OW-2-9D | 96.7' | 40 | 31 | OW-2-20S | 79' | 30 | 22 | OW-2-17 | 95' | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 7/13/2012

O₂ Injection System #2

| Injection Bank D | | | | Injection Bank E | | | | Injection Bank F | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-18D | 95.5' | OFF | OFF | OW-2-22S | 76' | OFF | OFF | OW-2-26D | 95' | OFF | OFF |
| OW-2-19 | 96.1' | OFF | OFF | OW-2-24S | 77.8' | OFF | OFF | OW-2-27 | 93.5' | OFF | OFF |
| OW-2-20D | 96.6' | OFF | OFF | OW-2-26S | 74' | OFF | OFF | OW-2-28D | 92.1' | OFF | OFF |
| OW-2-21 | 96.6' | OFF | OFF | OW-2-28S | 76' | OFF | OFF | OW-2-29 | 92.2' | 35 | 29 |
| OW-2-22D | 96.3' | OFF | OFF | OW-2-30S | 67.8' | OFF | OFF | OW-2-30D | 88' | 45 | 29 |
| OW-2-23 | 97.2' | OFF | OFF | OW-2-34 | 71' | OFF | OFF | OW-2-31 | 86' | 30 | 32 |
| OW-2-24D | 97' | OFF | OFF | OW-2-35 | 69.2' | OFF | OFF | OW-2-32 | 84' | 45 | 34 |
| OW-2-25 | 96' | OFF | OFF | OW-2-36 | 64.8' | OFF | OFF | OW-2-33 | 82' | 50 | 39 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

O₂ Injection System #2

| Injection Bank G | | | | Injection Bank H | | | | Monitoring Points Log | | | | |
|------------------|-------|------|-----|------------------|---------------------|------------------|-----|-----------------------|-------|---|---------------------|-----------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) |
| OW-2-37 | 62.8' | 35 | 20 | OW-2-45 | 61.1' | 30 | 21 | MP-2-1 | 27.72 | 24.2 | 1.72 | 0 |
| OW-2-38 | 62.1' | 30 | 20 | OW-2-46 | 61' | 30 | 20 | MP-2-2 | 28.82 | 17.5 | 2.38 | 0 |
| OW-2-39 | 60' | 35 | 21 | OW-2-47 | 60.5' | 35 | 20 | MP-2-3S | 28.94 | 20.9 | 1.97 | 0 |
| OW-2-40 | 61.7' | 30 | 21 | ID | DO (mg/L) Middle | DO (mg/L) Top | | MP-2-3D | 29.17 | 21.4 | 2.54 | 1.0 |
| OW-2-41 | 61.7' | 40 | 20 | MP-2-2 | 2.91 | 3.14 | | MP-2-4 | 17.74 | 23.3 | 1.72 | 0 |
| OW-2-42 | 61.6' | 45 | 19 | MP-2-3S | 1.67 | 2.11 | | MP-2-5 | 15.96 | 31.3 | 2.17 | 11.2 |
| OW-2-43 | 61.4' | 30 | 20 | MP-2-3D | 2.67 | 2.79 | | | | | | |
| OW-2-44R | 60.6' | 30 | 20 | MP-2-5 | 2.54 | 2.68 | | | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Found oxygen holding tanks operating at a pressure of 40 psi which is low. Closed main valve and allowed pressure to build to 80- psi and conducted O&M. Soaked up a small amount of oil and water from separator for disposal. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas. Pulled weeds in and around fence area of shed.

On Tuesday, July 17, 2012, Mike Ryan returned to the site to determine why the pressure was extremely low at the oxygen holding tanks. Took apart all solenoid valves for each injection bank as well as the inline solenoids at the booster pump. Found a bad solenoid at the booster pump which was causing the low pressure in the holding tanks. Replaced the bad solenoid valve and cleaned all other valves. Restarted system and left running.

Electric Meter # 96-929-544 tied into Pole #3

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|------------------|
| Date: | <u>7/30/2012</u> |
| Time: | <u>1230</u> |
| Weather: | <u>Sunny</u> |
| Outdoor Temperature: | <u>~84° F</u> |
| Inside Trailer Temperature: | <u>~74° F</u> |
| Performed By: | <u>Mike Ryan</u> |

| O ₂ Generator (AirSep) | | | | Compressor (Kaesar Rotary Screw) | | | |
|--|---------------|-----------|--|--|---------------|---------|-------|
| Hours | <u>13,351</u> | | | Compressor Tank * | <u>95</u> | | (psi) |
| Feed Air Pressure * | <u>100</u> | (psi) | | (readings below are made from control panel) | | | |
| Cycle Pressure * | <u>60</u> | (psi) | | Delivery Air | <u>114</u> | (psi) | |
| Oxygen Receiver Pressure * | <u>115</u> | (psi) | | Element Outlet Temperature | <u>172</u> | (°F) | |
| Oxygen Purity | <u>94.3</u> | (percent) | | Running Hours | <u>13,493</u> | (hours) | |
| * maximum reading during loading cycle | | | | Loading Hours | <u>13,302</u> | (hours) | |
| * maximum reading during loading cycle | | | | | | | |

| O ₂ Injection System #2 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|--------|------|------|
| Injection Bank A | | | | Injection Bank B | | | | Injection Bank C | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-2 | 90.2' | 50 | 28 | OW-2-9S | 75' | 30 | 21 | OW-2-10D | 97.2' | 40 | 28 |
| OW-2-3 | 94.3' | 30 | 28 | OW-2-10S | 75' | 15 | 30 | OW-2-11D | 100.8' | 25 | 32 |
| OW-2-4 | 94.7' | 30 | 29 | OW-2-11S | 76.5' | 50 | 22 | OW-2-12 | 94' | 40 | 20 |
| OW-2-5 | 95.3' | 35 | 32 | OW-2-13S | 75' | 25 | 19 | OW-2-13D | 97' | 60 | 29 |
| OW-2-6 | 95.7' | 40 | 31 | OW-2-15S | 75' | OFF | OFF | OW-2-14 | 96.4' | 25 | 30 |
| OW-2-7 | 96' | 25 | 30 | OW-2-16S | 75.5' | OFF | OFF | OW-2-15D | 94.6' | OFF | OFF |
| OW-2-8 | 96.3' | 20 | 30 | OW-2-18S | 74.5' | 30 | 20 | OW-2-16D | 94.1' | OFF | OFF |
| OW-2-9D | 96.7' | 30 | 30 | OW-2-20S | 79' | 30 | 23 | OW-2-17 | 95' | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 7/30/2012

O₂ Injection System #2

| Injection Bank D | | | | Injection Bank E | | | | Injection Bank F | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-18D | 95.5' | OFF | OFF | OW-2-22S | 76' | OFF | OFF | OW-2-26D | 95' | OFF | OFF |
| OW-2-19 | 96.1' | OFF | OFF | OW-2-24S | 77.8' | OFF | OFF | OW-2-27 | 93.5' | OFF | OFF |
| OW-2-20D | 96.6' | OFF | OFF | OW-2-26S | 74' | OFF | OFF | OW-2-28D | 92.1' | OFF | OFF |
| OW-2-21 | 96.6' | OFF | OFF | OW-2-28S | 76' | OFF | OFF | OW-2-29 | 92.2' | 20 | 29 |
| OW-2-22D | 96.3' | OFF | OFF | OW-2-30S | 67.8' | OFF | OFF | OW-2-30D | 88' | 25 | 28 |
| OW-2-23 | 97.2' | OFF | OFF | OW-2-34 | 71' | OFF | OFF | OW-2-31 | 86' | 30 | 32 |
| OW-2-24D | 97' | OFF | OFF | OW-2-35 | 69.2' | OFF | OFF | OW-2-32 | 84' | 30 | 30 |
| OW-2-25 | 96' | OFF | OFF | OW-2-36 | 64.8' | OFF | OFF | OW-2-33 | 82' | 20 | 36 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

O₂ Injection System #2

| Injection Bank G | | | | Injection Bank H | | | | Monitoring Points Log | | | | |
|------------------|-------|------|-----|------------------|------------------|---------------|-----|-----------------------|-------|-------------------------------------|------------------|-----------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) |
| OW-2-37 | 62.8' | 35 | 20 | OW-2-45 | 61.1' | 35 | 21 | MP-2-1 | 28.07 | 24.9 | 1.53 | 0 |
| OW-2-38 | 62.1' | 40 | 19 | OW-2-46 | 61' | 30 | 20 | MP-2-2 | 29.18 | 16.5 | 2.46 | 0 |
| OW-2-39 | 60' | 40 | 19 | OW-2-47 | 60.5' | 20 | 20 | MP-2-3S | 29.32 | 19.6 | 2.19 | 0 |
| OW-2-40 | 61.7' | 30 | 21 | ID | DO (mg/L) Middle | DO (mg/L) Top | | MP-2-3D | 29.55 | 20.3 | 2.47 | 0.2 |
| OW-2-41 | 61.7' | 30 | 20 | MP-2-2 | 2.79 | 3.20 | | MP-2-4 | 18.09 | 31.7 | 1.80 | 0 |
| OW-2-42 | 61.6' | 35 | 20 | MP-2-3S | 2.00 | 2.64 | | MP-2-5 | 16.30 | 34.5 | 2.31 | 0.2 |
| OW-2-43 | 61.4' | 30 | 20 | MP-2-3D | 2.90 | 3.70 | | | | | | |
| OW-2-44R | 60.6' | 40 | 20 | MP-2-5 | 2.50 | 2.66 | | | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|------------------|
| Date: | <u>8/9/2012</u> |
| Time: | <u>1251</u> |
| Weather: | <u>Sunny</u> |
| Outdoor Temperature: | <u>~87° F</u> |
| Inside Trailer Temperature: | <u>~74° F</u> |
| Performed By: | <u>Mike Ryan</u> |

| O ₂ Generator (AirSep) | | Compressor (Kaesar Rotary Screw) | |
|--|-----------------------|--|-----------------------|
| Hours | <u>13,591</u> | Compressor Tank * | <u>95</u> (psi) |
| Feed Air Pressure * | <u>100</u> (psi) | (readings below are made from control panel) | |
| Cycle Pressure * | <u>65</u> (psi) | Delivery Air | <u>107</u> (psi) |
| Oxygen Receiver Pressure * | <u>105</u> (psi) | Element Outlet Temperature | <u>176</u> (°F) |
| Oxygen Purity | <u>94.5</u> (percent) | Running Hours | <u>13,733</u> (hours) |
| | | Loading Hours | <u>13,531</u> (hours) |
| * maximum reading during loading cycle | | * maximum reading during loading cycle | |

| O ₂ Injection System #2 | | | | | | | | | | | |
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|

| Injection Bank A | | | | Injection Bank B | | | | Injection Bank C | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|--------|------|------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-2 | 90.2' | 40 | 29 | OW-2-9S | 75' | 30 | 21 | OW-2-10D | 97.2' | 35 | 28 |
| OW-2-3 | 94.3' | 50 | 30 | OW-2-10S | 75' | 35 | 30 | OW-2-11D | 100.8' | 20 | 32 |
| OW-2-4 | 94.7' | 30 | 33 | OW-2-11S | 76.5' | 30 | 22 | OW-2-12 | 94' | 40 | 20 |
| OW-2-5 | 95.3' | 30 | 30 | OW-2-13S | 75' | 50 | 19 | OW-2-13D | 97' | 30 | 27 |
| OW-2-6 | 95.7' | 40 | 31 | OW-2-15S | 75' | OFF | OFF | OW-2-14 | 96.4' | 20 | 28 |
| OW-2-7 | 96' | 30 | 30 | OW-2-16S | 75.5' | OFF | OFF | OW-2-15D | 94.6' | OFF | OFF |
| OW-2-8 | 96.3' | 30 | 30 | OW-2-18S | 74.5' | 20 | 19 | OW-2-16D | 94.1' | OFF | OFF |
| OW-2-9D | 96.7' | 30 | 30 | OW-2-20S | 79' | 30 | 23 | OW-2-17 | 95' | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 8/9/2012

O₂ Injection System #2

| Injection Bank D | | | | Injection Bank E | | | | Injection Bank F | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-18D | 95.5' | OFF | OFF | OW-2-22S | 76' | OFF | OFF | OW-2-26D | 95' | OFF | OFF |
| OW-2-19 | 96.1' | OFF | OFF | OW-2-24S | 77.8' | OFF | OFF | OW-2-27 | 93.5' | OFF | OFF |
| OW-2-20D | 96.6' | OFF | OFF | OW-2-26S | 74' | OFF | OFF | OW-2-28D | 92.1' | OFF | OFF |
| OW-2-21 | 96.6' | OFF | OFF | OW-2-28S | 76' | OFF | OFF | OW-2-29 | 92.2' | 25 | 28 |
| OW-2-22D | 96.3' | OFF | OFF | OW-2-30S | 67.8' | OFF | OFF | OW-2-30D | 88' | 30 | 27 |
| OW-2-23 | 97.2' | OFF | OFF | OW-2-34 | 71' | OFF | OFF | OW-2-31 | 86' | 45 | 33 |
| OW-2-24D | 97' | OFF | OFF | OW-2-35 | 69.2' | OFF | OFF | OW-2-32 | 84' | 30 | 34 |
| OW-2-25 | 96' | OFF | OFF | OW-2-36 | 64.8' | OFF | OFF | OW-2-33 | 82' | 25 | 36 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

O₂ Injection System #2

| Injection Bank G | | | | Injection Bank H | | | | Monitoring Points Log | | | | |
|------------------|-------|------|-----|------------------|------------------|---------------|-----|-----------------------|-------|-------------------------------------|------------------|-----------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) |
| OW-2-37 | 62.8' | 35 | 20 | OW-2-45 | 61.1' | 25 | 22 | MP-2-1 | 28.25 | 23.7 | 1.80 | 0 |
| OW-2-38 | 62.1' | 40 | 19 | OW-2-46 | 61' | 30 | 19 | MP-2-2 | 29.38 | 17.9 | 2.38 | 0 |
| OW-2-39 | 60' | 40 | 19 | OW-2-47 | 60.5' | 30 | 19 | MP-2-3S | 29.50 | 19.8 | 2.84 | 0.2 |
| OW-2-40 | 61.7' | 45 | 20 | ID | DO (mg/L) Middle | DO (mg/L) Top | | MP-2-3D | 29.73 | 20.9 | 2.46 | 0.1 |
| OW-2-41 | 61.7' | 50 | 20 | MP-2-2 | 3.00 | 2.59 | | MP-2-4 | 18.27 | 26.5 | 1.62 | 0 |
| OW-2-42 | 61.6' | 30 | 20 | MP-2-3S | 1.94 | 2.58 | | MP-2-5 | 16.49 | 30.4 | 2.44 | 0 |
| OW-2-43 | 61.4' | 45 | 20 | MP-2-3D | 2.91 | 3.14 | | | | | | |
| OW-2-44R | 60.6' | 30 | 20 | MP-2-5 | 2.38 | 2.13 | | | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 8/9/2012

OPERATIONAL NOTES

GA5 Air Compressor

- | | | | | |
|--|-----------|----------|----------------|----------|
| 1) Oil Level Checked with system unloaded* | Yes | <u>X</u> | No | _____ |
| * Unload system, wait until Delivery Air Pressure is less than 9 psi | | | | |
| 2) Oil Level with system unloaded | Low (red) | _____ | Normal (green) | <u>X</u> |
| | | | High (orange) | _____ |
| 3) Oil added | Yes | _____ | No | <u>X</u> |
| 4) Oil changed | Yes | _____ | No | <u>X</u> |
| 5) Oil filter changed | Yes | _____ | No | <u>X</u> |
| 6) Air filter Changed | Yes | _____ | No | <u>X</u> |
| 7) Oil separator cleaned | Yes | _____ | No | <u>X</u> |
| 8) Terminal strips checked | Yes | <u>X</u> | No | _____ |

AS-80 O. Generator

- | | | | | |
|-----------------------|-----|-------|----|----------|
| 1) Prefilter changed | Yes | _____ | No | <u>X</u> |
| 2) Coalescing changed | Yes | _____ | No | <u>X</u> |

GENERAL SYSTEM NOTES

Trailer

- | | | | | |
|--|-------|----------|----|-------|
| 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) | Yes | <u>X</u> | No | _____ |
| 2) Abnormal conditions observed (e.g. vandalism) | _____ | | | |
| 3) Other major activities completed | _____ | | | |
| 4) Supplies needed | _____ | | | |
| 5) Visitors | _____ | | | |

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Soaked up a small amount of oil and water from separator for disposal. Replaced 2 bolts on monitoring point manholes. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas. Cleaned air filter on A/C unit and changed fresh air intake filter on air compressor.

Electric Meter # 96-929-544 tied into Pole #3

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|------------------|
| Date: | <u>8/31/2012</u> |
| Time: | <u>1249</u> |
| Weather: | <u>Sunny</u> |
| Outdoor Temperature: | <u>~92° F</u> |
| Inside Trailer Temperature: | <u>~80° F</u> |
| Performed By: | <u>Mike Ryan</u> |

| O ₂ Generator (AirSep) | | | | Compressor (Kaesar Rotary Screw) | | | |
|--|---------------|-----------|--|--|---------------|--|---------|
| Hours | <u>14,119</u> | | | Compressor Tank * | <u>85</u> | | (psi) |
| Feed Air Pressure * | <u>105</u> | (psi) | | (readings below are made from control panel) | | | |
| Cycle Pressure * | <u>60</u> | (psi) | | Delivery Air | <u>109</u> | | (psi) |
| Oxygen Receiver Pressure * | <u>115</u> | (psi) | | Element Outlet Temperature | <u>176</u> | | (°F) |
| | | | | Running Hours | <u>14,261</u> | | (hours) |
| | | | | Loading Hours | <u>14,037</u> | | (hours) |
| Oxygen Purity | <u>94.9</u> | (percent) | | | | | |
| * maximum reading during loading cycle | | | | * maximum reading during loading cycle | | | |

| O ₂ Injection System #2 | | | | | | | | | | | |
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|

| Injection Bank A | | | | Injection Bank B | | | | Injection Bank C | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|--------|------|------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-2 | 90.2' | 30 | 28 | OW-2-9S | 75' | 30 | 20 | OW-2-10D | 97.2' | 40 | 28 |
| OW-2-3 | 94.3' | 60 | 20 | OW-2-10S | 75' | 40 | 30 | OW-2-11D | 100.8' | 30 | 32 |
| OW-2-4 | 94.7' | 30 | 32 | OW-2-11S | 76.5' | 30 | 22 | OW-2-12 | 94' | 30 | 20 |
| OW-2-5 | 95.3' | 25 | 30 | OW-2-13S | 75' | 30 | 20 | OW-2-13D | 97' | 50 | 38 |
| OW-2-6 | 95.7' | 30 | 30 | OW-2-15S | 75' | OFF | OFF | OW-2-14 | 96.4' | 40 | 28 |
| OW-2-7 | 96' | 35 | 29 | OW-2-16S | 75.5' | OFF | OFF | OW-2-15D | 94.6' | OFF | OFF |
| OW-2-8 | 96.3' | 20 | 30 | OW-2-18S | 74.5' | 45 | 19 | OW-2-16D | 94.1' | OFF | OFF |
| OW-2-9D | 96.7' | 30 | 30 | OW-2-20S | 79' | 40 | 23 | OW-2-17 | 95' | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 8/31/2012

O₂ Injection System #2

| Injection Bank D | | | | Injection Bank E | | | | Injection Bank F | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-18D | 95.5' | OFF | OFF | OW-2-22S | 76' | OFF | OFF | OW-2-26D | 95' | OFF | OFF |
| OW-2-19 | 96.1' | OFF | OFF | OW-2-24S | 77.8' | OFF | OFF | OW-2-27 | 93.5' | OFF | OFF |
| OW-2-20D | 96.6' | OFF | OFF | OW-2-26S | 74' | OFF | OFF | OW-2-28D | 92.1' | OFF | OFF |
| OW-2-21 | 96.6' | OFF | OFF | OW-2-28S | 76' | OFF | OFF | OW-2-29 | 92.2' | 35 | 28 |
| OW-2-22D | 96.3' | OFF | OFF | OW-2-30S | 67.8' | OFF | OFF | OW-2-30D | 88' | 45 | 27 |
| OW-2-23 | 97.2' | OFF | OFF | OW-2-34 | 71' | OFF | OFF | OW-2-31 | 86' | 40 | 28 |
| OW-2-24D | 97' | OFF | OFF | OW-2-35 | 69.2' | OFF | OFF | OW-2-32 | 84' | 30 | 37 |
| OW-2-25 | 96' | OFF | OFF | OW-2-36 | 64.8' | OFF | OFF | OW-2-33 | 82' | 40 | 30 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

O₂ Injection System #2

| Injection Bank G | | | | Injection Bank H | | | | Monitoring Points Log | | | | |
|------------------|-------|------|-----|------------------|---------------------|------------------|-----|-----------------------|-------|---|---------------------|-----------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) |
| OW-2-37 | 62.8' | 35 | 20 | OW-2-45 | 61.1' | 30 | 23 | MP-2-1 | 28.60 | 24.8 | 2.31 | 0 |
| OW-2-38 | 62.1' | 40 | 19 | OW-2-46 | 61' | 30 | 21 | MP-2-2 | 29.73 | 20.9 | 2.68 | 0 |
| OW-2-39 | 60' | 40 | 19 | OW-2-47 | 60.5' | 30 | 20 | MP-2-3S | 29.84 | 22.1 | 3.08 | 0.2 |
| OW-2-40 | 61.7' | 30 | 20 | ID | DO (mg/L) Middle | DO (mg/L) Top | | MP-2-3D | 30.06 | 22.4 | 2.49 | 0.3 |
| OW-2-41 | 61.7' | 30 | 20 | MP-2-2 | 3.41 | 3.25 | | MP-2-4 | 18.61 | 24.5 | 2.23 | 0 |
| OW-2-42 | 61.6' | 30 | 19 | MP-2-3S | 2.25 | 3.19 | | MP-2-5 | 16.85 | 21.4 | 2.89 | 0 |
| OW-2-43 | 61.4' | 40 | 20 | MP-2-3D | 3.04 | 3.74 | | | | | | |
| OW-2-44R | 60.6' | 30 | 20 | MP-2-5 | 3.03 | 2.66 | | | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 8/31/2012

OPERATIONAL NOTES

GA5 Air Compressor

- | | | |
|--|--------------------|--|
| 1) Oil Level Checked with system unloaded* | Yes <u>X</u> | No _____ |
| * Unload system, wait until Delivery Air Pressure is less than 9 psi | | |
| 2) Oil Level with system unloaded | Low (red) <u>X</u> | Normal (green) _____ High (orange) _____ |
| 3) Oil added | Yes <u>X</u> | No _____ |
| 4) Oil changed | Yes _____ | No <u>X</u> |
| 5) Oil filter changed | Yes _____ | No <u>X</u> |
| 6) Air filter Changed | Yes _____ | No <u>X</u> |
| 7) Oil separator cleaned | Yes _____ | No <u>X</u> |
| 8) Terminal strips checked | Yes <u>X</u> | No _____ |

AS-80 O. Generator

- | | | |
|-----------------------|--------------|-------------|
| 1) Prefilter changed | Yes <u>X</u> | No _____ |
| 2) Coalescing changed | Yes _____ | No <u>X</u> |

GENERAL SYSTEM NOTES

Trailer

- | | | |
|--|--------------|----------|
| 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) | Yes <u>X</u> | No _____ |
| 2) Abnormal conditions observed (e.g. vandalism) | _____ | |
| 3) Other major activities completed | _____ | |
| 4) Supplies needed | _____ | |
| 5) Visitors | _____ | |

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Soaked up a small amount of oil and water from separator for disposal. Added oil to compressor and changed fresh air intake filters. Changed pre-filter on oxygen generator. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas. Started to pull weeds around shed enclosure.

Electric Meter # 96-929-544 tied into Pole #3

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|------------------|
| Date: | <u>9/14/2012</u> |
| Time: | <u>1239</u> |
| Weather: | <u>Sunny</u> |
| Outdoor Temperature: | <u>~81° F</u> |
| Inside Trailer Temperature: | <u>~75° F</u> |
| Performed By: | <u>Mike Ryan</u> |

| O ₂ Generator (AirSep) | | | | Compressor (Kaesar Rotary Screw) | | | |
|--|---------------|-----------|--|--|---------------|--|---------|
| Hours | <u>14,455</u> | | | Compressor Tank * | <u>115</u> | | (psi) |
| Feed Air Pressure * | <u>95</u> | (psi) | | (readings below are made from control panel) | | | |
| Cycle Pressure * | <u>60</u> | (psi) | | Delivery Air | <u>95</u> | | (psi) |
| Oxygen Receiver Pressure * | <u>100</u> | (psi) | | Element Outlet Temperature | <u>174</u> | | (°F) |
| | | | | Running Hours | <u>14,597</u> | | (hours) |
| | | | | Loading Hours | <u>14,359</u> | | (hours) |
| Oxygen Purity | <u>97.9</u> | (percent) | | | | | |
| * maximum reading during loading cycle | | | | * maximum reading during loading cycle | | | |

| O ₂ Injection System #2 | | | | | | | | | | | |
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|

| Injection Bank A | | | | Injection Bank B | | | | Injection Bank C | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|--------|------|------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-2 | 90.2' | 30 | 31 | OW-2-9S | 75' | 35 | 20 | OW-2-10D | 97.2' | 35 | 28 |
| OW-2-3 | 94.3' | 50 | 21 | OW-2-10S | 75' | 45 | 30 | OW-2-11D | 100.8' | 30 | 32 |
| OW-2-4 | 94.7' | 30 | 30 | OW-2-11S | 76.5' | 35 | 22 | OW-2-12 | 94' | 30 | 19 |
| OW-2-5 | 95.3' | 40 | 30 | OW-2-13S | 75' | 35 | 20 | OW-2-13D | 97' | 70 | 29 |
| OW-2-6 | 95.7' | 30 | 30 | OW-2-15S | 75' | OFF | OFF | OW-2-14 | 96.4' | 35 | 29 |
| OW-2-7 | 96' | 30 | 29 | OW-2-16S | 75.5' | OFF | OFF | OW-2-15D | 94.6' | OFF | OFF |
| OW-2-8 | 96.3' | 35 | 30 | OW-2-18S | 74.5' | 30 | 19 | OW-2-16D | 94.1' | OFF | OFF |
| OW-2-9D | 96.7' | 30 | 30 | OW-2-20S | 79' | 30 | 23 | OW-2-17 | 95' | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 9/14/2012

O₂ Injection System #2

| Injection Bank D | | | | Injection Bank E | | | | Injection Bank F | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-18D | 95.5' | OFF | OFF | OW-2-22S | 76' | OFF | OFF | OW-2-26D | 95' | OFF | OFF |
| OW-2-19 | 96.1' | OFF | OFF | OW-2-24S | 77.8' | OFF | OFF | OW-2-27 | 93.5' | OFF | OFF |
| OW-2-20D | 96.6' | OFF | OFF | OW-2-26S | 74' | OFF | OFF | OW-2-28D | 92.1' | OFF | OFF |
| OW-2-21 | 96.6' | OFF | OFF | OW-2-28S | 76' | OFF | OFF | OW-2-29 | 92.2' | 30 | 28 |
| OW-2-22D | 96.3' | OFF | OFF | OW-2-30S | 67.8' | OFF | OFF | OW-2-30D | 88' | 30 | 27 |
| OW-2-23 | 97.2' | OFF | OFF | OW-2-34 | 71' | OFF | OFF | OW-2-31 | 86' | 50 | 28 |
| OW-2-24D | 97' | OFF | OFF | OW-2-35 | 69.2' | OFF | OFF | OW-2-32 | 84' | 60 | 36 |
| OW-2-25 | 96' | OFF | OFF | OW-2-36 | 64.8' | OFF | OFF | OW-2-33 | 82' | 40 | 33 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

O₂ Injection System #2

| Injection Bank G | | | | Injection Bank H | | | | Monitoring Points Log | | | | |
|------------------|-------|------|-----|------------------|-------------------------|----------------------|-----|-----------------------|-------|-------------------------------------|------------------|-----------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) |
| OW-2-37 | 62.8' | 30 | 20 | OW-2-45 | 61.1' | 40 | 21 | MP-2-1 | 28.83 | 23.7 | 2.50 | 0 |
| OW-2-38 | 62.1' | 30 | 20 | OW-2-46 | 61' | 45 | 19 | MP-2-2 | 29.94 | 17.6 | 2.89 | 0 |
| OW-2-39 | 60' | 40 | 18 | OW-2-47 | 60.5' | 30 | 20 | MP-2-3S | 29.96 | 20.9 | 2.87 | 0.2 |
| OW-2-40 | 61.7' | 30 | 20 | ID | DO (mg/L) Middle | DO (mg/L) Top | | MP-2-3D | 30.09 | 22.3 | 2.55 | 0.1 |
| OW-2-41 | 61.7' | 50 | 19 | MP-2-2 | 3.49 | 3.60 | | MP-2-4 | 18.82 | 21.3 | 1.96 | 0.4 |
| OW-2-42 | 61.6' | 60 | 20 | MP-2-3S | 3.01 | 3.12 | | MP-2-5 | 17.03 | 23.9 | 2.05 | 1.5 |
| OW-2-43 | 61.4' | 30 | 20 | MP-2-3D | 2.99 | 3.14 | | | | | | |
| OW-2-44R | 60.6' | 30 | 20 | MP-2-5 | 2.22 | 2.39 | | | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|------------------|
| Date: | <u>9/27/2012</u> |
| Time: | <u>1252</u> |
| Weather: | <u>Rain</u> |
| Outdoor Temperature: | <u>~77° F</u> |
| Inside Trailer Temperature: | <u>~72° F</u> |
| Performed By: | <u>Mike Ryan</u> |

| O ₂ Generator (AirSep) | | | | Compressor (Kaesar Rotary Screw) | | | |
|--|---------------|-----------|--|--|---------------|--|---------|
| Hours | <u>14,791</u> | | | Compressor Tank * | <u>95</u> | | (psi) |
| Feed Air Pressure * | <u>110</u> | (psi) | | (readings below are made from control panel) | | | |
| Cycle Pressure * | <u>60</u> | (psi) | | Delivery Air | <u>105</u> | | (psi) |
| Oxygen Receiver Pressure * | <u>100</u> | (psi) | | Element Outlet Temperature | <u>174</u> | | (°F) |
| | | | | Running Hours | <u>14,933</u> | | (hours) |
| | | | | Loading Hours | <u>14,682</u> | | (hours) |
| Oxygen Purity | <u>97.7</u> | (percent) | | | | | |
| * maximum reading during loading cycle | | | | * maximum reading during loading cycle | | | |

| O ₂ Injection System #2 | | | | | | | | | | | |
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|

| Injection Bank A | | | | Injection Bank B | | | | Injection Bank C | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|--------|------|------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-2 | 90.2' | 50 | 33 | OW-2-9S | 75' | 40 | 21 | OW-2-10D | 97.2' | 30 | 29 |
| OW-2-3 | 94.3' | 50 | 30 | OW-2-10S | 75' | 50 | 30 | OW-2-11D | 100.8' | 30 | 32 |
| OW-2-4 | 94.7' | 40 | 32 | OW-2-11S | 76.5' | 35 | 22 | OW-2-12 | 94' | 30 | 20 |
| OW-2-5 | 95.3' | 20 | 30 | OW-2-13S | 75' | 35 | 20 | OW-2-13D | 97' | 50 | 32 |
| OW-2-6 | 95.7' | 30 | 30 | OW-2-15S | 75' | OFF | OFF | OW-2-14 | 96.4' | 35 | 29 |
| OW-2-7 | 96' | 35 | 29 | OW-2-16S | 75.5' | OFF | OFF | OW-2-15D | 94.6' | OFF | OFF |
| OW-2-8 | 96.3' | 40 | 29 | OW-2-18S | 74.5' | 30 | 19 | OW-2-16D | 94.1' | OFF | OFF |
| OW-2-9D | 96.7' | 40 | 30 | OW-2-20S | 79' | 30 | 23 | OW-2-17 | 95' | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 9/27/2012

O₂ Injection System #2

| Injection Bank D | | | | Injection Bank E | | | | Injection Bank F | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-18D | 95.5' | OFF | OFF | OW-2-22S | 76' | OFF | OFF | OW-2-26D | 95' | OFF | OFF |
| OW-2-19 | 96.1' | OFF | OFF | OW-2-24S | 77.8' | OFF | OFF | OW-2-27 | 93.5' | OFF | OFF |
| OW-2-20D | 96.6' | OFF | OFF | OW-2-26S | 74' | OFF | OFF | OW-2-28D | 92.1' | OFF | OFF |
| OW-2-21 | 96.6' | OFF | OFF | OW-2-28S | 76' | OFF | OFF | OW-2-29 | 92.2' | 30 | 28 |
| OW-2-22D | 96.3' | OFF | OFF | OW-2-30S | 67.8' | OFF | OFF | OW-2-30D | 88' | 30 | 27 |
| OW-2-23 | 97.2' | OFF | OFF | OW-2-34 | 71' | OFF | OFF | OW-2-31 | 86' | 50 | 34 |
| OW-2-24D | 97' | OFF | OFF | OW-2-35 | 69.2' | OFF | OFF | OW-2-32 | 84' | 40 | 39 |
| OW-2-25 | 96' | OFF | OFF | OW-2-36 | 64.8' | OFF | OFF | OW-2-33 | 82' | 30 | 35 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

O₂ Injection System #2

| Injection Bank G | | | | Injection Bank H | | | | Monitoring Points Log | | | | |
|------------------|-------|------|-----|------------------|------------------|---------------|-----|-----------------------|-------|-------------------------------------|------------------|-----------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) |
| OW-2-37 | 62.8' | 30 | 20 | OW-2-45 | 61.1' | 30 | 21 | MP-2-1 | 28.95 | 23.4 | 2.51 | 0 |
| OW-2-38 | 62.1' | 30 | 20 | OW-2-46 | 61' | 30 | 19 | MP-2-2 | 30.03 | 16.6 | 2.12 | 0 |
| OW-2-39 | 60' | 50 | 18 | OW-2-47 | 60.5' | 30 | 20 | MP-2-3S | 30.10 | 18.1 | 2.81 | 0.3 |
| OW-2-40 | 61.7' | 30 | 20 | ID | DO (mg/L) Middle | DO (mg/L) Top | | MP-2-3D | 30.35 | 19.8 | 2.62 | 0.1 |
| OW-2-41 | 61.7' | 50 | 19 | MP-2-2 | 2.35 | 2.72 | | MP-2-4 | 18.92 | 26.5 | 1.91 | 0 |
| OW-2-42 | 61.6' | 60 | 19 | MP-2-3S | 2.06 | 3.21 | | MP-2-5 | 17.13 | 29.7 | 2.05 | 0 |
| OW-2-43 | 61.4' | 30 | 20 | MP-2-3D | 2.76 | 3.11 | | | | | | |
| OW-2-44R | 60.6' | 25 | 20 | MP-2-5 | 2.39 | 2.26 | | | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|------------------|
| Date: | <u>10/8/2012</u> |
| Time: | <u>1150</u> |
| Weather: | <u>Rain</u> |
| Outdoor Temperature: | <u>~59° F</u> |
| Inside Trailer Temperature: | <u>~70° F</u> |
| Performed By: | <u>Mike Ryan</u> |

| O ₂ Generator (AirSep) | | Compressor (Kaesar Rotary Screw) | |
|--|-----------------------|--|-----------------------|
| Hours | <u>15,029</u> | Compressor Tank * | <u>85</u> (psi) |
| Feed Air Pressure * | <u>100</u> (psi) | (readings below are made from control panel) | |
| Cycle Pressure * | <u>60</u> (psi) | Delivery Air | <u>112</u> (psi) |
| Oxygen Receiver Pressure * | <u>120</u> (psi) | Element Outlet Temperature | <u>172</u> (°F) |
| Oxygen Purity | <u>96.9</u> (percent) | Running Hours | <u>15,171</u> (hours) |
| | | Loading Hours | <u>14,910</u> (hours) |
| * maximum reading during loading cycle | | * maximum reading during loading cycle | |

| O ₂ Injection System #2 | | | | | | | | | | | |
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|

| Injection Bank A | | | | Injection Bank B | | | | Injection Bank C | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|--------|------|------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-2 | 90.2' | 40 | 31 | OW-2-9S | 75' | 40 | 20 | OW-2-10D | 97.2' | 40 | 29 |
| OW-2-3 | 94.3' | 40 | 29 | OW-2-10S | 75' | 50 | 30 | OW-2-11D | 100.8' | 30 | 33 |
| OW-2-4 | 94.7' | 50 | 32 | OW-2-11S | 76.5' | 40 | 21 | OW-2-12 | 94' | 30 | 19 |
| OW-2-5 | 95.3' | 30 | 30 | OW-2-13S | 75' | 30 | 19 | OW-2-13D | 97' | 60 | 22 |
| OW-2-6 | 95.7' | 40 | 30 | OW-2-15S | 75' | OFF | OFF | OW-2-14 | 96.4' | 50 | 27 |
| OW-2-7 | 96' | 30 | 29 | OW-2-16S | 75.5' | OFF | OFF | OW-2-15D | 94.6' | OFF | OFF |
| OW-2-8 | 96.3' | 30 | 30 | OW-2-18S | 74.5' | 30 | 19 | OW-2-16D | 94.1' | OFF | OFF |
| OW-2-9D | 96.7' | 30 | 30 | OW-2-20S | 79' | 30 | 22 | OW-2-17 | 95' | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 10/8/2012

O₂ Injection System #2

| Injection Bank D | | | | Injection Bank E | | | | Injection Bank F | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-18D | 95.5' | OFF | OFF | OW-2-22S | 76' | OFF | OFF | OW-2-26D | 95' | OFF | OFF |
| OW-2-19 | 96.1' | OFF | OFF | OW-2-24S | 77.8' | OFF | OFF | OW-2-27 | 93.5' | OFF | OFF |
| OW-2-20D | 96.6' | OFF | OFF | OW-2-26S | 74' | OFF | OFF | OW-2-28D | 92.1' | OFF | OFF |
| OW-2-21 | 96.6' | OFF | OFF | OW-2-28S | 76' | OFF | OFF | OW-2-29 | 92.2' | 25 | 28 |
| OW-2-22D | 96.3' | OFF | OFF | OW-2-30S | 67.8' | OFF | OFF | OW-2-30D | 88' | 30 | 27 |
| OW-2-23 | 97.2' | OFF | OFF | OW-2-34 | 71' | OFF | OFF | OW-2-31 | 86' | 40 | 24 |
| OW-2-24D | 97' | OFF | OFF | OW-2-35 | 69.2' | OFF | OFF | OW-2-32 | 84' | 40 | 31 |
| OW-2-25 | 96' | OFF | OFF | OW-2-36 | 64.8' | OFF | OFF | OW-2-33 | 82' | 30 | 33 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

O₂ Injection System #2

| Injection Bank G | | | | Injection Bank H | | | | Monitoring Points Log | | | | |
|------------------|-------|------|-----|------------------|------------------|---------------|-----|-----------------------|-------|-------------------------------------|------------------|-----------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) |
| OW-2-37 | 62.8' | 30 | 20 | OW-2-45 | 61.1' | 30 | 21 | MP-2-1 | 29.07 | 23.4 | 2.90 | 0 |
| OW-2-38 | 62.1' | 30 | 19 | OW-2-46 | 61' | 25 | 20 | MP-2-2 | 30.15 | 17.2 | 3.52 | 0 |
| OW-2-39 | 60' | 40 | 18 | OW-2-47 | 60.5' | 25 | 20 | MP-2-3S | 30.26 | 19.4 | 3.40 | 0.5 |
| OW-2-40 | 61.7' | 30 | 20 | ID | DO (mg/L) Middle | DO (mg/L) Top | | MP-2-3D | 30.46 | 20.1 | 2.41 | 0.4 |
| OW-2-41 | 61.7' | 35 | 19 | MP-2-2 | 3.66 | 4.04 | | MP-2-4 | 19.00 | 27.7 | 2.42 | 0.1 |
| OW-2-42 | 61.6' | 30 | 19 | MP-2-3S | 2.36 | 2.74 | | MP-2-5 | 17.22 | 28.9 | 2.73 | 0 |
| OW-2-43 | 61.4' | 30 | 20 | MP-2-3D | 3.04 | 3.97 | | | | | | |
| OW-2-44R | 60.6' | 30 | 20 | MP-2-5 | 2.81 | 2.87 | | | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|------------|
| Date: | 10/24/2012 |
| Time: | 13:12 |
| Weather: | Rain |
| Outdoor Temperature: | ~57° F |
| Inside Trailer Temperature: | ~68° F |
| Performed By: | Mike Ryan |

| O ₂ Generator (AirSep) | | Compressor (Kaesar Rotary Screw) | |
|--|----------------|--|----------------|
| Hours | 15,415 | Compressor Tank * | 95 (psi) |
| Feed Air Pressure * | 90 (psi) | (readings below are made from control panel) | |
| Cycle Pressure * | 60 (psi) | Delivery Air | 92 (psi) |
| Oxygen Receiver Pressure * | 110 (psi) | Element Outlet Temperature | 174 (°F) |
| Oxygen Purity | 97.8 (percent) | Running Hours | 15,557 (hours) |
| | | Loading Hours | 15,279 (hours) |
| * maximum reading during loading cycle | | * maximum reading during loading cycle | |

O₂ Injection System #2

| Injection Bank A | | | | Injection Bank B | | | | Injection Bank C | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|--------|------|------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-2 | 90.2' | 40 | 34 | OW-2-9S | 75' | 30 | 20 | OW-2-10D | 97.2' | 30 | 28 |
| OW-2-3 | 94.3' | 80 | 29 | OW-2-10S | 75' | 50 | 30 | OW-2-11D | 100.8' | 40 | 32 |
| OW-2-4 | 94.7' | 35 | 33 | OW-2-11S | 76.5' | 35 | 21 | OW-2-12 | 94' | 30 | 20 |
| OW-2-5 | 95.3' | 30 | 30 | OW-2-13S | 75' | 40 | 18 | OW-2-13D | 97' | 50 | 30 |
| OW-2-6 | 95.7' | 30 | 30 | OW-2-15S | 75' | OFF | OFF | OW-2-14 | 96.4' | 40 | 29 |
| OW-2-7 | 96' | 30 | 29 | OW-2-16S | 75.5' | OFF | OFF | OW-2-15D | 94.6' | OFF | OFF |
| OW-2-8 | 96.3' | 30 | 30 | OW-2-18S | 74.5' | 30 | 19 | OW-2-16D | 94.1' | OFF | OFF |
| OW-2-9D | 96.7' | 30 | 29 | OW-2-20S | 79' | 35 | 22 | OW-2-17 | 95' | OFF | OFF |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 10/24/2012

O₂ Injection System #2

| Injection Bank D | | | | Injection Bank E | | | | Injection Bank F | | | |
|------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-18D | 95.5' | OFF | OFF | OW-2-22S | 76' | OFF | OFF | OW-2-26D | 95' | OFF | OFF |
| OW-2-19 | 96.1' | OFF | OFF | OW-2-24S | 77.8' | OFF | OFF | OW-2-27 | 93.5' | OFF | OFF |
| OW-2-20D | 96.6' | OFF | OFF | OW-2-26S | 74' | OFF | OFF | OW-2-28D | 92.1' | OFF | OFF |
| OW-2-21 | 96.6' | OFF | OFF | OW-2-28S | 76' | OFF | OFF | OW-2-29 | 92.2' | 30 | 28 |
| OW-2-22D | 96.3' | OFF | OFF | OW-2-30S | 67.8' | OFF | OFF | OW-2-30D | 88' | 30 | 27 |
| OW-2-23 | 97.2' | OFF | OFF | OW-2-34 | 71' | OFF | OFF | OW-2-31 | 86' | 20 | 29 |
| OW-2-24D | 97' | OFF | OFF | OW-2-35 | 69.2' | OFF | OFF | OW-2-32 | 84' | 25 | 25 |
| OW-2-25 | 96' | OFF | OFF | OW-2-36 | 64.8' | OFF | OFF | OW-2-33 | 82' | 30 | 29 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

O₂ Injection System #2

| Injection Bank G | | | | Injection Bank H | | | | Monitoring Points Log | | | | |
|------------------|-------|------|-----|------------------|------------------|---------------|-----|-----------------------|-------|-------------------------------------|------------------|-----------|
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) |
| OW-2-37 | 62.8' | 30 | 20 | OW-2-45 | 61.1' | 30 | 19 | MP-2-1 | 29.29 | 24.3 | 2.85 | 0 |
| OW-2-38 | 62.1' | 30 | 18 | OW-2-46 | 61' | 30 | 18 | MP-2-2 | 30.37 | 18.5 | 2.63 | 0 |
| OW-2-39 | 60' | 40 | 19 | OW-2-47 | 60.5' | 30 | 18 | MP-2-3S | 30.50 | 20.9 | 2.90 | 0.4 |
| OW-2-40 | 61.7' | 30 | 20 | ID | DO (mg/L) Middle | DO (mg/L) Top | | MP-2-3D | 30.72 | 20.9 | 2.65 | 0.4 |
| OW-2-41 | 61.7' | 40 | 19 | MP-2-2 | 3.84 | 3.97 | | MP-2-4 | 19.25 | 26.5 | 2.33 | 0 |
| OW-2-42 | 61.6' | 30 | 20 | MP-2-3S | 2.27 | 3.66 | | MP-2-5 | 17.48 | 29.9 | 3.21 | 0 |
| OW-2-43 | 61.4' | 20 | 20 | MP-2-3D | 2.96 | 3.31 | | | | | | |
| OW-2-44R | 60.6' | 25 | 20 | MP-2-5 | 3.37 | 4.46 | | | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|-------------------|
| Date: | <u>11/13/2012</u> |
| Time: | <u>13:15</u> |
| Weather: | <u>Rain</u> |
| Outdoor Temperature: | <u>~49° F</u> |
| Inside Trailer Temperature: | <u>~70° F</u> |
| Performed By: | <u>Mike Ryan</u> |

| O ₂ Generator (AirSep) | | Compressor (Kaesar Rotary Screw) | |
|--|-----------------------|--|-----------------------|
| Hours | <u>15,708</u> | Compressor Tank * | <u>95</u> (psi) |
| Feed Air Pressure * | <u>80</u> (psi) | (readings below are made from control panel) | |
| Cycle Pressure * | <u>60</u> (psi) | Delivery Air | <u>109</u> (psi) |
| Oxygen Receiver Pressure * | <u>115</u> (psi) | Element Outlet Temperature | <u>171</u> (°F) |
| Oxygen Purity | <u>98.1</u> (percent) | Running Hours | <u>15,840</u> (hours) |
| | | Loading Hours | <u>15,514</u> (hours) |
| * maximum reading during loading cycle | | * maximum reading during loading cycle | |

| O ₂ Injection System #2 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|--------|------|------|
| Injection Bank A | | | | Injection Bank B | | | | Injection Bank C | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-2 | 90.2' | 40 | 29 | OW-2-9S | 75' | 25 | 20 | OW-2-10D | 97.2' | 40 | 28 |
| OW-2-3 | 94.3' | 50 | 21 | OW-2-10S | 75' | 40 | 30 | OW-2-11D | 100.8' | 40 | 32 |
| OW-2-4 | 94.7' | 30 | 31 | OW-2-11S | 76.5' | 20 | 21 | OW-2-12 | 94' | 30 | 20 |
| OW-2-5 | 95.3' | 35 | 30 | OW-2-13S | 75' | 30 | 19 | OW-2-13D | 97' | 30 | 35 |
| OW-2-6 | 95.7' | 40 | 30 | OW-2-15S | 75' | 30 | 19 | OW-2-14 | 96.4' | 30 | 28 |
| OW-2-7 | 96' | 40 | 29 | OW-2-16S | 75.5' | 30 | 19 | OW-2-15D | 94.6' | 35 | 27 |
| OW-2-8 | 96.3' | 40 | 29 | OW-2-18S | 74.5' | 25 | 19 | OW-2-16D | 94.1' | 40 | 28 |
| OW-2-9D | 96.7' | 40 | 30 | OW-2-20S | 79' | 20 | 22 | OW-2-17 | 95' | 30 | 28 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 11/13/2012

| O ₂ Injection System #2 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|-------|------|------|
| Injection Bank D | | | | Injection Bank E | | | | Injection Bank F | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-18D | 95.5' | 35 | 32 | OW-2-22S | 76' | 30 | 19 | OW-2-26D | 95' | 30 | 31 |
| OW-2-19 | 96.1' | 40 | 30 | OW-2-24S | 77.8' | 35 | 25 | OW-2-27 | 93.5' | 30 | 29 |
| OW-2-20D | 96.6' | 40 | 30 | OW-2-26S | 74' | 40 | 19 | OW-2-28D | 92.1' | 35 | 29 |
| OW-2-21 | 96.6' | 40 | 29 | OW-2-28S | 76' | 30 | 21 | OW-2-29 | 92.2' | 30 | 28 |
| OW-2-22D | 96.3' | 30 | 28 | OW-2-30S | 67.8' | 30 | 18 | OW-2-30D | 88' | 30 | 28 |
| OW-2-23 | 97.2' | 30 | 30 | OW-2-34 | 71' | 40 | 20 | OW-2-31 | 86' | 40 | 27 |
| OW-2-24D | 97' | 40 | 29 | OW-2-35 | 69.2' | 40 | 21 | OW-2-32 | 84' | 40 | 29 |
| OW-2-25 | 96' | 30 | 29 | OW-2-36 | 64.8' | 35 | 21 | OW-2-33 | 82' | 30 | 35 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

| O ₂ Injection System #2 | | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------------------------|----------------------|-----|-----------------------|-------|-------------------------------------|------------------|-----------|
| Injection Bank G | | | | Injection Bank H | | | | Monitoring Points Log | | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | DTW | Oxygen Headspace (%O ₂) | DO (mg/L) Bottom | PID (ppm) |
| OW-2-37 | 62.8' | 30 | 20 | OW-2-45 | 61.1' | 30 | 22 | MP-2-1 | 29.38 | 24.5 | 2.48 | 0 |
| OW-2-38 | 62.1' | 30 | 19 | OW-2-46 | 61' | 30 | 19 | MP-2-2 | 30.55 | 17.7 | 3.15 | 0 |
| OW-2-39 | 60' | 40 | 18 | OW-2-47 | 60.5' | 30 | 19 | MP-2-3S | 30.52 | 20.3 | 2.95 | 0.1 |
| OW-2-40 | 61.7' | 30 | 20 | ID | DO (mg/L) Middle | DO (mg/L) Top | | MP-2-3D | 30.76 | 21.1 | 2.39 | 0 |
| OW-2-41 | 61.7' | 40 | 20 | MP-2-2 | 3.38 | 3.24 | | MP-2-4 | 19.29 | 22.4 | 2.08 | 0 |
| OW-2-42 | 61.6' | 40 | 19 | MP-2-3S | 2.70 | 2.89 | | MP-2-5 | 17.48 | 25.6 | 2.36 | 0 |
| OW-2-43 | 61.4' | 30 | 20 | MP-2-3D | 2.91 | 3.04 | | | | | | |
| OW-2-44R | 60.6' | 30 | 20 | MP-2-5 | 2.80 | 2.99 | | | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 11/13/2012

OPERATIONAL NOTES

GA5 Air Compressor

- | | | | | |
|--|-----------|----------|----------------|------------------------------|
| 1) Oil Level Checked with system unloaded* | Yes | <u>X</u> | No | _____ |
| * Unload system, wait until Delivery Air Pressure is less than 9 psi | | | | |
| 2) Oil Level with system unloaded | Low (red) | _____ | Normal (green) | <u>X</u> High (orange) _____ |
| 3) Oil added | Yes | <u>X</u> | No | _____ |
| 4) Oil changed | Yes | <u>X</u> | No | _____ |
| 5) Oil filter changed | Yes | <u>X</u> | No | _____ |
| 6) Air filter Changed | Yes | <u>X</u> | No | _____ |
| 7) Oil separator cleaned | Yes | <u>X</u> | No | _____ |
| 8) Terminal strips checked | Yes | <u>X</u> | No | _____ |

AS-80 O. Generator

- | | | | | |
|-----------------------|-----|----------|----|-------|
| 1) Prefilter changed | Yes | <u>X</u> | No | _____ |
| 2) Coalescing changed | Yes | <u>X</u> | No | _____ |

GENERAL SYSTEM NOTES

Trailer

- | | | | | |
|--|-------|----------|----|-------|
| 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) | Yes | <u>X</u> | No | _____ |
| 2) Abnormal conditions observed (e.g. vandalism) | _____ | | | |
| 3) Other major activities completed | _____ | | | |
| 4) Supplies needed | _____ | | | |
| 5) Visitors | _____ | | | |

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

On Monday, October 29, 2012, the area was impacted with a major hurricane, which knocked power out to the system. On Monday, November 5, 2012, we assessed the situation at the system and discovered that the power to the system had been resotred. However, the compressor and booster pump motor control starters were both tripped and needed to be manually reset to restart the system. In addition, the fan motor on the air dryer unit was found in overload and needs to be replaced. The system was restarted and was allowed to buildup pressure before the injections solenoids were reset and injections were restarted. Total down time for this alarm condition was approximately 7 days.

In addition to the power issues caused by the storm, the system shed doors and roof was damaged. Even with the doors deadbolted the pressure gradient caused by the storm ripped them open and broke the doors from the door jams. In addition, some shingles were blown off the roof. The major damage to the doors was repaired on November 8, 2012 and the system was secured.

Performed 12-month O&M on all equipment between 11-6-12 and 11-13-12.

Took apart air compressor and changed filters and cooling oil. Installed new belt on compressor. Cleaned out cooling canister of debris and emptied out oil and water from separator unit. Took apart auto drains on all units and cleaned out silt build up. Changed filters in water trap and replaced o-rings in unit. Flushed out oil building up in base of air separator unit and replaced filters. Greased all fittings on booster pump and changed belt. Changed all fresh air filters in shed. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas.

The threads on the bolt holes of monitoring points MP-2-1, MP-2-3D and MP-2-3S manholes can no longer be serviced and need to be replaced.

Electric Meter # 96-929-544 tied into Pole #3

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|-------------------|
| Date: | <u>11/29/2012</u> |
| Time: | <u>9:15</u> |
| Weather: | <u>Sunny</u> |
| Outdoor Temperature: | <u>~37° F</u> |
| Inside Trailer Temperature: | <u>~68° F</u> |
| Performed By: | <u>Mike Ryan</u> |

| O ₂ Generator (AirSep) | | Compressor (Kaesar Rotary Screw) | |
|--|-----------------------|--|-----------------------|
| Hours | <u>15,843</u> | Compressor Tank * | <u>105</u> (psi) |
| Feed Air Pressure * | <u>75</u> (psi) | (readings below are made from control panel) | |
| Cycle Pressure * | <u>60</u> (psi) | Delivery Air | <u>94</u> (psi) |
| Oxygen Receiver Pressure * | <u>110</u> (psi) | Element Outlet Temperature | <u>164</u> (°F) |
| Oxygen Purity | <u>93.7</u> (percent) | Running Hours | <u>15,975</u> (hours) |
| | | Loading Hours | <u>15,627</u> (hours) |
| * maximum reading during loading cycle | | * maximum reading during loading cycle | |

| O ₂ Injection System #2 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|--------|------|------|
| Injection Bank A | | | | Injection Bank B | | | | Injection Bank C | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-2 | 90.2' | 40 | 33 | OW-2-9S | 75' | 20 | 20 | OW-2-10D | 97.2' | 30 | 29 |
| OW-2-3 | 94.3' | 45 | 29 | OW-2-10S | 75' | 30 | 30 | OW-2-11D | 100.8' | 32 | 32 |
| OW-2-4 | 94.7' | 30 | 33 | OW-2-11S | 76.5' | 30 | 21 | OW-2-12 | 94' | 35 | 20 |
| OW-2-5 | 95.3' | 35 | 30 | OW-2-13S | 75' | 35 | 18 | OW-2-13D | 97' | 40 | 30 |
| OW-2-6 | 95.7' | 30 | 30 | OW-2-15S | 75' | 40 | 18 | OW-2-14 | 96.4' | 30 | 29 |
| OW-2-7 | 96' | 30 | 28 | OW-2-16S | 75.5' | 30 | 19 | OW-2-15D | 94.6' | 30 | 28 |
| OW-2-8 | 96.3' | 30 | 29 | OW-2-18S | 74.5' | 35 | 19 | OW-2-16D | 94.1' | 30 | 27 |
| OW-2-9D | 96.7' | 40 | 29 | OW-2-20S | 79' | 35 | 22 | OW-2-17 | 95' | 30 | 28 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 11/29/2012

| O₂ Injection System #2 | | | | | | | | | | | |
|--|--------------|-------------|------------|-------------------------|--------------|-------------|------------|-------------------------|--------------|-------------|-------------|
| Injection Bank D | | | | Injection Bank E | | | | Injection Bank F | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-18D | 95.5' | 40 | 32 | OW-2-22S | 76' | 20 | 18 | OW-2-26D | 95' | 25 | 30 |
| OW-2-19 | 96.1' | 30 | 28 | OW-2-24S | 77.8' | 20 | 19 | OW-2-27 | 93.5' | 35 | 29 |
| OW-2-20D | 96.6' | 30 | 31 | OW-2-26S | 74' | 30 | 19 | OW-2-28D | 92.1' | 45 | 27 |
| OW-2-21 | 96.6' | 30 | 29 | OW-2-28S | 76' | 40 | 19 | OW-2-29 | 92.2' | 40 | 26 |
| OW-2-22D | 96.3' | 35 | 27 | OW-2-30S | 67.8' | 25 | 17 | OW-2-30D | 88' | 30 | 25 |
| OW-2-23 | 97.2' | 50 | 27 | OW-2-34 | 71' | 30 | 19 | OW-2-31 | 86' | 30 | 25 |
| OW-2-24D | 97' | 40 | 32 | OW-2-35 | 69.2' | 30 | 26 | OW-2-32 | 84' | 30 | 36 |
| OW-2-25 | 96' | 35 | 29 | OW-2-36 | 64.8' | 30 | 19 | OW-2-33 | 82' | 30 | 33 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

| O₂ Injection System #2 | | | | | | | | | | | | |
|--|--------------|-------------|------------|-------------------------|-------------------------|----------------------|------------|------------------------------|------------|--|-------------------------|------------------|
| Injection Bank G | | | | Injection Bank H | | | | Monitoring Points Log | | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | DTW | Oxygen Headspace (%O₂) | DO (mg/L) Bottom | PID (ppm) |
| OW-2-37 | 62.8' | 30 | 19 | OW-2-45 | 61.1' | 30 | 22 | MP-2-1 | 29.61 | 23.1 | 2.72 | 0 |
| OW-2-38 | 62.1' | 30 | 18 | OW-2-46 | 61' | 30 | 19 | MP-2-2 | 30.47 | 18.5 | 2.53 | 0 |
| OW-2-39 | 60' | 30 | 17 | OW-2-47 | 60.5' | 30 | 19 | MP-2-3S | 30.81 | 21.1 | 3.33 | 0.3 |
| OW-2-40 | 61.7' | 40 | 18 | ID | DO (mg/L) Middle | DO (mg/L) Top | | MP-2-3D | 30.00 | 20.9 | 3.08 | 0.4 |
| OW-2-41 | 61.7' | 50 | 19 | MP-2-2 | 2.91 | 3.07 | | MP-2-4 | 19.53 | 26.1 | 2.39 | 0 |
| OW-2-42 | 61.6' | 50 | 18 | MP-2-3S | 2.98 | 3.46 | | MP-2-5 | 17.75 | 29.5 | 2.55 | 0 |
| OW-2-43 | 61.4' | 40 | 18 | MP-2-3D | 2.61 | 3.41 | | | | | | |
| OW-2-44R | 60.6' | 30 | 17 | MP-2-5 | 2.99 | 2.96 | | | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 11/29/2012

OPERATIONAL NOTES

GA5 Air Compressor

- | | | | | |
|--|-----------|----------|----------------|----------|
| 1) Oil Level Checked with system unloaded* | Yes | <u>X</u> | No | _____ |
| * Unload system, wait until Delivery Air Pressure is less than 9 psi | | | | |
| 2) Oil Level with system unloaded | Low (red) | _____ | Normal (green) | <u>X</u> |
| | | | High (orange) | _____ |
| 3) Oil added | Yes | _____ | No | <u>X</u> |
| 4) Oil changed | Yes | _____ | No | <u>X</u> |
| 5) Oil filter changed | Yes | _____ | No | <u>X</u> |
| 6) Air filter Changed | Yes | _____ | No | <u>X</u> |
| 7) Oil separator cleaned | Yes | _____ | No | <u>X</u> |
| 8) Terminal strips checked | Yes | <u>X</u> | No | _____ |

AS-80 O. Generator

- | | | | | |
|-----------------------|-----|-------|----|----------|
| 1) Prefilter changed | Yes | _____ | No | <u>X</u> |
| 2) Coalescing changed | Yes | _____ | No | <u>X</u> |

GENERAL SYSTEM NOTES

Trailer

- | | | | | |
|--|-------|----------|----|-------|
| 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) | Yes | <u>X</u> | No | _____ |
| 2) Abnormal conditions observed (e.g. vandalism) | _____ | | | |
| 3) Other major activities completed | _____ | | | |
| 4) Supplies needed | _____ | | | |
| 5) Visitors | _____ | | | |

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

On Thursday, November 15, 2012, a low pressure alarm occurred at 12:41 AM. The alarm was caused by a solenoid valve on one of the injection legs being stuck open. Upon further investigation it turns out that the electric coil that controls the valve burned out and needs to be replaced. We made a temporary repair by taking a valve off a injection bank that was not being used in System #1.

Soaked up a small amount of oil and water from separator for disposal. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas.

The threads on the bolt holes of monitoring points MP-2-1, MP-2-3D and MP-2-3S manholes can no longer be serviced and need to be replaced.

The fan motor in the air dryer unit is burned out and needs to be replaced.

The solenoid valve at the location that was temporarily replaced needs to be replaced with a new solenoid valve.

Since starting up all of the injections points, high pressure at the j-plugs has been noted at monitoring points MP-2-3S and MP-2-3D. This is a safety concern that has been previously mentioned and needs to be addressed.

Electric Meter # 96-929-544 tied into Pole #3

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

| | |
|-----------------------------|-------------------|
| Date: | <u>12/12/2012</u> |
| Time: | <u>13:27</u> |
| Weather: | <u>Sunny</u> |
| Outdoor Temperature: | <u>~57° F</u> |
| Inside Trailer Temperature: | <u>~75° F</u> |
| Performed By: | <u>Mike Ryan</u> |

| O ₂ Generator (AirSep) | | Compressor (Kaesar Rotary Screw) | |
|--|-----------------------|--|-----------------------|
| Hours | <u>16,061</u> | Compressor Tank * | <u>85</u> (psi) |
| Feed Air Pressure * | <u>100</u> (psi) | (readings below are made from control panel) | |
| Cycle Pressure * | <u>60</u> (psi) | Delivery Air | <u>110</u> (psi) |
| Oxygen Receiver Pressure * | <u>120</u> (psi) | Element Outlet Temperature | <u>171</u> (°F) |
| Oxygen Purity | <u>95.9</u> (percent) | Running Hours | <u>16,190</u> (hours) |
| | | Loading Hours | <u>15,817</u> (hours) |
| * maximum reading during loading cycle | | * maximum reading during loading cycle | |

| O ₂ Injection System #2 | | | | | | | | | | | |
|------------------------------------|-------|------|-----|------------------|-------|------|-----|------------------|--------|------|------|
| Injection Bank A | | | | Injection Bank B | | | | Injection Bank C | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-2 | 90.2' | 30 | 29 | OW-2-9S | 75' | 45 | 20 | OW-2-10D | 97.2' | 45 | 28 |
| OW-2-3 | 94.3' | 30 | 30 | OW-2-10S | 75' | 30 | 30 | OW-2-11D | 100.8' | 45 | 32 |
| OW-2-4 | 94.7' | 35 | 29 | OW-2-11S | 76.5' | 35 | 21 | OW-2-12 | 94' | 55 | 19 |
| OW-2-5 | 95.3' | 40 | 31 | OW-2-13S | 75' | 30 | 20 | OW-2-13D | 97' | 40 | 28 |
| OW-2-6 | 95.7' | 50 | 30 | OW-2-15S | 75' | 30 | 18 | OW-2-14 | 96.4' | 35 | 29 |
| OW-2-7 | 96' | 45 | 28 | OW-2-16S | 75.5' | 30 | 19 | OW-2-15D | 94.6' | 30 | 31 |
| OW-2-8 | 96.3' | 30 | 31 | OW-2-18S | 74.5' | 30 | 18 | OW-2-16D | 94.1' | 30 | 28 |
| OW-2-9D | 96.7' | 30 | 29 | OW-2-20S | 79' | 30 | 22 | OW-2-17 | 95' | 35 | 30 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 12/12/2012

| O₂ Injection System #2 | | | | | | | | | | | |
|--|--------------|-------------|------------|-------------------------|--------------|-------------|------------|-------------------------|--------------|-------------|-------------|
| Injection Bank D | | | | Injection Bank E | | | | Injection Bank F | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | Depth | scfh | scfh |
| OW-2-18D | 95.5' | 40 | 31 | OW-2-22S | 76' | 40 | 19 | OW-2-26D | 95' | 30 | 29 |
| OW-2-19 | 96.1' | 45 | 30 | OW-2-24S | 77.8' | 30 | 25 | OW-2-27 | 93.5' | 30 | 28 |
| OW-2-20D | 96.6' | 30 | 31 | OW-2-26S | 74' | 30 | 19 | OW-2-28D | 92.1' | 30 | 27 |
| OW-2-21 | 96.6' | 30 | 29 | OW-2-28S | 76' | 30 | 20 | OW-2-29 | 92.2' | 45 | 27 |
| OW-2-22D | 96.3' | 30 | 28 | OW-2-30S | 67.8' | 30 | 16 | OW-2-30D | 88' | 55 | 26 |
| OW-2-23 | 97.2' | 35 | 30 | OW-2-34 | 71' | 35 | 19 | OW-2-31 | 86' | 65 | 31 |
| OW-2-24D | 97' | 30 | 29 | OW-2-35 | 69.2' | 40 | 20 | OW-2-32 | 84' | 60 | 34 |
| OW-2-25 | 96' | 35 | 30 | OW-2-36 | 64.8' | 30 | 19 | OW-2-33 | 82' | 40 | 33 |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

| O₂ Injection System #2 | | | | | | | | | | | | |
|--|--------------|-------------|------------|-------------------------|-------------------------|----------------------|------------|------------------------------|------------|--|-------------------------|------------------|
| Injection Bank G | | | | Injection Bank H | | | | Monitoring Points Log | | | | |
| ID | Depth | scfh | psi | ID | Depth | scfh | psi | ID | DTW | Oxygen Headspace (%O₂) | DO (mg/L) Bottom | PID (ppm) |
| OW-2-37 | 62.8' | 30 | 20 | OW-2-45 | 61.1' | 30 | 20 | MP-2-1 | 29.76 | 24.7 | 2.59 | 0 |
| OW-2-38 | 62.1' | 30 | 19 | OW-2-46 | 61' | 30 | 18 | MP-2-2 | 30.86 | 17.5 | 3.05 | 0 |
| OW-2-39 | 60' | 30 | 17 | OW-2-47 | 60.5' | 30 | 19 | MP-2-3S | 30.95 | 19.3 | 3.80 | 0.6 |
| OW-2-40 | 61.7' | 30 | 20 | ID | DO (mg/L) Middle | DO (mg/L) Top | | MP-2-3D | 31.02 | 40.6 | 3.06 | 0.9 |
| OW-2-41 | 61.7' | 35 | 19 | MP-2-2 | 3.26 | 3.70 | | MP-2-4 | 19.69 | 20.9 | 1.89 | 0 |
| OW-2-42 | 61.6' | 30 | 17 | MP-2-3S | 3.61 | 3.83 | | MP-2-5 | 17.89 | 20.9 | 2.57 | 0 |
| OW-2-43 | 61.4' | 30 | 20 | MP-2-3D | 3.33 | 3.58 | | | | | | |
| OW-2-44R | 60.6' | 35 | 20 | MP-2-5 | 2.78 | 2.88 | | | | | | |

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

