From: Morris, Christopher
To: Spellman, John (DEC)
Cc: Mitchell, Jonathan; Johansen, Tom; Parillo, Jeff; Quinlan, Michael
Subject: Hempstead Intersection Street former MGP site (No. 1-30-086) Periodic Review Report
Date: Monday, April 26, 2021 2:51:24 PM

John,

On behalf of Mike Quinlan of National Grid, the Periodic Review Report for the Hempstead Intersection Street former MGP site for the period between March 28, 2020 and March 28, 2021 can be accessed using the following Sharefile link:

https://geiconsultants.sharefile.com/d-s1f7301350f444213939e595946dd78d0

Please let me or Mike know if you have any questions.

We have moved - please note our new address.

GEI50

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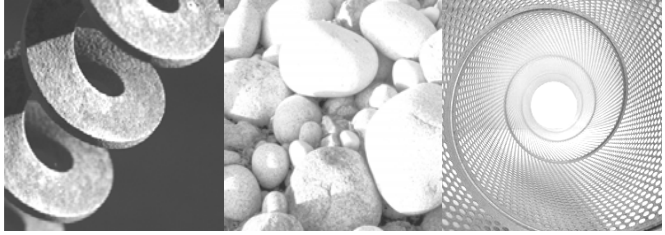

GEI Consultants

Consulting
Engineers and
Scientists

Periodic Review Report
March 28, 2020 – March 28, 2021

Hempstead Intersection Street Former MGP Site

Town of Hempstead, Nassau County, New York
Site ID #1-30-086

Submitted to:
National Grid USA
175 East Old Country Road
Hicksville, NY 11801

Submitted by:
GEI Consultants, Inc., P.C.
1000 New York Avenue
Huntington Station, NY 11746
631-760-9300

April 2021
Project 1905774

Christopher Morris, P.G.
Project Manager

Jeffrey Parillo, P.E.
Senior Engineer

Table of Contents

Tables

Figures

Appendices

A. NYSDEC Correspondence
B. Inspection Form
C. Data Usability Summary Reports
D. Oxygen System Operations & Maintenance Measurements
E. Institutional and Engineering Controls Certification Form

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Abbreviations, Acronyms, and Measurements

AWQS	Ambient Water Quality Standard or Guidance Value
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
CAMP	Community Air Monitoring Plan
CFR	Code of Federal Regulations
DER	Division of Environmental Remediation
DNAPL	Dense Non-Aqueous Phase Liquid
DO	Dissolved Oxygen
DUSR	Data Usability Summary Report
EC	Engineering Control
ECL	Environmental Conservation Law
ELAP	Environmental Laboratory Accreditation Program
EWP	Excavation Work Plan
GEI	GEI Consultants, Inc., P.C.
HASP	Health and Safety Plan
IC	Institutional Control
IRM	Interim Remedial Measure
ISS	In-Situ Solidification
LIRR	Long Island Railroad
MGP	Manufactured Gas Plant
NAPL	Non-Aqueous Phase Liquid
National Grid	National Grid NY
NYCRR	New York Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
PRR	Periodic Review Report
PAH	Polycyclic Aromatic Hydrocarbon
POB	Professional Office Building
ROW	Right-of-Way
Site	National Grid Former Hempstead MGP
SMP	Site Management Plan
SVI	Soil Vapor Intrusion
USEPA	United States Environmental Protection Agency
VGC	Village of Garden City

Measurements

bgs	below ground surface
cy	cubic yards

ft	feet
mg/L	milligrams per liter
µg/L	micrograms per liter

Periodic Review Report Certification Statement

I, Jeffrey Parillo, certify that I am currently a New York State registered professional engineer and that this Periodic Review Report and all attachments were prepared under my direction. To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the Site remedial program, and generally accepted engineering practices; and that the information presented is accurate and complete.

For each institutional or engineering control identified for the Site, I certify that all the following statements are true:

a) the institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by DER.

b) nothing has occurred that would impair the ability of such control to protect public health and the environment.

c) nothing has occurred that would constitute a violation or failure to comply with any Site Management Plan for this control.

d) access to the Site will continue to be provided to DER to evaluate the remedy, including access to evaluate the continued maintenance of this control.

April 26, 2021
Date

Jeffrey Parillo, P.E.
GEI Consultants, Inc., P.C.
New York State Professional Engineer
License Number 0118801

It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

1. Introduction

This Periodic Review Report (PRR) was prepared by GEI Consultants, Inc., P.C. on behalf of National Grid NY (National Grid) to present the scope and results of the post-remediation monitoring activities conducted between March 28, 2020 and March 28, 2021 at the Former Hempstead Intersection Manufactured Gas Plant (MGP) site (the Site) located in Hempstead, New York. This PRR for this Site (NYSDEC Site #130086) is prepared in accordance with the requirements of the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER) guidance document DER-10, Technical Guidance for Site Investigation and Remediation (NYSDEC, 2010) and the Site Management Plan (SMP) (URS, 2017) for the Site. The 2020-2021 monitoring activities were conducted to evaluate the on-going performance and effectiveness of the Engineering Controls (ECs) and Institutional Controls (ICs) at the Site and in off-Site areas and consisted of the following:

- Monthly non-aqueous phase liquid (NAPL) monitoring and recovery at monitoring well HIMW-21.
- Quarterly oxygenation system monitoring. On October 24, 2019, the NYSDEC approved changing the frequency of the groundwater treatment performance monitoring of dissolved oxygen (DO) from monthly to quarterly. DO sampling was conducted in September and December 2020, as well as March 2021. DO sampling was not conducted during Q2 2020 due to the COVID-19 work restrictions imposed by New York State (Executive Order 202.6).
- Semi-annual groundwater monitoring in September/October 2020 and March 2021.
- Annual Site-wide inspection in March 2021.

Additional activities conducted during the current PRR period included:

- Quarterly Site checks.
- Monitoring well box modifications and resurveying

The 2020-2021 monitoring activities were performed in accordance with the NYSDEC-approved Site Management Plan (SMP; URS, 2017) and subsequent modifications. These included 2019-2020's reduction to the groundwater sampling frequency and the inclusion of the sampling results in the PRR in lieu of the annual report formerly titled "*Annual*

Groundwater Sampling, NAPL Monitoring/ Recovery and Groundwater Treatment Performance Report" (National Grid 2018), and the modifications to the dissolved oxygen sampling program (Dissolved Oxygen Modification Request; National Grid 2019). The above-referenced modifications were approved by the NYSDEC on June 1, 2018 and October 24, 2019, respectively. The NYSDEC correspondence regarding the modification approvals are provided in **Appendix A**.

1.1 Site Location and Description

National Grid's corporate predecessor, KeySpan Corporation, entered into an Order on Consent (#D1-0001-98-11) with the NYSDEC to investigate and remediate MGP-related residuals at the Site and surrounding areas in the Villages of Hempstead and Garden City, in the Town of Hempstead, Nassau County, New York. The Site is generally bounded by Second Street to the north, an inactive Long Island Railroad (LIRR) Right-of-Way (ROW) to the east, Intersection Street to the south, and a Village of Garden City (VGC) municipal property to the west which contains a public parking lot, two public water supply wells, and a recharge basin that is used to service the water supply wells (**Fig. 1 and 2**). The area immediately surrounding the Site is developed with residential and commercial properties. The Site includes an active natural gas regulator station in the northwest corner of the property, storage areas used by National Grid and its contractors, and a storage area for new cars that is leased to a car dealership.

In addition to the Site, the following off-Site areas were subjected to soil remediation via excavation removal/backfill and in situ solidification (ISS):

- The VGC municipal property that is adjacent to and west of the Site.
- The parking lot of the Plaza 230 Professional Office Building (POB) that is south of the Site.
- Intersection Street ROW that is between the Site and the POB parking lot.
- The inactive LIRR ROW that is adjacent to and east of the Site.
- Oswego Oil Storage Terminal that is just north of Intersection Street and east of the Site.

These off-Site Areas are shown in **Fig. 2** and the Site and adjacent parcels are identified by the Section, Block, and Lot numbers in **Fig. 3**. Additional off-Site remedial activities include the installation and operation of two oxygenation systems that treat groundwater through oxygen delivery to the subsurface, the installation and sampling of monitoring wells located throughout the project area and the recovery of dense non-aqueous phase liquid (DNAPL).

1.2 Remedial Chronology

National Grid has performed two interim remedial measures (IRMs) and two remedial actions (one off-Site and one on-Site), which are summarized below.

- A "cut and plug" IRM was conducted in 1999 and 2000. Underground piping associated with historic MGP operations was located, cut, drained of any fluids, and plugged to limit the potential for any off-Site migration of MGP-related constituents.

- A second IRM was implemented in 2008 to excavate shallow MGP source materials from the Site and to recover DNAPL from groundwater. A total of 4,432 cubic yards (cy) of MGP-impacted soil and construction/demolition debris was transported to a licensed facility for off-Site treatment and disposal. MGP-impacted liquid (9,493 gallons) was containerized and transported to a licensed facility for off-Site treatment and disposal.

- As part of an off-Site remedial action remedial action, National Grid installed two groundwater oxygenation systems downgradient of the Site (see **Fig. 4**). These systems are components of the full Site-wide remedy and inject oxygen to the downgradient groundwater plume. The primary objective of the off-Site groundwater oxygenation systems is to increase the level of DO in the groundwater to encourage aerobic bioremediation of organic contaminants. As contaminated groundwater flows through the treatment areas, the increased DO accelerates the rate at which the dissolved contaminant mass is bioremediated and the contaminant concentrations in groundwater decrease. System #1 was brought on-line in April 2011 and is located immediately south of the Site and runs generally east-west from Hilton Avenue to Sealy Avenue, in a neighborhood that includes residential and light commercial spaces, as well as a portion of the LIRR ROW. System #2 was brought on-line in October 2010 and is located in a primarily residential neighborhood about 500 ft to the south of System #1, running from Mirschel Park to Kensington Court.

- The on-Site remedial action (including portions of adjacent parcels as described in Section 1.1) was completed between 2011 and 2016 and included an excavation and ISS remedy addressing MGP source material on the Site and adjacent off-Site areas. Elements of the remedial action included:

    1. Excavation of MGP structures and shallow targeted MGP-impacted soil from the Site and treatment/disposal off-Site.
    2. Excavation of shallow clean soil and stockpile for later backfill.

3. Solidification of deeper targeted MGP source material beneath the Site using ISS.
4. Construction of an approximately 15-ft deep subsurface soil-crete retaining wall in the POB parking lot and in portions of Wendell Street and Intersection Street. The soil-crete wall consisted of soil mixed with a cement-based grout to provide concrete-like properties.
5. Excavation to approximately 15 ft below ground surface (bgs) within the soil-crete wall and stockpiling/reuse clean overburden soils and then solidification of deeper targeted MGP source material.
6. Solidification of targeted MGP source material in the VGC municipal property and the Oswego Oil Storage Terminal property.
7. Coverage of solidified material, known as a cover system, with approximately four feet of clean soil. Surface cover materials to prevent contact with solidified materials and remaining untreated contaminated soil at the Site and adjacent off-Site areas are as follows:
    - National Grid Property:
        - New York State Department of Transportation (NYSDOT) select stone cover (4 inches thick) in disturbed/work areas.
        - Asphalt pavement (for access roads and asphalt parking).
        - Select stone-lined swale (4 inches thick).
    - VGC Municipal Property:
        - Asphalt pavement (access roads and asphalt parking).
        - Landscaped area including:
            - Topsoil and grass vegetation.
            - Landscape strips with topsoil (6-inches)/grass, shrubs, and trees.
    - Wendell Street, Intersection Street, and Wydler Place:
        - Asphalt cover with concrete curbs, adjacent topsoil (6 inches)/grass strips, concrete sidewalks, and trees.
    - POB Parking Lot:
        - Asphalt paving.

  - Curbed decorative gravel islands with trees.
- Oswego Oil Storage Terminal area where ISS was completed:
  - Four inches of asphaltic concrete on top of 4 inches of subbase course.

2. Institutional Control/Engineering Control (IC/EC) Plan Compliance

Since solidified material and remaining impacted soil and groundwater exists beneath the Site and in some off-Site areas, ICs and ECs exist to protect human health and the environment. The SMP includes provisions to protect human health and the environment from groundwater contamination in addition to managing the remaining soil contamination. The intent of this section is to provide a description of the IC/ECs in place for the Site and off-Site areas, the objective and status of each IC/EC, as well as to provide a mechanism used to monitor and enforce ICs and ECs, where appropriate.

2.1 Institutional Controls

A series of ICs is required by the Decision Document to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to MGP-related residuals by controlling disturbances of the subsurface contamination; and (3) limit the use and development of the Site to restricted residential use, as indicated in the Environmental Easement unless other future uses are approved by the NYSDEC. These ICs are as follows:

- Compliance with the Environmental Easement by the Grantor and the Grantor's successors and assigns with all elements of the SMP.
- Compliance with the Access Agreement.
- All ECs must be operated and maintained as specified in the SMP by National Grid.
- All ECs must be inspected and certified by National Grid or a contractor of National Grid at a frequency and in a manner defined in the SMP.
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP.
- Data and information pertinent to site management must be reported by National Grid at the frequency and in a manner defined in the SMP.
- Site and off-Site area environmental monitoring including but not limited to, groundwater monitoring wells and oxygen injection points, must be maintained to ensure continued functioning in the manner specified in the SMP.

ICs may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

The Site has a series of ICs in the form of restrictions. Adherence to these ICs is required by the Environmental Easement on the Site. Restrictions that apply to the Site and off-Site areas as indicated below are as follows:

- Use of the Site is approved for restricted residential use. Any specific future development must comply with local laws and regulations.

- Use of groundwater underlying the Site or the other properties that were subjected to soil remediation via excavation removal/backfill and ISS (as described in Section 1.1) is prohibited without treatment to ensure it is safe for the intended use.

- All future activities on the Site or surrounding areas that were subjected to soil remediation via excavation removal/backfill and ISS that will disturb contaminated and/or solidified material must not be conducted unless they are conducted in accordance with the SMP and accompanying Excavation Work Plan (EWP).

- Implementation of a Health and Safety Plan (HASP) and EWP prior to any ground intrusive activity including but not limited to utility work, boring completion, monitoring well installation, and excavation; with the exception of normal landscaping (to a maximum of 24 inches below ground surface or top of the groundwater table, whichever is shallower).

- The potential for vapor intrusion must be evaluated for any new buildings proposed on the Site or at off-Site areas that were subjected to soil remediation via excavation removal/backfill and ISS, and any potential impacts that are identified must be monitored or mitigated.

- Written notification at least 60 days in advance for changes in use at the Site or to off-Site areas that were subjected to soil remediation via excavation removal/ backfill and ISS must be submitted to NYSDEC as per Part 375 and DER-10.

- Vegetable gardens and farming on the Site are prohibited.

- National Grid will submit to NYSDEC a written statement that certifies that: (1) controls employed at the Site are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and (2) nothing has occurred that impairs the ability of the controls to protect public health and

environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Site at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2.2 Engineering Controls

The SMP lists the following ECs:

- Cover system.
- DNAPL monitoring and recovery.
- Operation of groundwater oxygenation systems.

A description of each of the ECs is provided below. Monitoring activities are discussed in subsequent sections.

2.2.1 Cover System

Contact with MGP-related residuals in soil and solidified material at the Site and adjacent off-Site areas is prevented by multiple cover systems. Locations of the various cover systems are provided in the SMP. The cover systems, exclusive of any underlying fill that was described earlier in Section 1.2, are comprised of asphalt pavement, concrete sidewalks, concrete slabs, select stone (gravel), or vegetated topsoil.

2.2.2 DNAPL Monitoring & Recovery

DNAPL is gauged monthly from one well in the off-Site area (HIMW-21). Recovery is conducted when DNAPL thickness reaches approximately 2.5 ft, which is significantly less than the 10-ft sump installed in the well. The collected DNAPL is transferred to a collection drum stored on-Site, and properly disposed of off-Site.

2.2.3 Oxygenation Systems

Remediation of the dissolved phase groundwater plume is addressed through the continued operation of the oxygenation treatment systems. Oxygen delivery is comprised of systems that deliver oxygen to the groundwater at rates determined to be sufficient to maintain aerobic conditions in the aquifer. Aerobic conditions allow naturally occurring bacteria to oxidize and break down contaminants into water and carbon dioxide. Systems are inspected on a monthly basis. During each monthly inspection, repairs and routine operation and

maintenance activities are performed. The dissolved oxygen levels are measured quarterly in monitoring wells installed adjacent to the delivery points to confirm that aerobic conditions are present.

System No. 1 was brought on-line in April 2011 and is located immediately south of the Site and runs generally east-west from Hilton Ave to the west to Sealy Ave to the east, in a neighborhood that includes residential and light commercial spaces, as well as a portion of the LIRR ROW. System No. 2 was brought on-line in October 2010 and is located in a primarily residential neighborhood about 500 ft to the south of System No. 1, running from Mirschel Park to the east to Kensington Court to the west. The location of the system is shown in **Fig. 4**.

2.3 IC/EC Plan Evaluation

The following Plans are applicable at the Site or to off-Site areas that were subjected to soil remediation via excavation removal/backfill and ISS, as outlined in the SMP.

2.3.1 Excavation Work Plan

Any future intrusive work (e.g., through drilling, trenching, excavation) that will penetrate, encounter or disturb the cover systems, or encounter or disturb solidified material and/or MGP-related residuals including any modifications or repairs to the existing cover systems, will be performed in compliance with the EWP included as Appendix B of the SMP. Should the monolith be breached, removed monolith material will be disposed off-Site as contaminated material, and provisions will be made to avoid ponding on the breached monolith surface. Adherence to these ICs on the Site is required by the Environmental Easement and will be implemented under the SMP.

Any work conducted pursuant to the EWP must also be conducted in accordance with a HASP and Community Air Monitoring Plan (CAMP) prepared for the Site, in accordance with DER-10, 29 Code of Federal Regulations (CFR) 1910, 29 CFR 1926, and all other applicable Federal, State and local regulations. Any intrusive construction work will be performed in compliance with the EWP, HASP and CAMP, and will be included in the periodic inspection and certification reports submitted under the SMP.

The affected property owner(s) and the contractor performing the excavation work are completely responsible for the safe performance of all invasive work, the structural integrity of excavations, the identification of any buried utilities within the excavation area and for structures that may be affected by excavations (such as building foundations and footings), and control of runoff from open excavations onto solidified material and/or MGP-related residuals. In addition, the property owner(s) will ensure that site development activities will not interfere with, or otherwise impair or compromise, the ECs described in the SMP.

2.3.2 Soil Vapor Intrusion Evaluation

Prior to the construction of any new enclosed structures on the Site or to off-Site areas that were subjected to soil remediation via excavation removal/backfill and ISS, a soil vapor intrusion (SVI) evaluation will be performed to determine whether any mitigation measures are necessary to eliminate potential exposure to vapors in the proposed structure. The design of a new building foundation will also be considered in this type of evaluation. Alternatively, an SVI mitigation system and/or vapor barrier can be installed as an element of the building foundation without first conducting an investigation. The mitigation system would potentially include a vapor barrier and passive sub-slab venting system that is capable of being converted to an active system.

Prior to conducting an SVI investigation or installing a mitigation system, a work plan would be developed and submitted to the NYSDEC and New York State Department of Health (NYSDOH) for approval. This work plan would be developed in accordance with the most recent NYSDOH "Guidance for Evaluating Vapor Intrusion in the State of New York." Measures to be employed to mitigate potential vapor intrusion will be evaluated, selected, designed, installed, and maintained based on the SVI evaluation, the NYSDOH guidance, and construction details of the proposed structure.

2.3.3 Contingency Plan

The SMP includes a Contingency Plan to respond to emergencies including injury to personnel, fire or explosion, environmental release, or serious weather conditions. In the event of any emergency, the procedures detailed in the Contingency Plan Section of the SMP will be followed.

No emergencies occurred during the reporting period that required implementation or modification of the Contingency Plan.

2.3.4 Corrective Measures Plan

If any component of the remedy is found to be compromised, or if the periodic certification cannot be provided due to an issue with an institutional or engineering control, a Corrective Measures Plan will be submitted to the NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the Corrective Measures Plan until it is approved by the NYSDEC.

As no component of the remedy was found to be compromised during the reporting period, a Corrective Measures Plan was not required.

2.4 Inspections and Notifications

2.4.1 Inspections

Inspections of all remedial components and all ECs present at the Site and off-Site areas will be conducted at the frequency specified in the SMP Monitoring Plan schedule. A comprehensive Site-wide inspection will be conducted annually, regardless of the frequency of the Periodic Review Report. The inspections will determine and document the following:

- Whether ECs continue to perform as designed.
- If these controls continue to be protective of human health and the environment.
- Compliance with requirements of the SMP and the Environmental Easement/Access Agreement.
- Achievement of remedial performance criteria for groundwater.
- Sampling and analysis of appropriate media during monitoring events.
- If Site records are complete and up to date.
- Changes, or needed changes, to the ECs.

Inspections will be conducted in accordance with the procedures set forth in the SMP.

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the Site by a qualified environmental professional will be conducted within five days of the event to verify the effectiveness of the EC/ICs implemented at the Site or off-Site areas. If there are observed issues they will be documented.

2.4.2 Notifications

The following notifications will be submitted by the owner(s) of the properties subject to remediation (excavation and ISS) to National Grid and the NYSDEC as needed for the following reasons:

- 60-day advance notice of any proposed changes in property use that are required under the terms of the Order on Consent, 6 NYCRR Part 375, and/or Environmental Conservation Law (ECL).
- 15-day advance notice of any proposed ground-intrusive activities pursuant to the EWP.

- Notice within 48 hours of any damage or defect to the foundations or structures that reduces or has the potential to reduce the effectiveness of other ECs and likewise any action to be taken to mitigate the damage or defect.

- Notice within 48 hours of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the Site of in off-Site areas, including a summary of actions taken, or to be taken, and the potential impact to the environment and the public.

- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to National Grid and the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs.

National Grid will review and provide comments as appropriate on all planned ground-intrusive activities proposed on properties located within the limits of the areas covered by SMP. National Grid must have a full-time representative on-site per the Order on Consent during any ground-intrusive work activities and document compliance with the SMP.

Any change in the ownership of the properties subjected to remediation or the responsibility for implementing the SMP will include the following notifications:

- At least 60 days prior to the change, National Grid and the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the SMP, Access Agreement, and all approved work plans and reports.

- Within 15 days after the transfer of all or part of the property, the new owner's name, contact representative, and contact information will be confirmed in writing.

3. Monitoring Plan Activities and Compliance

3.1 Monitoring Plan Description

The Monitoring Plan is designed to evaluate the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site or in off-Site areas. The plan includes monitoring procedures for the three ECs and affected Site media. The monitoring program schedule and requirements are provided in **Tables 1** and **2**, respectively. The Monitoring Plan may only be revised with the approval of NYSDEC.

3.2 Site Inspections and Cover System Monitoring

An annual Site-wide inspection is required to ensure that the cover system continues to be effective at preventing direct exposure to residual contamination throughout the Site and affected off-Site areas. Inspections of remedial components will also be conducted when a breakdown of any component has occurred or whenever a severe condition has taken place, such as an erosion or flooding event that may affect the ECs.

The inspection will facilitate the compilation of sufficient information to assess the following:

- Whether ECs continue to perform as designed.
- If these controls continue to be protective of human health and the environment.
- Compliance with requirements of the SMP and the Environmental Easement/Access Agreement.
- Achievement of remedial performance criteria for groundwater.

No impacts or disturbances to the cover system were observed during the reporting period. GEI performed the annual Site-wide inspection on March 5, 2021. Since the ISS monolith is at least 4 ft below ground surface and is overlain by the soil backfill and cover, monitoring of the cover has been deemed sufficient for ISS monolith inspection.

In addition, GEI accessed the Site and off-Site areas monthly or quarterly (at a minimum) and no disturbances to the cover system were noted. The annual Site-wide inspection was documented on the inspection form presented in **Appendix B**.

Portions of the Site are being used for storage by National Grid and (through a lease) the adjacent automobile dealer through 2023. However, these uses have not impacted the surface cover integrity and its surfaces and thicknesses.

3.3 Reporting Period Monitoring

DNAPL and groundwater monitoring were conducted during the reporting period. Monitoring dates and other relevant information are provided in this section. DNAPL gauging and/or collection was performed at well HIMW-21 on:

- April 24, 2020
- May 15, 2020
- June 16, 2020
- July 14, 2020
- August 12, 2020
- September 17, 2020
- October 26, 2020
- November 23, 2020
- December 16, 2020
- January 19, 2021
- February 25, 2021
- March 25, 2021

3.3.1 Groundwater

Groundwater monitoring events consisting of depth-to-groundwater measurements and groundwater sampling are currently conducted semi-annually. On June 1, 2018, NYSDEC approved reducing the frequency of groundwater sampling from quarterly to semi-annually. **Table 2** lists the wells that are gauged for water level and presence of NAPL and/or sampled. Each groundwater sample is analyzed by a NYSDOH Environmental Laboratory Accreditation Program (ELAP) certified laboratory for benzene, toluene, ethylbenzene, and xylenes (BTEX) United States Environmental Protection Agency (USEPA) Method SW8260C and polycyclic aromatic hydrocarbon (PAHs) by USEPA Method SW8270D.

Groundwater sampling was performed at 30 wells on the following dates:

- Q3 2020 - September 14, 15, 16, 17, and 18, 2020 and October 6, 2020
- Q1 2021 - March 1, 2, 3, 4, and 5, 2021

Depth-to-groundwater measurements were taken from all accessible wells during each monitoring event identified above.

Data Usability Summary Reports (DUSRs) for groundwater samples collected in September and October 2020 and March 2021 are included as **Appendix C**.

3.4 Summary of Monitoring Results

The results of the depth-to-water measurements and NAPL gauging events for Q3 2020 and Q1 2021 are presented in **Tables 3** and **4**, respectively. The results of the DNAPL recovery from HIMW-21 are presented in **Table 5**. The results of the groundwater sampling analyses are presented in **Table 6** and in **Figs. 5** and **6**. Groundwater contour maps for the three depth zones for each sampling event are presented in **Figs. 7** through **12**.

During the reporting period, monitoring well HIMW-21 was gauged monthly for the presence of DNAPL. A total of approximately 7.1 gallons of DNAPL were recovered during the reporting period during four recovery events (August 12 and December 16, 2020 and January 19 and March 25, 2021). DNAPL recovery is performed in HIMW-21 when the measured thickness is greater than 2.5 ft, which is significantly below the sump length of 10 ft. HIMW-21 is the only remaining monitoring well with observed DNAPL.

Groundwater at the Site and at off-Site areas was determined to flow in a generally southerly direction. This is consistent with previous sampling events.

Exceedances of the NYSDEC Ambient Water Quality Standards (AWQS) were observed in five wells during the September and October 2020 and four wells during the March 2021 sampling event. The exceedances included BTEX compounds and select PAHs (acenaphthene and naphthalene) which were identified upgradient of Treatment System #1. No exceedances of the AWQS were identified downgradient of Treatment System #1.

The configuration of the plume as defined by concentrations of BTEX or PAHs above 100 µg/L was generally similar in the two sampling events conducted during the current PRR period (**Figs. 5** and **6**). The plume was slightly narrower in width in the March 2021 sampling event due to significant reductions in monitoring well HIMW-26D. The data collected from the September and October 2020 and March 2021 sampling events show the plume has been reduced from previous sampling events, where it was shown to extend beyond Oxygenation System #1 (System #1). These reductions are likely due to the more consistent operation of System #1 during the current reporting period. The elevated concentrations of BTEX (650.5 µg/L) and PAHs (1,688.6 µg/L) previously detected in monitoring well HIMW-24 during the September 2018 sampling event were significantly reduced in subsequent sampling events and were non-detect in the September and October 2020 and March 2021 sampling events.

The remaining wells with elevated (>100 µg/L) concentrations of BTEX or PAHs upgradient of Treatment System #1 during the reporting period include HIMW-05I, HIMW-05D, HIMW-26D, HIMW-27S, and HIMW-28S. Remaining wells with concentrations above 1,000 µg/L were limited to PAH's in wells HIMW-05I, HIMW-05D, and HIMW-27S in at least one sampling event during the reporting period. Concentration trends in HIMW-26D

have generally been decreasing during the reporting period, while concentrations in HIMW-05I, HIMW-05D and HIMW-28S have been generally increasing, although all remained within their historical concentration range. The concentrations in HIMW-27S and HIMW-28S have been relatively stable.

The DO monitoring points near both System #1 and Oxygenation System #2 (System #2) were monitored quarterly. The DO concentrations have generally remained elevated as shown by the readings from April 2020 through March 2021 that are presented in **Table 7**. The DO concentrations downgradient of the two systems are shown in **Figs. 13** and **14**. Further discussion of the DO concentrations and the effectiveness of the oxygenation systems is provided in Section 4. The groundwater treatment system performance data for the above-referenced period is included as **Appendix D**.

Potentiometric heads and NAPL thickness measurements for September 2020 and March 2021 are presented in **Tables 3** and **4**, respectively. Potentiometric surface maps for shallow, intermediate, and deep groundwater zones were developed using this data and are shown in **Figs. 7** through **12** for the three monitoring events conducted during the reporting period. The data indicate that the direction of groundwater flow within the well field was south for shallow, intermediate, and deep-water bearing zones.

3.5 Well Box Replacement and Monitoring Well Survey

Several wells with damaged well boxes were repaired and resurveyed during the reporting period.

4. Operation and Maintenance Activities and Compliance

4.1 Oxygenation System Description

There are two oxygenation systems installed to enhance the groundwater oxygen concentrations in the groundwater plume (**Fig. 4**). The aerobic conditions allow bacteria to biologically degrade dissolved hydrocarbons, including BTEX and PAHs. System #1 is located along Smith Street, a portion of the LIRR ROW, and a portion of Hilton Avenue and began operation in April 2011. System #2 extends from Mirschel Park in the east to Kensington Court in the west and began operation in October 2010.

In May 2011, soon after the start-up of the two systems, the dissolved phase groundwater plume extended approximately 2,000 ft to the south of the Site, as shown in **Fig. 15** and extended over 3,600 ft prior to the implementation of remedial activities. The plume boundaries were defined by total BTEX and/or total PAH concentrations greater than 100 µg/L. The locations and depths of the injection wells are presented in **Figs. 16** and **17** for Systems #1 and #2, respectively.

4.2 Operational Summary

Overall, the system operated efficiently during the reporting period with the exceptions noted below.

System #1 was not operational from September 26, 2020 to September 28, 2020 due to a power outage and from February 2, 2021 to March 1, 2021 due to a hose leak on the compressor that had to be replaced. The extended downtime was due to lead time to acquire the new hose.

System #2 was not operational for a total of 18 days in July, August, and September 2020 due to multiple power outages; approximately nine days in October and December 2020 due to power outages and a frozen dryer; and approximately 18 days in January, February, and March 2021 due to a frozen dryer.

A total of nine oxygen delivery wells (three in System #1 and five in System #2) have been taken offline due to low pressure which could be indicative of a leak within the delivery line or injection well head. Since the system has been successful at maintaining aerobic conditions within the aquifer and no rebound of contaminants have been noted in

groundwater, repairs to the oxygen delivery wells that are currently off are unnecessary at this time.

4.3 Summary of Oxygen Level Measurements

DO levels were measured quarterly for this reporting period, excluding Q2 2020 in which monitoring was not performed due COVID-19 work restrictions imposed by New York State. On October 24, 2019, the NYSDEC approved the change of monitoring frequency from monthly to quarterly. The monitoring locations are shown in **Figs. 16 and 17**.

The dissolved oxygen concentrations in wells downgradient of System #1 averaged between 10.7 milligrams per liter (mg/L) in Q1 2021 to a high of 25.8 mg/L during Q3 2020, with a cumulative average of 17.9 mg/L during the reporting period. The dissolved oxygen concentrations in wells downgradient of System #2 averaged between 11.5 mg/L in Q1 2021 to a high of 20.0 mg/L during Q3 2020, with a cumulative average of 16.1 mg/L during the reporting period. The Q1 2021 results in wells downgradient of System #1 and System #2 were below average for the reporting period possibly due to the downtime detailed above, but remained at adequate levels to maintain biodegradation. The results of the DO monitoring are presented in **Table 7** and shown in **Figs. 13** and **14**. **Appendix D** contains the oxygen injection operation and maintenance log sheets for the reporting period.

4.4 Evaluation of Effectiveness

Fig. 13 shows that oxygen concentrations for System #1 decreased in Q1 2021 due to the compressor hose leak. The aquifer remained under aerobic conditions during the downtime.

Fig. 14 shows that oxygen concentrations for System #2 decreased in Q1 2021 due to several shutdowns of the system caused by a frozen dryer. The aquifer remained under aerobic conditions during the downtime.

The two oxygenation systems remain effective in maintaining high oxygen concentrations in the groundwater. Concentrations of contaminants in groundwater also remained low as discussed in Section 3.4.

5. Overall PRR Conclusions and Recommendations

5.1 Compliance with SMP

National Grid has operated and maintained the Site in compliance with the SMP, excluding interruptions to the operation of the oxygenation systems. The systems required repairs which were subsequently conducted, allowing the resumption of system operation. The NYSDEC IC/ECs Certification Form is provided in Appendix E.

5.2 Performance and Effectiveness of Remedy

The ICs/ECs remain effective at this Site and in off-Site areas. The largest component of the remedy was the solidification of 168,600 cy of soil. While there is no direct monitoring of the monolith created by this solidification, it remains in place under cover materials. The cover system is unchanged, with no intrusive activities noted that penetrated the cover. Based on inspection of the off-Site area properties, which did not reveal any evidence of intrusive activities, the cover system is unchanged, and no intrusive activities took place that penetrated the cover system.

Due to the presence of residual contamination beneath the POB known as Plaza 230, and beneath the powerline running along the LIRR ROW, some dissolved phased contamination remains immediately downgradient of the solidified monolith. However, this contamination is effectively treated by System #1 as detailed below. During this reporting period, 7.1 gallons of NAPL were recovered from the one recovery well (HIMW-21) located near the POB. This well is located within an area inaccessible for ISS treatment.

The oxygenation systems have been effective in reducing the size and concentration of the downgradient plume. In contrast to the current plume extent shown in **Figs. 5** and **6**, the plume as it existed at the time of the start-up of the oxygenation systems (**Fig. 15**) has been reduced by approximately 2,000 ft. Further reductions (as great as 3,600 ft) are evident when compared to the pre-remedial extent. **Figs. 18 (A and B)** and **19 (A and B)** show total BTEX and total PAH concentrations (respectively) in all wells monitoring the plume downgradient of System #1. These charts use a logarithmic concentration scale to effectively show the wide range of concentrations observed in these wells. For the purposes of data presentation, non-detects are shown as a concentration of 1 µg/L. These charts show there has been a clear decreasing trend in these wells since the startup of the two systems. This trend is especially clear in wells located farther downgradient including HIMW-13I and -13D, HIMW-14I, and HIMW-15I, that directly intercepted the plume. This trend is more

evident with BTEX than with PAHs. Historically, several wells located in between the two oxygenation systems, including HIMW-20I, HIMW-24 and HIMW-25, have shown significant variation in concentrations. These variations are likely related to the periods of operational downtime experienced with System #1. Prior to the extended period of downtime from June 2017 to February 2018, concentrations in the above-referenced wells were generally trending downward, with some variation noted in HIMW-24 which is located farthest from System #1. Increasing concentrations coinciding with and following the downtime period were noted. However, there were no exceedances of the AWQS in any monitoring wells downgradient of System #1 during the reporting period. The re-installation and sampling of HIMW-12I, which is located downgradient of HIMW-24, was conducted during the current reporting period. There were no detection of BTEX or PAHs in HIMW-12I or any other well located between the two oxygenation systems during the reporting period.

5.3 Recommendations

Continue performance monitoring in accordance with the SMP and subsequent NYSDEC-approved modifications as described below.

The frequency of well HIMW-21 NAPL gauging (and if appropriate, NAPL collection) will continue at a monthly frequency. Groundwater sampling will be conducted semi-annually, and dissolved oxygen monitoring will be conducted quarterly as approved in the June 1, 2018 and October 24, 2019 letters from NYSDEC, respectively.

National Grid recommends that Oxygenation System #2 be shutdown based on the lack of groundwater exceedances of the AWQS downgradient of System #1 since Q3 2019 (HIMW-24). A request to shut down the system will be submitted separately to NYSDEC. The request will also include recommended criteria and procedures for post-shutdown monitoring, system restart (if the criteria are not met), and potential removal of the system after a specific duration (if the criteria are met).

6. References

NYSDEC (2010). "DER-10 / Technical Guidance for Site Investigation and Remediation," May.

URS Corporation (2017). "Site Management Plan for the Hempstead Intersection Street Former Manufactured Gas Plant Site, Villages of Hempstead & Garden City, Nassau County, New York," February.

AECOM USA, Inc. (2019). "Periodic Review Report – April 6, 2017 through February 28, 2019, Hempstead Intersection Street Former MGP Site," March.

Table 1 . Monitoring Program Schedule
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Monitoring/Inspection	Frequency	Analysis	Reporting Frequency
Cover System: Former MGP Area and LIRR ROW	Annually	none	Annually
Cover System: Village of Garden City Property	Annually	none	Annually
Cover System: Oswego Oil Storage Terminal Area	Annually	none	Annually
Cover System: Restored Roadway Areas	Annually	none	Annually
Cover System: POB Parking Lot	Annually	none	Annually
Groundwater Monitoring	Semi-Annually	Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) by USEPA Method 8260C and polycyclic aromatic hydrocarbons (PAHs) by USEPA Method 8270D	Annually
Groundwater level measurements and potentiometric surface map(s)	Semi-Annually	N/A	Annually
DNAPL Depth Gauging	Monthly	Depth	Annually
Treatment System Monitoring	Monthly/ Quarterly*	Dissolved Oxygen	Annually

Notes:

* On October 24, 2019, NYSDEC approved changing the frequency of dissolved oxygen sampling to quarterly.
N/A=Not Applicable
LIRR=Long Island Railroad
ROW=Right of Way
MGP=Manufactured Gas Plant
POB=Professional Office Building

Table 2. Monitoring Requirements
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Frequency	Semi-Annual			Monthly
Well Id	Water Level	NAPL Thickness	Water Quality	DNAPL Thickness
HIMW-03S	X	X	X	
HIMW-03I	X	X	X	
HIMW-03D	X	X	X	
HIMW-04S	X	X		
HIMW-04I	X	X		
HIMW-04D	X	X		
HIMW-05S	X	X	X	
HIMW-05I	X	X	X	
HIMW-05D	X	X	X	
HIMW-08S	X	X	X	
HIMW-08I	X	X	X	
HIMW-08D	X	X	X	
HIMW-09S	X	X		
HIMW-09I	X	X		
HIMW-09D	X	X		
HIMW-10S	X	X		
HIMW-10I	X	X		
HIMW-11S	X	X		
HIMW-11I	X	X		
HIMW-11D	X	X		
HIMW-12S	X	X	X	
HIMW-12I	X	X	X	
HIMW-12D*				
HIMW-13S	X	X	X	
HIMW-13I	X	X	X	
HIMW-13D	X	X	X	
HIMW-14I	X	X	X	
HIMW-14D	X	X	X	
HIMW-15I	X	X	X	
HIMW-15D	X	X	X	
HIMW-20S	X	X	X	
HIMW-20I	X	X	X	
HIMW-21	X	X		X
HIMW-22	X	X	X	
HIMW-23	X	X	X	
HIMW-24	X	X	X	
HIMW-25	X	X	X	
HIMW-26I	X	X	X	
HIMW-26D	X	X	X	
HIMW-27S	X	X	X	
HIMW-27I	X	X	X	
HIMW-28S	X	X	X	
HIMW-28I	X	X	X	
PZ-02	X	X		
PZ-03	X	X		
OSMW-02	X	X		
OSMW-03	X	X		

Notes:

Field marked with "X" indicates that the activity is to be performed.
Blank field indicates that the activity not required.
MGP=Manufactured Gas Plant
*-Monitoring well abandoned

Table 3. Groundwater and NAPL Measurements Third Quarter 2020
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

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-03S	9/18/2020	65.00	ND	18.89	ND	34.33	0	0.00	46.11
HIMW-03I	9/18/2020	64.94	ND	19.24	ND	85.00	0	0.00	45.70
HIMW-03D	9/18/2020	65.26	ND	19.76	ND	142.01	0	0.00	45.50
HIMW-04S	9/18/2020	72.02	ND	27.21	ND	42.67	0	0.00	44.81
HIMW-04I	9/18/2020	71.91	ND	27.41	ND	90.50	0	0.00	44.50
HIMW-04D	9/18/2020	71.78	ND	28.02	ND	176.98	0	0.00	43.76
HIMW-05S	9/18/2020	67.19	ND	21.55	ND	38.31	0	0.00	45.64
HIMW-05I	9/18/2020	67.22	ND	25.43	ND	90.49	0	0.00	41.79
HIMW-05D	9/18/2020	67.22	ND	27.55	ND	135.67	0	0.00	39.67
HIMW-08S	9/18/2020	64.03	ND	19.81	ND	36.88	0	0.00	44.22
HIMW-08I	9/18/2020	63.98	ND	19.77	ND	74.82	0	0.00	44.21
HIMW-08D	9/18/2020	63.97	ND	19.78	ND	114.40	0	0.00	44.19
HIMW-09S	9/18/2020	70.03	ND	24.27	ND	39.77	0	0.00	45.76
HIMW-09I	9/18/2020	69.93	ND	24.23	ND	80.49	0	0.00	45.70
HIMW-09D	9/18/2020	69.96	ND	24.31	ND	122.90	0	0.00	45.65
HIMW-10S	9/18/2020	70.07	ND	24.91	ND	39.30	0	0.00	45.16
HIMW-10I	9/18/2020	69.90	ND	24.71	ND	89.69	0	0.00	45.19
HIMW-11S	9/18/2020	70.60	24.06	25.34	ND	40.22	0.04	0.00	45.26
HIMW-11I	9/18/2020	70.43	ND	25.17	ND	93.22	0	0.00	45.26
HIMW-11D	9/18/2020	70.43	ND	25.17	ND	122.24	0	0.00	45.26
HIMW-12S	9/18/2020	60.52	ND	17.58	ND	33.10	0	0.00	42.94
HIMW-12I	9/18/2020	60.61	ND	17.61	ND	73.7	0	0.00	43.00
HIMW-12D	9/18/2020	61.82	NM	NM	NM	NM	NM	NM	NC
HIMW-13S	9/18/2020	72.58	ND	30.59	ND	48.47	0	0.00	41.99
HIMW-13I	9/18/2020	72.51	ND	30.54	ND	81.43	0	0.00	41.97
HIMW-13D	9/18/2020	72.47	ND	30.53	ND	121.93	0	0.00	41.94
HIMW-14I	9/18/2020	71.06	ND	29.77	ND	95.82	0	0.00	41.29
HIMW-14D	9/18/2020	70.85	ND	32.62	ND	151.82	0	0.00	38.23
HIMW-15I	9/18/2020	64.18	ND	26.90	ND	92.41	0	0.00	37.28
HIMW-15D	9/18/2020	63.96	ND	27.58	ND	152.00	0	0.00	36.38
HIMW-20S	9/18/2020	69.03	ND	25.24	ND	37.69	0	0.00	43.79
HIMW-20I	9/18/2020	68.88	ND	25.67	ND	74.74	0	0.00	43.21
HIMW-21	9/18/2020	64.36	ND	20.04	44.40	45.29	0	0.89	NC
HIMW-22	9/18/2020	74.07	ND	30.76	ND	64.41	0	0.00	43.31
HIMW-23	9/18/2020	74.41	ND	29.96	ND	75.11	0	0.00	44.45
HIMW-24	9/18/2020	59.83	ND	15.27	ND	54.88	0	0.00	44.56
HIMW-25	9/18/2020	61.32	ND	17.69	ND	52.11	0	0.00	43.63
HIMW-26I	9/18/2020	68.13	ND	24.85	ND	84.85	0	0.00	43.28
HIMW-26D	9/18/2020	68.02	ND	25.54	ND	137.80	0	0.00	42.48
HIMW-27S	9/18/2020	69.53	ND	24.51	ND	39.90	0	0.00	45.02
HIMW-27I	9/18/2020	68.96	ND	23.94	ND	69.92	0	0.00	45.02
HIMW-28S	9/18/2020	69.89	ND	24.54	ND	41.42	0	0.00	45.35
HIMW-28I	9/18/2020	69.67	ND	25.03	ND	71.41	0	0.00	44.64
PZ-02	9/18/2020	71.88	ND	25.69	ND	35.19	0	0.00	46.19
PZ-03	9/18/2020	63.82	ND	17.01	ND	30.66	0	0.00	46.81
OSMW-02	9/18/2020	71.59	ND	25.52	ND	45.19	0	0.00	46.07
OSMW-03	9/18/2020	71.39	ND	25.42	ND	44.70	0	0.00	45.97

Notes:

[(1)] Potentiometric heads in wells containing LNAPL are corrected using a specific gravity = 0.96
TOR=Top of Riser
LNAPL=Light Non-Aqueous Phase Liquid
DNAPL=Dense Non-Aqueous Phase Liquid
ft bgs=feet below ground surface
ft amsl=feet above mean sea level
ND=Not Detected
NM=Not Measured
NC=Not Calculated

Table 4. Groundwater and NAPL Measurements First Quarter 2021
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

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-03S	3/04/2021	65.00	ND	18.19	ND	34.30	0	0.00	46.81
HIMW-03I	3/04/2021	64.94	ND	19.29	ND	85.31	0	0.00	45.65
HIMW-03D	3/04/2021	65.26	ND	19.01	ND	143.08	0	0.00	46.25
HIMW-04S	3/08/2021	72.02	ND	26.55	ND	41.73	0	0.00	45.47
HIMW-04I	3/08/2021	71.91	ND	26.70	ND	90.55	0	0.00	45.21
HIMW-04D	3/08/2021	71.78	ND	27.00	ND	177.95	0	0.00	44.78
HIMW-05S	3/03/2021	67.19	ND	20.98	ND	38.33	0	0.00	46.21
HIMW-05I	3/03/2021	67.22	ND	21.11	ND	90.47	0	0.00	46.11
HIMW-05D	3/03/2021	67.22	ND	21.57	ND	135.60	0	0.00	45.65
HIMW-08S	3/01/2021	64.03	ND	19.09	ND	36.87	0	0.00	44.94
HIMW-08I	3/01/2021	63.98	ND	19.22	ND	74.66	0	0.00	44.76
HIMW-08D	3/02/2021	63.97	ND	19.18	ND	116.44	0	0.00	44.79
HIMW-09S	3/08/2021	70.03	ND	23.89	ND	39.80	0	0.00	46.14
HIMW-09I	3/08/2021	69.93	ND	23.79	ND	80.53	0	0.00	46.14
HIMW-09D	3/08/2021	69.96	ND	23.72	ND	123.77	0	0.00	46.24
HIMW-10S	3/08/2021	70.07	ND	24.57	ND	39.39	0	0.00	45.50
HIMW-10I	3/08/2021	69.90	ND	24.34	ND	90.71	0	0.00	45.56
HIMW-11S	3/08/2021	70.60	ND	24.71	ND	40.31	0	0.00	45.89
HIMW-11I	3/08/2021	70.43	ND	24.57	ND	93.30	0	0.00	45.86
HIMW-11D	3/08/2021	70.43	ND	24.59	ND	122.31	0	0.00	45.84
HIMW-12S	3/03/2021	60.52	ND	16.94	ND	33.09	0	0.00	43.58
HIMW-12I	3/08/2021	60.61	ND	16.94	ND	73.70	0	0.00	43.67
HIMW-13S	3/03/2021	72.58	ND	30.02	ND	48.45	0	0.00	42.56
HIMW-13I	3/03/2021	72.51	ND	29.98	ND	81.45	0	0.00	42.53
HIMW-13D	3/03/2021	72.47	ND	29.96	ND	122.95	0	0.00	42.51
HIMW-14I	3/04/2021	71.06	ND	29.05	ND	94.65	0	0.00	42.01
HIMW-14D	3/04/2021	70.85	ND	30.82	ND	151.73	0	0.00	40.03
HIMW-15I	3/05/2021	64.18	ND	23.50	ND	92.41	0	0.00	40.68
HIMW-15D	3/05/2021	63.96	ND	25.63	ND	151.99	0	0.00	38.33
HIMW-20S	3/02/2021	69.03	ND	25.22	ND	37.82	0	0.00	43.81
HIMW-20I	3/02/2021	68.88	ND	25.03	ND	74.75	0	0.00	43.85
HIMW-21	3/03/2021	64.36	NM	NM	NM	NM	NM	NM	NC
HIMW-22	3/03/2021	74.07	ND	29.00	ND	64.50	0	0.00	45.07
HIMW-23	3/03/2021	74.41	ND	30.22	ND	75.21	0	0.00	44.19
HIMW-24	3/02/2021	59.83	ND	14.72	ND	54.72	0	0.00	45.11
HIMW-25	3/02/2021	61.32	ND	17.23	ND	52.23	0	0.00	44.09
HIMW-26I	3/03/2021	68.13	ND	22.97	ND	84.95	0	0.00	45.16
HIMW-26D	3/03/2021	68.02	ND	22.99	ND	137.58	0	0.00	45.03
HIMW-27S	3/01/2021	69.53	ND	23.82	ND	42.88	0	0.00	45.71
HIMW-27I	3/01/2021	68.96	ND	23.86	ND	72.82	0	0.00	45.10
HIMW-28S	3/01/2021	69.89	ND	24.26	ND	41.56	0	0.00	45.63
HIMW-28I	3/01/2021	69.67	ND	23.98	ND	71.46	0	0.00	45.69
PZ-02	3/08/2021	71.88	ND	25.01	ND	35.28	0	0.00	46.87
PZ-03	3/08/2021	63.82	ND	16.70	ND	29.89	0	0.00	47.12
OSMW-02	3/08/2021	71.59	NM	NM	NM	NM	NM	NM	NC
OSMW-03	3/08/2021	71.39	ND	24.96	ND	45.25	0	0.00	46.43

Notes:
[(1)] Potentiometric heads in wells containing LNAPL are corrected using a specific gravity = 0.96
TOR=Top of Riser
LNAPL=Light Non-Aqueous Phase Liquid
DNAPL=Dense Non-Aqueous Phase Liquid
ft bgs=feet below ground surface
ft amsl=feet above mean sea level
ND=Not Detected
NM=Not Measured
NC=Not Calculated

Table 5. NAPL Gauging and Recovery
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Well ID: HIMW-021				
Date	**Thickness of LNAPL (feet)**	**Thickness of DNAPL (feet)**	**Volume of NAPL Removed[(1)] (gallons)**	**Total Product Volume Recovered During PRR Period (gallons)**
April 24, 2020	ND	1.94	0.0	0.0
May 15, 2020	NR	NR	0.0	0.0
June 16, 2020	ND	1.95	0.0	0.0
July 14, 2020	ND	2.43	0.0	0.0
August 12, 2020	ND	2.64	0.8	0.8
September 17,2020	ND	0.86	0.0	0.8
October 26, 2020	ND	1.41	0.0	0.8
November 23, 2020	ND	2.62	0.0	0.8
December 16, 2020	ND	2.89	1.0	1.8
January 19, 2021	ND	3.49	2.3	4.1
February 25, 2021	ND	3.82	0.0	4.1
March 25, 2021	ND	5.30	3.0	7.1
Total Volume of NAPL Recovered from April 2007 to Q1 2020				**864.6**
Total Volume of NAPL Recovered To-Date				**871.7**

Notes:
MGP=Manufactured Gas Plant
[(1)] Volume of product recovered was estimated by using the markings on a five gallon bucket.
LNAPL=Light Non-Aqueous Phase Liquid
DNAPL=Dense Non-Aqueous Phase Liquid
PRR=Periodic Review Report
ND=NAPL Not Detected
NC=Not Collected

Table 6. Groundwater Analytical Results
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

			Sample Name	HIMW-03S	HIMW-03S	HIMW-03I	DUP-01	HIMW-03I	HIMW-03D	HIMW-03D	HIMW-05S	HIMW-05S	HIMW-05I	HIMW-05I
			Sample Date	9/14/2020	3/4/2021	9/14/2020	9/14/2020	3/4/2021	9/14/2020	3/4/2021	9/17/2020	3/3/2021	9/16/2020	3/3/2021
			Parent Sample				H1MW-03I							
Analyte	**Units**	**CAS No.**	**NYS AWQS**											
BTEX	ug/L													
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.53 J**
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.65 J**
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**23**	**42**
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	**23**	**43.18**
PAH17	ug/L													
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**5.8 J**	**9.9 J**
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**78**	**140**
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	50 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	5 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	4 UJ	10 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	5 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	50 UJ
Benzo(a)pyrene		50-32-8	ND	1 U	1 U*	1 U	1 U	1 U*	1 U	1 U*	1 U	1 U	2 U	5 U
Chrysene		218-01-9	0.002*	2 U	10 U	2 U	2 U	10 U	2 U	10 U	2 U	10 U	4 U	50 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	5 UJ
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	50 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**15 J**	**24 J**
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	4 U	10 UJ
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**33**	**120**
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**0.83 J**	**230**	**780**
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**8.1 J**	**17 J**
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	50 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	**0.83**	**369.9**	**1090.9**

Table 6. Groundwater Analytical Results
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

			Sample Name	HIMW-05D	HIMW-05D	HIMW-08S	HIMW-08S	HIMW-08I	HIMW-08I	HIMW-08D	HIMW-08D	HIMW-12S	HIMW-12S	HIMW-12I
			Sample Date	9/16/2020	3/3/2021	9/16/2020	3/1/2021	9/16/2020	3/1/2021	9/16/2020	3/2/2021	9/16/2020	3/3/2021	10/6/2020
			Parent Sample											
Analyte	**Units**	**CAS No.**	**NYS AWQS**											
BTEX	ug/L													
Benzene		71-43-2	1	1 U	1 U	1 U	**0.89 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	**6.5**	**6.2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	**94**	**110**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	**100.5**	**116.2**	ND	**0.89**	ND	ND	ND	ND	ND	ND	ND
PAH17	ug/L													
Acenaphthene		83-32-9	20*	50 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	**23 J**	**50 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	50 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	10 UJ	20 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	50 U	100 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	10 U	100 U	2 U	10 U	2 U	10 U	2 U	10 U	2 U	10 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE	5 U	10 U	1 U	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	50 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	50 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	10 U	20 U	2 U	2 UJ	2 U	2 UJ	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	**52**	**150**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	**590**	**1200**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	50 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	50 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**665**	**1400**	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 6. Groundwater Analytical Results
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

			Sample Name	HIMW-12IR	HIMW-13S	HIMW-13S	HIMW-13I	HIMW-13I	HIMW-13D	DUP-02	HIMW-13D	HIMW-14I	HIMW-14I	DUP-02
			Sample Date	3/3/2021	9/14/2020	3/3/2021	9/14/2020	3/3/2021	9/14/2020	9/14/2020	3/3/2021	9/15/2020	3/4/2021	3/4/2021
			Parent Sample							H1MW-13D				HIMW-14I
Analyte	**Units**	**CAS No.**	**NYS AWQS**											
BTEX	ug/L													
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	**0.91 J**	**0.93 J**	**0.56 J**	**0.46 J**	**0.58 J**	**0.52 J**
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	**0.91**	**0.93**	**0.56**	**0.46**	**0.58**	**0.52**
PAH17	ug/L													
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	**4.9 J**	**5.3 J**	10 U	**2.6 J**	**4.3 J**	**4.5 J**
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	**8.2 J**	**9.7 J**	10 U	**3.4 J**	**4.2 J**	**4.1 J**
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	10 U	2 U	10 U	2 U	10 U	2 U	2 U	10 U	2 U	10 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	**1.1 J**	**1 J**
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1.1 J**	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	**13.1**	**15**	ND	**8.1**	**9.6**	**9.6**

Table 6. Groundwater Analytical Results
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

			Sample Name	HIMW-14D	HIMW-14D	HIMW-15I	HIMW-15I	HIMW-15D	HIMW-15D	HIMW-20S	HIMW-20S	HIMW-20I	HIMW-20I	HIMW-22
			Sample Date	9/15/2020	3/4/2021	9/16/2020	3/5/2021	9/16/2020	3/5/2021	9/17/2020	3/2/2021	9/17/2020	3/2/2021	9/16/2020
			Parent Sample											
Analyte	**Units**	**CAS No.**	**NYS AWQS**											
BTEX	ug/L													
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH17	ug/L													
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	**1.1 J**	**0.83 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U*	1 U	1 U*	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	2 U	10 U	2 U	10 U	2 U	10 U	2 U	10 U	2 U	10 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	**1.1**	**0.83**	ND	ND	ND	ND	ND	ND	ND

Table 6. Groundwater Analytical Results
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

			Sample Name	HIMW-22	HIMW-23	HIMW-23	HIMW-24	HIMW-24	HIMW-25	HIMW-25	HIMW-26I	HIMW-26I	HIMW-26D	HIMW-26D
			Sample Date	3/3/2021	9/16/2020	3/3/2021	9/16/2020	3/2/2021	9/16/2020	3/2/2021	9/16/2020	3/3/2021	9/17/2020	3/3/2021
			Parent Sample											
Analyte	**Units**	**CAS No.**	**NYS AWQS**											
BTEX	ug/L													
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.48 J**	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**22**	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	**22.48**	ND
PAH17	ug/L													
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**8.4 J**	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**100**	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	8 UJ	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U
Chrysene		218-01-9	0.002*	10 U	2 U	10 U	2 U	10 U	2 U	10 U	2 U	10 U	8 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**23 J**	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	8 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**280**	10 U
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**450**	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**19 J**	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	**880.4**	ND

Table 6. Groundwater Analytical Results
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

			Sample Name	HIMW-27S	HIMW-27S	HIMW-27I	HIMW-27I	HIMW-28S	HIMW-28S	HIMW-28I	HIMW-28I	DUP-01
			Sample Date	9/15/2020	3/1/2021	9/15/2020	3/1/2021	9/15/2020	3/1/2021	9/15/2020	3/1/2021	3/1/2021
			Parent Sample									HIMW-28I
Analyte	**Units**	**CAS No.**	**NYS AWQS**									
BTEX	ug/L											
Benzene		71-43-2	1	**7.1**	**9.3 J**	1 U	1 U	**3**	**3.6 J**	1 U	1 U	1 U
Toluene		108-88-3	5	**12**	**14 J**	1 U	1 U	**2.6**	**3.2 J**	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	**400**	**440 J**	1 U	**0.35 J**	**140**	**160 J**	**0.33 J**	1 U	1 U
Total Xylene		1330-20-7	5	**440**	**410 J**	2 U	2 U	**14**	**15 J**	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	**859.1**	**873.3**	ND	**0.35**	**159.6**	**181.8**	**0.33**	ND	ND
PAH17	ug/L											
Acenaphthene		83-32-9	20*	**77 J**	**84 J**	10 U	10 U	**33 J**	**24 J**	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	100 U	100 U	10 U	10 U	50 U	50 UJ	10 U	10 U	10 U
Anthracene		120-12-7	50*	100 U	100 U	10 U	10 U	**3.3 J**	50 UJ	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	10 U	10 U	1 U	1 U	5 U	5 UJ	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	20 U	20 U	2 U	2 U	10 U	10 UJ	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	10 U	10 U	1 U	1 U	5 U	5 UJ	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	100 UJ	100 UJ	10 UJ	10 UJ	50 UJ	50 UJ	10 UJ	10 UJ	10 UJ
Benzo(a)pyrene		50-32-8	ND	10 U	10 U	1 U	1 U	5 U	5 UJ	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	20 U	100 U	2 U	10 U	10 U	50 UJ	2 U	10 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	10 UJ	10 UJ	1 UJ	1 UJ	5 UJ	5 UJ	1 UJ	1 UJ	1 U
Fluoranthene		206-44-0	50*	100 U	100 U	10 U	10 U	50 U	50 UJ	10 U	10 U	10 U
Fluorene		86-73-7	50*	**32 J**	**38 J**	10 U	10 U	**16 J**	**18 J**	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	20 UJ	20 UJ	2 UJ	2 UJ	10 UJ	10 UJ	2 UJ	2 UJ	2 U
2-Methylnaphthalene		91-57-6	NE	**280**	**290**	10 U	**1.5 J**	**88**	**54 J**	10 U	10 U	10 U
Naphthalene		91-20-3	10*	**970**	**1100**	2 U	**0.86 J**	**340**	**230 J**	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	**33 J**	**40 J**	10 U	10 U	**19 J**	**17 J**	10 U	10 U	10 U
Pyrene		129-00-0	50*	100 UJ	100 U	10 UJ	10 U	50 UJ	50 UJ	10 UJ	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**1392**	**1552**	ND	**2.36**	**499.3**	**343**	ND	ND	ND

Table 6. Groundwater Analytical Results
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Notes:

MGP = Manufactured Gas Plant
µg/L = micrograms per liter or parts per billion (ppb)
BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes
PAH = Polycyclic Aromatic Hydrocarbon

Total BTEX and Total PAHs are calculated using detects only.
Total PAH17 is calculated using the list of analytes: Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]pyrene, Naphthalene, 2-Methylnaphthalene, Phenanthrene, and Pyrene

NYS AWQS = New York State Ambient Water Quality Standards and Guidance Values for GA groundwater
* indicates the value is a guidance value and not a standard

CAS No. = Chemical Abstracts Service Number
ND = Not Detected
NE = Not Established

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

Table 7. Groundwater Treatment Performance Monitoring, April 2020 - March 2021
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

System #1

	Q2 2020		Q3 2020		Q4 2020		Q1 2021	
	April		September 14-18		December 14-16		March 1-5	
ID	DTW (ft)	DO (mg/L)	DTW (ft)	DO (mg/L)	DTW (ft)	DO (mg/L)	DTW (ft)	DO (mg/L)
MP-1-1S	NM	NM	26.73	30	26.82	15	26.18	6
MP-1-1D	NM	NM	26.71	25	26.75	19	26.15	9
MP-1-2S	NM	NM	21.17	17	21.35	17	20.69	7
MP-1-2D	NM	NM	21.16	29	21.15	21	20.50	9
MP-1-3S	NM	NM	19.2	27	19.18	12	18.55	10
MP-1-3D	NM	NM	19.12	22	19.2	22	18.62	7
MP-1-4S	NM	NM	21.73	25	21.89	16	21.19	5
MP-1-4D	NM	NM	21.89	27	22.03	21	21.27	15
MP-1-5	NM	NM	26.52	32	26.53	20	25.97	12
MP-1-6	NM	NM	18.58	21	18.6	21	18.1	8
MP-1-7	NM	NM	21.87	28	23.17	17	21.41	20
MP-1-8	NM	NM	23.09	21	23.39	9	22.88	15

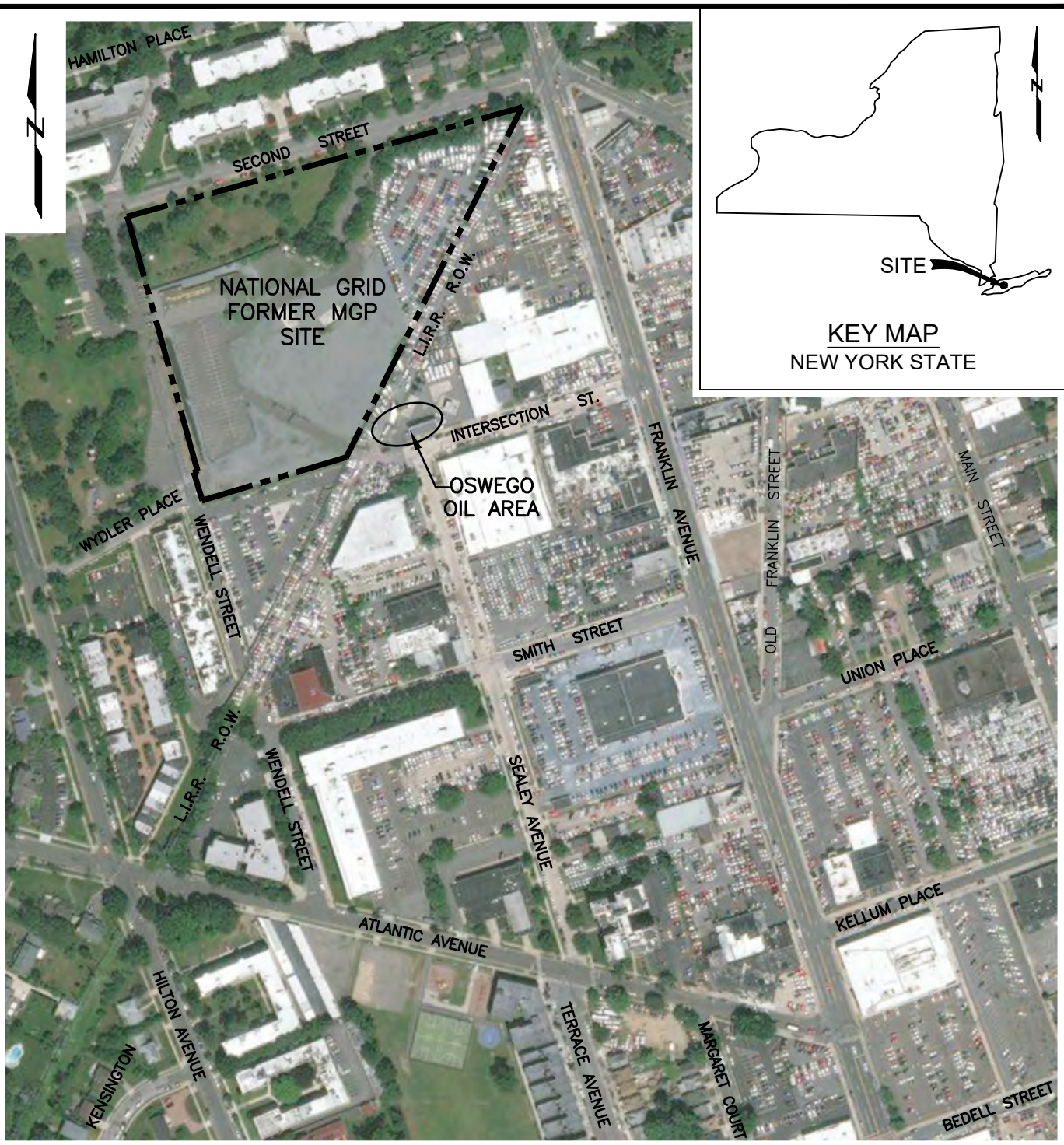
System #2

	Q2 2020		Q3 2020		Q4 2020		Q1 2021	
	April		September 14-18		December 14-16		March 1-5	
ID	DTW (ft)	DO (mg/L)	DTW (ft)	DO (mg/L)	DTW (ft)	DO (mg/L)	DTW (ft)	DO (mg/L)
MP-2-1	NM	NM	29.62	22	21.65	17	29.06	16
MP-2-2	NM	NM	31.07	13	31.21	26	30.41	4
MP-2-3S	NM	NM	30.89	28	31.03	17	30.29	14
MP-2-3D	NM	NM	31.03	18	31.17	14	30.54	13
MP-2-4	NM	NM	19.62	27	21.65	12	18.88	11
MP-2-5	NM	NM	17.81	12	17.83	14	17.13	11

Notes:

On October 24, 2019, NYSDEC approved changing the frequency of dissolved oxygen sampling to quarterly.

(1) DO Headspace monitor oxygen detection limit is 40.0%; normal oxygen level in air is 20.9%
MGP=Manufactured Gas Plant
DTW=Depth to water (feet)
O_2=Oxygen measurement of well headspace (percent oxygen)
PID=Photoionization Detector measurement of well headspace (parts per million)
DO=Dissolved Oxygen concentration (percent of milligrams per liter)
NM=Not Measured
NA=Not Accessible
ppm=parts per million
mg/L=milligrams per liter
ft=feet



SOURCES:

1. FIGURE BASED ON *FIGURE 1: SITE LOCATION, HEMPSTEAD INTERSECTION STREET FORMER MGP SITE,* PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/5/19.
2. AERIAL PHOTO FROM BING MAPS AERIAL LAYER, ACCESSED VIA ARCGIS ONLINE, © 2010 MICROSOFT CORPORATION AND ITS DATA SUPPLIERS, ACCESSED ON 1/27/2020.

LEGEND:

NATIONAL GRID PROPERTY BOUNDARY

0 300 600

SCALE: 1" = 300'

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Hempstead Intersection Street Former MGP
Hempstead/Garden City, New York

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SITE LOCATION

Project 1905774 | April 2021 | Fig. 1

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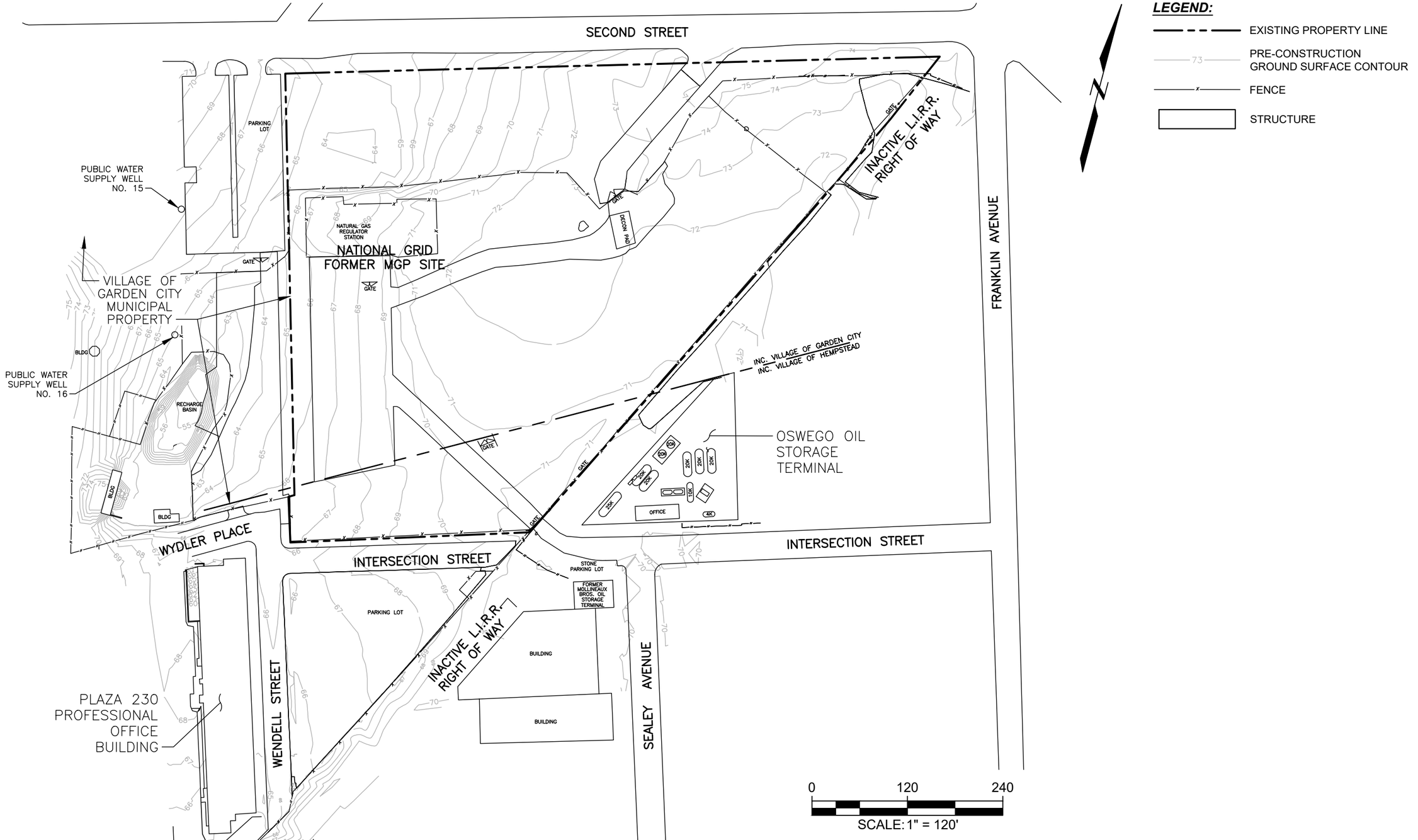

SOURCE:

FIGURE BASED ON *FIGURE 2: PROJECT SITE MAP, HEMPSTEAD INTERSECTION STREET FORMER MGP SITE,* PREPARED BY AECOM, SCALE: 1" = 60', DATE: 2/5/19.

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PROJECT SITE MAP

Project 1905774 | April 2021 | Fig. 2

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Parcel ID	Parcel Address
34.-145-209	18 Hilton Ave
34.-147-102	101 Second St
34.-147-116	34 Hamilton Pl
34.-147-140	38 Hamilton Pl
34.-147-158	131 Second St
34.-147-200	Franklin Ave
34.-147-242	12 Hamilton Pl
34.-147-243	Franklin Ave
34.-147-245	40 Hamilton Pl
34.-147-247	133 Second St
34.-147-248	135 Second St
34.-147-93	19 Hilton Ave
34.-147-98	15 Hilton Ave
34.-173-1	Cedar Valley Ave
34.-173-12	230 Hilton Ave
34.-173-13	7 Medical St
34.-173-14	200 Hilton Ave
34.-173-3	Hilton Ave
34.-174-1	Wendell St
34.-174-11	45 Intersection St
34.-174-13	299 N Franklin St
34.-174-14	301 Franklin St
34.-174-15	130 Franklin Ave
34.-174-17	23 Intersection St
34.-174-208.A	Cedar Valley Ave
34.-174-208.B	Intersection St
34.-174-209.B	Intersection St
34.-174-5	301-305 Franklin St
34.-174-8	283 Franklin St
34.-175-1	49 Sealy Ave
34.-175-2	55 Sealey Ave
34.-175-204	63 Smith St
34.-175-205	77 Smith St
34.-175-207	61 Sealey Ave
34.-175-208	57 Sealey Ave
34.-175-209	73-75 Sealey Ave
34.-175-210	77 Sealey Ave
34.-175-8	Intersection St
34.-176-1	283 N Franklin St
34.-176-10	277 N Franklin St
34.-176-103	283 N Franklin St
34.-176-104	17 Smith St
34.-176-106	32-44 Intersection St
34.-176-11	Sealey Ave
34.-176-113	17-21 Smith St
34.-176-12	54 Sealey Ave
34.-176-14	273 Franklin St
34.-176-213	52 Sealey Ave
34.-176-9	265 N Franklin St
34.-544-10	17 Barnes Ln
34.-544-23	12 Hilton Ave
34.-544-25	90 Second St
34.-544-26	92 Second St
34.-544-9	19 Barnes Ln
34.-545-10	20 Barnes Ln
34.-545-11	16 Barnes Ln
34.-545-20	225 Hilton Ave
34.-545-23	235 Hilton Ave
34.-545-25	217 Hilton Ave
34.-545-26	179 Atlantic Ave
34.-545-27	215 Hilton Ave
34.-545-28	189 Atlantic Ave

SOURCES:

1. FIGURE BASED ON *FIGURE 3: PARCEL BOUNDARIES, HEMPSTEAD INTERSECTION STREET FORMER MGP SITE,* PREPARED BY AECOM, SCALE: 1" = 200', DATE: 2/5/19.
2. AERIAL PHOTO FROM BING MAPS AERIAL LAYER, ACCESSED VIA ARCGIS ONLINE, © 2010 MICROSOFT CORPORATION AND ITS DATA SUPPLIERS, ACCESSED ON 1/28/2020.

NOTE:

PARCEL BOUNDARIES DERIVED FROM NASSAU COUNTY DEPARTMENT OF ASSESSMENT LAND RECORDS VIEWER (LVR) (NASSUA COUNTY, 2/5/19).

0 200 400

SCALE: 1" = 200'

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PARCEL BOUNDARIES

April 2021 Fig. 3

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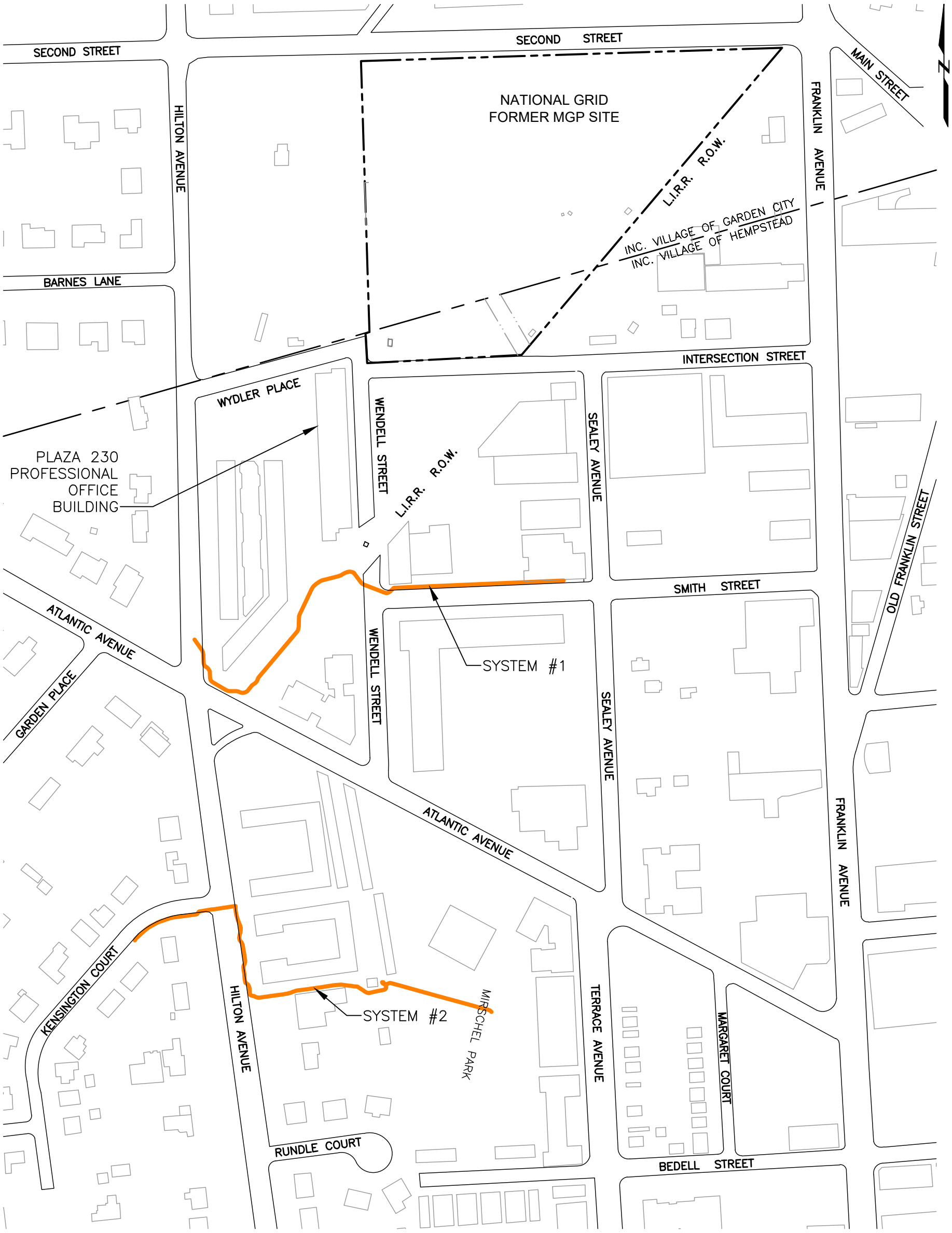

SOURCE:
FIGURE BASED ON *FIGURE 4: GROUNDWATER OXYGENATION SYSTEMS, HEMPSTEAD INTERSECTION STREET FORMER MGP SITE,* PREPARED BY AECOM, SCALE: 1" = 150', DATE: 2/5/19.

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GROUNDWATER
OXYGENATION SYSTEM

Project 1905774 | April 2021 | Fig. 4

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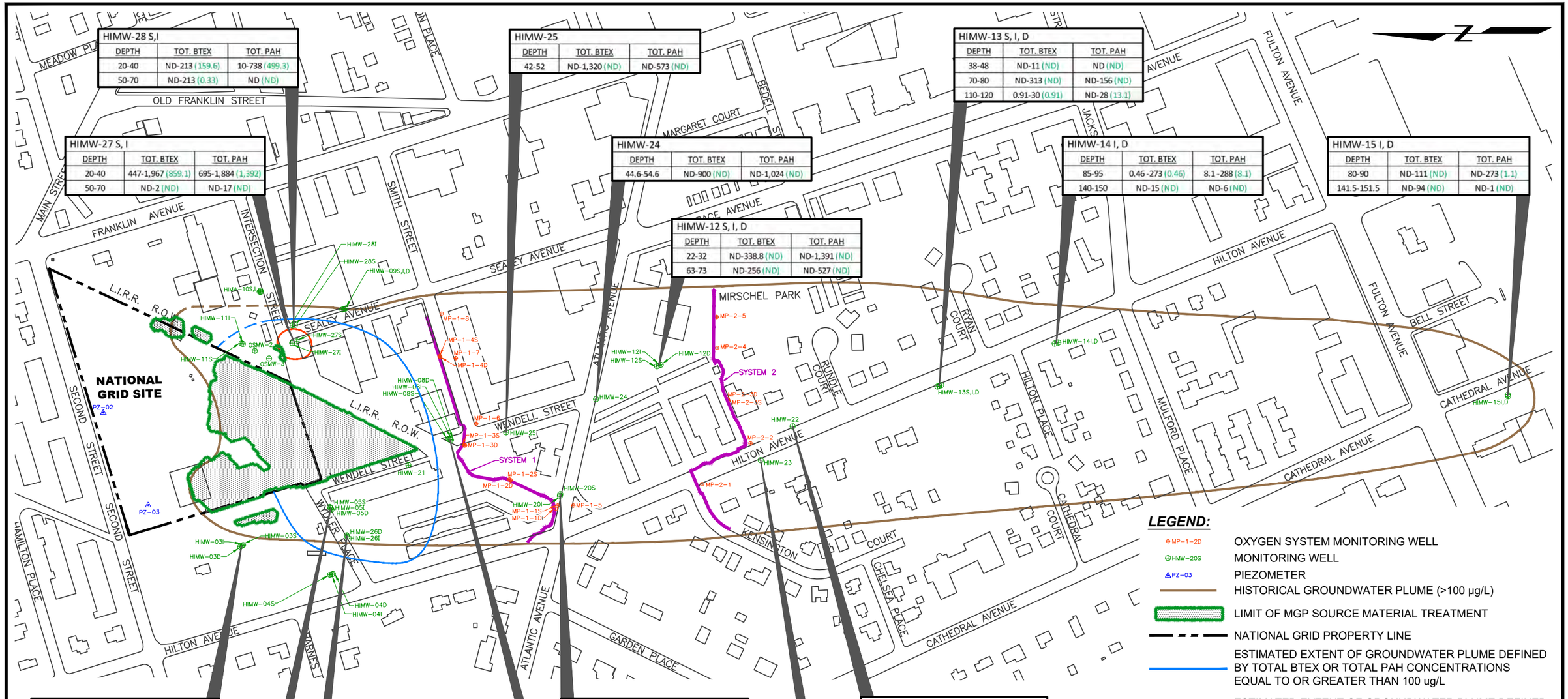

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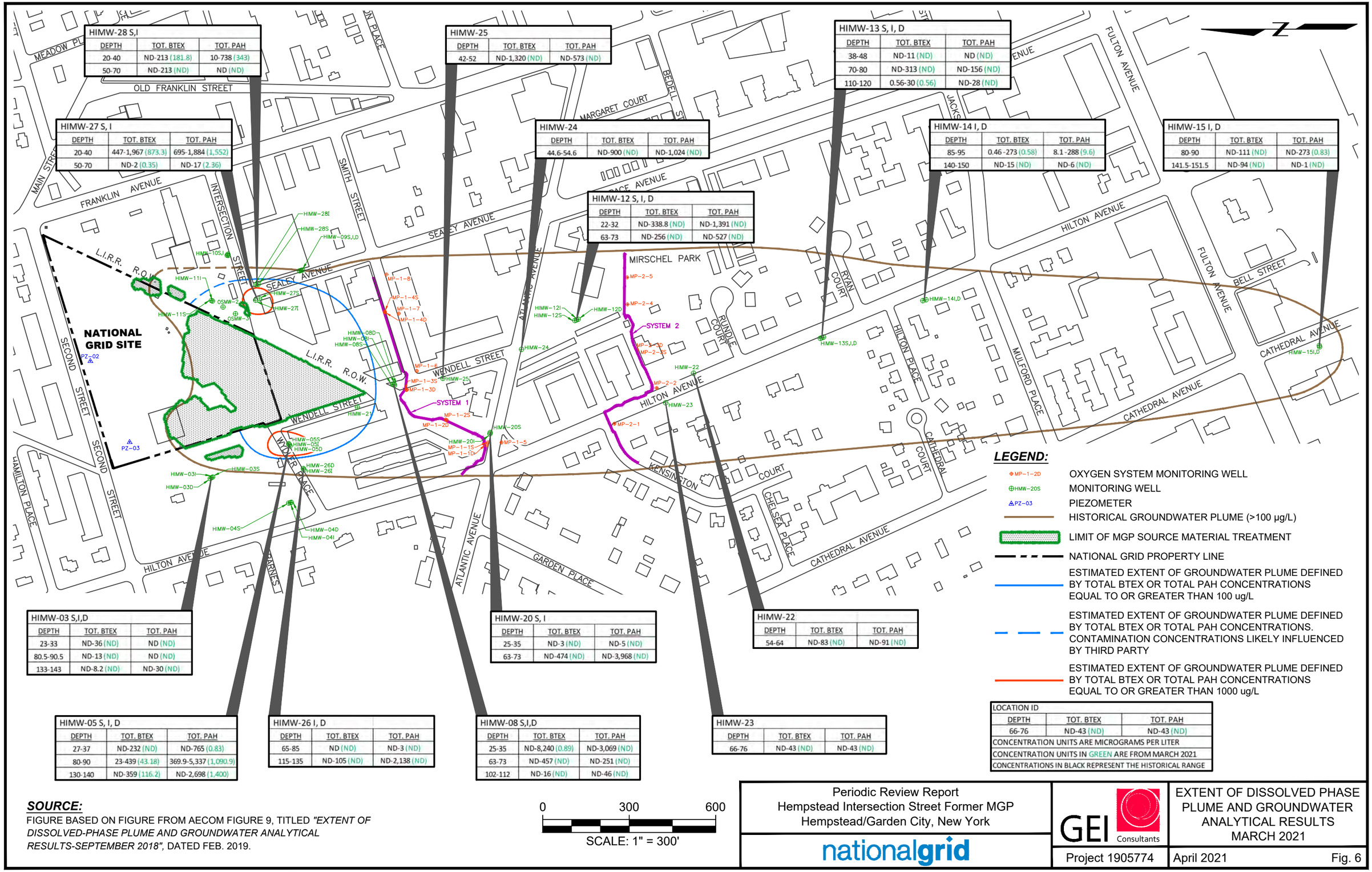

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PZ–02
46.19
PZ–03
46.81
NATIONAL GRID
FORMER MGP SITE
HIMW–11S
46.0
45.26
HIMW–10S
45.16
HIMW–03S
46.11
OSMW–2
46.07
OSMW–3
45.97
HIMW–28S
45.35
HIMW–04S
44.81
HIMW–09S
45.76
HIMW–05S
45.64
HIMW–27S
45.02
45.0
HIMW–08S
44.22
44.0
HIMW–20S
43.79
43.0
HIMW–12S
42.94
HIMW–13S
41.99
42.0
MAIN STREET
FRANKLIN AVENUE
OLD FRANKLIN STREET
MEADOW PLACE
STOWE PLACE
SAMMIS PLACE
MILLER PLACE
UNION PLACE
SECOND STREET
HILTON AVENUE
BARNES LANE
WYDER PLACE
WENDELL STREET
L.I.R.R. R.O.W.
INTERSECTION STREET
SEALEY AVENUE
SMITH STREET
ATLANTIC AVENUE
GARDEN PLACE
KENSINGTON COURT
CHELSEA PLACE
CATHEDRAL AVENUE
CATHEDRAL COURT
HILTON PLACE
MULFORD PLACE
MIRSCHEL PARK
TERRACE AVENUE
MARGARET COURT
RUNDLE COURT
RYAN COURT
BEDELL STREET
KELLUM PLACE
NORTH FRANKLIN STREET
WEST COLUMBIA ST
JACKSON STREET
ST. PAUL'S
FULTON AVENUE
BELL STREET

0 300 600
SCALE, FEET

LEGEND:

- MONITORING WELL
- PIEZOMETER
- GROUNDWATER FLOW DIRECTION
- 44.0 POTENTIOMETRIC SURFACE CONTOUR
- 41.99 GROUNDWATER ELEVATION (FT. AMSL)
- FORMER MGP SITE BOUNDARY

SOURCE:

FIGURE BASED ON *FIGURE 10: POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER,* SEPTEMBER 17, 2018 PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

Periodic Review Report
Hempstead Intersection Street Former MGP
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POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER - SEPTEMBER 18, 2020

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NATIONAL GRID
FORMER MGP SITE

45.26
HIMW–11I

45.70
HIMW–03I

45.02
HIMW–27I

45.19
HIMW–10I

44.64
HIMW–28I

HIMW–04I
44.50

41.79*
HIMW–05I

45.70
HIMW–09I

45.0

HIMW–26I
NM

44.21
HIMW–08I

44.0

43.63
HIMW–25

43.21
HIMW–20I

44.56
HIMW–24

43.0

HIMW–12I
43.00

44.45
HIMW–23

43.31
HIMW–22

42.0

HIMW–13I
41.97

HIMW–14I
41.29

41.0

40.0

39.0

38.0

37.28
HIMW–15I

0 300 600
SCALE, FEET

LEGEND:

- ⊕ MONITORING WELL
- GROUNDWATER FLOW DIRECTION
- 42.0 POTENTIOMETRIC SURFACE CONTOUR
- 37.28 GROUNDWATER ELEVATION (FT. AMSL)
- 41.79* GROUNDWATER ELEVATION NOT USED TO GENERATE CONTOURS
- NM NOT MEASURED DURING THIS SAMPLING EVENT
- FORMER MGP SITE BOUNDARY

SOURCE:
FIGURE BASED ON *FIGURE 11: POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER,* SEPTEMBER 17, 2018 PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

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POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER - SEPTEMBER 18, 2020

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NATIONAL GRID
FORMER MGP SITE

45.50
HIMW–03D

45.26
HIMW–11D

39.67*
HIMW–05D

HIMW–04D
43.76

HIMW–26D
44.48

HIMW–09D
45.65

HIMW–08D
44.19

HIMW–12D

HIMW–13D
41.94

HIMW–14D
38.23

36.38
HIMW–15D

45.0
44.0
43.0
42.0
41.0
40.0
39.0
38.0
37.0

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

N

0 300 600
SCALE, FEET

LEGEND:

- MONITORING WELL
- ABANDONED MONITORING WELL (NOT MEASURED)
- GROUNDWATER FLOW DIRECTION
- 37.0 — POTENTIOMETRIC SURFACE CONTOUR
- 36.96 — GROUNDWATER ELEVATION (FT. AMSL)
- 39.67* — GROUNDWATER ELEVATION NOT USED TO GENERATE CONTOURS
- FORMER MGP SITE BOUNDARY

SOURCE:
FIGURE BASED ON *FIGURE 12: POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER,* SEPTEMBER 17, 2018 PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

Periodic Review Report
Hempstead Intersection Street Former MGP
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POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER - SEPTEMBER 18, 2020

Project 1905774 | April 2021 | Fig. 9

\\geiconsulta B:\Working\NATIONAL GRID\1905774 OM&M Services-Downstate, NY\00_CAD\Figures\HPRR_2020\1905774_HIPRR_GWCD.dwg - 4/5/2021

PZ–02
46.87
47.12
PZ–03
NATIONAL GRID
FORMER MGP SITE
47.0
45.89
HIMW–11S
NM
OSMW–2
45.50
HIMW–10S
HIMW–03S
46.81
46.43
OSMW–3
45.63
HIMW–28S
HIMW–04S
45.47
46.14
HIMW–09S
46.0
HIMW–05S
46.21
HIMW–27S
45.71
HIMW–08S
44.94
45.0
HIMW–20S
43.81
44.0
HIMW–12S
43.58
43.0
HIMW–13S
42.56
MAIN STREET
FRANKLIN AVENUE
OLD FRANKLIN STREET
MEADOW PLACE
STOWE PLACE
SAMMIS PLACE
MILLER PLACE
UNION PLACE
SECOND STREET
HILTON AVENUE
BARNES LANE
WYDLER PLACE
WENDELL STREET
L.I.R.R. R.O.W.
INTERSECTION STREET
SEALEY AVENUE
SMITH STREET
ATLANTIC AVENUE
GARDEN PLACE
KENSINGTON COURT
CHELSEA PLACE
CATHEDRAL AVENUE
CATHEDRAL COURT
HILTON PLACE
MIRSCHEL PARK
TERRACE AVENUE
MARGARET COURT
BEDELL STREET
RUNDLE COURT
RYAN COURT
NORTH FRANKLIN STREET
WEST COLUMBIA ST
JACKSON STREET
KELLUM PLACE
MULFORD PLACE
ST. PAUL'S
FULTON AVENUE
BELL STREET

0 300 600
SCALE, FEET

LEGEND:

- MONITORING WELL
- PIEZOMETER
- GROUNDWATER FLOW DIRECTION
- 44.0 — POTENTIOMETRIC SURFACE CONTOUR
- 42.56 — GROUNDWATER ELEVATION (FT. AMSL)
- NM — NOT MEASURED DURING THIS SAMPLING EVENT
- FORMER MGP SITE BOUNDARY

SOURCE:

FIGURE BASED ON *FIGURE 10: POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER,* SEPTEMBER 17, 2018 PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

Periodic Review Report
Hempstead Intersection Street Former MGP
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POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER - MARCH 2021

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NATIONAL GRID
FORMER MGP SITE

45.86
HIMW–11I

45.65
HIMW–03I

45.10
HIMW–27I

45.56
HIMW–10I

45.69
HIMW–28I

HIMW–04I

45.21
HIMW–26I

46.11
HIMW–05I

46.14
HIMW–09I

44.76
45.16
HIMW–08I

44.09
HIMW–25

43.85
HIMW–20I

45.11
HIMW–24

HIMW–12I
43.67

44.19
HIMW–23

45.07
HIMW–22

HIMW–13I
42.53

HIMW–14I
42.01

HIMW–15I
40.68

46.0
45.0
44.0
43.0
42.0
41.0

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

0 300 600
SCALE, FEET

LEGEND:

- MONITORING WELL
- GROUNDWATER FLOW DIRECTION
- 41.0 POTENTIOMETRIC SURFACE CONTOUR
- 40.68 GROUNDWATER ELEVATION (FT. AMSL)
- NM NOT MEASURED DURING THIS SAMPLING EVENT
- FORMER MGP SITE BOUNDARY

SOURCE:

FIGURE BASED ON *FIGURE 11: POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER,* SEPTEMBER 17, 2018 PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

Periodic Review Report
Hempstead Intersection Street Former MGP
Hempstead/Garden City, New York

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POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER - MARCH 2021

Project 1905774 | April 2021 | Fig. 11

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NATIONAL GRID
FORMER MGP SITE

L.I.R.R. R.O.W.

46.25
HIMW–03D

45.84
HIMW–11D

45.65
HIMW–05D

HIMW–04D
44.78

HIMW–26D
45.05

HIMW–09D
46.24

HIMW–08D
44.79

HIMW–12D

42.51
HIMW–13D

HIMW–14D
40.03

38.33
HIMW–15D

46.0
45.0
44.0
43.0
42.0
41.0
40.0
39.0

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

0 300 600
SCALE, FEET

LEGEND:

- MONITORING WELL
- ABANDONED MONITORING WELL (NOT MEASURED)
- GROUNDWATER FLOW DIRECTION
- 41.0 POTENTIOMETRIC SURFACE CONTOUR
- 38.33 GROUNDWATER ELEVATION (FT. AMSL)
- FORMER MGP SITE BOUNDARY

SOURCE:

FIGURE BASED ON *FIGURE 12: POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER*, SEPTEMBER 17, 2018 PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

Periodic Review Report
Hempstead Intersection Street Former MGP
Hempstead/Garden City, New York

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POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER - MARCH 2021

April 2021 Fig. 12

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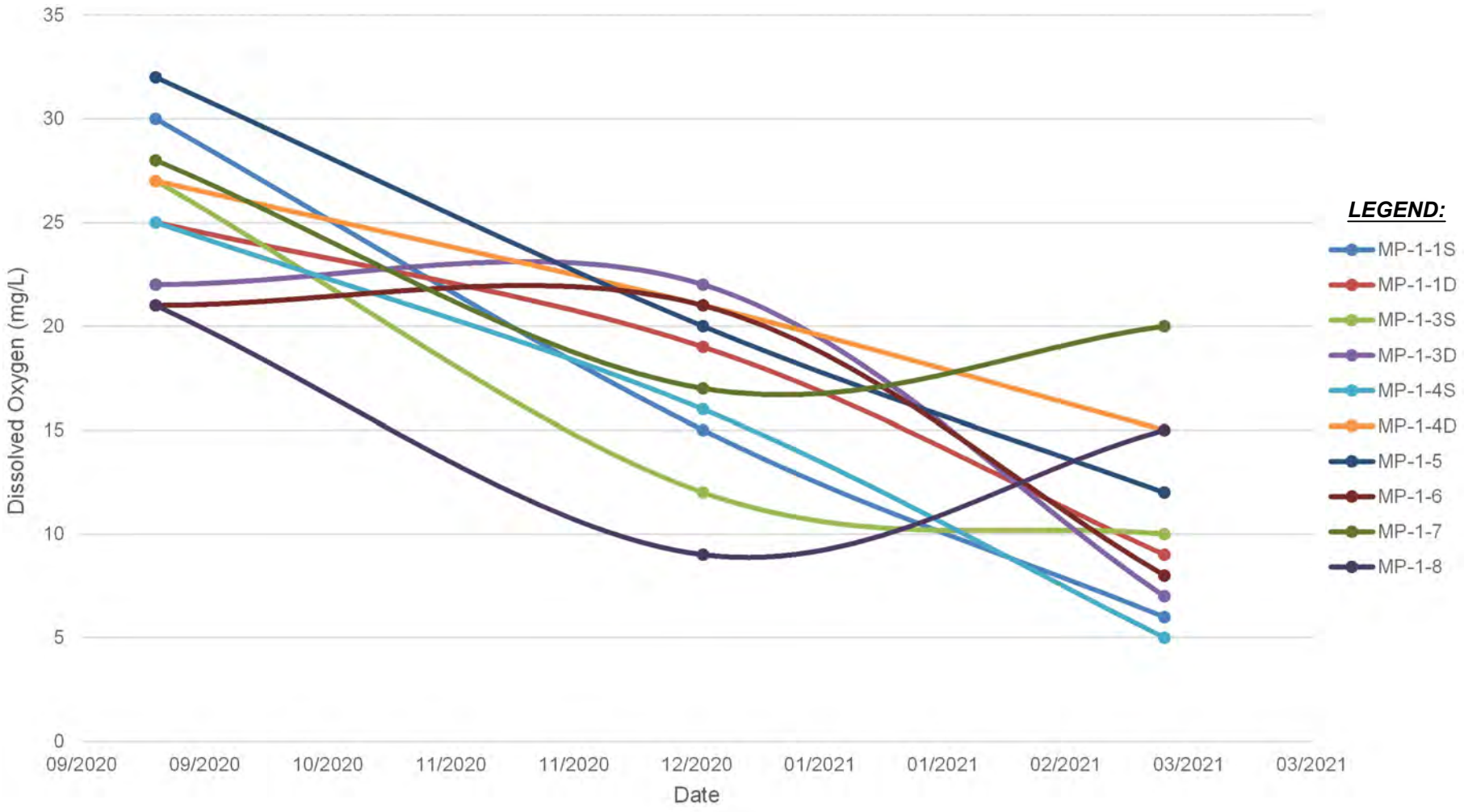

NOTE:

IN JUNE 2017, THE COMPRESSOR ON OXYGEN SYSTEM #1 FAILED; REPLACEMENT COMPRESSOR WAS NOT INSTALLED UNTIL JANUARY 2018.

SOURCE:

FIGURE BASED ON *FIGURE 17: OXYGEN SYSTEM #1, DISSOLVED OXYGEN CONCENTRATIONS,* PREPARED BY AECOM.

Periodic Review Report
Hempstead Intersection Street Former MGP
Hempstead/Garden City, New York

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OXYGEN SYSTEM #1
DISSOLVED OXYGEN
CONCENTRATIONS

Project 1905774 | April 2021 | Fig. 13

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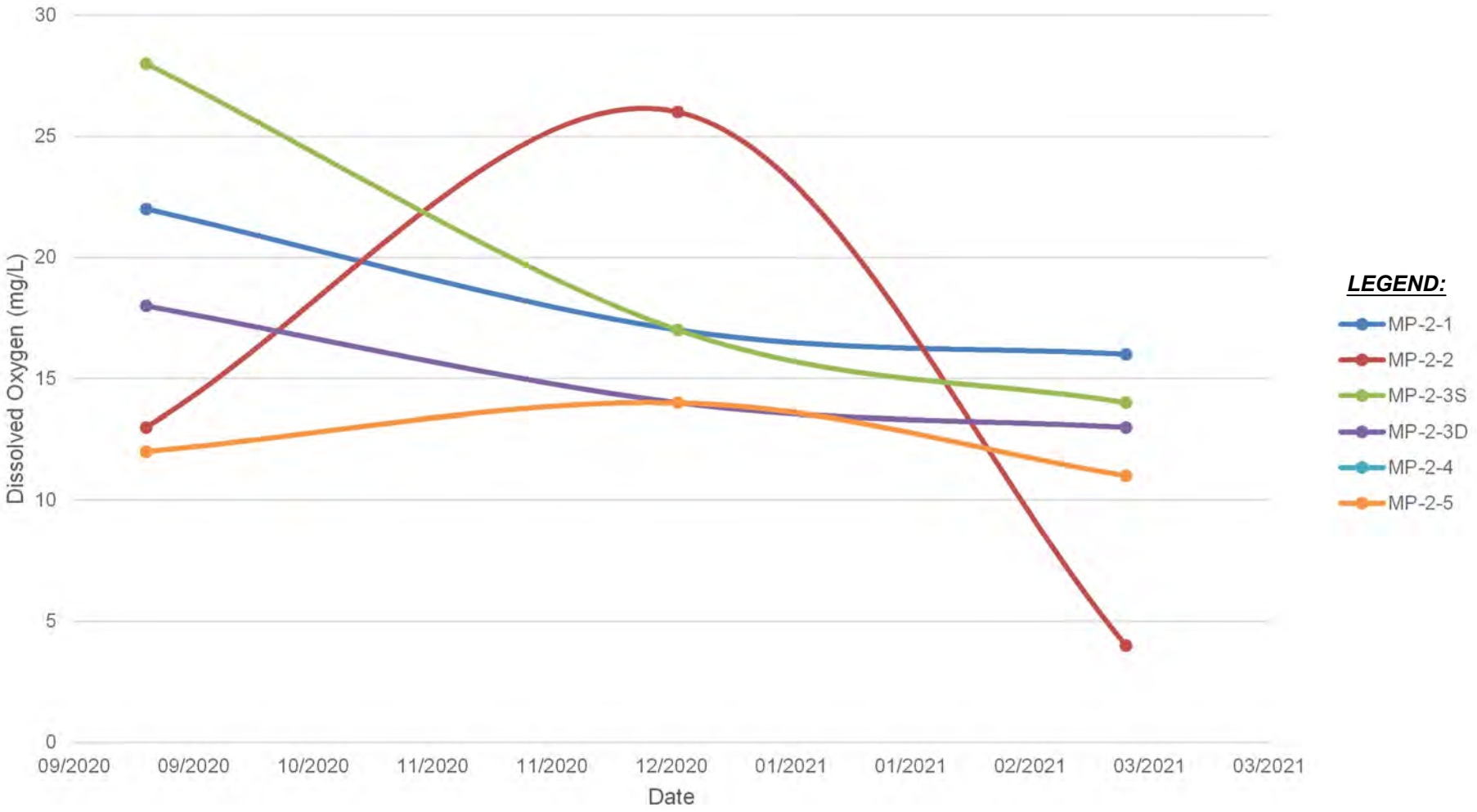

SOURCE:

FIGURE BASED ON *FIGURE 18: OXYGEN SYSTEM #2, DISSOLVED OXYGEN CONCENTRATIONS,* PREPARED BY AECOM.

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Hempstead Intersection Street Former MGP
Hempstead/Garden City, New York

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OXYGEN SYSTEM #2
DISSOLVED OXYGEN
CONCENTRATIONS

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HIMW–003S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
23–33	ND–36 (ND)	ND (ND)
80.5–90.5	ND–13 (ND)	ND (ND)
133–143	ND–8.2 (ND)	ND–30 (ND)

HIMW–008S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
25–35	ND–8,240 (ND)	ND–3,069 (3)
63–73	ND–457 (ND)	ND–251 (ND)
102–112	ND–16 (ND)	ND–46 (ND)

HIMW–011S,I		
DEPTH	TOT. BTEX	TOT. PAHs
28–38	603–13,920	2,813–13,076
80–90	ND–49	ND–3

HIMW–014I,D		
DEPTH	TOT. BTEX	TOT. PAHs
85–95	2–273 (29)	19–288 (42)
140–150	ND–15 (ND)	ND–6 (ND)

HIMW–022		
DEPTH	TOT. BTEX	TOT. PAHs
54–64	ND	ND

HIMW–025		
DEPTH	TOT. BTEX	TOT. PAHs
42–52	552	573

HIMW–004S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
30–40	ND–4	ND–1
80–90	ND–13	ND
167–177	ND–4	ND–1

HIMW–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–012S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
22–32	ND–338.8 (ND)	ND–1,391 (ND)
63–73	6–256 (64)	65–527 (108)
117–127	ND–6 (ND)	ND–2 (ND)

HIMW–015I,D		
DEPTH	TOT. BTEX	TOT. PAHs
80–90	1–111 (23)	ND–273 (31)
141.5–151.5	ND–94 (ND)	ND–1 (ND)

HIMW–023		
DEPTH	TOT. BTEX	TOT. PAHs
66–76	43	11

OSMW–02		
DEPTH	TOT. BTEX	TOT. PAHs
30–40	2,604	3,517

HIMW–005S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
27–37	ND–232 (ND)	ND–765 (ND)
80–90	50–439 (146)	891–5,337 (2,120)
130–140	ND–359 (133)	ND–2,698 (166)

HIMW–010S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
28–38	ND–33	1–150
80.5–90.5	ND–13	ND
112.5–132.5	ND–16	ND

HIMW–013S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
38–48	ND–11 (ND)	ND (ND)
70–80	ND–313 (142)	ND–156 (67)
110–120	1–30 (2)	ND–28 (17)

HIMW–020S,I		
DEPTH	TOT. BTEX	TOT. PAHs
25–35	ND–3 (ND)	ND–5 (ND)
63–73	ND–474 (198)	ND–3,968 (530)

HIMW–024		
DEPTH	TOT. BTEX	TOT. PAHs
44.6–54.6	870	1,020

OSMW–03		
DEPTH	TOT. BTEX	TOT. PAHs
29–39	4,301	2,911

LEGEND:

- MONITORING WELL
- PIEZOMETER
- OXYGEN SYSTEM MONITORING WELL
- EXISTING HOUSE OR BUILDING
- NATIONAL GRID PROPERTY BOUNDARY
- INSTALLED GROUNDWATER TREATMENT SYSTEM
- ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 100 µg/L
- ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 1,000 µg/L

ANALYTICAL BOXES

NA NOT ANALYZED

ND NOT DETECTED

LOCATION ID
DEPTH (ft bgs)

HIMW–024		
DEPTH	TOT. BTEX	TOT. PAHs
44.6–54.6	870	1,020

CONCENTRATION UNITS ARE µg/L HISTORIC RANGE (MAY 2011 CONCENTRATION)

29–39	4,301	2,911

GREY INDICATES WELL NOT SAMPLED IN MAY 2011

SOURCE:

FIGURE BASED ON *FIGURE 14: EXTENT OF DISSOLVED-PHASE PLUME AND GROUNDWATER ANALYTICAL RESULTS - MAY 2011, HEMPSTEAD INTERSECTION STREET FORMER MGP SITE,* PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

0 300 600

SCALE: 1" = 300'

Periodic Review Report
Hempstead Intersection Street Former MGP
Hempstead/Garden City, New York

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EXTENT OF DISSOLVED-PHASE PLUME AND GROUNDWATER ANALYTICAL RESULTS - MAY 2011

April 2021 Fig. 15

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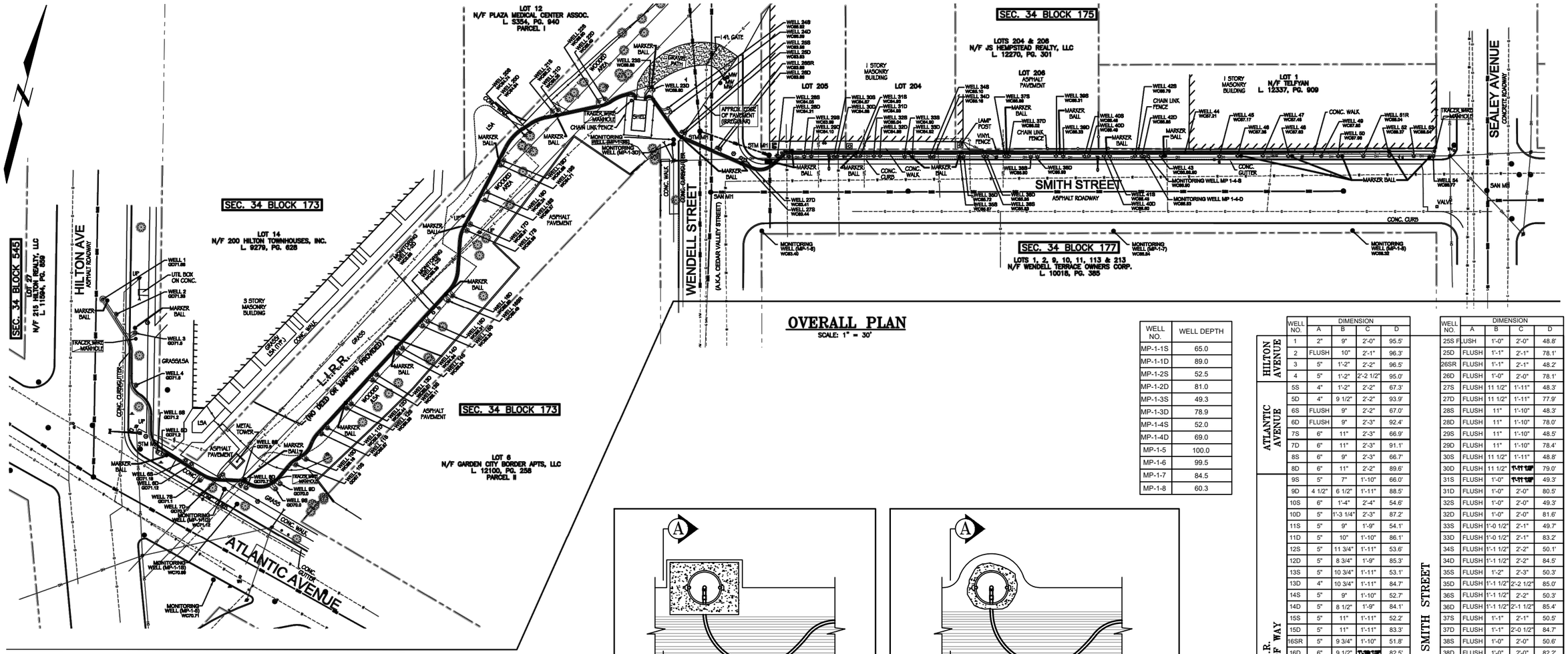


OVERALL PLAN

SCALE: 1" = 30'

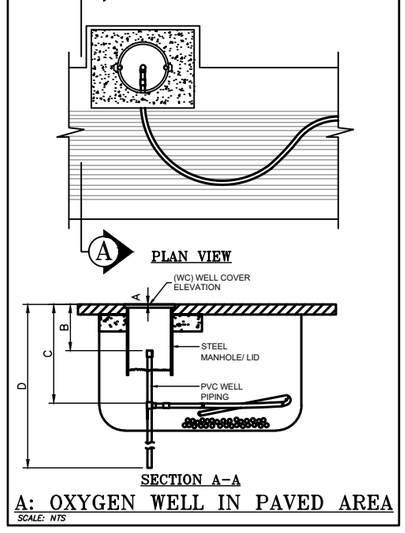
WELL NO.	WELL DEPTH
MP-1-1S	65.0
MP-1-1D	89.0
MP-1-2S	52.5
MP-1-2D	81.0
MP-1-3S	49.3
MP-1-3D	78.9
MP-1-4S	52.0
MP-1-4D	69.0
MP-1-5	100.0
MP-1-6	99.5
MP-1-7	84.5
MP-1-8	60.3

	WELL NO.	DIMENSION A	B	C	D
HILTON AVENUE	1	2"	9"	2'-0"	95.5'
	2	FLUSH	10"	2'-1"	96.3'
	3	5"	1'-2"	2'-2"	96.5'
	4	5"	1'-2"	2'-2 1/2"	95.0'
ATLANTIC AVENUE	5S	4"	1'-2"	2'-2"	67.3'
	5D	4"	9 1/2"	2'-2"	93.9'
	6S	FLUSH	9"	2'-2"	67.0'
	6D	FLUSH	9"	2'-3"	92.4'
	7S	6"	11"	2'-3"	66.9'
	7D	6"	11"	2'-3"	91.1'
	8S	6"	9"	2'-3"	66.7'
	8D	6"	11"	2'-2"	89.6'
L.I.R.R. RIGHT OF WAY	9S	5"	7"	1'-10"	66.0'
	9D	4 1/2"	6 1/2"	1'-11"	88.5'
	10S	6"	1'-4"	2'-4"	54.6'
	10D	5"	1'-3 1/4"	2'-3"	87.2'
	11S	5"	9"	1'-9"	54.1'
	11D	5"	10"	1'-10"	86.1'
	12S	5"	11 3/4"	1'-11"	53.6'
	12D	5"	8 3/4"	1'-9"	85.3'
	13S	5"	10 3/4"	1'-11"	53.1'
	13D	4"	10 3/4"	1'-11"	84.7'
	14S	5"	9"	1'-10"	52.7'
	14D	5"	8 1/2"	1'-9"	84.1'
	15S	5"	11"	1'-11"	52.2'
	15D	5"	11"	1'-11"	83.3'
	16SR	5"	9 3/4"	1'-10"	51.8'
	16D	6"	9 1/2"	1'-10 1/2"	82.5'
	17S	6"	11 1/4"	2'-0"	50.7'
	17D	5"	6 3/4"	1'-7"	79.5'
	18S	5"	7 1/2"	1'-9"	50.2'
	18D	5"	7 5/8"	1'-8"	78.3'
	19S	6"	12 1/4"	2'-1"	49.7'
	19D	6"	12 3/8"	2'-1"	78.9'
	20S	6"	9 5/8"	1'-9"	49.3'
	20D	6"	11 3/8"	1'-11 1/2"	79.5'
	21S	5 1/2"	11 1/2"	1'-11"	49.3'
	21D	6"	10"	1'-11 1/2"	79.5'
	22S	5"	9 1/4"	1'-10 1/2"	49.3'
	22D	5"	9 1/4"	1'-10"	79.5'
	23S	5"	12 1/4"	2'-0 1/2"	48.8'
	23D	6"	11 3/4"	1'-11 1/2"	78.7'
	24S	6"	12 5/8"	2'-0"	48.4'
	24D	6"	9"	1'-8 1/2"	78.2'

	WELL NO.	DIMENSION A	B	C	D
SMITH STREET	25S	FLUSH	1'-0"	2'-0"	48.8'
	25D	FLUSH	1'-1"	2'-1"	78.1'
	26SR	FLUSH	1'-1"	2'-1"	48.2'
	26D	FLUSH	1'-0"	2'-0"	78.1'
	27S	FLUSH	11 1/2"	1'-11"	48.3'
	27D	FLUSH	11 1/2"	1'-11"	77.9'
	28S	FLUSH	11"	1'-10"	48.3'
	28D	FLUSH	11"	1'-10"	78.0'
	29S	FLUSH	11"	1'-10"	48.5'
	29D	FLUSH	11"	1'-10"	78.4'
	30S	FLUSH	11 1/2"	1'-11"	48.8'
	30D	FLUSH	11 1/2"	1'-11 1/2"	79.0'
	31S	FLUSH	1'-0"	1'-11 1/2"	49.3'
	31D	FLUSH	1'-0"	2'-0"	80.5'
	32S	FLUSH	1'-0"	2'-0"	49.3'
	32D	FLUSH	1'-0"	2'-0"	81.6'
	33S	FLUSH	1'-0 1/2"	2'-1"	49.7'
	33D	FLUSH	1'-0 1/2"	2'-1"	83.2'
	34S	FLUSH	1'-1 1/2"	2'-2"	50.1'
	34D	FLUSH	1'-1 1/2"	2'-2"	84.5'
	35S	FLUSH	1'-2"	2'-3"	50.3'
	35D	FLUSH	1'-1 1/2"	2'-2 1/2"	85.0'
	36S	FLUSH	1'-1 1/2"	2'-2"	50.3'
	36D	FLUSH	1'-1 1/2"	2'-1 1/2"	85.4'
	37S	FLUSH	1'-1"	2'-1"	50.5'
	37D	FLUSH	1'-1"	2'-0 1/2"	84.7'
	38S	FLUSH	1'-0"	2'-0"	50.6'
	38D	FLUSH	1'-0"	2'-0"	82.2'
	39S	FLUSH	11"	1'-11"	50.7'
	39D	FLUSH	11 1/2"	1'-11"	78.5'
	40S	FLUSH	11 1/2"	1'-11"	51.1'
	40D	FLUSH	11"	1'-10 1/2"	76.1'
	41S	FLUSH	1'-0"	2'-0"	51.5'
	41D	FLUSH	1'-1"	2'-1"	73.6'
	42S	FLUSH	1'-2"	2'-1"	51.3'
	42D	FLUSH	1'-2"	2'-2 1/2"	71.0'
	43	FLUSH	1'-2"	2'-3"	67.4'
	44	FLUSH	1'-2"	2'-2 1/2"	66.6'
	45	FLUSH	1'-3"	2'-3"	65.7'
	46	FLUSH	1'-3"	2'-3"	64.3'
	47	FLUSH	1'-3"	2'-3 1/2"	63.4'
	48	FLUSH	1'-3"	2'-3 1/2"	62.5'
	49	FLUSH	1'-3"	2'-3"	61.5'
	50	FLUSH	1'-3"	2'-3"	60.8'
	51R	FLUSH	1'-3"	2'-3"	60.4'
	52	FLUSH	1'-4"	2'-4"	59.3'
	53	FLUSH	1'-4"	2'-4"	60.2'
	54	FLUSH	1'-4"	2'-4"	60.2'

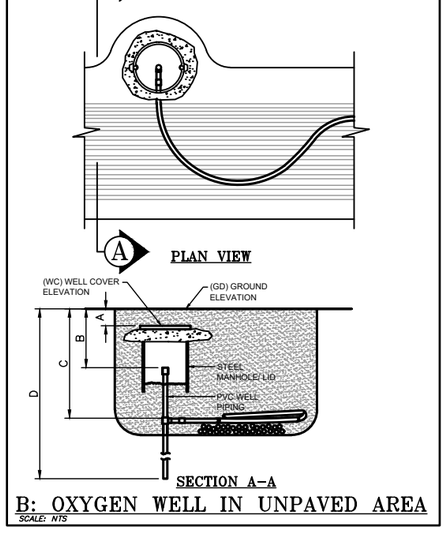
MAP LEGEND

PROPERTY LINE	MANHOLE
APPROX. LOC. U.G. WATER LINE	INLET
APPROX. LOC. U.G. TELEPHONE LINE	SEWER CLEANOUT
APPROX. LOC. U.G. GAS LINE	UTILITY POLE
APPROX. LOC. U.G. ELECTRIC LINE	UTILITY POLE/LIGHT POLE
APPROX. LOC. U.G. TELEVISION LINE	GUY ANCHOR
APPROX. LOC. U.G. UNIDENTIFIED UTILITY LINE	TREE STUMP
APPROX. LOC. U.G. SAN. SEWER LINE	TREE
APPROX. LOC. U.G. STM. SEWER LINE	BUILDING FOOTPRINT (NOT FIELD VERIFIED)
HYDRANT	OXYGEN WELL MANHOLE
WATER VALVE	MARKER BALL
3/4" TUBING	TRACER WIRE MANHOLE
WC12.34 GD12.3 — DENOTES ELEVATION AT WELL COVER (WC), TOP OF PIPE (TP) OR GROUND (GD)	MONITORING WELL
	LSA — LANDSCAPED AREA



A: OXYGEN WELL IN PAVED AREA

SCALE: NTS



B: OXYGEN WELL IN UNPAVED AREA

SCALE: NTS

SOURCE:

FIGURE BASED ON *FIGURE 15: SYSTEM #1 OXYGEN WELL LOCATION - SITE PLAN, HEMPSTEAD INTERSECTION STREET FORMER MGP SITE,* PREPARED BY AECOM, SCALE: 1" = 60', DATE: 2/22/19.

0 60 120

SCALE: 1" = 60'

Periodic Review Report
Hempstead Intersection Street Former MGP
Hempstead/Garden City, New York

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SYSTEM #1 OXYGEN WELL LOCATION SITE PLAN

April 2021 Fig. 16

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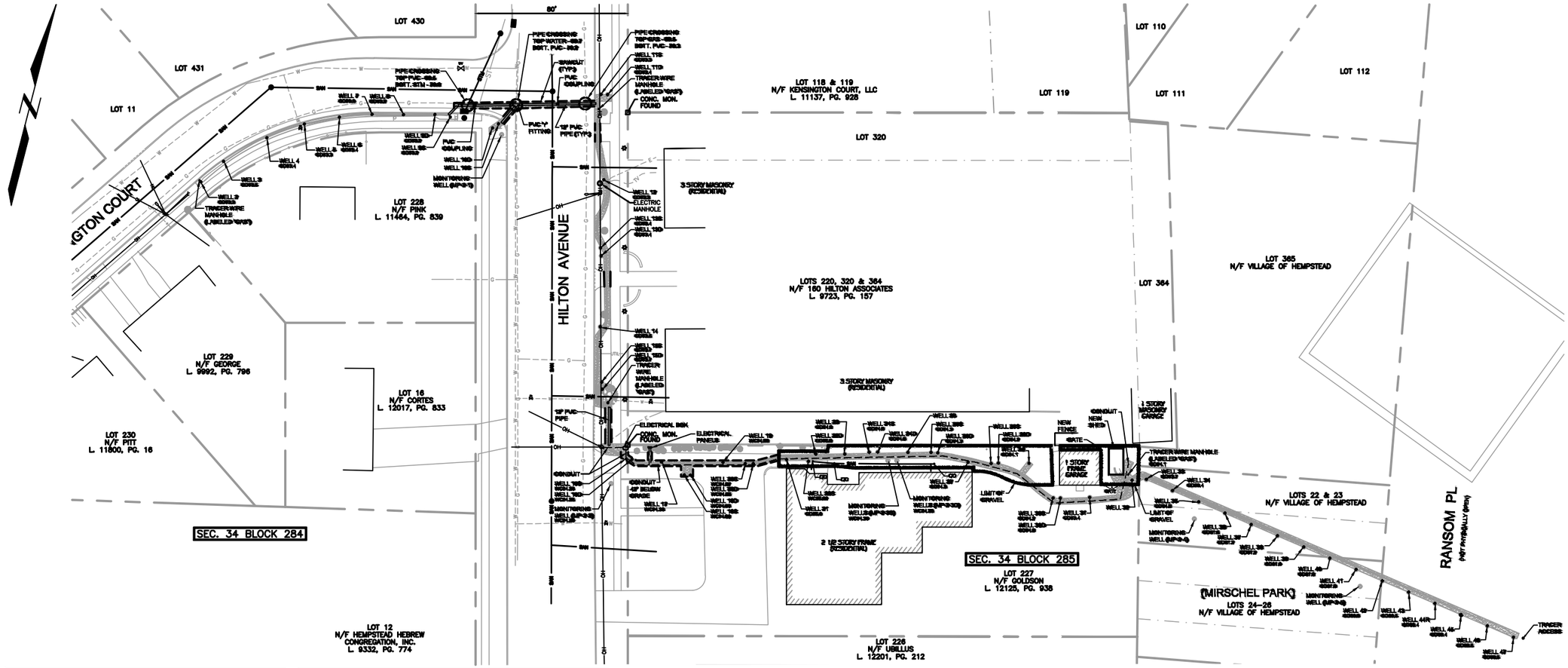


OVERALL PLAN

SCALE: 1" = 60'

WELL NO.	WELL DEPTH
MP-2-1	97'
MP-2-2	94'
MP-2-3D	97'
MP-2-3S	73.5'
MP-2-4	70.2'
MP-2-5	61.7'

MAP LEGEND

- PROPERTY LINE
- APPROX. LOC. U.G. WATER LINE
- APPROX. LOC. U.G. GAS LINE
- APPROX. LOC. U.G. ELECTRIC LINE
- APPROX. LOC. U.G. TELEVISION LINE
- APPROX. LOC. U.G. UNIDENTIFIED UTILITY LINE
- APPROX. LOC. U.G. SAN. SEWER LINE
- APPROX. LOC. U.G. STM. SEWER LINE
- HYDRANT
- WATER VALVE
- MANHOLE
- INLET
- SEWER CLEANOUT
- UTILITY POLE
- UTILITY POLE/LIGHT POLE
- GUY ANCHOR
- TREE STUMP
- TREE WITH DIAMETER
- BUILDING FOOTPRINT (NOT FIELD VERIFIED)

PROPOSED LEGEND

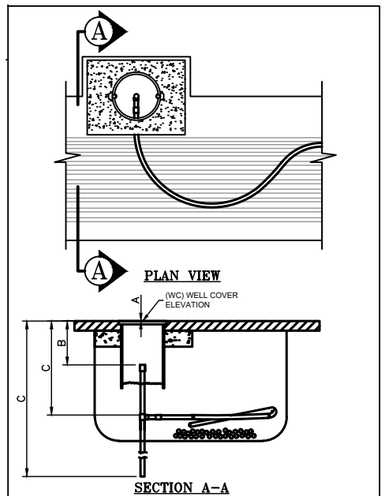
- APPROX. LOC. OF TRENCH
- IOCATION OF U.G. CONDUIT
- LIMIT OF GRAVEL
- SAWCUT LINE
- OXYGEN WELL MANHOLE
- MONITORING WELL
- TRACER WIRE MANHOLE
- 3/4" TUBING
- WC12.34 TP12.34 GD12.3 — DENOTES ELEVATION AT WELL COVER (WC), TOP OF PIPE (TP) OR GROUND (GD)

NOTES:

1. GROUND & WELL COVER ELEVATIONS OBTAINED BY GALLAS SURVEYING GROUP. ELEVATION DATUM IS BASED UPON DESIGN CAD FILES PROVIDED BY CLIENT.
2. LOCATION OF BURIED WELLS AND DIMENSIONS B & C ON WELLS AND PIPE CROSSING DEPTHS WERE OBTAINED BY HIGH POINT ENGINEERING DURING CONSTRUCTION.
3. WELL DEPTHS (DIMENSION 'D') WERE PROVIDED BY FENELY & NICOL ENVIRONMENTAL, INC., 445 BROOK AVENUE, DEER PARK, NY, 11729

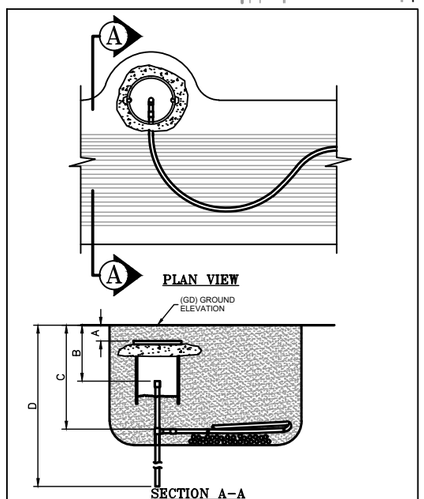
	WELL NO.	DIMENSION A	B	C	D
RESIDENTIAL PROPERTY — KENSINGTON COURT	2	2-1/2"	11"	2'-1"	90.2'
	3	2-1/2"	10"	1'-11"	94.3'
	4	3"	1'-2"	1'-11"	94.7'
	5	3-1/2"	9"	1'-10"	95.3'
	6	2-1/2"	9-1/2"	1'-9"	95.7'
	7	3-1/2"	10"	1'-11"	96'
	8	3-1/2"	9-1/2"	1'-11"	96.3'
	9D	4-1/2"	8-1/2"	1'-11"	96.7'
	9S	3-1/2"	11"	1'-9 1/2"	75'
HILTON AVE.	10S	2"	9"	2'-0"	75'
	10D	2"	9-1/2"	2'-0"	97.2'
	11S	6"	9"	2'-0"	76.5'
	11D	4"	9"	2'-0"	100.8'
	12	4-3/4"	1'-0"	2'-4"	94'
	13S	5-1/2"	1'-2"	2'-3 1/2"	75'
	13D	6"	1'-1"	2'-6"	97'
	14	5-1/2"	11"	2'-2"	96.4'
	15S	4"	1'-2"	2'-7 1/2"	75'
	15D	6-1/2"	1'-0"	2'-7"	94.6'
	16S	FLUSH	9-1/2"	2'-3"	75.5'
	16D	FLUSH	1'-0"	2'-6"	94.1'
	17	FLUSH	8 1/2"	2'-1/2"	95'
	18S	FLUSH	7"	1'-8 1/2"	74.5'
	18D	FLUSH	9"	1'-9"	95.5'
	19	FLUSH	9-1/2"	1'-9 1/2"	96.1'
	20S	FLUSH	11"	2'-1/2"	74'
	20D	FLUSH	11"	1'-11 1/2"	96.6'
	21	3"	1'-1"	1'-8"	96.6'
	22S	5"	1'-1 1/2"	2'-0"	76'
	22D	4"	1'-4"	2'-4"	96.3'
	23	2"	1'-1"	2'-2"	97.2'
PARK AREA	24S	2-1/2"	1'-1/2"	1'-10"	77.8'
	24D	3-1/4'	1'-2"	1'-11"	97'
	25	3"	1'-1"	1'-9"	96'
	26S	3"	1'-0"	2'-2"	74'
	26D	3"	1'-1"	2'-0"	95'
	27	2"	1'-0"	1'-11"	93.5'
	28S	2-1/2"	11"	1'-11"	76'
	28D	4"	1'-1/2"	2'-0"	92.1'
	29	4-1/2"	11"	1'-11"	92.2'
	30S	3"	10"	2'-2"	67.8'
	30D	2-1/2"	1'-1/2"	2'-3"	88'
	31	4"	1'-4"	2'-2"	86'
	32	4"	6"	1'-11"	84'
	*33	8"	1'-0"	2'-0"	82'
	*34	8"	1'-0"	2'-0"	71'
	*35	6"	1'-0"	2'-0"	69.2'
	36	5-1/2"	11"	1'-11"	64.8'
	37	2-3/4"	1'-1/2"	1'-11"	62.8'
	38	3-3/4"	1'-1 3/4"	2'-0"	62.1'
	39	4"	1'-3/4"	2'-0"	60'
	40	3-3/4"	11-1/2"	1'-11"	61.7'
	41	4-3/4"	1'-0"	1'-11"	61.7'
	42	3-1/2"	1'-1/2"	1'-11"	61.6'
	43	3-1/2"	1'-0"	2'-0"	61.4'
	44R	4-1/2"	11"	1'-11"	60.6'
	45	4-1/4"	11-3/8"	1'-11"	61.1'
	46	1-1/2"	11"	1'-10"	61'
	47	2-1/2"	7-3/4"	1'-10"	60.5'

* LOCATED ON SLOPE



A: OXYGEN WELL IN PAVED AREA

SCALE: NTS



B: OXYGEN WELL IN UNPAVED AREA

SCALE: NTS

0 60 120

SCALE: 1" = 60'

SOURCE:

FIGURE BASED ON *FIGURE 16: SYSTEM #2 OXYGEN WELL LOCATION - SITE PLAN, HEMPSTEAD INTERSECTION STREET FORMER MGP SITE,* PREPARED BY AECOM, SCALE: 1" = 60', DATE: 2/5/19.

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Hempstead/Garden City, New York

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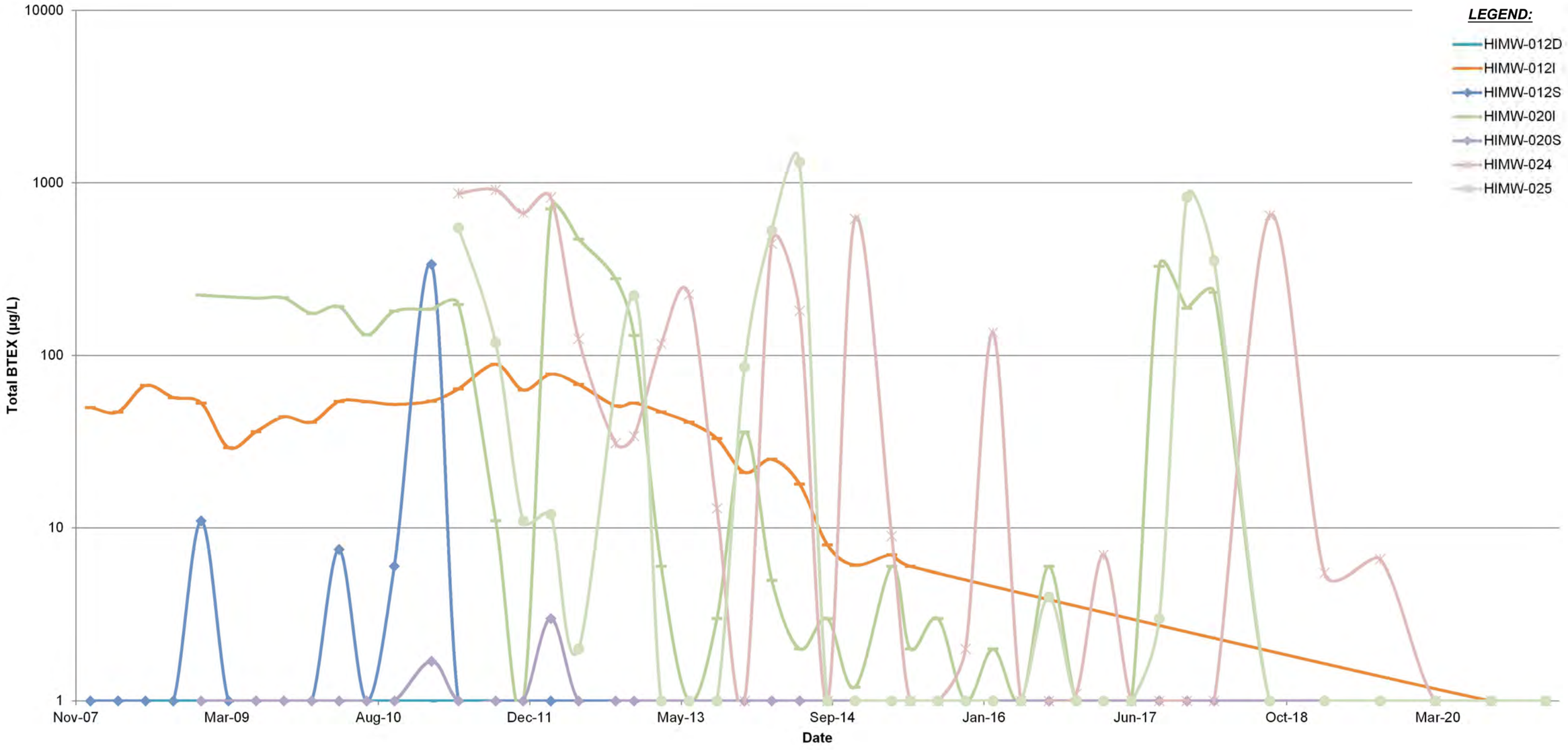
SYSTEM #2 OXYGEN WELL LOCATION SITE PLAN

April 2021 Fig. 17

\\geiconsulta B:\Working\NATIONAL GRID\1905774 OM&M Services-Downstate, NY\00_CAD\Figures\HPRR_2020\1905774_HIPRR_SPLN.dwg - 4/5/2021



NOTE:
SYSTEM #1 AND 2 BECAME OPERATIONAL IN APRIL 2011 AND OCTOBER 2010, RESPECTIVELY.

SOURCE:
FIGURE BASED ON *FIGURE 19A: TOTAL BTEX CONCENTRATIONS IN WELLS DOWNGRADIENT FROM OXYGEN SYSTEM #1 AND UPGRADIENT FROM OXYGEN SYSTEM #2*, PREPARED BY AECOM.

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TOTAL BTEX CONCENTRATIONS IN WELLS DOWNGRADIENT FROM OXYGEN SYSTEM #1 AND UPGRADIENT FROM OXYGEN SYSTEM #2

Project 1905774 | April 2021 | Fig. 18A

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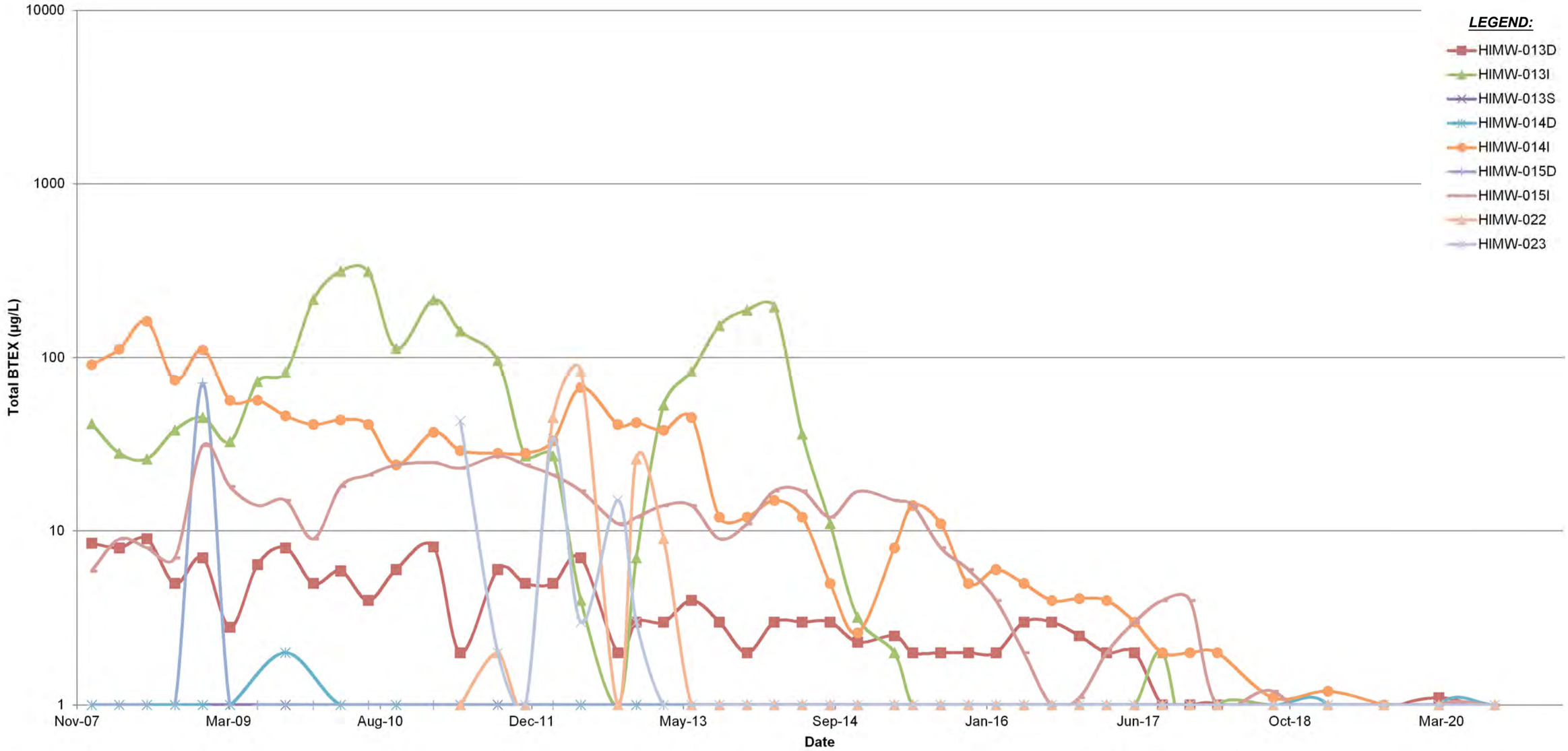

NOTE:
SYSTEM #1 AND 2 BECAME OPERATIONAL IN APRIL 2011 AND OCTOBER 2010, RESPECTIVELY.

SOURCE:
FIGURE BASED ON *FIGURE 19B: TOTAL BTEX CONCENTRATIONS IN WELLS DOWNGRADIENT FROM OXYGEN SYSTEM #1 AND 2,* PREPARED BY AECOM.

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Hempstead Intersection Street Former MGP
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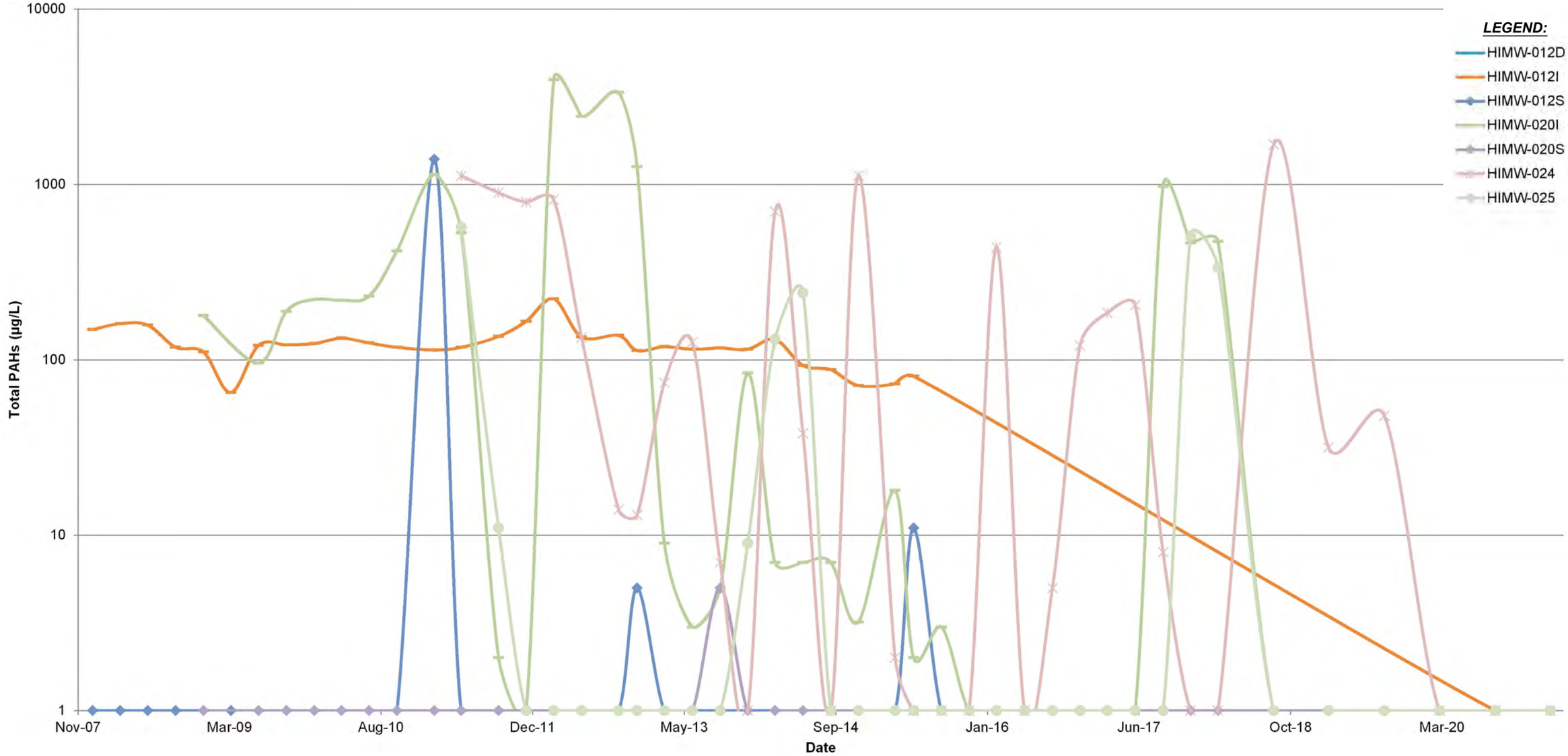
TOTAL BTEX CONCENTRATIONS IN WELLS DOWNGRADIENT FROM OXYGEN SYSTEMS #1 AND 2

Project 1905774 | April 2021 | Fig. 18B

\\geiconsulta B:\Working\NATIONAL GRID\1905774 OM&M Services-Downstate, NY\00_CAD\Figures\HPRR_2020\1905774_HIPRR_GRPH.dwg - 4/5/2021



NOTE:
SYSTEM #1 AND 2 BECAME OPERATIONAL IN APRIL 2011 AND OCTOBER 2010, RESPECTIVELY.

SOURCE:
FIGURE BASED ON *FIGURE 20A: TOTAL BTEX CONCENTRATIONS IN WELLS DOWNGRADIENT FROM OXYGEN SYSTEM #1 AND UPGRADIENT FROM OXYGEN SYSTEM #2,* PREPARED BY AECOM.

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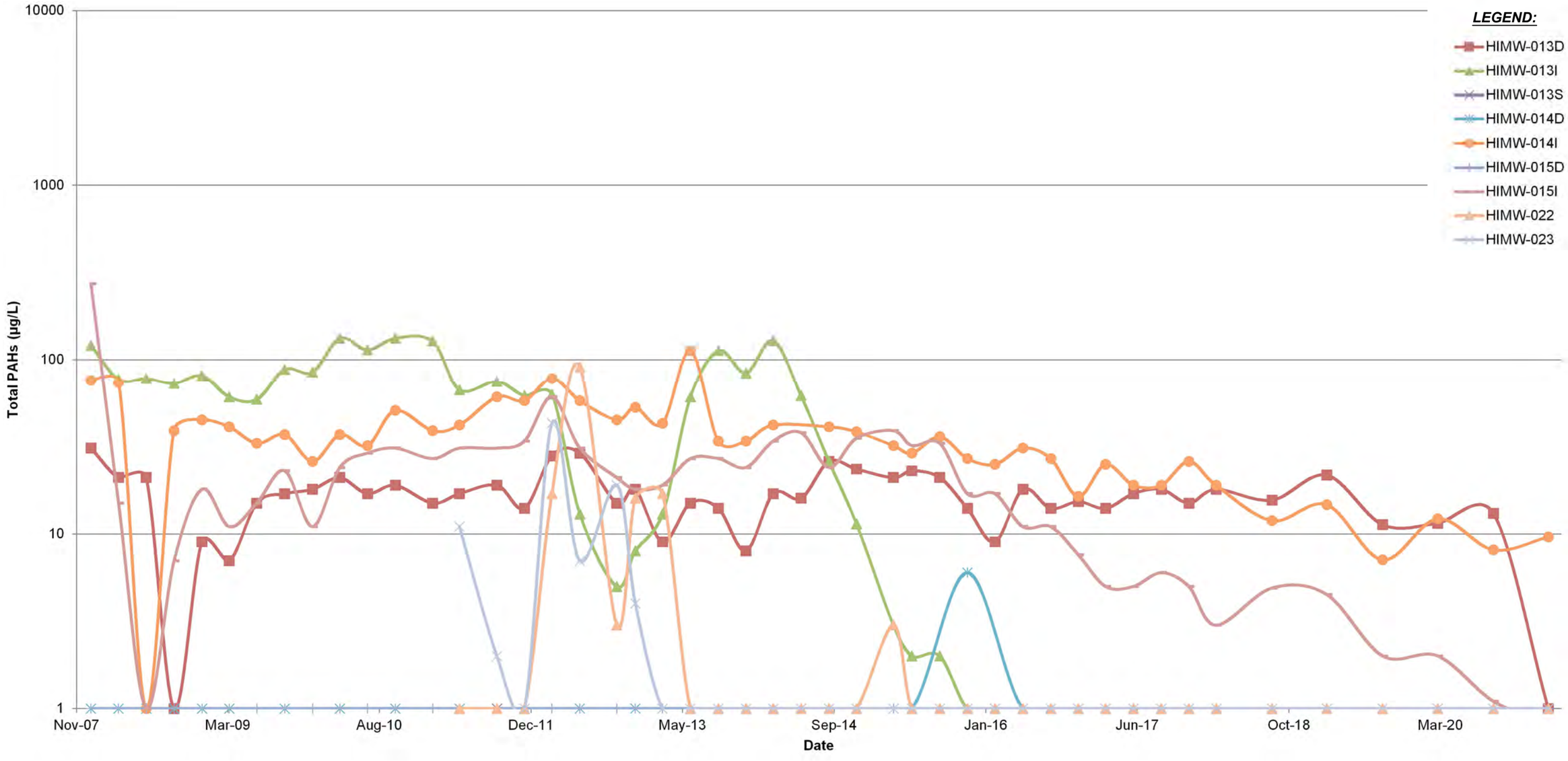
TOTAL PAH CONCENTRATIONS IN WELLS DOWNGRADIENT FROM OXYGEN SYSTEMS #1 AND UPGRADIENT FROM OXYGEN SYSTEM #2

April 2021 Fig. 19A

\\geiconsulta B:\Working\NATIONAL GRID\1905774 OM&M Services-Downstate, NY\00_CAD\Figures\HPRR_2020\1905774_HIPRR_GRPH.dwg - 4/5/2021



NOTE:
SYSTEM #1 AND 2 BECAME OPERATIONAL IN APRIL 2011 AND OCTOBER 2010, RESPECTIVELY.

SOURCE:
FIGURE BASED ON *FIGURE 20B: TOTAL BTEX CONCENTRATIONS IN WELLS DOWNGRADIENT FROM OXYGEN SYSTEM #1 AND 2,* PREPARED BY AECOM.

Periodic Review Report
Hempstead Intersection Street Former MGP
Hempstead/Garden City, New York

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TOTAL PAH CONCENTRATIONS IN WELLS DOWNGRADIENT FROM OXYGEN SYSTEMS #1 AND 2

Project 1905774 | April 2021 | Fig. 19B

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Appendix A

NYSDEC Correspondence

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau C
625 Broadway, 11th Floor, Albany, NY 12233-7014
P: (518) 402-9662 I F: (518) 402-9679
www.dec.ny.gov

June 1, 2018

William J. Ryan
Manager-DNY MGP Program
Site Investigation and Remediation Department
National Grid
175 East Old Country Road
Hicksville, NY 11801

Re: Hempstead Intersection St. Former MGP Site, Hempstead, Nassau Co.
Site 130086
2017 Annual Report

Dear Mr. Ryan:

Thank you and Jon Sundquist for AECOM's May 3, 2018, "2017 Annual Groundwater Sampling, NAPL Monitoring/Recovery and Groundwater Treatment Performance Report for the Hempstead Intersection Street Former Manufactured Gas Plant Site". The Report is approved.

National Grid's request to reduce the frequency of groundwater sampling and analysis to semi-annually is approved. In lieu of an annual report, the Department of Environmental Conservation requests that the 2017 sampling results be presented in the Periodic Review Report. The due date for the Periodic Review Report has been extended to March 1, 2019 in order to accommodate the September sampling round.

If you have any questions please contact me at (518) 402-9686.

Sincerely,

John Spellman

John Spellman, P.E.
Project Manager
Division of Environmental Remediation

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau C
625 Broadway, 11th Floor, Albany, NY 12233-7014
P: (518) 402-9662 I F: (518) 402-9679
www.dec.ny.gov

October 24, 2019

Jonathan Mitchell
Project Engineer
National Grid
175 East Old Country Road
Hicksville, NY 11801

Re: Hempstead Intersection St. Former MGP Site, Hempstead, Nassau Co.
Site 130086
Dissolved Oxygen Sampling

Dear Mr. Mitchell:

The New York State Department of Environmental Conservation is in receipt of your October 18, 2019 request to reduce the sampling frequency for dissolved oxygen from monthly to quarterly at the subject site. National Grid's request is approved.

Sincerely,

John Spellman, P.E.
Project Manager
Division of Environmental Remediation

Appendix B

Inspection Form

HEMPSTEAD INTERSECTION STREET FORMER MGP SITE
VILLAGES OF HEMPSTEAD AND GARDEN CITY, NASSAU COUNTY, NY
SITE-WIDE INSPECTION FORM

GENERAL INFORMATION

Date:	March 5, 2021	**Inspector:**	Craig Hayes
Weather:	Sunny	**Signature:**	Craig Hayes
Temperature:	~35 degrees	**Company:**	GEI Consultants
Season (circle one):	(Winter)	Spring	Summer Fall

SITE INSPECTION LOG SHEET*

Evidence of Change in Site Use	(Yes) No	**Description of New/Additional Site Use**	Site is used as a laydown area for gas main construction, no intrusive work observed. Also additional area is used by dealership to park cars.
Evidence of Site-Wide Disturbance(s)	Yes (No)	**Description of Disturbance(s)**	
Evidence of Site-Wide Excavation	Yes (No)	**Description of Excavation**	
Evidence of Cover System Disturbance(s)	Yes (No)	**Description of Disturbance(s)**	
Evidence of Cover System Excavation to Monolith	Yes (No)	**Description of Excavation**	
Evidence of Building Construction	Yes (No)	**Description of Building Construction**	
Comments:	Change in Site use was the same as previous PRR period. No map attached.		

* If answering Yes, attach map showing locations and any other information as required.

Appendix C

Data Usability Summary Reports

Site: Downstate OMM Hempstead Intersection Groundwater Monitoring
Laboratory: Test America, Edison, NJ
Report Numbers: 460-218280, 460-218380, 460-218634, 460-218647, 460-220057
Reviewer: Lorie MacKinnon/GEI Consultants
Date: December 3, 2020

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
TB091420	460-218280-01	BTEX
HIMW-03S	460-218280-02	BTEX, PAH
HIMW-03I	460-218280-03	BTEX, PAH
HIMW-03D	460-218280-04	BTEX, PAH
FB091420	460-218280-05	BTEX, PAH
DUP-01	460-218280-06	BTEX, PAH
HIMW-13S	460-218280-07	BTEX, PAH
HIMW-13I	460-218280-08	BTEX, PAH
HIMW-13D	460-218280-09	BTEX, PAH
DUP-02	460-218280-10	BTEX, PAH
FB-091420CB	460-218280-11	BTEX, PAH
TB091520	460-218380-01	BTEX
HIMW-27S	460-218380-02	BTEX, PAH
HIMW-27I	460-218380-03	BTEX, PAH
HIMW-28S	460-218380-04	BTEX, PAH
HIMW-28I	460-218380-05	BTEX, PAH
HIMW-14I	460-218380-06	BTEX, PAH
HIMW-14D	460-218380-07	BTEX, PAH
TB091620	460-218634-01	BTEX
HIMW-05D	460-218634-02	BTEX, PAH
HIMW-05I	460-218634-03	BTEX, PAH
HIMW-15I	460-218634-04	BTEX, PAH
HIMW-15D	460-218634-05	BTEX, PAH
HIMW-23	460-218634-06	BTEX, PAH
HIMW-22	460-218634-07	BTEX, PAH
HIMW-12S	460-218634-08	BTEX, PAH
HIMW-26I	460-218634-09	BTEX, PAH
HIMW-08S	460-218634-10	BTEX, PAH
HIMW-08I	460-218634-11	BTEX, PAH
HIMW-08D	460-218634-12	BTEX, PAH
HIMW-25	460-218634-13	BTEX, PAH
HIMW-24	460-218634-14	BTEX, PAH
TB091720	460-218647-01	BTEX
HIMW-05S	460-218647-02	BTEX, PAH
HIMW-20S	460-218647-03	BTEX, PAH

HIMW-20I	460-218647-04	BTEX, PAH
HIMW-26D	460-218647-05	BTEX, PAH
TB100620	460-220057-01	BTEX
HIMW-12I	460-220057-02	BTEX, PAH

Associated QC Samples:
Field/Trip Blanks: FB-091420CB, TB091420, TB091520, TB091620, TB091720, TB100620
Field Duplicate pairs: HIMW-03I/DUP-01 and HIMW-13D/DUP-02

The above-listed groundwater samples, field blank, and trip blank samples were collected on September 14, 15, 16, and 17 and October 6, 2020 and were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260B and polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270. The data validation was performed in accordance with the Standard Operating Procedure (SOP) HW-35 (Revision 2) *Semivolatile Data Validation* (March 2013) and SOP HW-33 (Revision 3) *Low/Medium Volatile Data Validation* (March 2013), as well as by the methods referenced by the data package and professional and technical judgment.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

All results appear usable as reported or usable with minor qualification due to calibration nonconformances and uncertainty for levels below the reporting limit. These results were considered valid; even though some were qualified as discussed below.

The validation findings were based on the following information.

Data Completeness

The data packages were complete as received by the laboratory with the following exception; the sample IDs were incorrectly listed as H1 instead of HI. The laboratory was notified and revised reports were received for review.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met except where noted below.

The pH for VOC sample HIMW-25 was noted to be above the acceptance criteria of 2 at 7. Validation action was not required on this basis as the analysis was performed within the hold time of seven days for unpreserved samples.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All initial and continuing calibration criteria were met except where noted below.

Instrument/ Calibration Standard	Compound	Calibration Exceedance	Validation Qualifier
SVOCs			
CBNAMS16 CCAL 09/17/20 21:28	Pyrene	28.0 %D	Estimate (UJ) the nondetect results for the affected compounds in the associated samples.
	Indeno(123-cd)pyrene	41.6 %D	
	Dibenz(ah)anthracene	35.9 %D	
	Benzo(ghi)perylene	36.7 %D	
Associated samples: HIMW-27S, HIMW-27I, HIMW-28S, HIMW-28I, HIMW-14I, HIMW-14D			
CBNAMS17 CCAL 09/21/20 19:45	Benzo(b)fluoranthene	21.5 %D	Estimate (UJ) the nondetect results for benzo(b)fluoranthene in the associated samples.
Associated sample: HIMW-26D, HIMW-05D, HIMW-05I			

Initial calibration (ICAL) relative standard deviation (%RSD) > 20% for VOC,SVOC, and PCBs; estimate (J) positive and blank-qualified (UJ) results only.
Continuing calibration (CCAL) percent difference (%D) > 20% for VOC, SVOCs, and PCBs; estimate (J/UJ) positive and nondetect results.

Blanks

Contamination was not detected in the associated method blank samples, field blank, and trip blank samples.

Surrogate Recoveries

All surrogate recovery criteria were met except where noted below.

Sample	Surrogate	Recovery (%)	Control Limits (%)	Validation Actions
VOCs				
FB091420	4-Bromofluorobenzene	122	76-120	Validation actions were not required as all results were nondetect in this sample and therefore were not affected by the potential high bias.

MS/MSD Results

MS/MSD analyses were performed on samples HIMW-03D and HIMW-13I for VOC and SVOC. All recovery and precision criteria were met, except where noted below.

HIMW-03D					
Analyte	**MS %R (%)**	**MSD %R (%)**	**RPD (%)**	**QC Limits (%)**	**Validation Actions**
SVOCs					
Acenaphthylene	105	107	-	64-102	Validation actions were not required as these compounds were nondetect in sample HIMW-03D and therefore results were not affected by the potential high bias.
Benzo(a)pyrene	122	122	-	67-106	
Benzo(b)fluoranthene	123	117	-	65-113	
Benzo(k)fluoranthene	123	118	-	66-116	
- criterion met					

HIMW-13I					
Analyte	**MS %R (%)**	**MSD %R (%)**	**RPD (%)**	**QC Limits (%)**	**Validation Actions**
SVOCs					
Acenaphthylene	109	105	-	64-102	Validation actions were not required as these compounds were nondetect in sample HIMW-13I and therefore results were not affected by the potential high bias.
Benzo(a)pyrene	125	123	-	67-106	
Benzo(b)fluoranthene	123	119	-	65-113	
Benzo(k)fluoranthene	120	119	-	66-116	
- criterion met					

LCS Results

All LCS/LCSD recovery and precision criteria were met except where noted below.

LCS ID	Compound	Recovery (%)	RPD (%)	Control Limit (%)	Validation Action/Bias
SVOCs					
LCS/LCSD 460-724388	Benzo(a)pyrene	LCS 109	-	67-106	Validation actions were not required as benzo(a)pyrene was nondetect in all associated samples and therefore results were not affected by the potential high bias.
Associated samples: HIMW-03S, HIMW-03I, HIMW-03D, FB091420, DUP-01, HIMW-13S, HIMW-13I, HIMW-13D, DUP-02, FB-09140CB					
LCS/LCSD 460-724722	Indeno(123-cd)pyrene	149, 157	-	55-139	Validation actions were not required as the affected compounds were nondetect in all associated samples and therefore results were not affected by the potential high bias.
	Benzo(a)pyrene	LCSD 110	-	67-106	
	Benzo(ghi)perylene	LCSD 149	-	48-145	
	Dibenz(ah)anthracene	LCSD 148	-	57-144	
Associated samples: HIMW-27S, HIMW-27I, HIMW-28S, HIMW-28I, HIMW-14I, HIMW-14D					

Internal Standards

All criteria were met.

Field Duplicate Results

Samples HIMW-03I/DUP-01 and HIMW-13D/DUP-02 were submitted as field duplicate pair with this sample group. All results were nondetect in samples HIMW-03I and DUP-01, therefore precision criteria were met.

The following table summarizes the RPDs of the detected analytes in the field duplicate pair HIMW-13D and DUP-02, which were within the acceptance criteria.

Analyte	HIMW-13D (ug/L)	DUP-02 (ug/L)	RPD (%)
Benzene	0.91 J	0.93 J	2.2
Acenaphthene	4.9 J	5.3 J	7.7
Acenaphthylene	8.2 J	9.7 J	16.8
NC – Not calculable Criteria: When both results are ≥5x the RL, RPDs must be <30%. When results are < 5x the RL, the absolute difference between the original and field duplicate must be < 2xRL			

Quantitation Limits

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample dilutions which were performed.

Sample	VOC Dilution Reported	SVOC Dilution Reported
HIMW-27S	A 2-fold dilution was performed due to high target compound levels. All results were detected.	A 10-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.
HIMW-28S	NR	A 5-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.
HIMW-26D	NR	A 4-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.
HIMW-05D	NR	A 5-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.
HIMW-05I	NR	A 2-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.
NR – A dilution was not required.		

Sample Quantitation and Compound Identification

Compound identification criteria were met. Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Client Sample ID: TB091420

Date Collected: 09/14/20 00:00
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/17/20 00:39	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/17/20 00:39	1
Toluene	1.0	U	1.0	0.38	ug/L			09/17/20 00:39	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/17/20 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 123*		*09/17/20 00:39*	*1*
4-Bromofluorobenzene	*107*		*76 - 120*		*09/17/20 00:39*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*09/17/20 00:39*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*09/17/20 00:39*	*1*

HI

Client Sample ID: ~~H1~~MW-03S

Date Collected: 09/14/20 14:25
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/17/20 01:50	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/17/20 01:50	1
Toluene	1.0	U	1.0	0.38	ug/L			09/17/20 01:50	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/17/20 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 123*		*09/17/20 01:50*	*1*
4-Bromofluorobenzene	*109*		*76 - 120*		*09/17/20 01:50*	*1*
Dibromofluoromethane (Surr)	*105*		*77 - 124*		*09/17/20 01:50*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/17/20 01:50*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 02:47	1
Acenaphthene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 02:47	1
Acenaphthylene	10	U	10	0.82	ug/L		09/16/20 09:53	09/17/20 02:47	1
Anthracene	10	U	10	0.63	ug/L		09/16/20 09:53	09/17/20 02:47	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/16/20 09:53	09/17/20 02:47	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/16/20 09:53	09/17/20 02:47	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/16/20 09:53	09/17/20 02:47	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/16/20 09:53	09/17/20 02:47	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/16/20 09:53	09/17/20 02:47	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/16/20 09:53	09/17/20 02:47	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/16/20 09:53	09/17/20 02:47	1
Fluoranthene	10	U	10	0.84	ug/L		09/16/20 09:53	09/17/20 02:47	1
Fluorene	10	U	10	0.91	ug/L		09/16/20 09:53	09/17/20 02:47	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/16/20 09:53	09/17/20 02:47	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/16/20 09:53	09/17/20 02:47	1
Phenanthrene	10	U	10	0.58	ug/L		09/16/20 09:53	09/17/20 02:47	1
Pyrene	10	U	10	1.6	ug/L		09/16/20 09:53	09/17/20 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*42 - 127*	*09/16/20 09:53*	*09/17/20 02:47*	*1*
Nitrobenzene-d5 (Surr)	*77*		*46 - 137*	*09/16/20 09:53*	*09/17/20 02:47*	*1*

Client Sample ID: H1MW-03S

Date Collected: 09/14/20 14:25
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	91		39 - 150	09/16/20 09:53	09/17/20 02:47	1

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Client Sample ID: H1MW-03I

Date Collected: 09/14/20 13:35
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/17/20 02:14	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/17/20 02:14	1
Toluene	1.0	U	1.0	0.38	ug/L			09/17/20 02:14	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/17/20 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 123		09/17/20 02:14	1
4-Bromofluorobenzene	110		76 - 120		09/17/20 02:14	1
Dibromofluoromethane (Surr)	111		77 - 124		09/17/20 02:14	1
Toluene-d8 (Surr)	97		80 - 120		09/17/20 02:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 03:08	1
Acenaphthene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 03:08	1
Acenaphthylene	10	U	10	0.82	ug/L		09/16/20 09:53	09/17/20 03:08	1
Anthracene	10	U	10	0.63	ug/L		09/16/20 09:53	09/17/20 03:08	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/16/20 09:53	09/17/20 03:08	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/16/20 09:53	09/17/20 03:08	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/16/20 09:53	09/17/20 03:08	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/16/20 09:53	09/17/20 03:08	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/16/20 09:53	09/17/20 03:08	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/16/20 09:53	09/17/20 03:08	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/16/20 09:53	09/17/20 03:08	1
Fluoranthene	10	U	10	0.84	ug/L		09/16/20 09:53	09/17/20 03:08	1
Fluorene	10	U	10	0.91	ug/L		09/16/20 09:53	09/17/20 03:08	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/16/20 09:53	09/17/20 03:08	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/16/20 09:53	09/17/20 03:08	1
Phenanthrene	10	U	10	0.58	ug/L		09/16/20 09:53	09/17/20 03:08	1
Pyrene	10	U	10	1.6	ug/L		09/16/20 09:53	09/17/20 03:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		42 - 127	09/16/20 09:53	09/17/20 03:08	1
Nitrobenzene-d5 (Surr)	106		46 - 137	09/16/20 09:53	09/17/20 03:08	1
Terphenyl-d14 (Surr)	114		39 - 150	09/16/20 09:53	09/17/20 03:08	1

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Client Sample ID: H1MW-03D

Date Collected: 09/14/20 12:25
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/17/20 02:38	1

Client Sample ID: H1MW-03D

Date Collected: 09/14/20 12:25
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/17/20 02:38	1
Toluene	1.0	U	1.0	0.38	ug/L			09/17/20 02:38	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/17/20 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 123*		*09/17/20 02:38*	*1*
4-Bromofluorobenzene	*107*		*76 - 120*		*09/17/20 02:38*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 124*		*09/17/20 02:38*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/17/20 02:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 05:35	1
Acenaphthene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 05:35	1
Acenaphthylene	10	U	10	0.82	ug/L		09/16/20 09:53	09/17/20 05:35	1
Anthracene	10	U	10	0.63	ug/L		09/16/20 09:53	09/17/20 05:35	1
Benzo[a]anthracene	1.0	U	1.0	0.69	ug/L		09/16/20 09:53	09/17/20 05:35	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/16/20 09:53	09/17/20 05:35	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/16/20 09:53	09/17/20 05:35	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/16/20 09:53	09/17/20 05:35	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/16/20 09:53	09/17/20 05:35	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/16/20 09:53	09/17/20 05:35	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/16/20 09:53	09/17/20 05:35	1
Fluoranthene	10	U	10	0.84	ug/L		09/16/20 09:53	09/17/20 05:35	1
Fluorene	10	U	10	0.91	ug/L		09/16/20 09:53	09/17/20 05:35	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/16/20 09:53	09/17/20 05:35	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/16/20 09:53	09/17/20 05:35	1
Phenanthrene	10	U	10	0.58	ug/L		09/16/20 09:53	09/17/20 05:35	1
Pyrene	10	U	10	1.6	ug/L		09/16/20 09:53	09/17/20 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*102*		*42 - 127*	*09/16/20 09:53*	*09/17/20 05:35*	*1*
Nitrobenzene-d5 (Surr)	*104*		*46 - 137*	*09/16/20 09:53*	*09/17/20 05:35*	*1*
Terphenyl-d14 (Surr)	*105*		*39 - 150*	*09/16/20 09:53*	*09/17/20 05:35*	*1*

Client Sample ID: FB091420

Date Collected: 09/14/20 12:40
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/17/20 01:03	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/17/20 01:03	1
Toluene	1.0	U	1.0	0.38	ug/L			09/17/20 01:03	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/17/20 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 123*		*09/17/20 01:03*	*1*
4-Bromofluorobenzene	*122*	*	*76 - 120*		*09/17/20 01:03*	*1*
Dibromofluoromethane (Surr)	*119*		*77 - 124*		*09/17/20 01:03*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/17/20 01:03*	*1*

Client Sample ID: FB091420

Date Collected: 09/14/20 12:40
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 03:29	1
Acenaphthene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 03:29	1
Acenaphthylene	10	U	10	0.82	ug/L		09/16/20 09:53	09/17/20 03:29	1
Anthracene	10	U	10	0.63	ug/L		09/16/20 09:53	09/17/20 03:29	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/16/20 09:53	09/17/20 03:29	1
Benzo[a]pyrene	1.0	U *	1.0	0.41	ug/L		09/16/20 09:53	09/17/20 03:29	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/16/20 09:53	09/17/20 03:29	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/16/20 09:53	09/17/20 03:29	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/16/20 09:53	09/17/20 03:29	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/16/20 09:53	09/17/20 03:29	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/16/20 09:53	09/17/20 03:29	1
Fluoranthene	10	U	10	0.84	ug/L		09/16/20 09:53	09/17/20 03:29	1
Fluorene	10	U	10	0.91	ug/L		09/16/20 09:53	09/17/20 03:29	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/16/20 09:53	09/17/20 03:29	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/16/20 09:53	09/17/20 03:29	1
Phenanthrene	10	U	10	0.58	ug/L		09/16/20 09:53	09/17/20 03:29	1
Pyrene	10	U	10	1.6	ug/L		09/16/20 09:53	09/17/20 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*42 - 127*	*09/16/20 09:53*	*09/17/20 03:29*	*1*
Nitrobenzene-d5 (Surr)	*100*		*46 - 137*	*09/16/20 09:53*	*09/17/20 03:29*	*1*
Terphenyl-d14 (Surr)	*116*		*39 - 150*	*09/16/20 09:53*	*09/17/20 03:29*	*1*

Client Sample ID: DUP-01

Date Collected: 09/14/20 00:00
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/17/20 03:02	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/17/20 03:02	1
Toluene	1.0	U	1.0	0.38	ug/L			09/17/20 03:02	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/17/20 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 123*		*09/17/20 03:02*	*1*
4-Bromofluorobenzene	*106*		*76 - 120*		*09/17/20 03:02*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*09/17/20 03:02*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/17/20 03:02*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 03:50	1
Acenaphthene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 03:50	1
Acenaphthylene	10	U	10	0.82	ug/L		09/16/20 09:53	09/17/20 03:50	1
Anthracene	10	U	10	0.63	ug/L		09/16/20 09:53	09/17/20 03:50	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/16/20 09:53	09/17/20 03:50	1
Benzo[a]pyrene	1.0	U *	1.0	0.41	ug/L		09/16/20 09:53	09/17/20 03:50	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/16/20 09:53	09/17/20 03:50	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/16/20 09:53	09/17/20 03:50	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/16/20 09:53	09/17/20 03:50	1

Client Sample ID: DUP-01

Date Collected: 09/14/20 00:00
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	2.0	U	2.0	0.91	ug/L		09/16/20 09:53	09/17/20 03:50	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/16/20 09:53	09/17/20 03:50	1
Fluoranthene	10	U	10	0.84	ug/L		09/16/20 09:53	09/17/20 03:50	1
Fluorene	10	U	10	0.91	ug/L		09/16/20 09:53	09/17/20 03:50	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/16/20 09:53	09/17/20 03:50	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/16/20 09:53	09/17/20 03:50	1
Phenanthrene	10	U	10	0.58	ug/L		09/16/20 09:53	09/17/20 03:50	1
Pyrene	10	U	10	1.6	ug/L		09/16/20 09:53	09/17/20 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*42 - 127*	*09/16/20 09:53*	*09/17/20 03:50*	*1*
Nitrobenzene-d5 (Surr)	*108*		*46 - 137*	*09/16/20 09:53*	*09/17/20 03:50*	*1*
Terphenyl-d14 (Surr)	*114*		*39 - 150*	*09/16/20 09:53*	*09/17/20 03:50*	*1*

H.C

Client Sample ID: H1MW-13S

Date Collected: 09/14/20 11:05
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/17/20 03:25	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/17/20 03:25	1
Toluene	1.0	U	1.0	0.38	ug/L			09/17/20 03:25	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/17/20 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 123*		*09/17/20 03:25*	*1*
4-Bromofluorobenzene	*118*		*76 - 120*		*09/17/20 03:25*	*1*
Dibromofluoromethane (Surr)	*114*		*77 - 124*		*09/17/20 03:25*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/17/20 03:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 04:11	1
Acenaphthene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 04:11	1
Acenaphthylene	10	U	10	0.82	ug/L		09/16/20 09:53	09/17/20 04:11	1
Anthracene	10	U	10	0.63	ug/L		09/16/20 09:53	09/17/20 04:11	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/16/20 09:53	09/17/20 04:11	1
Benzo[a]pyrene	1.0	U *	1.0	0.41	ug/L		09/16/20 09:53	09/17/20 04:11	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/16/20 09:53	09/17/20 04:11	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/16/20 09:53	09/17/20 04:11	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/16/20 09:53	09/17/20 04:11	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/16/20 09:53	09/17/20 04:11	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/16/20 09:53	09/17/20 04:11	1
Fluoranthene	10	U	10	0.84	ug/L		09/16/20 09:53	09/17/20 04:11	1
Fluorene	10	U	10	0.91	ug/L		09/16/20 09:53	09/17/20 04:11	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/16/20 09:53	09/17/20 04:11	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/16/20 09:53	09/17/20 04:11	1
Phenanthrene	10	U	10	0.58	ug/L		09/16/20 09:53	09/17/20 04:11	1
Pyrene	10	U	10	1.6	ug/L		09/16/20 09:53	09/17/20 04:11	1

Client Sample ID: H1MW-13S

Date Collected: 09/14/20 11:05
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		42 - 127	09/16/20 09:53	09/17/20 04:11	1
Nitrobenzene-d5 (Surr)	99		46 - 137	09/16/20 09:53	09/17/20 04:11	1
Terphenyl-d14 (Surr)	109		39 - 150	09/16/20 09:53	09/17/20 04:11	1

HC

Client Sample ID: H1MW-13I

Date Collected: 09/14/20 12:15
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/17/20 03:49	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/17/20 03:49	1
Toluene	1.0	U	1.0	0.38	ug/L			09/17/20 03:49	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/17/20 03:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		75 - 123		09/17/20 03:49	1
4-Bromofluorobenzene	108		76 - 120		09/17/20 03:49	1
Dibromofluoromethane (Surr)	104		77 - 124		09/17/20 03:49	1
Toluene-d8 (Surr)	93		80 - 120		09/17/20 03:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 06:59	1
Acenaphthene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 06:59	1
Acenaphthylene	10	U	10	0.82	ug/L		09/16/20 09:53	09/17/20 06:59	1
Anthracene	10	U	10	0.63	ug/L		09/16/20 09:53	09/17/20 06:59	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/16/20 09:53	09/17/20 06:59	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/16/20 09:53	09/17/20 06:59	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/16/20 09:53	09/17/20 06:59	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/16/20 09:53	09/17/20 06:59	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/16/20 09:53	09/17/20 06:59	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/16/20 09:53	09/17/20 06:59	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/16/20 09:53	09/17/20 06:59	1
Fluoranthene	10	U	10	0.84	ug/L		09/16/20 09:53	09/17/20 06:59	1
Fluorene	10	U	10	0.91	ug/L		09/16/20 09:53	09/17/20 06:59	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/16/20 09:53	09/17/20 06:59	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/16/20 09:53	09/17/20 06:59	1
Phenanthrene	10	U	10	0.58	ug/L		09/16/20 09:53	09/17/20 06:59	1
Pyrene	10	U	10	1.6	ug/L		09/16/20 09:53	09/17/20 06:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		42 - 127	09/16/20 09:53	09/17/20 06:59	1
Nitrobenzene-d5 (Surr)	99		46 - 137	09/16/20 09:53	09/17/20 06:59	1
Terphenyl-d14 (Surr)	108		39 - 150	09/16/20 09:53	09/17/20 06:59	1

Client Sample ID: H1MW-13D

Date Collected: 09/14/20 13:25
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.91**	**J**	1.0	0.20	ug/L			09/17/20 04:13	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/17/20 04:13	1
Toluene	1.0	U	1.0	0.38	ug/L			09/17/20 04:13	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/17/20 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 123*		*09/17/20 04:13*	*1*
4-Bromofluorobenzene	*103*		*76 - 120*		*09/17/20 04:13*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*09/17/20 04:13*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*09/17/20 04:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 04:32	1
Acenaphthene	**4.9**	**J**	10	1.1	ug/L		09/16/20 09:53	09/17/20 04:32	1
Acenaphthylene	**8.2**	**J**	10	0.82	ug/L		09/16/20 09:53	09/17/20 04:32	1
Anthracene	10	U	10	0.63	ug/L		09/16/20 09:53	09/17/20 04:32	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/16/20 09:53	09/17/20 04:32	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/16/20 09:53	09/17/20 04:32	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/16/20 09:53	09/17/20 04:32	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/16/20 09:53	09/17/20 04:32	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/16/20 09:53	09/17/20 04:32	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/16/20 09:53	09/17/20 04:32	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/16/20 09:53	09/17/20 04:32	1
Fluoranthene	10	U	10	0.84	ug/L		09/16/20 09:53	09/17/20 04:32	1
Fluorene	10	U	10	0.91	ug/L		09/16/20 09:53	09/17/20 04:32	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/16/20 09:53	09/17/20 04:32	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/16/20 09:53	09/17/20 04:32	1
Phenanthrene	10	U	10	0.58	ug/L		09/16/20 09:53	09/17/20 04:32	1
Pyrene	10	U	10	1.6	ug/L		09/16/20 09:53	09/17/20 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*42 - 127*	*09/16/20 09:53*	*09/17/20 04:32*	*1*
Nitrobenzene-d5 (Surr)	*94*		*46 - 137*	*09/16/20 09:53*	*09/17/20 04:32*	*1*
Terphenyl-d14 (Surr)	*94*		*39 - 150*	*09/16/20 09:53*	*09/17/20 04:32*	*1*

Client Sample ID: DUP-02

Date Collected: 09/14/20 00:00
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.93**	**J**	1.0	0.20	ug/L			09/17/20 04:37	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/17/20 04:37	1
Toluene	1.0	U	1.0	0.38	ug/L			09/17/20 04:37	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/17/20 04:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 123*		*09/17/20 04:37*	*1*
4-Bromofluorobenzene	*119*		*76 - 120*		*09/17/20 04:37*	*1*
Dibromofluoromethane (Surr)	*111*		*77 - 124*		*09/17/20 04:37*	*1*

Client Sample ID: DUP-02

Date Collected: 09/14/20 00:00
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/17/20 04:37*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 04:53	1
Acenaphthene	**5.3**	**J**	10	1.1	ug/L		09/16/20 09:53	09/17/20 04:53	1
Acenaphthylene	**9.7**	**J**	10	0.82	ug/L		09/16/20 09:53	09/17/20 04:53	1
Anthracene	10	U	10	0.63	ug/L		09/16/20 09:53	09/17/20 04:53	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/16/20 09:53	09/17/20 04:53	1
Benzo[a]pyrene	1.0	U ↕	1.0	0.41	ug/L		09/16/20 09:53	09/17/20 04:53	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/16/20 09:53	09/17/20 04:53	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/16/20 09:53	09/17/20 04:53	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/16/20 09:53	09/17/20 04:53	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/16/20 09:53	09/17/20 04:53	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/16/20 09:53	09/17/20 04:53	1
Fluoranthene	10	U	10	0.84	ug/L		09/16/20 09:53	09/17/20 04:53	1
Fluorene	10	U	10	0.91	ug/L		09/16/20 09:53	09/17/20 04:53	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/16/20 09:53	09/17/20 04:53	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/16/20 09:53	09/17/20 04:53	1
Phenanthrene	10	U	10	0.58	ug/L		09/16/20 09:53	09/17/20 04:53	1
Pyrene	10	U	10	1.6	ug/L		09/16/20 09:53	09/17/20 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*103*		*42 - 127*	*09/16/20 09:53*	*09/17/20 04:53*	*1*
Nitrobenzene-d5 (Surr)	*104*		*46 - 137*	*09/16/20 09:53*	*09/17/20 04:53*	*1*
Terphenyl-d14 (Surr)	*108*		*39 - 150*	*09/16/20 09:53*	*09/17/20 04:53*	*1*

Client Sample ID: FB-091420CB

Date Collected: 09/14/20 14:30
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/17/20 00:15	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/17/20 00:15	1
Toluene	1.0	U	1.0	0.38	ug/L			09/17/20 00:15	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/17/20 00:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*78*		*75 - 123*		*09/17/20 00:15*	*1*
4-Bromofluorobenzene	*97*		*76 - 120*		*09/17/20 00:15*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 124*		*09/17/20 00:15*	*1*
Toluene-d8 (Surr)	*85*		*80 - 120*		*09/17/20 00:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 05:14	1
Acenaphthene	10	U	10	1.1	ug/L		09/16/20 09:53	09/17/20 05:14	1
Acenaphthylene	10	U	10	0.82	ug/L		09/16/20 09:53	09/17/20 05:14	1
Anthracene	10	U	10	0.63	ug/L		09/16/20 09:53	09/17/20 05:14	1

Client Sample ID: FB-091420CB
Date Collected: 09/14/20 14:30
Date Received: 09/14/20 18:00

Lab Sample ID: 460-218280-11
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/16/20 09:53	09/17/20 05:14	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/16/20 09:53	09/17/20 05:14	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/16/20 09:53	09/17/20 05:14	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/16/20 09:53	09/17/20 05:14	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/16/20 09:53	09/17/20 05:14	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/16/20 09:53	09/17/20 05:14	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/16/20 09:53	09/17/20 05:14	1
Fluoranthene	10	U	10	0.84	ug/L		09/16/20 09:53	09/17/20 05:14	1
Fluorene	10	U	10	0.91	ug/L		09/16/20 09:53	09/17/20 05:14	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/16/20 09:53	09/17/20 05:14	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/16/20 09:53	09/17/20 05:14	1
Phenanthrene	10	U	10	0.58	ug/L		09/16/20 09:53	09/17/20 05:14	1
Pyrene	10	U	10	1.6	ug/L		09/16/20 09:53	09/17/20 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*42 - 127*	*09/16/20 09:53*	*09/17/20 05:14*	*1*
Nitrobenzene-d5 (Surr)	*99*		*46 - 137*	*09/16/20 09:53*	*09/17/20 05:14*	*1*
Terphenyl-d14 (Surr)	*115*		*39 - 150*	*09/16/20 09:53*	*09/17/20 05:14*	*1*

Chain of Custody Record

TestAmerica

TestAmerica New York City
32 32nd Place
te 1141
g Island City, NY 11101-2425
ne 347.507.0579 fax

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

NYC

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Chris Morris	Site Contact: Mike Quinlan	Date: 9/14/20	COC No:
I Consultants Inc. P.C	Tel/Fax: (631) 756-2967	Lab Contact: Melissa Haas	Carrier: Test America	222 1 of 1 COCs
0 New York Ave	Analysis Turnaround Time			Sampler:
ington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
1) 760 - 9300 Phone	TAT (different from Below: standard)			Walk-in Client:
1) 760 - 9301 FAX	☐ 2 weeks			lab Sampling:
ject Name: National Grid Hempstead Intersection	☐ 1 week			
e: Downstate Former MGP Site Q3	☐ 3 days			job / SDG No. 218280
) # 1905774.15.3	☐ 1 day			

460-218280 Chain of Custody

5-Day RUSH

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D	Sample Specific Notes:
TB091420	9/14/20	—	G	GW	2			X		1
HIMW-03S		1425			5			XX		2
HIMW-03I		1335			5			XX		3
HIMW-03D		1225			15			XX		MS/MSD 4
FB091420		1240			5			XX		5
Dup-01		—			5			XX		6
HIMW-13S		1105			5			XX		7
HIMW-13I		1215			15			XX		MS/MSD 8
HIMW-13D		1325			5			XX		9
Dup-02		—			5			XX		10
FB-091420CB	↓	1430	↓	↓	5			XX		11

servation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

ssible Hazard Identification:
any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the
mments Section if the lab is to dispose of the sample.
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ___ Months

cial Instructions/QC Requirements & Comments: CAT B Report

stody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.	
inquished by:	Company: GEI Consultants Inc. P.C	Date/Time: 9/14/20 1422	Received by:	Company:	Date/Time: 9/14/20 1422	
inquished by:	Company:	Date/Time: 9/14/20 1422	Received by:	Company:	Date/Time: 9/14/20 1600	
quished by	Company:	Date/Time: 9/14/20 1800	Received in Laboratory by:	Company: TX Edison	Date/Time: 9/14/20 1800	

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

9-7 11

Client Sample ID: TB091520

Date Collected: 09/15/20 00:00
Date Received: 09/15/20 19:00

Lab Sample ID: 460-218380-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/17/20 21:42	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/17/20 21:42	1
Toluene	1.0	U	1.0	0.38	ug/L			09/17/20 21:42	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/17/20 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*		*09/17/20 21:42*	*1*
4-Bromofluorobenzene	*107*		*76 - 120*		*09/17/20 21:42*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*09/17/20 21:42*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/17/20 21:42*	*1*

HL

Client Sample ID: ~~H1MW-27S~~

Date Collected: 09/15/20 09:15
Date Received: 09/15/20 19:00

Lab Sample ID: 460-218380-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**7.1**		2.0	0.41	ug/L			09/18/20 04:40	2
Ethylbenzene	**400**		2.0	0.60	ug/L			09/18/20 04:40	2
Toluene	**12**		2.0	0.76	ug/L			09/18/20 04:40	2
Xylenes, Total	**440**		4.0	1.3	ug/L			09/18/20 04:40	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 123*		*09/18/20 04:40*	*2*
4-Bromofluorobenzene	*104*		*76 - 120*		*09/18/20 04:40*	*2*
Dibromofluoromethane (Surr)	*105*		*77 - 124*		*09/18/20 04:40*	*2*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/18/20 04:40*	*2*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**280**		100	11	ug/L		09/17/20 09:57	09/18/20 06:56	10
Acenaphthene	**77**	J	100	11	ug/L		09/17/20 09:57	09/18/20 06:56	10
Acenaphthylene	100	U	100	8.2	ug/L		09/17/20 09:57	09/18/20 06:56	10
Anthracene	100	U	100	6.3	ug/L		09/17/20 09:57	09/18/20 06:56	10
Benzo[a]anthracene	10	U	10	5.9	ug/L		09/17/20 09:57	09/18/20 06:56	10
Benzo[a]pyrene	10	U *	10	4.1	ug/L		09/17/20 09:57	09/18/20 06:56	10
Benzo[b]fluoranthene	20	U	20	6.8	ug/L		09/17/20 09:57	09/18/20 06:56	10
Benzo[g,h,i]perylene	100	U J	100	14	ug/L		09/17/20 09:57	09/18/20 06:56	10
Benzo[k]fluoranthene	10	U	10	6.7	ug/L		09/17/20 09:57	09/18/20 06:56	10
Chrysene	20	U	20	9.1	ug/L		09/17/20 09:57	09/18/20 06:56	10
Dibenz(a,h)anthracene	10	U J	10	7.2	ug/L		09/17/20 09:57	09/18/20 06:56	10
Fluoranthene	100	U	100	8.4	ug/L		09/17/20 09:57	09/18/20 06:56	10
Fluorene	**32**	J	100	9.1	ug/L		09/17/20 09:57	09/18/20 06:56	10
Indeno[1,2,3-cd]pyrene	20	U J	20	9.4	ug/L		09/17/20 09:57	09/18/20 06:56	10
Naphthalene	**970**		20	11	ug/L		09/17/20 09:57	09/18/20 06:56	10
Phenanthrene	**33**	J	100	5.8	ug/L		09/17/20 09:57	09/18/20 06:56	10
Pyrene	100	U J	100	16	ug/L		09/17/20 09:57	09/18/20 06:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*42 - 127*	*09/17/20 09:57*	*09/18/20 06:56*	*10*
Nitrobenzene-d5 (Surr)	*93*		*46 - 137*	*09/17/20 09:57*	*09/18/20 06:56*	*10*

Client Sample ID: ~~H1MW-27S~~ H1E

Date Collected: 09/15/20 09:15
Date Received: 09/15/20 19:00

Lab Sample ID: 460-218380-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*109*		*39 - 150*	*09/17/20 09:57*	*09/18/20 06:56*	*10*

Client Sample ID: ~~H1MW-27I~~ H1E

Date Collected: 09/15/20 08:00
Date Received: 09/15/20 19:00

Lab Sample ID: 460-218380-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/17/20 23:45	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/17/20 23:45	1
Toluene	1.0	U	1.0	0.38	ug/L			09/17/20 23:45	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/17/20 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 123*		*09/17/20 23:45*	*1*
4-Bromofluorobenzene	*106*		*76 - 120*		*09/17/20 23:45*	*1*
Dibromofluoromethane (Surr)	*106*		*77 - 124*		*09/17/20 23:45*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/17/20 23:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/17/20 09:57	09/17/20 23:55	1
Acenaphthene	10	U	10	1.1	ug/L		09/17/20 09:57	09/17/20 23:55	1
Acenaphthylene	10	U	10	0.82	ug/L		09/17/20 09:57	09/17/20 23:55	1
Anthracene	10	U	10	0.63	ug/L		09/17/20 09:57	09/17/20 23:55	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/17/20 09:57	09/17/20 23:55	1
Benzo[a]pyrene	1.0	U *	1.0	0.41	ug/L		09/17/20 09:57	09/17/20 23:55	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/17/20 09:57	09/17/20 23:55	1
Benzo[g,h,i]perylene	10	U J	10	1.4	ug/L		09/17/20 09:57	09/17/20 23:55	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/17/20 09:57	09/17/20 23:55	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/17/20 09:57	09/17/20 23:55	1
Dibenz(a,h)anthracene	1.0	U J	1.0	0.72	ug/L		09/17/20 09:57	09/17/20 23:55	1
Fluoranthene	10	U	10	0.84	ug/L		09/17/20 09:57	09/17/20 23:55	1
Fluorene	10	U	10	0.91	ug/L		09/17/20 09:57	09/17/20 23:55	1
Indeno[1,2,3-cd]pyrene	2.0	U J	2.0	0.94	ug/L		09/17/20 09:57	09/17/20 23:55	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/17/20 09:57	09/17/20 23:55	1
Phenanthrene	10	U	10	0.58	ug/L		09/17/20 09:57	09/17/20 23:55	1
Pyrene	10	U J	10	1.6	ug/L		09/17/20 09:57	09/17/20 23:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*100*		*42 - 127*	*09/17/20 09:57*	*09/17/20 23:55*	*1*
Nitrobenzene-d5 (Surr)	*102*		*46 - 137*	*09/17/20 09:57*	*09/17/20 23:55*	*1*
Terphenyl-d14 (Surr)	*149*		*39 - 150*	*09/17/20 09:57*	*09/17/20 23:55*	*1*

Client Sample ID: H1MW-28S

Date Collected: 09/15/20 11:35
Date Received: 09/15/20 19:00

Lab Sample ID: 460-218380-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.0**		1.0	0.20	ug/L			09/18/20 00:09	1

Client Sample ID: H1MW-28S

Date Collected: 09/15/20 11:35
Date Received: 09/15/20 19:00

Lab Sample ID: 460-218380-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**140**		1.0	0.30	ug/L			09/18/20 00:09	1
Toluene	**2.6**		1.0	0.38	ug/L			09/18/20 00:09	1
Xylenes, Total	**14**		2.0	0.65	ug/L			09/18/20 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 123*		*09/18/20 00:09*	*1*
4-Bromofluorobenzene	*105*		*76 - 120*		*09/18/20 00:09*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 124*		*09/18/20 00:09*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/18/20 00:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**88**		50	5.5	ug/L		09/17/20 09:57	09/18/20 07:17	5
Acenaphthene	**33**	J	50	5.4	ug/L		09/17/20 09:57	09/18/20 07:17	5
Acenaphthylene	50	U	50	4.1	ug/L		09/17/20 09:57	09/18/20 07:17	5
Anthracene	**3.3**	J	50	3.2	ug/L		09/17/20 09:57	09/18/20 07:17	5
Benzo[a]anthracene	5.0	U	5.0	3.0	ug/L		09/17/20 09:57	09/18/20 07:17	5
Benzo[a]pyrene	5.0	U *	5.0	2.0	ug/L		09/17/20 09:57	09/18/20 07:17	5
Benzo[b]fluoranthene	10	U	10	3.4	ug/L		09/17/20 09:57	09/18/20 07:17	5
Benzo[g,h,i]perylene	50	U	50	7.1	ug/L		09/17/20 09:57	09/18/20 07:17	5
Benzo[k]fluoranthene	5.0	U	5.0	3.4	ug/L		09/17/20 09:57	09/18/20 07:17	5
Chrysene	10	U	10	4.5	ug/L		09/17/20 09:57	09/18/20 07:17	5
Dibenz(a,h)anthracene	5.0	U	5.0	3.6	ug/L		09/17/20 09:57	09/18/20 07:17	5
Fluoranthene	50	U	50	4.2	ug/L		09/17/20 09:57	09/18/20 07:17	5
Fluorene	**16**	J	50	4.6	ug/L		09/17/20 09:57	09/18/20 07:17	5
Indeno[1,2,3-cd]pyrene	10	U	10	4.7	ug/L		09/17/20 09:57	09/18/20 07:17	5
Naphthalene	**340**		10	5.7	ug/L		09/17/20 09:57	09/18/20 07:17	5
Phenanthrene	**19**	J	50	2.9	ug/L		09/17/20 09:57	09/18/20 07:17	5
Pyrene	50	U	50	8.2	ug/L		09/17/20 09:57	09/18/20 07:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*42 - 127*	*09/17/20 09:57*	*09/18/20 07:17*	*5*
Nitrobenzene-d5 (Surr)	*89*		*46 - 137*	*09/17/20 09:57*	*09/18/20 07:17*	*5*
Terphenyl-d14 (Surr)	*104*		*39 - 150*	*09/17/20 09:57*	*09/18/20 07:17*	*5*

Client Sample ID: H1MW-28I

Date Collected: 09/15/20 10:10
Date Received: 09/15/20 19:00

Lab Sample ID: 460-218380-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/18/20 22:48	1
Ethylbenzene	**0.33**	J	1.0	0.30	ug/L			09/18/20 22:48	1
Toluene	1.0	U	1.0	0.38	ug/L			09/18/20 22:48	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/18/20 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*		*09/18/20 22:48*	*1*
4-Bromofluorobenzene	*105*		*76 - 120*		*09/18/20 22:48*	*1*
Dibromofluoromethane (Surr)	*105*		*77 - 124*		*09/18/20 22:48*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/18/20 22:48*	*1*

Client Sample ID: ~~H1MW-28I~~ H2

Date Collected: 09/15/20 10:10
Date Received: 09/15/20 19:00

Lab Sample ID: 460-218380-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/17/20 09:57	09/18/20 00:37	1
Acenaphthene	10	U	10	1.1	ug/L		09/17/20 09:57	09/18/20 00:37	1
Acenaphthylene	10	U	10	0.82	ug/L		09/17/20 09:57	09/18/20 00:37	1
Anthracene	10	U	10	0.63	ug/L		09/17/20 09:57	09/18/20 00:37	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/17/20 09:57	09/18/20 00:37	1
Benzo[a]pyrene	1.0	U *	1.0	0.41	ug/L		09/17/20 09:57	09/18/20 00:37	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/17/20 09:57	09/18/20 00:37	1
Benzo[g,h,i]perylene	10	UJ	10	1.4	ug/L		09/17/20 09:57	09/18/20 00:37	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/17/20 09:57	09/18/20 00:37	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/17/20 09:57	09/18/20 00:37	1
Dibenz(a,h)anthracene	1.0	UJ	1.0	0.72	ug/L		09/17/20 09:57	09/18/20 00:37	1
Fluoranthene	10	U	10	0.84	ug/L		09/17/20 09:57	09/18/20 00:37	1
Fluorene	10	U	10	0.91	ug/L		09/17/20 09:57	09/18/20 00:37	1
Indeno[1,2,3-cd]pyrene	2.0	UJ	2.0	0.94	ug/L		09/17/20 09:57	09/18/20 00:37	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/17/20 09:57	09/18/20 00:37	1
Phenanthrene	10	U	10	0.58	ug/L		09/17/20 09:57	09/18/20 00:37	1
Pyrene	10	UJ	10	1.6	ug/L		09/17/20 09:57	09/18/20 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*42 - 127*	*09/17/20 09:57*	*09/18/20 00:37*	*1*
Nitrobenzene-d5 (Surr)	*99*		*46 - 137*	*09/17/20 09:57*	*09/18/20 00:37*	*1*
Terphenyl-d14 (Surr)	*131*		*39 - 150*	*09/17/20 09:57*	*09/18/20 00:37*	*1*

Client Sample ID: ~~H1MW-14I~~ H1

Date Collected: 09/15/20 11:35
Date Received: 09/15/20 19:00

Lab Sample ID: 460-218380-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.46**	J	1.0	0.20	ug/L			09/18/20 00:59	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/18/20 00:59	1
Toluene	1.0	U	1.0	0.38	ug/L			09/18/20 00:59	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/18/20 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 123*		*09/18/20 00:59*	*1*
4-Bromofluorobenzene	*109*		*76 - 120*		*09/18/20 00:59*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 124*		*09/18/20 00:59*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/18/20 00:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/17/20 09:57	09/18/20 06:35	1
Acenaphthene	**2.6**	J	10	1.1	ug/L		09/17/20 09:57	09/18/20 06:35	1
Acenaphthylene	**3.4**	J	10	0.82	ug/L		09/17/20 09:57	09/18/20 06:35	1
Anthracene	10	U	10	0.63	ug/L		09/17/20 09:57	09/18/20 06:35	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/17/20 09:57	09/18/20 06:35	1
Benzo[a]pyrene	1.0	U *	1.0	0.41	ug/L		09/17/20 09:57	09/18/20 06:35	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/17/20 09:57	09/18/20 06:35	1
Benzo[g,h,i]perylene	10	UJ	10	1.4	ug/L		09/17/20 09:57	09/18/20 06:35	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/17/20 09:57	09/18/20 06:35	1

Client Sample ID: H1MW-14I
Date Collected: 09/15/20 11:35
Date Received: 09/15/20 19:00

Lab Sample ID: 460-218380-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	2.0	U	2.0	0.91	ug/L		09/17/20 09:57	09/18/20 06:35	1
Dibenz(a,h)anthracene	1.0	UJ	1.0	0.72	ug/L		09/17/20 09:57	09/18/20 06:35	1
Fluoranthene	10	U	10	0.84	ug/L		09/17/20 09:57	09/18/20 06:35	1
Fluorene	**1.0**	**J**	10	0.91	ug/L		09/17/20 09:57	09/18/20 06:35	1
Indeno[1,2,3-cd]pyrene	2.0	UJ	2.0	0.94	ug/L		09/17/20 09:57	09/18/20 06:35	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/17/20 09:57	09/18/20 06:35	1
Phenanthrene	**1.1**	**J**	10	0.58	ug/L		09/17/20 09:57	09/18/20 06:35	1
Pyrene	10	UJ	10	1.6	ug/L		09/17/20 09:57	09/18/20 06:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*42 - 127*	*09/17/20 09:57*	*09/18/20 06:35*	*1*
Nitrobenzene-d5 (Surr)	*104*		*46 - 137*	*09/17/20 09:57*	*09/18/20 06:35*	*1*
Terphenyl-d14 (Surr)	*132*		*39 - 150*	*09/17/20 09:57*	*09/18/20 06:35*	*1*

Client Sample ID: H1MW-14D
Date Collected: 09/15/20 10:40
Date Received: 09/15/20 19:00

Lab Sample ID: 460-218380-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/18/20 01:24	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/18/20 01:24	1
Toluene	1.0	U	1.0	0.38	ug/L			09/18/20 01:24	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/18/20 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 123*		*09/18/20 01:24*	*1*
4-Bromofluorobenzene	*106*		*76 - 120*		*09/18/20 01:24*	*1*
Dibromofluoromethane (Surr)	*105*		*77 - 124*		*09/18/20 01:24*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/18/20 01:24*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/17/20 09:57	09/18/20 01:19	1
Acenaphthene	10	U	10	1.1	ug/L		09/17/20 09:57	09/18/20 01:19	1
Acenaphthylene	10	U	10	0.82	ug/L		09/17/20 09:57	09/18/20 01:19	1
Anthracene	10	U	10	0.63	ug/L		09/17/20 09:57	09/18/20 01:19	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/17/20 09:57	09/18/20 01:19	1
Benzo[a]pyrene	1.0	U *	1.0	0.41	ug/L		09/17/20 09:57	09/18/20 01:19	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/17/20 09:57	09/18/20 01:19	1
Benzo[g,h,i]perylene	10	UJ	10	1.4	ug/L		09/17/20 09:57	09/18/20 01:19	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/17/20 09:57	09/18/20 01:19	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/17/20 09:57	09/18/20 01:19	1
Dibenz(a,h)anthracene	1.0	UJ	1.0	0.72	ug/L		09/17/20 09:57	09/18/20 01:19	1
Fluoranthene	10	U	10	0.84	ug/L		09/17/20 09:57	09/18/20 01:19	1
Fluorene	10	U	10	0.91	ug/L		09/17/20 09:57	09/18/20 01:19	1
Indeno[1,2,3-cd]pyrene	2.0	UJ	2.0	0.94	ug/L		09/17/20 09:57	09/18/20 01:19	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/17/20 09:57	09/18/20 01:19	1
Phenanthrene	10	U	10	0.58	ug/L		09/17/20 09:57	09/18/20 01:19	1
Pyrene	10	UJ	10	1.6	ug/L		09/17/20 09:57	09/18/20 01:19	1

Client: GEI Consultants, Inc.
Project/Site: National Grid Hempstead Intersection

Job ID: 460-218380-1

Client Sample ID: H1MW-14D
Date Collected: 09/15/20 10:40
Date Received: 09/15/20 19:00

Lab Sample ID: 460-218380-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		42 - 127	09/17/20 09:57	09/18/20 01:19	1
Nitrobenzene-d5 (Surr)	102		46 - 137	09/17/20 09:57	09/18/20 01:19	1
Terphenyl-d14 (Surr)	139		39 - 150	09/17/20 09:57	09/18/20 01:19	1

TestAmerica New York City
47-32 32nd Place
Suite 1141
Long Island City, NY 11101-2425
phone 347.507.0579 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: NYSC

Client Contact	Project Manager: Chris Morris	Site Contact: Mike Quinlan	Date: 9/15/20	COC No:
GEI Consultants Inc. P.C.	Tel/Fax: (631) 759-2967	Lab Contact: Melissa Haas	Carrier: TestAmerica	1 of 1 COCs
1000 New York Ave	Analysis Turnaround Time			Sampler:
Huntington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(631) 760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
(631) 760 - 9301 FAX	☐ 2 weeks			Lab Sampling:
Project Name: National Grid Hempstead Intersection	☐ 1 week			
Site: Downstate Former MGP Site	☐ 2 days			Job / SDG No.: 218380
P O # 1905774.15.3	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D	Sulfate D516	Sample Specific Notes:
TB091520	9/15/20	—	G	GW	2			X			-1
HIMW-27S		915			5			X	X		-2
HIMW-27I		900			5			X	X		-3
HIMW-28S		1135			5			X	X		-4
HIMW-28I		1010			5			X	X		-5
HIMW-14I		1135			5			X	X		-6
HIMW-14D		1040			5			X	X		-7

5-Day RUSH

460-218380 Chain of Custody

Page 563 of 565

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: CAT B REPORT

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by: KT	Company: GEI Consultants Inc. P.C	Date/Time: 9/15/20 1400	Received by:	Company:	Date/Time: 9/15/20 1435
Relinquished by:	Company:	Date/Time: 9/15/20 1800	Received by:	Company:	Date/Time: 9/15/20 1800
Relinquished by:	Company:	Date/Time: 9/15/20 1900	Received In Laboratory by:	Company: Eurofins	Date/Time: 9/15/20 19:00

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

Client Sample ID: TB091620

Date Collected: 09/16/20 00:00
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/20 11:23	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/20 11:23	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/20 11:23	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/20 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 123*		*09/21/20 11:23*	*1*
4-Bromofluorobenzene	*94*		*76 - 120*		*09/21/20 11:23*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 124*		*09/21/20 11:23*	*1*
Toluene-d8 (Surr)	*87*		*80 - 120*		*09/21/20 11:23*	*1*

Client Sample ID: ~~H1~~MW-05D

Date Collected: 09/16/20 06:25
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/20 11:47	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/20 11:47	1
Toluene	**6.5**		1.0	0.38	ug/L			09/21/20 11:47	1
Xylenes, Total	**94**		2.0	0.65	ug/L			09/21/20 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 123*		*09/21/20 11:47*	*1*
4-Bromofluorobenzene	*95*		*76 - 120*		*09/21/20 11:47*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 124*		*09/21/20 11:47*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/21/20 11:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**52**		50	5.5	ug/L		09/20/20 08:40	09/22/20 02:25	5
Acenaphthene	50	U	50	5.4	ug/L		09/20/20 08:40	09/22/20 02:25	5
Acenaphthylene	**23**	J	50	4.1	ug/L		09/20/20 08:40	09/22/20 02:25	5
Anthracene	50	U	50	3.2	ug/L		09/20/20 08:40	09/22/20 02:25	5
Benzo[a]anthracene	5.0	U	5.0	3.0	ug/L		09/20/20 08:40	09/22/20 02:25	5
Benzo[a]pyrene	5.0	U	5.0	2.0	ug/L		09/20/20 08:40	09/22/20 02:25	5
Benzo[b]fluoranthene	10	U J	10	3.4	ug/L		09/20/20 08:40	09/22/20 02:25	5
Benzo[g,h,i]perylene	50	U	50	7.1	ug/L		09/20/20 08:40	09/22/20 02:25	5
Benzo[k]fluoranthene	5.0	U	5.0	3.4	ug/L		09/20/20 08:40	09/22/20 02:25	5
Chrysene	10	U	10	4.5	ug/L		09/20/20 08:40	09/22/20 02:25	5
Dibenz(a,h)anthracene	5.0	U	5.0	3.6	ug/L		09/20/20 08:40	09/22/20 02:25	5
Fluoranthene	50	U	50	4.2	ug/L		09/20/20 08:40	09/22/20 02:25	5
Fluorene	50	U	50	4.6	ug/L		09/20/20 08:40	09/22/20 02:25	5
Indeno[1,2,3-cd]pyrene	10	U	10	4.7	ug/L		09/20/20 08:40	09/22/20 02:25	5
Naphthalene	**590**		10	5.7	ug/L		09/20/20 08:40	09/22/20 02:25	5
Phenanthrene	50	U	50	2.9	ug/L		09/20/20 08:40	09/22/20 02:25	5
Pyrene	50	U	50	8.2	ug/L		09/20/20 08:40	09/22/20 02:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*108*		*42 - 127*	*09/20/20 08:40*	*09/22/20 02:25*	*5*
Nitrobenzene-d5 (Surr)	*104*		*46 - 137*	*09/20/20 08:40*	*09/22/20 02:25*	*5*

Client Sample ID: H1MW-05D

Date Collected: 09/16/20 06:25
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*139*	HI	*39 - 150*	*09/20/20 08:40*	*09/22/20 02:25*	*5*

Client Sample ID: H1MW-05I

Date Collected: 09/16/20 07:15
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/20 12:11	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/20 12:11	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/20 12:11	1
Xylenes, Total	**23**		2.0	0.65	ug/L			09/21/20 12:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 123*		*09/21/20 12:11*	*1*
4-Bromofluorobenzene	*115*		*76 - 120*		*09/21/20 12:11*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 124*		*09/21/20 12:11*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*09/21/20 12:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**33**		20	2.2	ug/L		09/20/20 08:40	09/22/20 02:46	2
Acenaphthene	**5.8**	J	20	2.2	ug/L		09/20/20 08:40	09/22/20 02:46	2
Acenaphthylene	**78**		20	1.6	ug/L		09/20/20 08:40	09/22/20 02:46	2
Anthracene	20	U	20	1.3	ug/L		09/20/20 08:40	09/22/20 02:46	2
Benzo[a]anthracene	2.0	U	2.0	1.2	ug/L		09/20/20 08:40	09/22/20 02:46	2
Benzo[a]pyrene	2.0	U	2.0	0.81	ug/L		09/20/20 08:40	09/22/20 02:46	2
Benzo[b]fluoranthene	4.0	U J	4.0	1.4	ug/L		09/20/20 08:40	09/22/20 02:46	2
Benzo[g,h,i]perylene	20	U	20	2.9	ug/L		09/20/20 08:40	09/22/20 02:46	2
Benzo[k]fluoranthene	2.0	U	2.0	1.3	ug/L		09/20/20 08:40	09/22/20 02:46	2
Chrysene	4.0	U	4.0	1.8	ug/L		09/20/20 08:40	09/22/20 02:46	2
Dibenz(a,h)anthracene	2.0	U	2.0	1.4	ug/L		09/20/20 08:40	09/22/20 02:46	2
Fluoranthene	20	U	20	1.7	ug/L		09/20/20 08:40	09/22/20 02:46	2
Fluorene	**15**	J	20	1.8	ug/L		09/20/20 08:40	09/22/20 02:46	2
Indeno[1,2,3-cd]pyrene	4.0	U	4.0	1.9	ug/L		09/20/20 08:40	09/22/20 02:46	2
Naphthalene	**230**		4.0	2.3	ug/L		09/20/20 08:40	09/22/20 02:46	2
Phenanthrene	**8.1**	J	20	1.2	ug/L		09/20/20 08:40	09/22/20 02:46	2
Pyrene	20	U	20	3.3	ug/L		09/20/20 08:40	09/22/20 02:46	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*96*		*42 - 127*	*09/20/20 08:40*	*09/22/20 02:46*	*2*
Nitrobenzene-d5 (Surr)	*96*		*46 - 137*	*09/20/20 08:40*	*09/22/20 02:46*	*2*
Terphenyl-d14 (Surr)	*119*	HI	*39 - 150*	*09/20/20 08:40*	*09/22/20 02:46*	*2*

Client Sample ID: H1MW-15I

Date Collected: 09/16/20 08:20
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/20 12:35	1

Client Sample ID: H1MW-15I

Date Collected: 09/16/20 08:20
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/20 12:35	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/20 12:35	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/20 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*75 - 123*		*09/21/20 12:35*	*1*
4-Bromofluorobenzene	*102*		*76 - 120*		*09/21/20 12:35*	*1*
Dibromofluoromethane (Surr)	*87*		*77 - 124*		*09/21/20 12:35*	*1*
Toluene-d8 (Surr)	*88*		*80 - 120*		*09/21/20 12:35*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/20 08:40	09/20/20 21:52	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/20 08:40	09/20/20 21:52	1
Acenaphthylene	**1.1**	**J**	10	0.82	ug/L		09/20/20 08:40	09/20/20 21:52	1
Anthracene	10	U	10	0.63	ug/L		09/20/20 08:40	09/20/20 21:52	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/20 08:40	09/20/20 21:52	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/20 08:40	09/20/20 21:52	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/20/20 08:40	09/20/20 21:52	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/20 08:40	09/20/20 21:52	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/20 08:40	09/20/20 21:52	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/20 08:40	09/20/20 21:52	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/20 08:40	09/20/20 21:52	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/20 08:40	09/20/20 21:52	1
Fluorene	10	U	10	0.91	ug/L		09/20/20 08:40	09/20/20 21:52	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/20/20 08:40	09/20/20 21:52	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/20/20 08:40	09/20/20 21:52	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/20 08:40	09/20/20 21:52	1
Pyrene	10	U	10	1.6	ug/L		09/20/20 08:40	09/20/20 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*42 - 127*	*09/20/20 08:40*	*09/20/20 21:52*	*1*
Nitrobenzene-d5 (Surr)	*104*		*46 - 137*	*09/20/20 08:40*	*09/20/20 21:52*	*1*
Terphenyl-d14 (Surr)	*102*		*39 - 150*	*09/20/20 08:40*	*09/20/20 21:52*	*1*

Client Sample ID: H1MW-15D

Date Collected: 09/16/20 09:05
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/20 12:59	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/20 12:59	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/20 12:59	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/20 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 123*		*09/21/20 12:59*	*1*
4-Bromofluorobenzene	*95*		*76 - 120*		*09/21/20 12:59*	*1*
Dibromofluoromethane (Surr)	*88*		*77 - 124*		*09/21/20 12:59*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/21/20 12:59*	*1*

Client Sample ID: H1MW-15D

Date Collected: 09/16/20 09:05
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/20 08:40	09/20/20 22:13	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/20 08:40	09/20/20 22:13	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/20 08:40	09/20/20 22:13	1
Anthracene	10	U	10	0.63	ug/L		09/20/20 08:40	09/20/20 22:13	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/20 08:40	09/20/20 22:13	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/20 08:40	09/20/20 22:13	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/20/20 08:40	09/20/20 22:13	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/20 08:40	09/20/20 22:13	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/20 08:40	09/20/20 22:13	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/20 08:40	09/20/20 22:13	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/20 08:40	09/20/20 22:13	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/20 08:40	09/20/20 22:13	1
Fluorene	10	U	10	0.91	ug/L		09/20/20 08:40	09/20/20 22:13	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/20/20 08:40	09/20/20 22:13	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/20/20 08:40	09/20/20 22:13	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/20 08:40	09/20/20 22:13	1
Pyrene	10	U	10	1.6	ug/L		09/20/20 08:40	09/20/20 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*42 - 127*	*09/20/20 08:40*	*09/20/20 22:13*	*1*
Nitrobenzene-d5 (Surr)	*126*		*46 - 137*	*09/20/20 08:40*	*09/20/20 22:13*	*1*
Terphenyl-d14 (Surr)	*114*		*39 - 150*	*09/20/20 08:40*	*09/20/20 22:13*	*1*

Client Sample ID: H1MW-23

Date Collected: 09/16/20 10:20
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/20 13:23	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/20 13:23	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/20 13:23	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/20 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 123*		*09/21/20 13:23*	*1*
4-Bromofluorobenzene	*100*		*76 - 120*		*09/21/20 13:23*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 124*		*09/21/20 13:23*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/21/20 13:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/20 08:40	09/20/20 22:34	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/20 08:40	09/20/20 22:34	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/20 08:40	09/20/20 22:34	1
Anthracene	10	U	10	0.63	ug/L		09/20/20 08:40	09/20/20 22:34	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/20 08:40	09/20/20 22:34	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/20 08:40	09/20/20 22:34	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/20/20 08:40	09/20/20 22:34	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/20 08:40	09/20/20 22:34	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/20 08:40	09/20/20 22:34	1

Client Sample ID: H1MW-23

Date Collected: 09/16/20 10:20
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-6

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/20 08:40	09/20/20 22:34	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/20 08:40	09/20/20 22:34	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/20 08:40	09/20/20 22:34	1
Fluorene	10	U	10	0.91	ug/L		09/20/20 08:40	09/20/20 22:34	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/20/20 08:40	09/20/20 22:34	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/20/20 08:40	09/20/20 22:34	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/20 08:40	09/20/20 22:34	1
Pyrene	10	U	10	1.6	ug/L		09/20/20 08:40	09/20/20 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*42 - 127*	*09/20/20 08:40*	*09/20/20 22:34*	*1*
Nitrobenzene-d5 (Surr)	*104*		*46 - 137*	*09/20/20 08:40*	*09/20/20 22:34*	*1*
Terphenyl-d14 (Surr)	*105*		*39 - 150*	*09/20/20 08:40*	*09/20/20 22:34*	*1*

Client Sample ID: H1MW-22

Date Collected: 09/16/20 11:20
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/20 13:47	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/20 13:47	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/20 13:47	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/20 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 123*		*09/21/20 13:47*	*1*
4-Bromofluorobenzene	*88*		*76 - 120*		*09/21/20 13:47*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 124*		*09/21/20 13:47*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*09/21/20 13:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/20 08:40	09/20/20 22:55	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/20 08:40	09/20/20 22:55	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/20 08:40	09/20/20 22:55	1
Anthracene	10	U	10	0.63	ug/L		09/20/20 08:40	09/20/20 22:55	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/20 08:40	09/20/20 22:55	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/20 08:40	09/20/20 22:55	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/20/20 08:40	09/20/20 22:55	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/20 08:40	09/20/20 22:55	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/20 08:40	09/20/20 22:55	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/20 08:40	09/20/20 22:55	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/20 08:40	09/20/20 22:55	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/20 08:40	09/20/20 22:55	1
Fluorene	10	U	10	0.91	ug/L		09/20/20 08:40	09/20/20 22:55	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/20/20 08:40	09/20/20 22:55	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/20/20 08:40	09/20/20 22:55	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/20 08:40	09/20/20 22:55	1
Pyrene	10	U	10	1.6	ug/L		09/20/20 08:40	09/20/20 22:55	1

Client Sample ID: H1MW-22

Date Collected: 09/16/20 11:20
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		42 - 127	09/20/20 08:40	09/20/20 22:55	1
Nitrobenzene-d5 (Surr)	101		46 - 137	09/20/20 08:40	09/20/20 22:55	1
Terphenyl-d14 (Surr)	103		39 - 150	09/20/20 08:40	09/20/20 22:55	1

Client Sample ID: H1MW-12S

Date Collected: 09/16/20 12:25
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/20 14:11	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/20 14:11	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/20 14:11	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/20 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 123		09/21/20 14:11	1
4-Bromofluorobenzene	98		76 - 120		09/21/20 14:11	1
Dibromofluoromethane (Surr)	97		77 - 124		09/21/20 14:11	1
Toluene-d8 (Surr)	87		80 - 120		09/21/20 14:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/20 08:40	09/20/20 23:16	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/20 08:40	09/20/20 23:16	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/20 08:40	09/20/20 23:16	1
Anthracene	10	U	10	0.63	ug/L		09/20/20 08:40	09/20/20 23:16	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/20 08:40	09/20/20 23:16	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/20 08:40	09/20/20 23:16	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/20/20 08:40	09/20/20 23:16	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/20 08:40	09/20/20 23:16	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/20 08:40	09/20/20 23:16	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/20 08:40	09/20/20 23:16	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/20 08:40	09/20/20 23:16	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/20 08:40	09/20/20 23:16	1
Fluorene	10	U	10	0.91	ug/L		09/20/20 08:40	09/20/20 23:16	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/20/20 08:40	09/20/20 23:16	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/20/20 08:40	09/20/20 23:16	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/20 08:40	09/20/20 23:16	1
Pyrene	10	U	10	1.6	ug/L		09/20/20 08:40	09/20/20 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		42 - 127	09/20/20 08:40	09/20/20 23:16	1
Nitrobenzene-d5 (Surr)	105		46 - 137	09/20/20 08:40	09/20/20 23:16	1
Terphenyl-d14 (Surr)	101		39 - 150	09/20/20 08:40	09/20/20 23:16	1

Client Sample ID: H1MW-26I

Date Collected: 09/16/20 07:20
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/20 14:35	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/20 14:35	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/20 14:35	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/20 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 123*		*09/21/20 14:35*	*1*
4-Bromofluorobenzene	*111*		*76 - 120*		*09/21/20 14:35*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*09/21/20 14:35*	*1*
Toluene-d8 (Surr)	*82*		*80 - 120*		*09/21/20 14:35*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/20 08:40	09/20/20 23:36	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/20 08:40	09/20/20 23:36	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/20 08:40	09/20/20 23:36	1
Anthracene	10	U	10	0.63	ug/L		09/20/20 08:40	09/20/20 23:36	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/20 08:40	09/20/20 23:36	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/20 08:40	09/20/20 23:36	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/20/20 08:40	09/20/20 23:36	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/20 08:40	09/20/20 23:36	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/20 08:40	09/20/20 23:36	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/20 08:40	09/20/20 23:36	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/20 08:40	09/20/20 23:36	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/20 08:40	09/20/20 23:36	1
Fluorene	10	U	10	0.91	ug/L		09/20/20 08:40	09/20/20 23:36	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/20/20 08:40	09/20/20 23:36	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/20/20 08:40	09/20/20 23:36	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/20 08:40	09/20/20 23:36	1
Pyrene	10	U	10	1.6	ug/L		09/20/20 08:40	09/20/20 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*42 - 127*	*09/20/20 08:40*	*09/20/20 23:36*	*1*
Nitrobenzene-d5 (Surr)	*109*		*46 - 137*	*09/20/20 08:40*	*09/20/20 23:36*	*1*
Terphenyl-d14 (Surr)	*106*		*39 - 150*	*09/20/20 08:40*	*09/20/20 23:36*	*1*

Client Sample ID: H1MW-08S

Date Collected: 09/16/20 08:50
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/20 14:59	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/20 14:59	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/20 14:59	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/20 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 123*		*09/21/20 14:59*	*1*
4-Bromofluorobenzene	*98*		*76 - 120*		*09/21/20 14:59*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 124*		*09/21/20 14:59*	*1*

Client Sample ID: H1MW-08S
Date Collected: 09/16/20 08:50
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	80		80 - 120		09/21/20 14:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/20 08:40	09/20/20 23:57	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/20 08:40	09/20/20 23:57	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/20 08:40	09/20/20 23:57	1
Anthracene	10	U	10	0.63	ug/L		09/20/20 08:40	09/20/20 23:57	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/20 08:40	09/20/20 23:57	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/20 08:40	09/20/20 23:57	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/20/20 08:40	09/20/20 23:57	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/20 08:40	09/20/20 23:57	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/20 08:40	09/20/20 23:57	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/20 08:40	09/20/20 23:57	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/20 08:40	09/20/20 23:57	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/20 08:40	09/20/20 23:57	1
Fluorene	10	U	10	0.91	ug/L		09/20/20 08:40	09/20/20 23:57	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/20/20 08:40	09/20/20 23:57	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/20/20 08:40	09/20/20 23:57	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/20 08:40	09/20/20 23:57	1
Pyrene	10	U	10	1.6	ug/L		09/20/20 08:40	09/20/20 23:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		42 - 127	09/20/20 08:40	09/20/20 23:57	1
Nitrobenzene-d5 (Surr)	106		46 - 137	09/20/20 08:40	09/20/20 23:57	1
Terphenyl-d14 (Surr)	86		39 - 150	09/20/20 08:40	09/20/20 23:57	1

Client Sample ID: H1MW-08I
Date Collected: 09/16/20 09:55
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/20 15:23	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/20 15:23	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/20 15:23	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/20 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		75 - 123		09/21/20 15:23	1
4-Bromofluorobenzene	98		76 - 120		09/21/20 15:23	1
Dibromofluoromethane (Surr)	104		77 - 124		09/21/20 15:23	1
Toluene-d8 (Surr)	85		80 - 120		09/21/20 15:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/20 08:40	09/21/20 00:18	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/20 08:40	09/21/20 00:18	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/20 08:40	09/21/20 00:18	1
Anthracene	10	U	10	0.63	ug/L		09/20/20 08:40	09/21/20 00:18	1

RE

Client Sample ID: H1MW-08I

Date Collected: 09/16/20 09:55
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-11
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/20 08:40	09/21/20 00:18	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/20 08:40	09/21/20 00:18	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/20/20 08:40	09/21/20 00:18	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/20 08:40	09/21/20 00:18	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/20 08:40	09/21/20 00:18	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/20 08:40	09/21/20 00:18	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/20 08:40	09/21/20 00:18	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/20 08:40	09/21/20 00:18	1
Fluorene	10	U	10	0.91	ug/L		09/20/20 08:40	09/21/20 00:18	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/20/20 08:40	09/21/20 00:18	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/20/20 08:40	09/21/20 00:18	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/20 08:40	09/21/20 00:18	1
Pyrene	10	U	10	1.6	ug/L		09/20/20 08:40	09/21/20 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*42 - 127*	*09/20/20 08:40*	*09/21/20 00:18*	*1*
Nitrobenzene-d5 (Surr)	*112*		*46 - 137*	*09/20/20 08:40*	*09/21/20 00:18*	*1*
Terphenyl-d14 (Surr)	*104*		*39 - 150*	*09/20/20 08:40*	*09/21/20 00:18*	*1*

HL

Client Sample ID: H1MW-08D

Date Collected: 09/16/20 10:55
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/20 15:47	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/20 15:47	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/20 15:47	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/20 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 123*		*09/21/20 15:47*	*1*
4-Bromofluorobenzene	*96*		*76 - 120*		*09/21/20 15:47*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 124*		*09/21/20 15:47*	*1*
Toluene-d8 (Surr)	*83*		*80 - 120*		*09/21/20 15:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/20 08:40	09/21/20 00:39	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/20 08:40	09/21/20 00:39	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/20 08:40	09/21/20 00:39	1
Anthracene	10	U	10	0.63	ug/L		09/20/20 08:40	09/21/20 00:39	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/20 08:40	09/21/20 00:39	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/20 08:40	09/21/20 00:39	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/20/20 08:40	09/21/20 00:39	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/20 08:40	09/21/20 00:39	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/20 08:40	09/21/20 00:39	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/20 08:40	09/21/20 00:39	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/20 08:40	09/21/20 00:39	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/20 08:40	09/21/20 00:39	1
Fluorene	10	U	10	0.91	ug/L		09/20/20 08:40	09/21/20 00:39	1

Client Sample ID: ~~H1MW-08D~~ H1

Date Collected: 09/16/20 10:55
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-12
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/20/20 08:40	09/21/20 00:39	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/20/20 08:40	09/21/20 00:39	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/20 08:40	09/21/20 00:39	1
Pyrene	10	U	10	1.6	ug/L		09/20/20 08:40	09/21/20 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*42 - 127*	*09/20/20 08:40*	*09/21/20 00:39*	*1*
Nitrobenzene-d5 (Surr)	*109*		*46 - 137*	*09/20/20 08:40*	*09/21/20 00:39*	*1*
Terphenyl-d14 (Surr)	*96*		*39 - 150*	*09/20/20 08:40*	*09/21/20 00:39*	*1*

Client Sample ID: ~~H1MW-25~~ H2

Date Collected: 09/16/20 12:25
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/20 16:11	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/20 16:11	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/20 16:11	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/20 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 123*		*09/21/20 16:11*	*1*
4-Bromofluorobenzene	*96*		*76 - 120*		*09/21/20 16:11*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 124*		*09/21/20 16:11*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*09/21/20 16:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/20 08:40	09/21/20 01:00	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/20 08:40	09/21/20 01:00	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/20 08:40	09/21/20 01:00	1
Anthracene	10	U	10	0.63	ug/L		09/20/20 08:40	09/21/20 01:00	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/20 08:40	09/21/20 01:00	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/20 08:40	09/21/20 01:00	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/20/20 08:40	09/21/20 01:00	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/20 08:40	09/21/20 01:00	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/20 08:40	09/21/20 01:00	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/20 08:40	09/21/20 01:00	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/20 08:40	09/21/20 01:00	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/20 08:40	09/21/20 01:00	1
Fluorene	10	U	10	0.91	ug/L		09/20/20 08:40	09/21/20 01:00	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/20/20 08:40	09/21/20 01:00	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/20/20 08:40	09/21/20 01:00	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/20 08:40	09/21/20 01:00	1
Pyrene	10	U	10	1.6	ug/L		09/20/20 08:40	09/21/20 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*42 - 127*	*09/20/20 08:40*	*09/21/20 01:00*	*1*
Nitrobenzene-d5 (Surr)	*106*		*46 - 137*	*09/20/20 08:40*	*09/21/20 01:00*	*1*
Terphenyl-d14 (Surr)	*107*		*39 - 150*	*09/20/20 08:40*	*09/21/20 01:00*	*1*

Client Sample ID: ~~H1MW-24~~ H1
Date Collected: 09/16/20 13:35
Date Received: 09/16/20 18:30

Lab Sample ID: 460-218634-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/20 16:35	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/20 16:35	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/20 16:35	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/20 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 123*		*09/21/20 16:35*	*1*
4-Bromofluorobenzene	*98*		*76 - 120*		*09/21/20 16:35*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 124*		*09/21/20 16:35*	*1*
Toluene-d8 (Surr)	*86*		*80 - 120*		*09/21/20 16:35*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/20 08:40	09/21/20 01:21	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/20 08:40	09/21/20 01:21	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/20 08:40	09/21/20 01:21	1
Anthracene	10	U	10	0.63	ug/L		09/20/20 08:40	09/21/20 01:21	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/20 08:40	09/21/20 01:21	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/20 08:40	09/21/20 01:21	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/20/20 08:40	09/21/20 01:21	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/20 08:40	09/21/20 01:21	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/20 08:40	09/21/20 01:21	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/20 08:40	09/21/20 01:21	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/20 08:40	09/21/20 01:21	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/20 08:40	09/21/20 01:21	1
Fluorene	10	U	10	0.91	ug/L		09/20/20 08:40	09/21/20 01:21	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/20/20 08:40	09/21/20 01:21	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/20/20 08:40	09/21/20 01:21	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/20 08:40	09/21/20 01:21	1
Pyrene	10	U	10	1.6	ug/L		09/20/20 08:40	09/21/20 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*42 - 127*	*09/20/20 08:40*	*09/21/20 01:21*	*1*
Nitrobenzene-d5 (Surr)	*103*		*46 - 137*	*09/20/20 08:40*	*09/21/20 01:21*	*1*
Terphenyl-d14 (Surr)	*96*		*39 - 150*	*09/20/20 08:40*	*09/21/20 01:21*	*1*

America New York City
32nd Place
1141
sland City, NY 11101-2425
347.507.0579 fax

Chain of Custody Record

NYC 222

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Chris Morris	Site Contact: Mike Quinlan	Date: 9/16/20	COC No:
onsultants Inc. P.C.	Tel/Fax: (631) 759-2967	Lab Contact: Melissa Haas	Carrier: Test America	1 of 1 COCs
lew York Ave	Analysis Turnaround Time			Sampler:
gton Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
760 - 9301 FAX	☐ 2 weeks			pling:
t Name: National Grid Hempstead Intersection	☐ 1 week			G No.: 218634
lownstate Former MGP Site Q3	☐ 2 days			
1905774.15.3	☐ 1 day			

460-218634 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D	Sulfate D516	Sample Specific Notes:
TB01620	9/16/20	—	G	GW	2			X			1
HIMW-05D		625			5			X	X		2
HIMW-05I		715			5			X	X		3
HIMW-15I		820			5			X	X		4
HIMW-15D		905			5			X	X		5
HIMW-23		1020			5			X	X		6
HIMW-22		1120			5			X	X		7
HIMW-12S		1225			5			X	X		8

Page 539 of 542

vation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

ble Hazard Identification:
y samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the ents Section if the lab is to dispose of the sample.

n-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments: CAT B REPORT

ody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:	
uished by:	Company: GEI Consultants Inc. P.C	Date/Time: 9/16/20 1415	Received by:	Company:	Date/Time: 9/16/20 1417	
uished by:	Company:	Date/Time: 9/16/20 1530	Received by:	Company:	Date/Time: 9/16/20 1600	
uished by:	Company:	Date/Time: 9/16/20 1830	Received in Laboratory by:	Company:	Date/Time: 9/16/20 1830	

3-6 JR 11

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

:America New York City
32nd Place
1141
sland City, NY 11101-2425
347.507.0579 fax

Chain of Custody Record

NYC 222

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Chris Morris	Site Contact: Mike Quinlan	Date: 09/16/20	COC No:
onsultants Inc. P.C.	Tel/Fax: (631) 759-2967	Lab Contact: Melissa Haas	Carrier: Test America	1 of 1 COCs
lew York Ave	Analysis Turnaround Time			Sampler: Vouziouras
gton Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
760 - 9301 FAX	☐ 2 weeks			Lab Sampling:
t Name: National Grid Hempstead Intersection Q3 2020	☐ 1 week			
lownstate Former MGP Site	☐ 2 days			Job / SDG No.: 446634
1905774.15.3	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D	Sulfide-D546(Fr)	Sample Specific Notes:
TB-091620	09/16/20	0700	G	GW	2			X			
HMW-26I	9/16/20	0720			5			X	X		9
HMW-08S		0850			5			X	X		10
HMW-08I		0955			5			X	X		11
HMW-08D		1055			5			X	X		12
HMW-25		1225			5			X	X		13
HMW-24		1335			5			X	X		14

5-Day RUSH

vation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

ble Hazard Identification:
y samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the ents Section if the lab is to dispose of the sample.

n-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

l Instructions/QC Requirements & Comments: CAT B

ody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
uished by: Greg Vouziouras	Company: GEI Consultants Inc. P.C	Date/Time: 9/16/20 1415	Received by:	Company:	Date/Time: 9/16/20 1417
uished by:	Company: TA	Date/Time: 9/16/20 1530	Received by:	Company: TA	Date/Time: 9/16/20 1600
uished by:	Company: TA	Date/Time: 9/16/20 1830	Received in Laboratory by:	Company: TAEd	Date/Time: 9/16/20 1830

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

3-6 ER 1

Client Sample ID: TB091720
Date Collected: 09/17/20 00:00
Date Received: 09/17/20 18:30

Lab Sample ID: 460-218647-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/22/20 02:35	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/22/20 02:35	1
Toluene	1.0	U	1.0	0.38	ug/L			09/22/20 02:35	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/22/20 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 123*		*09/22/20 02:35*	*1*
4-Bromofluorobenzene	*112*		*76 - 120*		*09/22/20 02:35*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*09/22/20 02:35*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/22/20 02:35*	*1*

Client Sample ID: HIMW-05S
Date Collected: 09/17/20 06:50
Date Received: 09/17/20 18:30

Lab Sample ID: 460-218647-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/22/20 04:38	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/22/20 04:38	1
Toluene	1.0	U	1.0	0.38	ug/L			09/22/20 04:38	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/22/20 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*		*09/22/20 04:38*	*1*
4-Bromofluorobenzene	*113*		*76 - 120*		*09/22/20 04:38*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*09/22/20 04:38*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/22/20 04:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/20 08:40	09/21/20 01:41	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/20 08:40	09/21/20 01:41	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/20 08:40	09/21/20 01:41	1
Anthracene	10	U	10	0.63	ug/L		09/20/20 08:40	09/21/20 01:41	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/20 08:40	09/21/20 01:41	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/20 08:40	09/21/20 01:41	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/20/20 08:40	09/21/20 01:41	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/20 08:40	09/21/20 01:41	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/20 08:40	09/21/20 01:41	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/20 08:40	09/21/20 01:41	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/20 08:40	09/21/20 01:41	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/20 08:40	09/21/20 01:41	1
Fluorene	10	U	10	0.91	ug/L		09/20/20 08:40	09/21/20 01:41	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/20/20 08:40	09/21/20 01:41	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/20/20 08:40	09/21/20 01:41	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/20 08:40	09/21/20 01:41	1
Pyrene	10	U	10	1.6	ug/L		09/20/20 08:40	09/21/20 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*105*		*42 - 127*	*09/20/20 08:40*	*09/21/20 01:41*	*1*
Nitrobenzene-d5 (Surr)	*113*		*46 - 137*	*09/20/20 08:40*	*09/21/20 01:41*	*1*

Client Sample ID: HIMW-05S

Date Collected: 09/17/20 06:50
Date Received: 09/17/20 18:30

Lab Sample ID: 460-218647-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*106*		*39 - 150*	*09/20/20 08:40*	*09/21/20 01:41*	*1*

Client Sample ID: HIMW-20S

Date Collected: 09/17/20 08:50
Date Received: 09/17/20 18:30

Lab Sample ID: 460-218647-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/22/20 05:03	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/22/20 05:03	1
Toluene	1.0	U	1.0	0.38	ug/L			09/22/20 05:03	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/22/20 05:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 123*		*09/22/20 05:03*	*1*
4-Bromofluorobenzene	*113*		*76 - 120*		*09/22/20 05:03*	*1*
Dibromofluoromethane (Surr)	*105*		*77 - 124*		*09/22/20 05:03*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/22/20 05:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/20 08:40	09/21/20 02:02	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/20 08:40	09/21/20 02:02	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/20 08:40	09/21/20 02:02	1
Anthracene	10	U	10	0.63	ug/L		09/20/20 08:40	09/21/20 02:02	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/20 08:40	09/21/20 02:02	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/20 08:40	09/21/20 02:02	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/20/20 08:40	09/21/20 02:02	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/20 08:40	09/21/20 02:02	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/20 08:40	09/21/20 02:02	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/20 08:40	09/21/20 02:02	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/20 08:40	09/21/20 02:02	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/20 08:40	09/21/20 02:02	1
Fluorene	10	U	10	0.91	ug/L		09/20/20 08:40	09/21/20 02:02	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/20/20 08:40	09/21/20 02:02	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/20/20 08:40	09/21/20 02:02	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/20 08:40	09/21/20 02:02	1
Pyrene	10	U	10	1.6	ug/L		09/20/20 08:40	09/21/20 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*77*		*42 - 127*	*09/20/20 08:40*	*09/21/20 02:02*	*1*
Nitrobenzene-d5 (Surr)	*86*		*46 - 137*	*09/20/20 08:40*	*09/21/20 02:02*	*1*
Terphenyl-d14 (Surr)	*71*		*39 - 150*	*09/20/20 08:40*	*09/21/20 02:02*	*1*

Client Sample ID: HIMW-20I

Date Collected: 09/17/20 10:35
Date Received: 09/17/20 18:30

Lab Sample ID: 460-218647-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/22/20 05:28	1

Client Sample ID: HIMW-20I

Date Collected: 09/17/20 10:35
Date Received: 09/17/20 18:30

Lab Sample ID: 460-218647-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/22/20 05:28	1
Toluene	1.0	U	1.0	0.38	ug/L			09/22/20 05:28	1
Xylenes, Total	2.0	U	2.0	0.85	ug/L			09/22/20 05:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 123*		*09/22/20 05:28*	*1*
4-Bromofluorobenzene	*110*		*76 - 120*		*09/22/20 05:28*	*1*
Dibromofluoromethane (Surr)	*105*		*77 - 124*		*09/22/20 05:28*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/22/20 05:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/20 08:40	09/21/20 02:23	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/20 08:40	09/21/20 02:23	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/20 08:40	09/21/20 02:23	1
Anthracene	10	U	10	0.63	ug/L		09/20/20 08:40	09/21/20 02:23	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/20 08:40	09/21/20 02:23	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/20 08:40	09/21/20 02:23	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		09/20/20 08:40	09/21/20 02:23	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/20 08:40	09/21/20 02:23	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/20 08:40	09/21/20 02:23	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/20 08:40	09/21/20 02:23	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/20 08:40	09/21/20 02:23	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/20 08:40	09/21/20 02:23	1
Fluorene	10	U	10	0.91	ug/L		09/20/20 08:40	09/21/20 02:23	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		09/20/20 08:40	09/21/20 02:23	1
Naphthalene	2.0	U	2.0	1.1	ug/L		09/20/20 08:40	09/21/20 02:23	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/20 08:40	09/21/20 02:23	1
Pyrene	10	U	10	1.6	ug/L		09/20/20 08:40	09/21/20 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*42 - 127*	*09/20/20 08:40*	*09/21/20 02:23*	*1*
Nitrobenzene-d5 (Surr)	*108*		*46 - 137*	*09/20/20 08:40*	*09/21/20 02:23*	*1*
Terphenyl-d14 (Surr)	*103*		*39 - 150*	*09/20/20 08:40*	*09/21/20 02:23*	*1*

Client Sample ID: HIMW-26D

Date Collected: 09/17/20 07:25
Date Received: 09/17/20 18:30

Lab Sample ID: 460-218647-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/22/20 05:52	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/22/20 05:52	1
Toluene	**0.48**	**J**	1.0	0.38	ug/L			09/22/20 05:52	1
Xylenes, Total	**22**		2.0	0.65	ug/L			09/22/20 05:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 123*		*09/22/20 05:52*	*1*
4-Bromofluorobenzene	*112*		*76 - 120*		*09/22/20 05:52*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 124*		*09/22/20 05:52*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/22/20 05:52*	*1*

Client Sample ID: HIMW-26D
Date Collected: 09/17/20 07:25
Date Received: 09/17/20 18:30

Lab Sample ID: 460-218647-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**280**		40	4.4	ug/L		09/20/20 08:40	09/22/20 06:58	4
Acenaphthene	**8.4**	J	40	4.3	ug/L		09/20/20 08:40	09/22/20 06:58	4
Acenaphthylene	**100**		40	3.3	ug/L		09/20/20 08:40	09/22/20 06:58	4
Anthracene	40	U	40	2.5	ug/L		09/20/20 08:40	09/22/20 06:58	4
Benzo[a]anthracene	4.0	U	4.0	2.4	ug/L		09/20/20 08:40	09/22/20 06:58	4
Benzo[a]pyrene	4.0	U	4.0	1.6	ug/L		09/20/20 08:40	09/22/20 06:58	4
Benzo[b]fluoranthene	8.0	U J	8.0	2.7	ug/L		09/20/20 08:40	09/22/20 06:58	4
Benzo[g,h,i]perylene	40	U	40	5.7	ug/L		09/20/20 08:40	09/22/20 06:58	4
Benzo[k]fluoranthene	4.0	U	4.0	2.7	ug/L		09/20/20 08:40	09/22/20 06:58	4
Chrysene	8.0	U	8.0	3.6	ug/L		09/20/20 08:40	09/22/20 06:58	4
Dibenz(a,h)anthracene	4.0	U	4.0	2.9	ug/L		09/20/20 08:40	09/22/20 06:58	4
Fluoranthene	40	U	40	3.4	ug/L		09/20/20 08:40	09/22/20 06:58	4
Fluorene	**23**	J	40	3.6	ug/L		09/20/20 08:40	09/22/20 06:58	4
Indeno[1,2,3-cd]pyrene	8.0	U	8.0	3.8	ug/L		09/20/20 08:40	09/22/20 06:58	4
Naphthalene	**450**		8.0	4.5	ug/L		09/20/20 08:40	09/22/20 06:58	4
Phenanthrene	**19**	J	40	2.3	ug/L		09/20/20 08:40	09/22/20 06:58	4
Pyrene	40	U	40	6.6	ug/L		09/20/20 08:40	09/22/20 06:58	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*113*		*42 - 127*	*09/20/20 08:40*	*09/22/20 06:58*	*4*
Nitrobenzene-d5 (Surr)	*106*		*46 - 137*	*09/20/20 08:40*	*09/22/20 06:58*	*4*
Terphenyl-d14 (Surr)	*121*		*39 - 150*	*09/20/20 08:40*	*09/22/20 06:58*	*4*

TestAmerica New York City
47-32 32nd Place
Suite 1141
Long Island City, NY 11101-2425
phone 347.507.0579 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Chris Morris	Site Contact: Mike Quinlan	Date: 9/17/20	COC No:
GEI Consultants Inc. P.C.	Tel/Fax: (631) 759-2967	Lab Contact: Melissa Haas	Carrier: Test America	1 of 1 COCs
1000 New York Ave	Analysis Turnaround Time			Sampler:
Huntington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(631) 760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
(631) 760 - 9301 FAX	☐ 2 weeks			Lab Sampling:
Project Name: National Grid Hempstead Intersection	☐ 1 week			Job / SDG No.: 218647
Site: Downstate Former MGP Site	☐ 2 days			
P O # 1905774.15.3	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D	Sulfate D516	Sample Specific Notes:
TB091720	9/17/20	—	G	GW	2			X			
HIMW-05S		650			5			X	X		1
HIMW-20S		850			5			X	X		2
HIMW-20I		1035			5			X	X		3
HIMW-26D		0725			5			X	X		4
											5

NYC 22

460-218647 Chain of Custody

5-Day RUSH

Page 589 of 591

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: CAT B REPORT

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by: RJ Quinlan	Company: GEI Consultants Inc. P.C	Date/Time: 9/17/20 1700	Received by:	Company:	Date/Time: 9/17/20 1500
Relinquished by:	Company:	Date/Time: 9/17/20	Received by:	Company:	Date/Time: 9/17/20 1600
Relinquished by:	Company:	Date/Time: 9/17/20 1830	Received in Laboratory by:	Company:	Date/Time: 9/17/20 1830

3.3 IR11

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

Client Sample ID: TB100620

Date Collected: 10/06/20 00:00
Date Received: 10/07/20 20:00

Lab Sample ID: 460-220057-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			10/10/20 17:32	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/10/20 17:32	1
Toluene	1.0	U	1.0	0.38	ug/L			10/10/20 17:32	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/10/20 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 123*		*10/10/20 17:32*	*1*
4-Bromofluorobenzene	*107*		*76 - 120*		*10/10/20 17:32*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 124*		*10/10/20 17:32*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/10/20 17:32*	*1*

Client Sample ID: HIMW-12I

Date Collected: 10/06/20 09:40
Date Received: 10/07/20 20:00

Lab Sample ID: 460-220057-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			10/10/20 17:56	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/10/20 17:56	1
Toluene	1.0	U	1.0	0.38	ug/L			10/10/20 17:56	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/10/20 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 123*		*10/10/20 17:56*	*1*
4-Bromofluorobenzene	*107*		*76 - 120*		*10/10/20 17:56*	*1*
Dibromofluoromethane (Surr)	*106*		*77 - 124*		*10/10/20 17:56*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/10/20 17:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		10/10/20 09:33	10/10/20 22:37	1
Acenaphthene	10	U	10	1.1	ug/L		10/10/20 09:33	10/10/20 22:37	1
Acenaphthylene	10	U	10	0.82	ug/L		10/10/20 09:33	10/10/20 22:37	1
Anthracene	10	U	10	0.63	ug/L		10/10/20 09:33	10/10/20 22:37	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		10/10/20 09:33	10/10/20 22:37	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		10/10/20 09:33	10/10/20 22:37	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		10/10/20 09:33	10/10/20 22:37	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		10/10/20 09:33	10/10/20 22:37	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		10/10/20 09:33	10/10/20 22:37	1
Chrysene	2.0	U	2.0	0.91	ug/L		10/10/20 09:33	10/10/20 22:37	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		10/10/20 09:33	10/10/20 22:37	1
Fluoranthene	10	U	10	0.84	ug/L		10/10/20 09:33	10/10/20 22:37	1
Fluorene	10	U	10	0.91	ug/L		10/10/20 09:33	10/10/20 22:37	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		10/10/20 09:33	10/10/20 22:37	1
Naphthalene	2.0	U	2.0	1.1	ug/L		10/10/20 09:33	10/10/20 22:37	1
Phenanthrene	10	U	10	0.58	ug/L		10/10/20 09:33	10/10/20 22:37	1
Pyrene	10	U	10	1.6	ug/L		10/10/20 09:33	10/10/20 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*42 - 127*	*10/10/20 09:33*	*10/10/20 22:37*	*1*
Nitrobenzene-d5 (Surr)	*88*		*46 - 137*	*10/10/20 09:33*	*10/10/20 22:37*	*1*

Chain of Custody Record

TestAmerica New York City
47-32 32nd Place
Suite 1141
Long Island City, NY 11101-2425
phone 347.507.0579 fax

TestAmerica — THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Chris Morris	Site Contact: Mike Quinlan	Date: 10/6/20	COC No:
GEI Consultants Inc. P.C.	Tel/Fax: (631) 759-2987	Lab Contact: Melissa Haas	Carrier: Test America	1 of 1 COCs
1000 New York Ave	Analysis Turnaround Time			Sampler:
Huntington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(631) 760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
(631) 760 - 9301 FAX	☐ 2 weeks			Lab Sampling:
Project Name: National Grid Hempstead Intersection	☐ 1 week			
Site: Downstate Former MGP Site	☐ 2 days			
P O # 1905774.15.3	☐ 1 day			Job / SDG No.: 220057

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D	Sulfate D516	Sample Specific Notes:
TB100620	10/6/20	—	G	GW	2			X	X		-1
HMW-12I	↓	940	↓	↓	5			X	X		-2

5-Day RUSH

460-220057 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: CAT B

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: Corr'd:		Therm ID No.:
Relinquished by: [signature]	Company: GEI Consultants Inc. P.C	Date/Time:	Received by: [signature]	Company: TA	Date/Time: 10/7/20 13:00
Relinquished by: [signature]	Company: TA	Date/Time: 10/7/20 17:30	Received by: [signature]	Company: TA	Date/Time: 10/7/20 1800
Relinquished by: [signature]	Company: TA	Date/Time: 10/7/20	Received in Laboratory by: [signature]	Company: ETA	Date/Time: 10/7/20 2000

2.5 TR#11

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

Site: Downstate OMM Hempstead
Laboratory: Eurofins Test America, Edison, NJ
Report Numbers: 460-228969-1 and 460-229075-1
Reviewer: Elissa McDonagh/GEI Consultants
Date: March 11, 2021

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
TB030121	460-228969-1	BTEX
HIMW-28S	460-228969-2	BTEX, PAH
HIMW-28I	460-228969-3	BTEX, PAH
FB030121	460-228969-4	BTEX, PAH
DUP-01	460-228969-5	BTEX, PAH
HIMW-08S	460-228969-6	BTEX, PAH
HIMW-08I	460-228969-7	BTEX, PAH
HIMW-27S	460-228969-8	BTEX, PAH
HIMW-27I	460-228969-9	BTEX, PAH
TB030221	460-229075-1	BTEX
HIMW-25	460-229075-2	BTEX, PAH
HIMW-24	460-229075-3	BTEX, PAH
HIMW-20S	460-229075-4	BTEX, PAH
HIMW-20I	460-229075-5	BTEX, PAH
HIMW-08D	460-229075-6	BTEX, PAH

Associated QC Samples:
Trip Blank: TB030121, TB030221
Field Blank: FB030121
Field Duplicate pair: HIMW-28I/DUP-01

The above-listed aqueous samples, field blank, and trip blank samples were collected on March 1 and 2, 2021 and were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260D and polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270E.

The data validation was performed based on the Standard Operating Procedure (SOP) HW-33 (Revision 3) *Low/Medium Volatile Data Validation* (March 2013) and SOP HW-35 (Revision 2) *Semivolatile Data Validation* (March 2013) as well as by the methods referenced by the data package and professional and technical judgment.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Initial and Continuing Calibrations
- Blanks

- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Internal Standard Results
- Laboratory Control Sample (LCS) Results
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

All results appear usable as reported or usable with minor qualification due to calibration nonconformances, surrogate recovery outliers, MS/MSD recovery outliers, and uncertainty for levels below the reporting limit. These results were considered valid; even though some were qualified as discussed below.

The validation findings were based on the following information.

Data Completeness

The data packages were complete as received by the laboratory.

Holding Times and Sample Preservation

All hold time and sample preservation criteria were met.

Initial and Continuing Calibrations

All initial and continuing calibration criteria were met except where noted below.

Instrument/ Calibration Standard	Compound	Calibration Exceedance	Validation Qualifier
SVOC			
CBNAMS14 CCVIS 460-762599/2 03/05/2021 07:21	Benzo[g,h,i]perylene	20.3 %R	Estimate (UJ) the nondetect result for benzo[g,h,i]perylene in the associated sample.
Associated samples: DUP-01			
CBNAMS16 CCVIS 460-762333/2 03/04/2021 08:55	Indeno(123cd)pyrene	69.4 %R	Estimate (UJ) the nondetect results for indeno(123cd)pyrene, dibenz(ah)anthracene and benzo[g,h,i]perylene in the associated samples.
	Dibenz(ah)anthracene	62.3 %R	
	Benzo[g,h,i]perylene	61.8 %R	
Associated samples: HIMW-28S, HIMW-28I, FB030121, HIMW-08S, HIMW-08I, HIMW-27I			
CBNAMS17 CCVIS 460-762604/2 03/05/2021 07:14	Indeno(123cd)pyrene	36.5 %R	Estimate (UJ) the nondetect results for indeno(123cd)pyrene, dibenz(ah)anthracene and benzo[g,h,i]perylene in the associated sample.
	Dibenz(ah)anthracene	35.4 %R	
	Benzo[g,h,i]perylene	37.1 %R	
Associated samples: HIMW-27S			

Initial calibration (ICAL) relative standard deviation (%RSD) > 20% for VOC and SVOC; estimate (J) positive and blank-qualified (UJ) results only.
Continuing calibration (CCAL) percent difference (%D) > 20% for VOC and SVOC; estimate (J/UJ) positive and nondetect results.
Response factor (RF) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

Blanks

Contamination was not detected in the associated method blank samples. Contamination was not detected in the trip blank and field blank samples.

Surrogate Recoveries

The following table lists the surrogate recoveries outside of the control limits and the resulting validation actions.

Sample	Surrogate	Recovery (%)	Control Limits (%)	Validation Actions
VOCs				
TB030121	1,2-Dichloroethane-d4	139	75-123	Estimate (J) the positive results in the associated VOC samples; High bias.
HIMW-28S	1,2-Dichloroethane-d4	141		
HIMW-28I	1,2-Dichloroethane-d4	129		
FB030121	1,2-Dichloroethane-d4	134		
DUP-01	1,2-Dichloroethane-d4	127		
HIMW-08S	1,2-Dichloroethane-d4	131		
HIMW-08I	1,2-Dichloroethane-d4	146		
HIMW-27S	1,2-Dichloroethane-d4	133		
HIMW-27I	1,2-Dichloroethane-d4	139		

MS/MSD Results

MS/MSD analyses were performed on sample HIMW-28S for VOCs and SVOCs. All recovery and precision criteria were met, except where noted below.

HIMW-28S					
Analyte	**MS (%)**	**MSD (%)**	**RPD (%)**	**Control Limits (%)**	**Validation Action/Bias**
VOC					
Ethylbenzene	-96	-84	-	78-120/30	Validation was not required. Sample concentration greater than 4x that of the MS spiking solution.

Analyte	MS (%)	MSD (%)	RPD (%)	Control Limits (%)	Validation Action/Bias
SVOC					
Benzo[g,h,i]perylene	-	-	63	49-149/30	Validation actions were not required as these associated compound results were nondetect in sample HIMW-28S.
Dibenz(a,h)anthracene	-	-	57	55-150/30	
Indeno[1,2,3-cd]pyrene	-	-	60	54-150/30	
2-Methylnaphthalene	-	10	63	55-111/30	Estimate (J/UJ) the positive and/or nondetect result for 2-methylnaphthalene, acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene and pyrene in sample HIMW-28S; Indeterminate bias.
Acenaphthene	-	25	65	60-110/30	
Acenaphthylene	-	43	70	64-109/30	
Anthracene	-	48	58	65-109/30	
Benzo[a]anthracene	-	46	60	62-106/30	
Benzo[a]pyrene	-	53	59	66-127/30	
Benzo[b]fluoranthene	-	47	58	66-125/30	
Benzo[k]fluoranthene	-	51	62	64-125/30	
Chrysene	-	47	59	63-108/30	
Fluoranthene	-	48	58	65-113/30	
Fluorene	-	38	62	65-111/30	
Naphthalene	-	-91	64	58-105/30	
Phenanthrene	-	35	66	65-108/30	
Pyrene	-	48	64	54-114/30	
- Criteria met					

Internal Standard Results

All internal standard criteria were met except where noted below.

VOC internal standard (ISTD) response for 2-Butanone-d5 for the following samples was outside acceptance criteria: HIMW-24 (460-229075-3) and HIMW-20S (460-229075-4). This ISTD does not correspond to any of the requested target compounds, therefore no action was required.

LCS Results

All recovery and precision criteria were met, except where noted below.

Compound	LCS (%)	LCSD (%)	Control Limits (%)	LCS ID/Associated samples	Validation Action/Bias
SVOCs					
Phenanthrene	-	109	65-108	LCS 460-762668/2-A/LCSD 460-762668/3-A: HIMW-25, HIMW-24, HIMW-20S, HIMW-20I, HIMW-08D	Phenanthrene was not detected in the associated samples. Qualifications were not required.
- Criteria met					

Field Duplicate Results

Samples HIMW-28I and DUP-01 were submitted as the field duplicate pair with this sample group. All results were nondetect in these samples. Precision was deemed acceptable, no action required.

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

NJ - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Client Sample ID: TB030121 — Lab Sample ID: 460-228969-1

Date Collected: 03/01/21 00:00 — **Matrix: Water**
Date Received: 03/01/21 17:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/03/21 22:08	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/03/21 22:08	1
Toluene	1.0	U	1.0	0.38	ug/L			03/03/21 22:08	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/03/21 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*139*	*	*75 - 123*		*03/03/21 22:08*	*1*
4-Bromofluorobenzene	*103*		*76 - 120*		*03/03/21 22:08*	*1*
Dibromofluoromethane (Surr)	*112*		*77 - 124*		*03/03/21 22:08*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/03/21 22:08*	*1*

Client Sample ID: HIMW-28S — Lab Sample ID: 460-228969-2

Date Collected: 03/01/21 08:05 — **Matrix: Water**
Date Received: 03/01/21 17:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.6**	J	1.0	0.20	ug/L			03/04/21 00:24	1
Ethylbenzene	**160**	J	1.0	0.30	ug/L			03/04/21 00:24	1
Toluene	**3.2**	J	1.0	0.38	ug/L			03/04/21 00:24	1
Xylenes, Total	**15**	J	2.0	0.65	ug/L			03/04/21 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*141*	*	*75 - 123*		*03/04/21 00:24*	*1*
4-Bromofluorobenzene	*95*		*76 - 120*		*03/04/21 00:24*	*1*
Dibromofluoromethane (Surr)	*110*		*77 - 124*		*03/04/21 00:24*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/04/21 00:24*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**54**	J	50	2.6	ug/L		03/03/21 09:34	03/04/21 12:31	5
Acenaphthene	**24**	J J	50	5.4	ug/L		03/03/21 09:34	03/04/21 12:31	5
Acenaphthylene	50	U UJ	50	4.1	ug/L		03/03/21 09:34	03/04/21 12:31	5
Anthracene	50	U UJ	50	6.5	ug/L		03/03/21 09:34	03/04/21 12:31	5
Benzo[a]anthracene	5.0	U UJ	5.0	3.0	ug/L		03/03/21 09:34	03/04/21 12:31	5
Benzo[a]pyrene	5.0	U UJ	5.0	2.0	ug/L		03/03/21 09:34	03/04/21 12:31	5
Benzo[b]fluoranthene	10	U UJ	10	3.4	ug/L		03/03/21 09:34	03/04/21 12:31	5
Benzo[g,h,i]perylene	50	U UJ	50	3.5	ug/L		03/03/21 09:34	03/04/21 12:31	5
Benzo[k]fluoranthene	5.0	U UJ	5.0	3.4	ug/L		03/03/21 09:34	03/04/21 12:31	5
Chrysene	50	U UJ	50	4.5	ug/L		03/03/21 09:34	03/04/21 12:31	5
Dibenz(a,h)anthracene	5.0	U UJ	5.0	3.6	ug/L		03/03/21 09:34	03/04/21 12:31	5
Fluoranthene	50	U UJ	50	4.2	ug/L		03/03/21 09:34	03/04/21 12:31	5
Fluorene	**18**	J J	50	4.6	ug/L		03/03/21 09:34	03/04/21 12:31	5
Indeno[1,2,3-cd]pyrene	10	U UJ	10	4.7	ug/L		03/03/21 09:34	03/04/21 12:31	5
Naphthalene	**230**	J	10	2.7	ug/L		03/03/21 09:34	03/04/21 12:31	5
Phenanthrene	**17**	J J	50	6.4	ug/L		03/03/21 09:34	03/04/21 12:31	5
Pyrene	50	U UJ	50	8.2	ug/L		03/03/21 09:34	03/04/21 12:31	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*42 - 127*	*03/03/21 09:34*	*03/04/21 12:31*	*5*
Nitrobenzene-d5 (Surr)	*75*		*46 - 137*	*03/03/21 09:34*	*03/04/21 12:31*	*5*

Client Sample ID: HIMW-28S — Lab Sample ID: 460-228969-2

Date Collected: 03/01/21 08:05 — **Matrix: Water**
Date Received: 03/01/21 17:30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*57*		*39 - 150*	*03/03/21 09:34*	*03/04/21 12:31*	*5*

Client Sample ID: HIMW-28I — Lab Sample ID: 460-228969-3

Date Collected: 03/01/21 09:00 — **Matrix: Water**
Date Received: 03/01/21 17:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/04/21 00:46	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/04/21 00:46	1
Toluene	1.0	U	1.0	0.38	ug/L			03/04/21 00:46	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/04/21 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*129*	*	*75 - 123*		*03/04/21 00:46*	*1*
4-Bromofluorobenzene	*89*		*76 - 120*		*03/04/21 00:46*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 124*		*03/04/21 00:46*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/04/21 00:46*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/03/21 09:34	03/04/21 12:10	1
Acenaphthene	10	U	10	1.1	ug/L		03/03/21 09:34	03/04/21 12:10	1
Acenaphthylene	10	U	10	0.82	ug/L		03/03/21 09:34	03/04/21 12:10	1
Anthracene	10	U	10	1.3	ug/L		03/03/21 09:34	03/04/21 12:10	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/03/21 09:34	03/04/21 12:10	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/03/21 09:34	03/04/21 12:10	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/03/21 09:34	03/04/21 12:10	1
Benzo[g,h,i]perylene	10	U UJ	10	0.70	ug/L		03/03/21 09:34	03/04/21 12:10	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/03/21 09:34	03/04/21 12:10	1
Chrysene	10	U	10	0.91	ug/L		03/03/21 09:34	03/04/21 12:10	1
Dibenz(a,h)anthracene	1.0	U UJ	1.0	0.72	ug/L		03/03/21 09:34	03/04/21 12:10	1
Fluoranthene	10	U	10	0.84	ug/L		03/03/21 09:34	03/04/21 12:10	1
Fluorene	10	U	10	0.91	ug/L		03/03/21 09:34	03/04/21 12:10	1
Indeno[1,2,3-cd]pyrene	2.0	U UJ	2.0	0.94	ug/L		03/03/21 09:34	03/04/21 12:10	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/03/21 09:34	03/04/21 12:10	1
Phenanthrene	10	U	10	1.3	ug/L		03/03/21 09:34	03/04/21 12:10	1
Pyrene	10	U	10	1.6	ug/L		03/03/21 09:34	03/04/21 12:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*71*		*42 - 127*	*03/03/21 09:34*	*03/04/21 12:10*	*1*
Nitrobenzene-d5 (Surr)	*79*		*46 - 137*	*03/03/21 09:34*	*03/04/21 12:10*	*1*
Terphenyl-d14 (Surr)	*75*		*39 - 150*	*03/03/21 09:34*	*03/04/21 12:10*	*1*

Client Sample ID: FB030121 — Lab Sample ID: 460-228969-4

Date Collected: 03/01/21 09:10 — **Matrix: Water**
Date Received: 03/01/21 17:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/03/21 21:45	1

Client Sample ID: FB030121 — Lab Sample ID: 460-228969-4

Date Collected: 03/01/21 09:10 — **Matrix: Water**
Date Received: 03/01/21 17:30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/03/21 21:45	1
Toluene	1.0	U	1.0	0.38	ug/L			03/03/21 21:45	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/03/21 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*134*	*	*75 - 123*		*03/03/21 21:45*	*1*
4-Bromofluorobenzene	*82*		*76 - 120*		*03/03/21 21:45*	*1*
Dibromofluoromethane (Surr)	*116*		*77 - 124*		*03/03/21 21:45*	*1*
Toluene-d8 (Surr)	*87*		*80 - 120*		*03/03/21 21:45*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/03/21 09:34	03/04/21 13:35	1
Acenaphthene	10	U	10	1.1	ug/L		03/03/21 09:34	03/04/21 13:35	1
Acenaphthylene	10	U	10	0.82	ug/L		03/03/21 09:34	03/04/21 13:35	1
Anthracene	10	U	10	1.3	ug/L		03/03/21 09:34	03/04/21 13:35	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/03/21 09:34	03/04/21 13:35	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/03/21 09:34	03/04/21 13:35	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/03/21 09:34	03/04/21 13:35	1
Benzo[g,h,i]perylene	10	U UJ	10	0.70	ug/L		03/03/21 09:34	03/04/21 13:35	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/03/21 09:34	03/04/21 13:35	1
Chrysene	10	U	10	0.91	ug/L		03/03/21 09:34	03/04/21 13:35	1
Dibenz(a,h)anthracene	1.0	U UJ	1.0	0.72	ug/L		03/03/21 09:34	03/04/21 13:35	1
Fluoranthene	10	U	10	0.84	ug/L		03/03/21 09:34	03/04/21 13:35	1
Fluorene	10	U	10	0.91	ug/L		03/03/21 09:34	03/04/21 13:35	1
Indeno[1,2,3-cd]pyrene	2.0	U UJ	2.0	0.94	ug/L		03/03/21 09:34	03/04/21 13:35	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/03/21 09:34	03/04/21 13:35	1
Phenanthrene	10	U	10	1.3	ug/L		03/03/21 09:34	03/04/21 13:35	1
Pyrene	10	U	10	1.6	ug/L		03/03/21 09:34	03/04/21 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*47*		*42 - 127*	*03/03/21 09:34*	*03/04/21 13:35*	*1*
Nitrobenzene-d5 (Surr)	*64*		*46 - 137*	*03/03/21 09:34*	*03/04/21 13:35*	*1*
Terphenyl-d14 (Surr)	*114*		*39 - 150*	*03/03/21 09:34*	*03/04/21 13:35*	*1*

Client Sample ID: DUP-01 — Lab Sample ID: 460-228969-5

Date Collected: 03/01/21 00:00 — **Matrix: Water**
Date Received: 03/01/21 17:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/04/21 01:09	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/04/21 01:09	1
Toluene	1.0	U	1.0	0.38	ug/L			03/04/21 01:09	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/04/21 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*127*	*	*75 - 123*		*03/04/21 01:09*	*1*
4-Bromofluorobenzene	*90*		*76 - 120*		*03/04/21 01:09*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 124*		*03/04/21 01:09*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*03/04/21 01:09*	*1*

Client Sample ID: DUP-01
Date Collected: 03/01/21 00:00
Date Received: 03/01/21 17:30

Lab Sample ID: 460-228969-5
Matrix: Water

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/04/21 15:24	03/05/21 09:15	1
Acenaphthene	10	U	10	1.1	ug/L		03/04/21 15:24	03/05/21 09:15	1
Acenaphthylene	10	U	10	0.82	ug/L		03/04/21 15:24	03/05/21 09:15	1
Anthracene	10	U	10	1.3	ug/L		03/04/21 15:24	03/05/21 09:15	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/04/21 15:24	03/05/21 09:15	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/04/21 15:24	03/05/21 09:15	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/04/21 15:24	03/05/21 09:15	1
Benzo[g,h,i]perylene	10	U UJ	10	0.70	ug/L		03/04/21 15:24	03/05/21 09:15	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/04/21 15:24	03/05/21 09:15	1
Chrysene	10	U	10	0.91	ug/L		03/04/21 15:24	03/05/21 09:15	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/04/21 15:24	03/05/21 09:15	1
Fluoranthene	10	U	10	0.84	ug/L		03/04/21 15:24	03/05/21 09:15	1
Fluorene	10	U	10	0.91	ug/L		03/04/21 15:24	03/05/21 09:15	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/04/21 15:24	03/05/21 09:15	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/04/21 15:24	03/05/21 09:15	1
Phenanthrene	10	U	10	1.3	ug/L		03/04/21 15:24	03/05/21 09:15	1
Pyrene	10	U	10	1.6	ug/L		03/04/21 15:24	03/05/21 09:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*42 - 127*	*03/04/21 15:24*	*03/05/21 09:15*	*1*
Nitrobenzene-d5 (Surr)	*104*		*46 - 137*	*03/04/21 15:24*	*03/05/21 09:15*	*1*
Terphenyl-d14 (Surr)	*115*		*39 - 150*	*03/04/21 15:24*	*03/05/21 09:15*	*1*

Client Sample ID: HIMW-08S
Date Collected: 03/01/21 12:05
Date Received: 03/01/21 17:30

Lab Sample ID: 460-228969-6
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.89**	**J**	1.0	0.20	ug/L			03/04/21 01:32	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/04/21 01:32	1
Toluene	1.0	U	1.0	0.38	ug/L			03/04/21 01:32	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/04/21 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*131*	*	*75 - 123*		*03/04/21 01:32*	*1*
4-Bromofluorobenzene	*94*		*76 - 120*		*03/04/21 01:32*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 124*		*03/04/21 01:32*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*03/04/21 01:32*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/03/21 09:34	03/04/21 18:50	1
Acenaphthene	10	U	10	1.1	ug/L		03/03/21 09:34	03/04/21 18:50	1
Acenaphthylene	10	U	10	0.82	ug/L		03/03/21 09:34	03/04/21 18:50	1
Anthracene	10	U	10	1.3	ug/L		03/03/21 09:34	03/04/21 18:50	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/03/21 09:34	03/04/21 18:50	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/03/21 09:34	03/04/21 18:50	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/03/21 09:34	03/04/21 18:50	1
Benzo[g,h,i]perylene	10	U UJ	10	0.70	ug/L		03/03/21 09:34	03/04/21 18:50	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/03/21 09:34	03/04/21 18:50	1

Client Sample ID: HIMW-08S
Lab Sample ID: 460-228969-6
Date Collected: 03/01/21 12:05
Matrix: Water
Date Received: 03/01/21 17:30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	10	U	10	0.91	ug/L		03/03/21 09:34	03/04/21 18:50	1
Dibenz(a,h)anthracene	1.0	U UJ	1.0	0.72	ug/L		03/03/21 09:34	03/04/21 18:50	1
Fluoranthene	10	U	10	0.84	ug/L		03/03/21 09:34	03/04/21 18:50	1
Fluorene	10	U	10	0.91	ug/L		03/03/21 09:34	03/04/21 18:50	1
Indeno[1,2,3-cd]pyrene	2.0	U UJ	2.0	0.94	ug/L		03/03/21 09:34	03/04/21 18:50	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/03/21 09:34	03/04/21 18:50	1
Phenanthrene	10	U	10	1.3	ug/L		03/03/21 09:34	03/04/21 18:50	1
Pyrene	10	U	10	1.6	ug/L		03/03/21 09:34	03/04/21 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*42 - 127*	*03/03/21 09:34*	*03/04/21 18:50*	*1*
Nitrobenzene-d5 (Surr)	*90*		*46 - 137*	*03/03/21 09:34*	*03/04/21 18:50*	*1*
Terphenyl-d14 (Surr)	*92*		*39 - 150*	*03/03/21 09:34*	*03/04/21 18:50*	*1*

Client Sample ID: HIMW-08I
Lab Sample ID: 460-228969-7
Date Collected: 03/01/21 13:05
Matrix: Water
Date Received: 03/01/21 17:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/04/21 01:54	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/04/21 01:54	1
Toluene	1.0	U	1.0	0.38	ug/L			03/04/21 01:54	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/04/21 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*146*	*	*75 - 123*		*03/04/21 01:54*	*1*
4-Bromofluorobenzene	*93*		*76 - 120*		*03/04/21 01:54*	*1*
Dibromofluoromethane (Surr)	*120*		*77 - 124*		*03/04/21 01:54*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/04/21 01:54*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/03/21 09:34	03/04/21 14:17	1
Acenaphthene	10	U	10	1.1	ug/L		03/03/21 09:34	03/04/21 14:17	1
Acenaphthylene	10	U	10	0.82	ug/L		03/03/21 09:34	03/04/21 14:17	1
Anthracene	10	U	10	1.3	ug/L		03/03/21 09:34	03/04/21 14:17	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/03/21 09:34	03/04/21 14:17	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/03/21 09:34	03/04/21 14:17	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/03/21 09:34	03/04/21 14:17	1
Benzo[g,h,i]perylene	10	U UJ	10	0.70	ug/L		03/03/21 09:34	03/04/21 14:17	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/03/21 09:34	03/04/21 14:17	1
Chrysene	10	U	10	0.91	ug/L		03/03/21 09:34	03/04/21 14:17	1
Dibenz(a,h)anthracene	1.0	U UJ	1.0	0.72	ug/L		03/03/21 09:34	03/04/21 14:17	1
Fluoranthene	10	U	10	0.84	ug/L		03/03/21 09:34	03/04/21 14:17	1
Fluorene	10	U	10	0.91	ug/L		03/03/21 09:34	03/04/21 14:17	1
Indeno[1,2,3-cd]pyrene	2.0	U UJ	2.0	0.94	ug/L		03/03/21 09:34	03/04/21 14:17	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/03/21 09:34	03/04/21 14:17	1
Phenanthrene	10	U	10	1.3	ug/L		03/03/21 09:34	03/04/21 14:17	1
Pyrene	10	U	10	1.6	ug/L		03/03/21 09:34	03/04/21 14:17	1

Client Sample ID: HIMW-08I
Date Collected: 03/01/21 13:05
Date Received: 03/01/21 17:30

Lab Sample ID: 460-228969-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*95*		*42 - 127*	*03/03/21 09:34*	*03/04/21 14:17*	*1*
Nitrobenzene-d5 (Surr)	*107*		*46 - 137*	*03/03/21 09:34*	*03/04/21 14:17*	*1*
Terphenyl-d14 (Surr)	*97*		*39 - 150*	*03/03/21 09:34*	*03/04/21 14:17*	*1*

Client Sample ID: HIMW-27S
Date Collected: 03/01/21 09:00
Date Received: 03/01/21 17:30

Lab Sample ID: 460-228969-8
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**9.3**	J	2.0	0.41	ug/L			03/04/21 02:40	2
Ethylbenzene	**440**	J	2.0	0.60	ug/L			03/04/21 02:40	2
Toluene	**14**	J	2.0	0.76	ug/L			03/04/21 02:40	2
Xylenes, Total	**410**	J	4.0	1.3	ug/L			03/04/21 02:40	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*133*	*	*75 - 123*		*03/04/21 02:40*	*2*
4-Bromofluorobenzene	*97*		*76 - 120*		*03/04/21 02:40*	*2*
Dibromofluoromethane (Surr)	*104*		*77 - 124*		*03/04/21 02:40*	*2*
Toluene-d8 (Surr)	*111*		*80 - 120*		*03/04/21 02:40*	*2*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**290**		100	5.3	ug/L		03/03/21 09:34	03/05/21 10:40	10
Acenaphthene	**84**	J	100	11	ug/L		03/03/21 09:34	03/05/21 10:40	10
Acenaphthylene	100	U	100	8.2	ug/L		03/03/21 09:34	03/05/21 10:40	10
Anthracene	100	U	100	13	ug/L		03/03/21 09:34	03/05/21 10:40	10
Benzo[a]anthracene	10	U	10	5.9	ug/L		03/03/21 09:34	03/05/21 10:40	10
Benzo[a]pyrene	10	U	10	4.1	ug/L		03/03/21 09:34	03/05/21 10:40	10
Benzo[b]fluoranthene	20	U	20	6.8	ug/L		03/03/21 09:34	03/05/21 10:40	10
Benzo[g,h,i]perylene	100	U UJ	100	7.0	ug/L		03/03/21 09:34	03/05/21 10:40	10
Benzo[k]fluoranthene	10	U	10	6.7	ug/L		03/03/21 09:34	03/05/21 10:40	10
Chrysene	100	U	100	9.1	ug/L		03/03/21 09:34	03/05/21 10:40	10
Dibenz(a,h)anthracene	10	U UJ	10	7.2	ug/L		03/03/21 09:34	03/05/21 10:40	10
Fluoranthene	100	U	100	8.4	ug/L		03/03/21 09:34	03/05/21 10:40	10
Fluorene	**38**	J	100	9.1	ug/L		03/03/21 09:34	03/05/21 10:40	10
Indeno[1,2,3-cd]pyrene	20	U UJ	20	9.4	ug/L		03/03/21 09:34	03/05/21 10:40	10
Naphthalene	**1100**		20	5.4	ug/L		03/03/21 09:34	03/05/21 10:40	10
Phenanthrene	**40**	J	100	13	ug/L		03/03/21 09:34	03/05/21 10:40	10
Pyrene	100	U	100	16	ug/L		03/03/21 09:34	03/05/21 10:40	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*61*		*42 - 127*	*03/03/21 09:34*	*03/05/21 10:40*	*10*
Nitrobenzene-d5 (Surr)	*87*		*46 - 137*	*03/03/21 09:34*	*03/05/21 10:40*	*10*
Terphenyl-d14 (Surr)	*93*		*39 - 150*	*03/03/21 09:34*	*03/05/21 10:40*	*10*

Client Sample ID: HIMW-27I
Date Collected: 03/01/21 11:35
Date Received: 03/01/21 17:30

Lab Sample ID: 460-228969-9
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/04/21 02:17	1
Ethylbenzene	**0.35**	**J**	1.0	0.30	ug/L			03/04/21 02:17	1
Toluene	1.0	U	1.0	0.38	ug/L			03/04/21 02:17	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/04/21 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*139*	*	*75 - 123*		*03/04/21 02:17*	*1*
4-Bromofluorobenzene	*90*		*76 - 120*		*03/04/21 02:17*	*1*
Dibromofluoromethane (Surr)	*113*		*77 - 124*		*03/04/21 02:17*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*03/04/21 02:17*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**1.5**	**J**	10	0.53	ug/L		03/03/21 09:34	03/04/21 19:10	1
Acenaphthene	10	U	10	1.1	ug/L		03/03/21 09:34	03/04/21 19:10	1
Acenaphthylene	10	U	10	0.82	ug/L		03/03/21 09:34	03/04/21 19:10	1
Anthracene	10	U	10	1.3	ug/L		03/03/21 09:34	03/04/21 19:10	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/03/21 09:34	03/04/21 19:10	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/03/21 09:34	03/04/21 19:10	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/03/21 09:34	03/04/21 19:10	1
Benzo[g,h,i]perylene	10	U UJ	10	0.70	ug/L		03/03/21 09:34	03/04/21 19:10	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/03/21 09:34	03/04/21 19:10	1
Chrysene	10	U	10	0.91	ug/L		03/03/21 09:34	03/04/21 19:10	1
Dibenz(a,h)anthracene	1.0	U UJ	1.0	0.72	ug/L		03/03/21 09:34	03/04/21 19:10	1
Fluoranthene	10	U	10	0.84	ug/L		03/03/21 09:34	03/04/21 19:10	1
Fluorene	10	U	10	0.91	ug/L		03/03/21 09:34	03/04/21 19:10	1
Indeno[1,2,3-cd]pyrene	2.0	U UJ	2.0	0.94	ug/L		03/03/21 09:34	03/04/21 19:10	1
Naphthalene	**0.86**	**J**	2.0	0.54	ug/L		03/03/21 09:34	03/04/21 19:10	1
Phenanthrene	10	U	10	1.3	ug/L		03/03/21 09:34	03/04/21 19:10	1
Pyrene	10	U	10	1.6	ug/L		03/03/21 09:34	03/04/21 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*47*		*42 - 127*	*03/03/21 09:34*	*03/04/21 19:10*	*1*
Nitrobenzene-d5 (Surr)	*65*		*46 - 137*	*03/03/21 09:34*	*03/04/21 19:10*	*1*
Terphenyl-d14 (Surr)	*97*		*39 - 150*	*03/03/21 09:34*	*03/04/21 19:10*	*1*

TestAmerica New York City
47-32 32nd Place
Suite 1141
Long Island City, NY 11101-2425
phone 347.507.0579 fax

NYC 222

Chain of Custody Record

TestAmerica
TestAmerica Laboratories, Inc.

228969

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Chris Morris	Site Contact: Tom Johansen	Date: 3/1/21	COC No:
GEI Consultants Inc. P.C.	Tel/Fax: (631) 759-2967	Lab Contact: Melissa Haas	Carrier: TestAmerica	1 of 1 COCs
1000 New York Ave	Analysis Turnaround Time			Sampler:
Huntington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(631) 760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
(631) 760 - 9301 FAX	☐ 2 weeks			Lab Sampling:
Project Name: National Grid GW Monitoring	☐ 1 week			
Site: Downstate Hempstead Former MGP Site	☐ 2 days			Job / SDG No.:
P O # 1905774.15.3	☐ 1 day			

5-Day

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D		Sample Specific Notes:
TB030121	3/1/21	—	G	GW	2			X		1	
HIMW-28S		805			15			X	X	2	MS/MSD
HIMW-28I		900			5			X	X	3	
FB030121		910			5			X	X	4	
Dup-01		—			5			X	X	5	
HIMW-08S		1205			5			X	X	6	
HIMW-08I		1305			5			X	X	7	
HIMW-27S		900			5			X	X	8	
HIMW-27I		1135			5			X	X	9	

460-228969 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if sa
☐ Return to Client ☑ Disposal by Lab

Special Instructions/QC Requirements & Comments: CAT B Report

Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: Corr'd:		Therm ID No.:
Relinquished by: [signature]	Company: GEI Consultants Inc. P.C	Date/Time: 3/1/21	Received by: [signature]	Company:	Date/Time: 3/1/21 15
Relinquished by: [signature]	Company:	Date/Time: 3/.. 15	Received by: [signature]	Company:	Date/Time: 3/2/21 1600
Relinquished by: [signature]	Company: TA	Date/Time: 3/1/21 15:42	Received in Laboratory by: [signature]	Company: TA	Date/Time: 3/2/21 1236

[signature] 3/2/21 1730 2.6 IR 1

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

03/05/2021

Client Sample ID: TB030221 — Lab Sample ID: 460-229075-1

Date Collected: 03/02/21 00:00 — **Matrix: Water**
Date Received: 03/02/21 17:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/05/21 01:43	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/05/21 01:43	1
Toluene	1.0	U	1.0	0.38	ug/L			03/05/21 01:43	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/05/21 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 123*		*03/05/21 01:43*	*1*
4-Bromofluorobenzene	*101*		*76 - 120*		*03/05/21 01:43*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 124*		*03/05/21 01:43*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/05/21 01:43*	*1*

Client Sample ID: HIMW-25 — Lab Sample ID: 460-229075-2

Date Collected: 03/02/21 09:40 — **Matrix: Water**
Date Received: 03/02/21 17:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/05/21 03:01	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/05/21 03:01	1
Toluene	1.0	U	1.0	0.38	ug/L			03/05/21 03:01	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/05/21 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 123*		*03/05/21 03:01*	*1*
4-Bromofluorobenzene	*102*		*76 - 120*		*03/05/21 03:01*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 124*		*03/05/21 03:01*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/05/21 03:01*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/05/21 10:04	03/05/21 23:50	1
Acenaphthene	10	U	10	1.1	ug/L		03/05/21 10:04	03/05/21 23:50	1
Acenaphthylene	10	U	10	0.82	ug/L		03/05/21 10:04	03/05/21 23:50	1
Anthracene	10	U	10	1.3	ug/L		03/05/21 10:04	03/05/21 23:50	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/05/21 10:04	03/05/21 23:50	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/05/21 10:04	03/05/21 23:50	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/05/21 10:04	03/05/21 23:50	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/05/21 10:04	03/05/21 23:50	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/05/21 10:04	03/05/21 23:50	1
Chrysene	10	U	10	0.91	ug/L		03/05/21 10:04	03/05/21 23:50	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/05/21 10:04	03/05/21 23:50	1
Fluoranthene	10	U	10	0.84	ug/L		03/05/21 10:04	03/05/21 23:50	1
Fluorene	10	U	10	0.91	ug/L		03/05/21 10:04	03/05/21 23:50	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/05/21 10:04	03/05/21 23:50	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/05/21 10:04	03/05/21 23:50	1
Phenanthrene	10	U	10	1.3	ug/L		03/05/21 10:04	03/05/21 23:50	1
Pyrene	10	U	10	1.6	ug/L		03/05/21 10:04	03/05/21 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*42*		*42 - 127*	*03/05/21 10:04*	*03/05/21 23:50*	*1*
Nitrobenzene-d5 (Surr)	*72*		*46 - 137*	*03/05/21 10:04*	*03/05/21 23:50*	*1*

emm 3/11/21

Client Sample ID: HIMW-25
Date Collected: 03/02/21 09:40
Date Received: 03/02/21 17:30

Lab Sample ID: 460-229075-2
Matrix: Water

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*87*		*39 - 150*	*03/05/21 10:04*	*03/05/21 23:50*	*1*

Client Sample ID: HIMW-24
Date Collected: 03/02/21 10:30
Date Received: 03/02/21 17:30

Lab Sample ID: 460-229075-3
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/05/21 03:27	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/05/21 03:27	1
Toluene	1.0	U	1.0	0.38	ug/L			03/05/21 03:27	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/05/21 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 123*		*03/05/21 03:27*	*1*
4-Bromofluorobenzene	*107*		*76 - 120*		*03/05/21 03:27*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 124*		*03/05/21 03:27*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*03/05/21 03:27*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/05/21 10:04	03/06/21 00:11	1
Acenaphthene	10	U	10	1.1	ug/L		03/05/21 10:04	03/06/21 00:11	1
Acenaphthylene	10	U	10	0.82	ug/L		03/05/21 10:04	03/06/21 00:11	1
Anthracene	10	U	10	1.3	ug/L		03/05/21 10:04	03/06/21 00:11	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/05/21 10:04	03/06/21 00:11	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/05/21 10:04	03/06/21 00:11	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/05/21 10:04	03/06/21 00:11	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/05/21 10:04	03/06/21 00:11	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/05/21 10:04	03/06/21 00:11	1
Chrysene	10	U	10	0.91	ug/L		03/05/21 10:04	03/06/21 00:11	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/05/21 10:04	03/06/21 00:11	1
Fluoranthene	10	U	10	0.84	ug/L		03/05/21 10:04	03/06/21 00:11	1
Fluorene	10	U	10	0.91	ug/L		03/05/21 10:04	03/06/21 00:11	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/05/21 10:04	03/06/21 00:11	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/05/21 10:04	03/06/21 00:11	1
Phenanthrene	10	U	10	1.3	ug/L		03/05/21 10:04	03/06/21 00:11	1
Pyrene	10	U	10	1.6	ug/L		03/05/21 10:04	03/06/21 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*65*		*42 - 127*	*03/05/21 10:04*	*03/06/21 00:11*	*1*
Nitrobenzene-d5 (Surr)	*92*		*46 - 137*	*03/05/21 10:04*	*03/06/21 00:11*	*1*
Terphenyl-d14 (Surr)	*78*		*39 - 150*	*03/05/21 10:04*	*03/06/21 00:11*	*1*

Client Sample ID: HIMW-20S
Date Collected: 03/02/21 12:00
Date Received: 03/02/21 17:30

Lab Sample ID: 460-229075-4
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/05/21 03:53	1

Client Sample ID: HIMW-20S — Lab Sample ID: 460-229075-4

Date Collected: 03/02/21 12:00 **Matrix: Water**
Date Received: 03/02/21 17:30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/05/21 03:53	1
Toluene	1.0	U	1.0	0.38	ug/L			03/05/21 03:53	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/05/21 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 123*		*03/05/21 03:53*	*1*
4-Bromofluorobenzene	*99*		*76 - 120*		*03/05/21 03:53*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 124*		*03/05/21 03:53*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/05/21 03:53*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/05/21 10:04	03/06/21 00:32	1
Acenaphthene	10	U	10	1.1	ug/L		03/05/21 10:04	03/06/21 00:32	1
Acenaphthylene	10	U	10	0.82	ug/L		03/05/21 10:04	03/06/21 00:32	1
Anthracene	10	U	10	1.3	ug/L		03/05/21 10:04	03/06/21 00:32	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/05/21 10:04	03/06/21 00:32	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/05/21 10:04	03/06/21 00:32	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/05/21 10:04	03/06/21 00:32	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/05/21 10:04	03/06/21 00:32	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/05/21 10:04	03/06/21 00:32	1
Chrysene	10	U	10	0.91	ug/L		03/05/21 10:04	03/06/21 00:32	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/05/21 10:04	03/06/21 00:32	1
Fluoranthene	10	U	10	0.84	ug/L		03/05/21 10:04	03/06/21 00:32	1
Fluorene	10	U	10	0.91	ug/L		03/05/21 10:04	03/06/21 00:32	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/05/21 10:04	03/06/21 00:32	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/05/21 10:04	03/06/21 00:32	1
Phenanthrene	10	U	10	1.3	ug/L		03/05/21 10:04	03/06/21 00:32	1
Pyrene	10	U	10	1.6	ug/L		03/05/21 10:04	03/06/21 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*42 - 127*	*03/05/21 10:04*	*03/06/21 00:32*	*1*
Nitrobenzene-d5 (Surr)	*91*		*46 - 137*	*03/05/21 10:04*	*03/06/21 00:32*	*1*
Terphenyl-d14 (Surr)	*73*		*39 - 150*	*03/05/21 10:04*	*03/06/21 00:32*	*1*

Client Sample ID: HIMW-20I — Lab Sample ID: 460-229075-5

Date Collected: 03/02/21 12:55 **Matrix: Water**
Date Received: 03/02/21 17:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/05/21 04:19	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/05/21 04:19	1
Toluene	1.0	U	1.0	0.38	ug/L			03/05/21 04:19	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/05/21 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 123*		*03/05/21 04:19*	*1*
4-Bromofluorobenzene	*101*		*76 - 120*		*03/05/21 04:19*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 124*		*03/05/21 04:19*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/05/21 04:19*	*1*

Client Sample ID: HIMW-20I
Date Collected: 03/02/21 12:55
Date Received: 03/02/21 17:30

Lab Sample ID: 460-229075-5
Matrix: Water

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/05/21 10:04	03/06/21 00:53	1
Acenaphthene	10	U	10	1.1	ug/L		03/05/21 10:04	03/06/21 00:53	1
Acenaphthylene	10	U	10	0.82	ug/L		03/05/21 10:04	03/06/21 00:53	1
Anthracene	10	U	10	1.3	ug/L		03/05/21 10:04	03/06/21 00:53	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/05/21 10:04	03/06/21 00:53	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/05/21 10:04	03/06/21 00:53	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/05/21 10:04	03/06/21 00:53	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/05/21 10:04	03/06/21 00:53	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/05/21 10:04	03/06/21 00:53	1
Chrysene	10	U	10	0.91	ug/L		03/05/21 10:04	03/06/21 00:53	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/05/21 10:04	03/06/21 00:53	1
Fluoranthene	10	U	10	0.84	ug/L		03/05/21 10:04	03/06/21 00:53	1
Fluorene	10	U	10	0.91	ug/L		03/05/21 10:04	03/06/21 00:53	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/05/21 10:04	03/06/21 00:53	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/05/21 10:04	03/06/21 00:53	1
Phenanthrene	10	U	10	1.3	ug/L		03/05/21 10:04	03/06/21 00:53	1
Pyrene	10	U	10	1.6	ug/L		03/05/21 10:04	03/06/21 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*42 - 127*	*03/05/21 10:04*	*03/06/21 00:53*	*1*
Nitrobenzene-d5 (Surr)	*93*		*46 - 137*	*03/05/21 10:04*	*03/06/21 00:53*	*1*
Terphenyl-d14 (Surr)	*77*		*39 - 150*	*03/05/21 10:04*	*03/06/21 00:53*	*1*

Client Sample ID: HIMW-08D
Date Collected: 03/02/21 09:40
Date Received: 03/02/21 17:30

Lab Sample ID: 460-229075-6
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/05/21 04:45	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/05/21 04:45	1
Toluene	1.0	U	1.0	0.38	ug/L			03/05/21 04:45	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/05/21 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 123*		*03/05/21 04:45*	*1*
4-Bromofluorobenzene	*101*		*76 - 120*		*03/05/21 04:45*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*03/05/21 04:45*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/05/21 04:45*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/05/21 10:04	03/06/21 01:14	1
Acenaphthene	10	U	10	1.1	ug/L		03/05/21 10:04	03/06/21 01:14	1
Acenaphthylene	10	U	10	0.82	ug/L		03/05/21 10:04	03/06/21 01:14	1
Anthracene	10	U	10	1.3	ug/L		03/05/21 10:04	03/06/21 01:14	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/05/21 10:04	03/06/21 01:14	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/05/21 10:04	03/06/21 01:14	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/05/21 10:04	03/06/21 01:14	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/05/21 10:04	03/06/21 01:14	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/05/21 10:04	03/06/21 01:14	1

Client Sample ID: HIMW-08D
Date Collected: 03/02/21 09:40
Date Received: 03/02/21 17:30

Lab Sample ID: 460-229075-6
Matrix: Water

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	10	U	10	0.91	ug/L		03/05/21 10:04	03/06/21 01:14	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/05/21 10:04	03/06/21 01:14	1
Fluoranthene	10	U	10	0.84	ug/L		03/05/21 10:04	03/06/21 01:14	1
Fluorene	10	U	10	0.91	ug/L		03/05/21 10:04	03/06/21 01:14	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/05/21 10:04	03/06/21 01:14	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/05/21 10:04	03/06/21 01:14	1
Phenanthrene	10	U	10	1.3	ug/L		03/05/21 10:04	03/06/21 01:14	1
Pyrene	10	U	10	1.6	ug/L		03/05/21 10:04	03/06/21 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*48*		*42 - 127*	*03/05/21 10:04*	*03/06/21 01:14*	*1*
Nitrobenzene-d5 (Surr)	*62*		*46 - 137*	*03/05/21 10:04*	*03/06/21 01:14*	*1*
Terphenyl-d14 (Surr)	*63*		*39 - 150*	*03/05/21 10:04*	*03/06/21 01:14*	*1*

TestAmerica New York City
47-32 32nd Place
Suite 1141
Long Island City, NY 11101-2425
phone 347.507.0579 fax

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

229075

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Chris Morris	Site Contact: Tom Johansen	Date: 3/2/21	COC No:
GEI Consultants Inc. P.C.	Tel/Fax: (631) 759-2967	Lab Contact: Melissa Haas	Carrier: Test America	1 of 1 COCs
1000 New York Ave	Analysis Turnaround Time			Sampler:
Huntington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(631) 760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
(631) 760 - 9301 FAX	☐ 2 weeks			Lab Sampling:
Project Name: National Grid GW Monitoring	☐ 1 week			
Site: Downstate Hempstead Former MGP Site	☐ 2 days			Job / SDG No.:
P O # 1905774.15.3	☐ 1 day			

NC 225

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D	Sample Specific Notes:
TB030221	3/2/21	—	G	GW	2			X		1
HIMW-25		940			5			X	X	2
HIMW-24		1030			5			X	X	3
HIMW-20S		1200			5			X	X	4
HIMW-20I		1255			5			X	X	5
HIMW-08D		940			5			X	X	6

460-229075 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: CAT B REPORT

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: GEI Consultants Inc. P.C	Date/Time:	Received by:	Company:	Date/Time: 3/2/21 1311
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 3/2/21 1600
Relinquished by:	Company:	Date/Time: 3/2/21 1730	Received in Laboratory by:	Company:	Date/Time: 3/2/21 1736

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

3-2 IC

03/08/2021

Site: Downstate OMM Hempstead
Laboratory: Eurofins Test America, Edison, NJ
Report Number: 460-229194
Reviewer: Elissa McDonagh/GEI Consultants
Date: March 12, 2021

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
TB030321	460-229194-1	BTEX
HIMW-05D	460-229194-2	BTEX, PAH
HIMW-05I	460-229194-3	BTEX, PAH
HIMW-26D	460-229194-4	BTEX, PAH
HIMW-05S	460-229194-5	BTEX, PAH
HIMW-26I	460-229194-6	BTEX, PAH
HIMW-12S	460-229194-7	BTEX, PAH
HIMW-12IR	460-229194-8	BTEX, PAH
HIMW-23	460-229194-9	BTEX, PAH
HIMW-22	460-229194-10	BTEX, PAH
FB030321	460-229194-11	BTEX, PAH
HIMW-13S	460-229194-12	BTEX, PAH
HIMW-13I	460-229194-13	BTEX, PAH
HIMW-13D	460-229194-14	BTEX, PAH

Associated QC Samples:
Trip Blank: TB030321
Field Blank: FB030321
Field Duplicate pair: None associated

The above-listed aqueous samples, field blank, and trip blank sample were collected on March 3, 2021 and were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260D and polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270E.

The data validation was performed based on the Standard Operating Procedure (SOP) HW-33 (Revision 3) *Low/Medium Volatile Data Validation* (March 2013) and SOP HW-35 (Revision 2) *Semivolatile Data Validation* (March 2013) as well as by the methods referenced by the data package and professional and technical judgment.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results

- Internal Standard Results
- Laboratory Control Sample (LCS) Results
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

All results appear usable as reported or usable with minor qualification due to calibration nonconformances and uncertainty for levels below the reporting limit. These results were considered valid; even though some were qualified as discussed below.

The validation findings were based on the following information.

Data Completeness

The data package was complete as received by the laboratory.

Holding Times and Sample Preservation

All hold time and sample preservation criteria were met.

Initial and Continuing Calibrations

All initial and continuing calibration criteria were met except where noted below.

Instrument/ Calibration Standard	Compound	Calibration Exceedance	Validation Qualifier
SVOC			
CBNAMS17 CCVIS 460-763208/2 03/08/2021 16:21	Indeno(123cd)pyrene	24.4 %R	Estimate (UJ) the nondetect results for indeno(123cd)pyrene, dibenz(ah)anthracene and benzo[g,h,i]perylene in the associated samples.
	Dibenz(ah)anthracene	22.8 %R	
	Benzo[g,h,i]perylene	22.1 %R	
Associated samples: HIMW-05I			

Initial calibration (ICAL) relative standard deviation (%RSD) > 20% for VOC and SVOC; estimate (J) positive and blank-qualified (UJ) results only.
Continuing calibration (CCAL) percent difference (%D) > 20% for VOC and SVOC; estimate (J/UJ) positive and nondetect results.
Response factor (RF) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

Blanks

Contamination was not detected in the associated method blank samples. Contamination was not detected in the trip blank and field blank samples.

Surrogate Recoveries

All criteria were met.

MS/MSD Results

Batch (non-project) MS/MSDs were reported for SVOC analysis. Results from these analyses were not used to qualify project samples due to differences in sample type, matrix, etc.

MS/MSDs were not submitted for VOC analysis. No action was taken.

Internal Standard Results

All internal standard criteria were met.

LCS Results

All LCS and LCS duplicate (LCSD) recovery and precision criteria were met.

Field Duplicate Results

Field duplicate samples were not submitted with the sample set.

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

NJ - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Client Sample ID: TB030321
Lab Sample ID: 460-229194-1

Date Collected: 03/03/21 00:00
Matrix: Water
Date Received: 03/03/21 18:00

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/06/21 11:30	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/06/21 11:30	1
Toluene	1.0	U	1.0	0.38	ug/L			03/06/21 11:30	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/06/21 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 123*		*03/06/21 11:30*	*1*
4-Bromofluorobenzene	*103*		*76 - 120*		*03/06/21 11:30*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*03/06/21 11:30*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/06/21 11:30*	*1*

Client Sample ID: HIMW-05D
Lab Sample ID: 460-229194-2

Date Collected: 03/03/21 06:15
Matrix: Water
Date Received: 03/03/21 18:00

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/06/21 04:01	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/06/21 04:01	1
Toluene	**6.2**		1.0	0.38	ug/L			03/06/21 04:01	1
Xylenes, Total	**110**		2.0	0.65	ug/L			03/06/21 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 123*		*03/06/21 04:01*	*1*
4-Bromofluorobenzene	*98*		*76 - 120*		*03/06/21 04:01*	*1*
Dibromofluoromethane (Surr)	*105*		*77 - 124*		*03/06/21 04:01*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/06/21 04:01*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**150**		100	5.3	ug/L		03/07/21 07:55	03/09/21 09:14	10
Acenaphthene	100	U	100	11	ug/L		03/07/21 07:55	03/09/21 09:14	10
Acenaphthylene	**50**	**J**	100	8.2	ug/L		03/07/21 07:55	03/09/21 09:14	10
Anthracene	100	U	100	13	ug/L		03/07/21 07:55	03/09/21 09:14	10
Benzo[a]anthracene	10	U	10	5.9	ug/L		03/07/21 07:55	03/09/21 09:14	10
Benzo[a]pyrene	10	U	10	4.1	ug/L		03/07/21 07:55	03/09/21 09:14	10
Benzo[b]fluoranthene	20	U	20	6.8	ug/L		03/07/21 07:55	03/09/21 09:14	10
Benzo[g,h,i]perylene	100	U	100	7.0	ug/L		03/07/21 07:55	03/09/21 09:14	10
Benzo[k]fluoranthene	10	U	10	6.7	ug/L		03/07/21 07:55	03/09/21 09:14	10
Chrysene	100	U	100	9.1	ug/L		03/07/21 07:55	03/09/21 09:14	10
Dibenz(a,h)anthracene	10	U	10	7.2	ug/L		03/07/21 07:55	03/09/21 09:14	10
Fluoranthene	100	U	100	8.4	ug/L		03/07/21 07:55	03/09/21 09:14	10
Fluorene	100	U	100	9.1	ug/L		03/07/21 07:55	03/09/21 09:14	10
Indeno[1,2,3-cd]pyrene	20	U	20	9.4	ug/L		03/07/21 07:55	03/09/21 09:14	10
Naphthalene	**1200**		20	5.4	ug/L		03/07/21 07:55	03/09/21 09:14	10
Phenanthrene	100	U	100	13	ug/L		03/07/21 07:55	03/09/21 09:14	10
Pyrene	100	U	100	16	ug/L		03/07/21 07:55	03/09/21 09:14	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*110*		*42 - 127*	*03/07/21 07:55*	*03/09/21 09:14*	*10*
Nitrobenzene-d5 (Surr)	*112*		*46 - 137*	*03/07/21 07:55*	*03/09/21 09:14*	*10*

Client Sample ID: HIMW-05D — Lab Sample ID: 460-229194-2

Date Collected: 03/03/21 06:15 **Matrix: Water**
Date Received: 03/03/21 18:00

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*126*		*39 - 150*	*03/07/21 07:55*	*03/09/21 09:14*	*10*

Client Sample ID: HIMW-05I — Lab Sample ID: 460-229194-3

Date Collected: 03/03/21 07:00 **Matrix: Water**
Date Received: 03/03/21 18:00

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/06/21 04:27	1
Ethylbenzene	**0.65**	**J**	1.0	0.30	ug/L			03/06/21 04:27	1
Toluene	**0.53**	**J**	1.0	0.38	ug/L			03/06/21 04:27	1
Xylenes, Total	**42**		2.0	0.65	ug/L			03/06/21 04:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 123*		*03/06/21 04:27*	*1*
4-Bromofluorobenzene	*100*		*76 - 120*		*03/06/21 04:27*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 124*		*03/06/21 04:27*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/06/21 04:27*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**120**		50	2.6	ug/L		03/07/21 07:55	03/08/21 22:05	5
Acenaphthene	**9.9**	**J**	50	5.4	ug/L		03/07/21 07:55	03/08/21 22:05	5
Acenaphthylene	**140**		50	4.1	ug/L		03/07/21 07:55	03/08/21 22:05	5
Anthracene	50	U	50	6.5	ug/L		03/07/21 07:55	03/08/21 22:05	5
Benzo[a]anthracene	5.0	U	5.0	3.0	ug/L		03/07/21 07:55	03/08/21 22:05	5
Benzo[a]pyrene	5.0	U	5.0	2.0	ug/L		03/07/21 07:55	03/08/21 22:05	5
Benzo[b]fluoranthene	10	U	10	3.4	ug/L		03/07/21 07:55	03/08/21 22:05	5
Benzo[g,h,i]perylene	50	U UJ	50	3.5	ug/L		03/07/21 07:55	03/08/21 22:05	5
Benzo[k]fluoranthene	5.0	U	5.0	3.4	ug/L		03/07/21 07:55	03/08/21 22:05	5
Chrysene	50	U	50	4.5	ug/L		03/07/21 07:55	03/08/21 22:05	5
Dibenz(a,h)anthracene	5.0	U UJ	5.0	3.6	ug/L		03/07/21 07:55	03/08/21 22:05	5
Fluoranthene	50	U	50	4.2	ug/L		03/07/21 07:55	03/08/21 22:05	5
Fluorene	**24**	**J**	50	4.6	ug/L		03/07/21 07:55	03/08/21 22:05	5
Indeno[1,2,3-cd]pyrene	10	U UJ	10	4.7	ug/L		03/07/21 07:55	03/08/21 22:05	5
Naphthalene	**780**		10	2.7	ug/L		03/07/21 07:55	03/08/21 22:05	5
Phenanthrene	**17**	**J**	50	6.4	ug/L		03/07/21 07:55	03/08/21 22:05	5
Pyrene	50	U	50	8.2	ug/L		03/07/21 07:55	03/08/21 22:05	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*110*		*42 - 127*	*03/07/21 07:55*	*03/08/21 22:05*	*5*
Nitrobenzene-d5 (Surr)	*115*		*46 - 137*	*03/07/21 07:55*	*03/08/21 22:05*	*5*
Terphenyl-d14 (Surr)	*121*		*39 - 150*	*03/07/21 07:55*	*03/08/21 22:05*	*5*

Client Sample ID: HIMW-26D — Lab Sample ID: 460-229194-4

Date Collected: 03/03/21 08:00 **Matrix: Water**
Date Received: 03/03/21 18:00

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/06/21 04:53	1

Client Sample ID: HIMW-26D — Lab Sample ID: 460-229194-4

Date Collected: 03/03/21 08:00 **Matrix: Water**
Date Received: 03/03/21 18:00

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/06/21 04:53	1
Toluene	1.0	U	1.0	0.38	ug/L			03/06/21 04:53	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/06/21 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*		*03/06/21 04:53*	*1*
4-Bromofluorobenzene	*104*		*76 - 120*		*03/06/21 04:53*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*03/06/21 04:53*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/06/21 04:53*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/07/21 07:55	03/07/21 20:33	1
Acenaphthene	10	U	10	1.1	ug/L		03/07/21 07:55	03/07/21 20:33	1
Acenaphthylene	10	U	10	0.82	ug/L		03/07/21 07:55	03/07/21 20:33	1
Anthracene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 20:33	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/07/21 07:55	03/07/21 20:33	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/07/21 07:55	03/07/21 20:33	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/07/21 07:55	03/07/21 20:33	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/07/21 07:55	03/07/21 20:33	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/07/21 07:55	03/07/21 20:33	1
Chrysene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 20:33	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/07/21 07:55	03/07/21 20:33	1
Fluoranthene	10	U	10	0.84	ug/L		03/07/21 07:55	03/07/21 20:33	1
Fluorene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 20:33	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/07/21 07:55	03/07/21 20:33	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/07/21 07:55	03/07/21 20:33	1
Phenanthrene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 20:33	1
Pyrene	10	U	10	1.6	ug/L		03/07/21 07:55	03/07/21 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*42 - 127*	*03/07/21 07:55*	*03/07/21 20:33*	*1*
Nitrobenzene-d5 (Surr)	*83*		*46 - 137*	*03/07/21 07:55*	*03/07/21 20:33*	*1*
Terphenyl-d14 (Surr)	*102*		*39 - 150*	*03/07/21 07:55*	*03/07/21 20:33*	*1*

Client Sample ID: HIMW-05S — Lab Sample ID: 460-229194-5

Date Collected: 03/03/21 07:40 **Matrix: Water**
Date Received: 03/03/21 18:00

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/06/21 05:18	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/06/21 05:18	1
Toluene	1.0	U	1.0	0.38	ug/L			03/06/21 05:18	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/06/21 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 123*		*03/06/21 05:18*	*1*
4-Bromofluorobenzene	*105*		*76 - 120*		*03/06/21 05:18*	*1*
Dibromofluoromethane (Surr)	*106*		*77 - 124*		*03/06/21 05:18*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/06/21 05:18*	*1*

Client Sample ID: HIMW-05S
Date Collected: 03/03/21 07:40
Date Received: 03/03/21 18:00

Lab Sample ID: 460-229194-5
Matrix: Water

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/07/21 07:55	03/07/21 20:54	1
Acenaphthene	10	U	10	1.1	ug/L		03/07/21 07:55	03/07/21 20:54	1
Acenaphthylene	10	U	10	0.82	ug/L		03/07/21 07:55	03/07/21 20:54	1
Anthracene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 20:54	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/07/21 07:55	03/07/21 20:54	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/07/21 07:55	03/07/21 20:54	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/07/21 07:55	03/07/21 20:54	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/07/21 07:55	03/07/21 20:54	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/07/21 07:55	03/07/21 20:54	1
Chrysene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 20:54	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/07/21 07:55	03/07/21 20:54	1
Fluoranthene	10	U	10	0.84	ug/L		03/07/21 07:55	03/07/21 20:54	1
Fluorene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 20:54	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/07/21 07:55	03/07/21 20:54	1
Naphthalene	**0.83**	**J**	2.0	0.54	ug/L		03/07/21 07:55	03/07/21 20:54	1
Phenanthrene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 20:54	1
Pyrene	10	U	10	1.6	ug/L		03/07/21 07:55	03/07/21 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*42 - 127*	*03/07/21 07:55*	*03/07/21 20:54*	*1*
Nitrobenzene-d5 (Surr)	*101*		*46 - 137*	*03/07/21 07:55*	*03/07/21 20:54*	*1*
Terphenyl-d14 (Surr)	*109*		*39 - 150*	*03/07/21 07:55*	*03/07/21 20:54*	*1*

Client Sample ID: HIMW-26I
Date Collected: 03/03/21 06:35
Date Received: 03/03/21 18:00

Lab Sample ID: 460-229194-6
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/06/21 05:44	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/06/21 05:44	1
Toluene	1.0	U	1.0	0.38	ug/L			03/06/21 05:44	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/06/21 05:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*		*03/06/21 05:44*	*1*
4-Bromofluorobenzene	*104*		*76 - 120*		*03/06/21 05:44*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*03/06/21 05:44*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/06/21 05:44*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/07/21 07:55	03/07/21 21:15	1
Acenaphthene	10	U	10	1.1	ug/L		03/07/21 07:55	03/07/21 21:15	1
Acenaphthylene	10	U	10	0.82	ug/L		03/07/21 07:55	03/07/21 21:15	1
Anthracene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 21:15	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/07/21 07:55	03/07/21 21:15	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/07/21 07:55	03/07/21 21:15	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/07/21 07:55	03/07/21 21:15	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/07/21 07:55	03/07/21 21:15	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/07/21 07:55	03/07/21 21:15	1

Client Sample ID: HIMW-26I
Date Collected: 03/03/21 06:35
Date Received: 03/03/21 18:00

Lab Sample ID: 460-229194-6
Matrix: Water

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 21:15	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/07/21 07:55	03/07/21 21:15	1
Fluoranthene	10	U	10	0.84	ug/L		03/07/21 07:55	03/07/21 21:15	1
Fluorene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 21:15	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/07/21 07:55	03/07/21 21:15	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/07/21 07:55	03/07/21 21:15	1
Phenanthrene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 21:15	1
Pyrene	10	U	10	1.6	ug/L		03/07/21 07:55	03/07/21 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*42 - 127*	*03/07/21 07:55*	*03/07/21 21:15*	*1*
Nitrobenzene-d5 (Surr)	*94*		*46 - 137*	*03/07/21 07:55*	*03/07/21 21:15*	*1*
Terphenyl-d14 (Surr)	*104*		*39 - 150*	*03/07/21 07:55*	*03/07/21 21:15*	*1*

Client Sample ID: HIMW-12S
Date Collected: 03/03/21 10:00
Date Received: 03/03/21 18:00

Lab Sample ID: 460-229194-7
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/06/21 06:09	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/06/21 06:09	1
Toluene	1.0	U	1.0	0.38	ug/L			03/06/21 06:09	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/06/21 06:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*		*03/06/21 06:09*	*1*
4-Bromofluorobenzene	*102*		*76 - 120*		*03/06/21 06:09*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*03/06/21 06:09*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/06/21 06:09*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/07/21 07:55	03/07/21 21:36	1
Acenaphthene	10	U	10	1.1	ug/L		03/07/21 07:55	03/07/21 21:36	1
Acenaphthylene	10	U	10	0.82	ug/L		03/07/21 07:55	03/07/21 21:36	1
Anthracene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 21:36	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/07/21 07:55	03/07/21 21:36	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/07/21 07:55	03/07/21 21:36	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/07/21 07:55	03/07/21 21:36	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/07/21 07:55	03/07/21 21:36	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/07/21 07:55	03/07/21 21:36	1
Chrysene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 21:36	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/07/21 07:55	03/07/21 21:36	1
Fluoranthene	10	U	10	0.84	ug/L		03/07/21 07:55	03/07/21 21:36	1
Fluorene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 21:36	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/07/21 07:55	03/07/21 21:36	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/07/21 07:55	03/07/21 21:36	1
Phenanthrene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 21:36	1
Pyrene	10	U	10	1.6	ug/L		03/07/21 07:55	03/07/21 21:36	1

Client Sample ID: HIMW-12S — Lab Sample ID: 460-229194-7

Date Collected: 03/03/21 10:00 **Matrix: Water**
Date Received: 03/03/21 18:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*92*		*42 - 127*	*03/07/21 07:55*	*03/07/21 21:36*	*1*
Nitrobenzene-d5 (Surr)	*98*		*46 - 137*	*03/07/21 07:55*	*03/07/21 21:36*	*1*
Terphenyl-d14 (Surr)	*107*		*39 - 150*	*03/07/21 07:55*	*03/07/21 21:36*	*1*

Client Sample ID: HIMW-12IR — Lab Sample ID: 460-229194-8

Date Collected: 03/03/21 10:45 **Matrix: Water**
Date Received: 03/03/21 18:00

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/06/21 06:35	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/06/21 06:35	1
Toluene	1.0	U	1.0	0.38	ug/L			03/06/21 06:35	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/06/21 06:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*		*03/06/21 06:35*	*1*
4-Bromofluorobenzene	*104*		*76 - 120*		*03/06/21 06:35*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*03/06/21 06:35*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/06/21 06:35*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/07/21 07:55	03/07/21 21:57	1
Acenaphthene	10	U	10	1.1	ug/L		03/07/21 07:55	03/07/21 21:57	1
Acenaphthylene	10	U	10	0.82	ug/L		03/07/21 07:55	03/07/21 21:57	1
Anthracene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 21:57	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/07/21 07:55	03/07/21 21:57	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/07/21 07:55	03/07/21 21:57	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/07/21 07:55	03/07/21 21:57	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/07/21 07:55	03/07/21 21:57	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/07/21 07:55	03/07/21 21:57	1
Chrysene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 21:57	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/07/21 07:55	03/07/21 21:57	1
Fluoranthene	10	U	10	0.84	ug/L		03/07/21 07:55	03/07/21 21:57	1
Fluorene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 21:57	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/07/21 07:55	03/07/21 21:57	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/07/21 07:55	03/07/21 21:57	1
Phenanthrene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 21:57	1
Pyrene	10	U	10	1.6	ug/L		03/07/21 07:55	03/07/21 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*81*		*42 - 127*	*03/07/21 07:55*	*03/07/21 21:57*	*1*
Nitrobenzene-d5 (Surr)	*86*		*46 - 137*	*03/07/21 07:55*	*03/07/21 21:57*	*1*
Terphenyl-d14 (Surr)	*100*		*39 - 150*	*03/07/21 07:55*	*03/07/21 21:57*	*1*

Client Sample ID: HIMW-23 — Lab Sample ID: 460-229194-9

Date Collected: 03/03/21 12:00 — **Matrix: Water**
Date Received: 03/03/21 18:00

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/06/21 07:00	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/06/21 07:00	1
Toluene	1.0	U	1.0	0.38	ug/L			03/06/21 07:00	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/06/21 07:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*		*03/06/21 07:00*	*1*
4-Bromofluorobenzene	*103*		*76 - 120*		*03/06/21 07:00*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*03/06/21 07:00*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/06/21 07:00*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/07/21 07:55	03/07/21 22:18	1
Acenaphthene	10	U	10	1.1	ug/L		03/07/21 07:55	03/07/21 22:18	1
Acenaphthylene	10	U	10	0.82	ug/L		03/07/21 07:55	03/07/21 22:18	1
Anthracene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 22:18	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/07/21 07:55	03/07/21 22:18	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/07/21 07:55	03/07/21 22:18	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/07/21 07:55	03/07/21 22:18	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/07/21 07:55	03/07/21 22:18	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/07/21 07:55	03/07/21 22:18	1
Chrysene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 22:18	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/07/21 07:55	03/07/21 22:18	1
Fluoranthene	10	U	10	0.84	ug/L		03/07/21 07:55	03/07/21 22:18	1
Fluorene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 22:18	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/07/21 07:55	03/07/21 22:18	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/07/21 07:55	03/07/21 22:18	1
Phenanthrene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 22:18	1
Pyrene	10	U	10	1.6	ug/L		03/07/21 07:55	03/07/21 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*42 - 127*	*03/07/21 07:55*	*03/07/21 22:18*	*1*
Nitrobenzene-d5 (Surr)	*96*		*46 - 137*	*03/07/21 07:55*	*03/07/21 22:18*	*1*
Terphenyl-d14 (Surr)	*105*		*39 - 150*	*03/07/21 07:55*	*03/07/21 22:18*	*1*

Client Sample ID: HIMW-22 — Lab Sample ID: 460-229194-10

Date Collected: 03/03/21 13:05 — **Matrix: Water**
Date Received: 03/03/21 18:00

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/06/21 07:26	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/06/21 07:26	1
Toluene	1.0	U	1.0	0.38	ug/L			03/06/21 07:26	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/06/21 07:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 123*		*03/06/21 07:26*	*1*
4-Bromofluorobenzene	*102*		*76 - 120*		*03/06/21 07:26*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 124*		*03/06/21 07:26*	*1*

Client Sample ID: HIMW-22
Lab Sample ID: 460-229194-10
Date Collected: 03/03/21 13:05
Matrix: Water
Date Received: 03/03/21 18:00

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/06/21 07:26*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/07/21 07:55	03/07/21 22:39	1
Acenaphthene	10	U	10	1.1	ug/L		03/07/21 07:55	03/07/21 22:39	1
Acenaphthylene	10	U	10	0.82	ug/L		03/07/21 07:55	03/07/21 22:39	1
Anthracene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 22:39	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/07/21 07:55	03/07/21 22:39	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/07/21 07:55	03/07/21 22:39	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/07/21 07:55	03/07/21 22:39	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/07/21 07:55	03/07/21 22:39	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/07/21 07:55	03/07/21 22:39	1
Chrysene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 22:39	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/07/21 07:55	03/07/21 22:39	1
Fluoranthene	10	U	10	0.84	ug/L		03/07/21 07:55	03/07/21 22:39	1
Fluorene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 22:39	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/07/21 07:55	03/07/21 22:39	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/07/21 07:55	03/07/21 22:39	1
Phenanthrene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 22:39	1
Pyrene	10	U	10	1.6	ug/L		03/07/21 07:55	03/07/21 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*87*		*42 - 127*	*03/07/21 07:55*	*03/07/21 22:39*	*1*
Nitrobenzene-d5 (Surr)	*95*		*46 - 137*	*03/07/21 07:55*	*03/07/21 22:39*	*1*
Terphenyl-d14 (Surr)	*107*		*39 - 150*	*03/07/21 07:55*	*03/07/21 22:39*	*1*

Client Sample ID: FB030321
Lab Sample ID: 460-229194-11
Date Collected: 03/03/21 13:15
Matrix: Water
Date Received: 03/03/21 18:00

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/06/21 11:56	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/06/21 11:56	1
Toluene	1.0	U	1.0	0.38	ug/L			03/06/21 11:56	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/06/21 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 123*		*03/06/21 11:56*	*1*
4-Bromofluorobenzene	*104*		*76 - 120*		*03/06/21 11:56*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*03/06/21 11:56*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/06/21 11:56*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/07/21 07:55	03/07/21 23:00	1
Acenaphthene	10	U	10	1.1	ug/L		03/07/21 07:55	03/07/21 23:00	1
Acenaphthylene	10	U	10	0.82	ug/L		03/07/21 07:55	03/07/21 23:00	1
Anthracene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 23:00	1

Client Sample ID: FB030321 — Lab Sample ID: 460-229194-11

Date Collected: 03/03/21 13:15 **Matrix: Water**
Date Received: 03/03/21 18:00

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/07/21 07:55	03/07/21 23:00	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/07/21 07:55	03/07/21 23:00	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/07/21 07:55	03/07/21 23:00	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/07/21 07:55	03/07/21 23:00	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/07/21 07:55	03/07/21 23:00	1
Chrysene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 23:00	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/07/21 07:55	03/07/21 23:00	1
Fluoranthene	10	U	10	0.84	ug/L		03/07/21 07:55	03/07/21 23:00	1
Fluorene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 23:00	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/07/21 07:55	03/07/21 23:00	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/07/21 07:55	03/07/21 23:00	1
Phenanthrene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 23:00	1
Pyrene	10	U	10	1.6	ug/L		03/07/21 07:55	03/07/21 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*42 - 127*	*03/07/21 07:55*	*03/07/21 23:00*	*1*
Nitrobenzene-d5 (Surr)	*81*		*46 - 137*	*03/07/21 07:55*	*03/07/21 23:00*	*1*
Terphenyl-d14 (Surr)	*95*		*39 - 150*	*03/07/21 07:55*	*03/07/21 23:00*	*1*

Client Sample ID: HIMW-13S — Lab Sample ID: 460-229194-12

Date Collected: 03/03/21 12:50 **Matrix: Water**
Date Received: 03/03/21 18:00

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/06/21 07:51	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/06/21 07:51	1
Toluene	1.0	U	1.0	0.38	ug/L			03/06/21 07:51	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/06/21 07:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 123*		*03/06/21 07:51*	*1*
4-Bromofluorobenzene	*104*		*76 - 120*		*03/06/21 07:51*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*03/06/21 07:51*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/06/21 07:51*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/07/21 07:55	03/07/21 23:21	1
Acenaphthene	10	U	10	1.1	ug/L		03/07/21 07:55	03/07/21 23:21	1
Acenaphthylene	10	U	10	0.82	ug/L		03/07/21 07:55	03/07/21 23:21	1
Anthracene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 23:21	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/07/21 07:55	03/07/21 23:21	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/07/21 07:55	03/07/21 23:21	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/07/21 07:55	03/07/21 23:21	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/07/21 07:55	03/07/21 23:21	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/07/21 07:55	03/07/21 23:21	1
Chrysene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 23:21	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/07/21 07:55	03/07/21 23:21	1
Fluoranthene	10	U	10	0.84	ug/L		03/07/21 07:55	03/07/21 23:21	1
Fluorene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 23:21	1

Client Sample ID: HIMW-13S — Lab Sample ID: 460-229194-12

Date Collected: 03/03/21 12:50 **Matrix: Water**
Date Received: 03/03/21 18:00

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/07/21 07:55	03/07/21 23:21	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/07/21 07:55	03/07/21 23:21	1
Phenanthrene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 23:21	1
Pyrene	10	U	10	1.6	ug/L		03/07/21 07:55	03/07/21 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*102*		*42 - 127*	*03/07/21 07:55*	*03/07/21 23:21*	*1*
Nitrobenzene-d5 (Surr)	*110*		*46 - 137*	*03/07/21 07:55*	*03/07/21 23:21*	*1*
Terphenyl-d14 (Surr)	*115*		*39 - 150*	*03/07/21 07:55*	*03/07/21 23:21*	*1*

Client Sample ID: HIMW-13I — Lab Sample ID: 460-229194-13

Date Collected: 03/03/21 12:20 **Matrix: Water**
Date Received: 03/03/21 18:00

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/06/21 17:31	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/06/21 17:31	1
Toluene	1.0	U	1.0	0.38	ug/L			03/06/21 17:31	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/06/21 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 123*		*03/06/21 17:31*	*1*
4-Bromofluorobenzene	*104*		*76 - 120*		*03/06/21 17:31*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*03/06/21 17:31*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/06/21 17:31*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/07/21 07:55	03/07/21 23:42	1
Acenaphthene	10	U	10	1.1	ug/L		03/07/21 07:55	03/07/21 23:42	1
Acenaphthylene	10	U	10	0.82	ug/L		03/07/21 07:55	03/07/21 23:42	1
Anthracene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 23:42	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/07/21 07:55	03/07/21 23:42	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/07/21 07:55	03/07/21 23:42	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/07/21 07:55	03/07/21 23:42	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/07/21 07:55	03/07/21 23:42	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/07/21 07:55	03/07/21 23:42	1
Chrysene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 23:42	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/07/21 07:55	03/07/21 23:42	1
Fluoranthene	10	U	10	0.84	ug/L		03/07/21 07:55	03/07/21 23:42	1
Fluorene	10	U	10	0.91	ug/L		03/07/21 07:55	03/07/21 23:42	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/07/21 07:55	03/07/21 23:42	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/07/21 07:55	03/07/21 23:42	1
Phenanthrene	10	U	10	1.3	ug/L		03/07/21 07:55	03/07/21 23:42	1
Pyrene	10	U	10	1.6	ug/L		03/07/21 07:55	03/07/21 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*42 - 127*	*03/07/21 07:55*	*03/07/21 23:42*	*1*
Nitrobenzene-d5 (Surr)	*100*		*46 - 137*	*03/07/21 07:55*	*03/07/21 23:42*	*1*
Terphenyl-d14 (Surr)	*104*		*39 - 150*	*03/07/21 07:55*	*03/07/21 23:42*	*1*

Client Sample ID: HIMW-13D
Date Collected: 03/03/21 10:55
Date Received: 03/03/21 18:00

Lab Sample ID: 460-229194-14
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.56**	**J**	1.0	0.20	ug/L			03/06/21 17:56	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/06/21 17:56	1
Toluene	1.0	U	1.0	0.38	ug/L			03/06/21 17:56	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/06/21 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 123*		*03/06/21 17:56*	*1*
4-Bromofluorobenzene	*104*		*76 - 120*		*03/06/21 17:56*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*03/06/21 17:56*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/06/21 17:56*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	0.53	ug/L		03/07/21 07:55	03/08/21 00:03	1
Acenaphthene	10	U	10	1.1	ug/L		03/07/21 07:55	03/08/21 00:03	1
Acenaphthylene	10	U	10	0.82	ug/L		03/07/21 07:55	03/08/21 00:03	1
Anthracene	10	U	10	1.3	ug/L		03/07/21 07:55	03/08/21 00:03	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/07/21 07:55	03/08/21 00:03	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/07/21 07:55	03/08/21 00:03	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/07/21 07:55	03/08/21 00:03	1
Benzo[g,h,i]perylene	10	U	10	0.70	ug/L		03/07/21 07:55	03/08/21 00:03	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/07/21 07:55	03/08/21 00:03	1
Chrysene	10	U	10	0.91	ug/L		03/07/21 07:55	03/08/21 00:03	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/07/21 07:55	03/08/21 00:03	1
Fluoranthene	10	U	10	0.84	ug/L		03/07/21 07:55	03/08/21 00:03	1
Fluorene	10	U	10	0.91	ug/L		03/07/21 07:55	03/08/21 00:03	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/07/21 07:55	03/08/21 00:03	1
Naphthalene	2.0	U	2.0	0.54	ug/L		03/07/21 07:55	03/08/21 00:03	1
Phenanthrene	10	U	10	1.3	ug/L		03/07/21 07:55	03/08/21 00:03	1
Pyrene	10	U	10	1.6	ug/L		03/07/21 07:55	03/08/21 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*42 - 127*	*03/07/21 07:55*	*03/08/21 00:03*	*1*
Nitrobenzene-d5 (Surr)	*87*		*46 - 137*	*03/07/21 07:55*	*03/08/21 00:03*	*1*
Terphenyl-d14 (Surr)	*91*		*39 - 150*	*03/07/21 07:55*	*03/08/21 00:03*	*1*

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1000 New York Ave	Analysis Turnaround Time			Sampler:
Huntington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(631) 760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
(631) 760 - 9301 FAX	☐ 2 weeks			Lab Sampling:
Project Name: National Grid GW Monitoring	☐ 1 week			
Site: Downstate Hempstead Former MGP Site	☐ 2 days			Job / SDG No.: 229194
P O # 1905774.15.3	☐ 1 day			

460-229194 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D	Sample Specific Notes:
TB030321	3/3/21	—	G	GW	2			X		1
HIMW-05D		615			5			X	X	2
HIMW-05I		700			5			X	X	3
HIMW-26D		800			5			X	X	4
HIMW-05S		740			5			X	X	5
HIMW-26I		635			5			X	X	6
HIMW-12S		1000			5			X	X	7
HIMW-12IR		1045			5			X	X	8
HIMW-23		1200			5			X	X	9
HIMW-22		1305			5			X	X	10
TB030321		1315			5			X	X	11

5-Day RUSH

NYC 222

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: CAT B REPORT

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: GEI Consultants Inc. P.C	Date/Time:	Received by:	Company: TA	Date/Time: 3/3/21 1520
Relinquished by:	Company: TA	Date/Time: 3/3/21 1600	Received by:	Company: TA	Date/Time: 3/3/21 1600
Relinquished by:	Company: TA	Date/Time: 3/3/21 1800	Received in Laboratory by:	Company: TA	Date/Time: 3/3/21 1800

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

23IR11

03/11/2021

TestAmerica New York City
47-32 32nd Place
Suite 1141
Long Island City, NY 11101-2425
phone 347.507.0579 fax

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Chris Morris	Site Contact: Tom Johansen	Date: 3/3/21	COC No:
GEI Consultants Inc P.C.	Tel/Fax: (631) 759-2967	Lab Contact: Melissa Haas	Carrier: Test America	2 of 12 COCs
1000 New York Ave	**Analysis Turnaround Time**			Sampler:
Huntington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(631) 760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
(631) 760 - 9301 FAX	☐ 2 weeks			Lab Sampling:
Project Name: National Grid GW Monitoring	☐ 1 week			NYC 22
Site: Downstate Hempstead Former MGP Site	☐ 2 days			Job/SDG No. 220194
P O # 1905774.15.3	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D	Sample Specific Notes:
HMW-13S	3/3/21	1250	G	GW	5			X	X	-12
HMW-13I	"	1220	"	"	5			X	X	-13
HMW-13D	"	1055	"	"	5			X	X	-14

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: CAT B Report

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.:
Relinquished by:	Company: GEI Consultants Inc. P.C	Date/Time: 3/3/21 1530	Received by:	Company:	Date/Time: 3/3/21 1530
Relinquished by:	Company:	Date/Time: 3/3/21 1800	Received by:	Company:	Date/Time: 3/3/21 1800
Relinquished by:	Company:	Date/Time: 3/3/21 1800	Received in Laboratory by:	Company:	Date/Time: 3/3/21 1800

2 · 3 IR 4

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

Site: Downstate OMM Hempstead
Laboratory: Test America, Edison, NJ
Report Numbers: 460-229277-1 and 460-229406-1
Reviewer: Elissa McDonagh/GEI Consultants
Date: March 24, 2021

Sample Summary

FIELD ID	LAB ID	FRACTIONS
HIMW-14D	460-229277-1	BTEX, PAH
HIMW-14I	460-229277-2	BTEX, PAH
DUP-02	460-229277-3	BTEX, PAH
FB-030421	460-229277-4	BTEX, PAH
TB-030421	460-229277-5	BTEX
TB-030421	460-229406-1	BTEX
HIMW-03S	460-229406-2	BTEX, PAH
HIMW-03I	460-229406-3	BTEX, PAH
HIMW-03D	460-229406-4	BTEX, PAH
HIMW-15I	460-229406-5	BTEX, PAH
HIMW-15D	460-229406-6	BTEX, PAH

Associated QC Sample:
Trip Blank: TB-030421 (460-229277-5), TB-030421 (460-229406-1)
Field Blank: FB-030421
Field Duplicate pair: HIMW-14I/DUP-02

The above-listed aqueous samples were collected on March 4 and 5, 2021 were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260C and polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 8270D.

The data were evaluated based on the following parameters:

- Data Completeness
- Data Assessment

Data Completeness

The data package was found to contain the sample reporting forms and QC forms which included organic surrogate recoveries, blank, matrix spike, and laboratory control sample results.

Data Assessment

Dilutions were not required.

Appendix D

Oxygen System Operations & Maintenance Measurements

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 1/19/21
Time: 0700
Weather: 30's / clear
Inside Trailer Temperature: Operable
Performed By: GH

O_2 Generator

Hours	35409	
Feed Air Pressure *	130	(psi)
Cycle Pressure * (L / R) High:	70 / 72	(psi)
Cycle Pressure * (L / R) Low:	2 / 4	(psi)
Oxygen Receiver Pressure *	70	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	110	(psi)
Oxygen Purity	93.1	(percent)

* maximum reading during loading cycle

Compressor (Kaeser Rotary Screw)

Compressor Tank *	135	(psi)
Delivery Air	136	(psi)
Element Outlet Temperature	189	(°F)
Running Hours	17,281	(hours)
Loading Hours	11,945	(hours)

* maximum reading during loading cycle

Booster Pump (Powered)

Hours: 15660.08

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-1	95.5	30	26	OW-1-9S	67.0	26	17	OW-1-9D	93.5	31	28
OW-1-2	93.6	Off		OW-1-8S	67.8	24	17	OW-1-10D	97.2	30	27
OW-1-3	96.8	27	30	OW-1-7S	66.9	27	17	OW-1-11D	99.1	28	29
OW-1-4	93.0	28	29	OW-1-6S	66.7	28	17	OW-1-12D	96.8	25	28
OW-1-5D	93.0	30	29	OW-1-9S	66.0	25	18	OW-1-13D	94.7	28	28
OW-1-6D	92.4	30	28	OW-1-10S	54.6	22	13	OW-1-14D	94.1	27	28
OW-1-7D	91.1	28	28	OW-1-11S	54.1	28	14	OW-1-15D	93.8	25	28
OW-1-8D	93.6	27	28	OW-1-12S	53.5	28	14	OW-1-16D	92.5	24	13

Comments: All Points set at 30 scfh

Notes:

Date: 1/19/21

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi
OW-1-13S	53.1	26	13
OW-1-14S	52.7	26	14
OW-1-15S	52.2	26	13
OW-1-16SR	51.6	25	26
OW-1-17S	50.7	20	24
OW-1-18S	50.2	27	12
OW-1-19S	49.7	Off	
OW-1-20S	49.3	Off	

Injection Bank 5	Depth (ft)	scfh	psi
OW-1-17D	79.5	32	13
OW-1-18D	78.3	31	25
OW-1-19D	78.9	31	25
OW-1-20D	79.5	30	26
OW-1-21D	79.5	28	25
OW-1-22D	79.5	33	24
OW-1-23D	78.7	29	24
OW-1-24D	78.2	29	26

Injection Bank 6	Depth (ft)	scfh	psi
OW-1-21S	49.3	28	11
OW-1-22S	49.3	28	11
OW-1-23S	48.8	29	11
OW-1-24S	48.4	33	11
OW-1-25S	48.8	28	12
OW-1-26S	48.3	30	12
OW-1-27S	48.3	26	12
OW-1-28S	48.3	12	12

Comments: All Points set at 30 scfh

Injection Bank 7	Depth (ft)	scfh	psi
OW-1-25D	78.1	28	26
OW-1-26D	78.1	34	26
OW-1-27D	77.9	30	27
OW-1-28D	78.0	30	26
OW-1-29D	78.4	31	25
OW-1-30D	79.0	22	35
OW-1-31D	80.5	Off	
OW-1-32D	81.6	30	27

Injection Bank 8	Depth (ft)	scfh	psi
OW-1-29S	48.5	30	12
OW-1-30S	48.8	26	13
OW-1-31S	49.3	28	12
OW-1-32S	49.3	28	12
OW-1-33S	49.7	26	12
OW-1-34S	50.1	29	12
OW-1-35S	50.3	26	13
OW-1-36S	50.3	30	13

Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-33D	83.2	28	27
OW-1-34D	84.5	29	28
OW-1-35D	85.0	37	28
OW-1-36D	85.0	36	28
OW-1-37D	84.0	21	28
OW-1-38D	82.0	28	26
OW-1-39D	78.0	28	26
OW-1-40D	76.0	32	25

Comments: All points set at 30 scfh

Notes:

Date: 1/19/21

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	28	12	OW-1-41D	73.0	22	22	OW-1-43	67.4	31	19
OW-1-38S	50.6	30	13	OW-1-42D	71.0	27	20	OW-1-44	66.6	29	18
OW-1-39S	50.7	28	12	OW-1-45	65.7	28	18	OW-1-51R	60.6	32	16
OW-1-40S	51.1	29	13	OW-1-46	64.3	28	17	OW-1-52	59.3	33	15
OW-1-41S	51.5	30	13	OW-1-47	63.4	37	16	OW-1-53	60.0	30	16
OW-1-42S	51.3	30	13	OW-1-48	62.5	27	18	OW-1-54	60.0	28	15
-	-			OW-1-49	61.5	29	16	-	-		
-	-			OW-1-50	61.0	28	16	-	-		

Comments: All Points set at 30 scfh

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID

Comments: All points set at 30 scfh

Notes:

Date: 1/19/21

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) Yes X No ____

2) Abnormal conditions observed (e.g. vandalism) NO

3) Other major activities completed Checked fire extinguisher

4) Supplies needed ~~Est~~ Spill pads/ bucket

5) Visitors None

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes X No ____

* Unload system, wait until Delivery Air Pressure is less than 9 psi

2) Oil Level with system unloaded

Low (red) ____ Normal (green) X High (orange) ____

3) Oil added	Yes ____	No X
4) Oil changed	Yes ____	No X
5) Oil filter changed	Yes ____	No X
6) Air filter Changed	Yes ____	No X
7) Oil separator changed	Yes ____	No X
8) Terminal strips checked	Yes ____	No X

AS-30 O_2 Generator

1) Prefilter changed	Yes ____	No X
2) Coalescing changed	Yes ____	No X

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 3/2/21
Time: 0800
Weather: 20s, Sunny
Inside Trailer Temperature: Warm, Operational
Performed By: C. Hayes

O_2 Generator

Hours	36,345	
Feed Air Pressure *	136	(psi)
Cycle Pressure * (L / R) High:	64 | 69	(psi)
Cycle Pressure * (L / R) Low:	4 | 3	(psi)
Oxygen Receiver Pressure *	66	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	100	(psi)
Oxygen Purity	88.6	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	138	(psi)
Delivery Air	140	(psi)
Element Outlet Temperature	188	(°F)
Running Hours	17,586	(hours)
Loading Hours	12,149	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 15660.08

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1	Depth (ft)	scfh	psi
OW-1-1	95.5	37	25
OW-1-2	93.5	Point	OFF
OW-1-3	96.3	33	30
OW-1-4	95.0	31	30
OW-1-5D	93.9	35	29
OW-1-6D	92.4	32	28
OW-1-7D	91.1	32	28
OW-1-8D	89.6	37	28

Injection Bank 2	Depth (ft)	scfh	psi
OW-1-6S	67.3	30	17
OW-1-8S	67.0	28	17
OW-1-7S	66.9	32	17
OW-1-8S	66.7	30	17
OW-1-9S	66.0	34	18
OW-1-10S	54.6	35	12
OW-1-11S	54.1	32	14
OW-1-12S	53.6	34	14

Injection Bank 3	Depth (ft)	scfh	psi
OW-1-9D	99.5	35	28
OW-1-10D	97.2	31	27
OW-1-11D	96.1	22	29
OW-1-12D	95.3	32	28
OW-1-13D	94.7	28	28
OW-1-14D	94.1	33	28
OW-1-15D	93.3	36	28
OW-1-16D	92.5	28	13

Comments: **All Points set at 30 scfh**

Notes: * Alarm - Airend discharge temperature on Compressor Interface, Could not reset * System Operational

Date: 3/2/21

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4				Injection Bank 5				Injection Bank 6			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-13S	53.1	28	13	OW-1-17D	79.5	33	13	OW-1-21S	49.3	32	11
OW-1-14S	52.7	30	14	OW-1-18D	76.3	32	25	OW-1-22S	49.3	27	10
OW-1-15S	52.2	30	13	OW-1-19D	78.9	42	26	OW-1-23S	48.8	38	11
OW-1-16SR	51.8	28	26	OW-1-20D	79.5	30	26	OW-1-24S	48.4	40	11
OW-1-17S	50.7	37	24	OW-1-21D	79.5	31	25	OW-1-25S	48.8	32	12
OW-1-18S	50.2	29	12	OW-1-22D	79.5	32	24	OW-1-26S	48.3	36	12
OW-1-19S	49.7	Point	OFF	OW-1-23D	78.7	31	24	OW-1-27S	48.3	30	12
OW-1-20S	49.3	Point	OFF	OW-1-24D	78.2	34	25	OW-1-28S	48.3	43	13
Comments:	All Points set at 30 scfh										

Injection Bank 7				Injection Bank 8				Injection Bank 9			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID
OW-1-25D	78.1	43	26	OW-1-29S	48.5	30	12	OW-1-33D	83.2	30	28
OW-1-26D	78.1	42	26	OW-1-30S	48.8	36	13	OW-1-34D	84.5	32	28
OW-1-27D	77.9	38	27	OW-1-31S	49.3	28	13	OW-1-35D	85.0	28	28
OW-1-28D	78.0	32	26	OW-1-32S	49.3	30	12	OW-1-36D	85.0	31	28
OW-1-29D	78.4	34	25	OW-1-33S	49.7	26	12	OW-1-37D	84.0	22	28
OW-1-30D	79.0	29	33	OW-1-34S	50.1	35	12	OW-1-38D	82.0	30	26
OW-1-31D	80.5	Point	Off	OW-1-35S	50.3	32	13	OW-1-39D	78.0	30	26
OW-1-32D	81.6	33	27	OW-1-36S	50.3	29	13	OW-1-40D	76.0	34	25
Comments:	All points set at 30 scfh										

Notes:

Date: 3/2/21

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	34	12	OW-1-41D	73.0	30	22	OW-1-43	67.4	38	19
OW-1-38S	50.6	40	13	OW-1-42D	71.0	31	20	OW-1-44	66.6	29	18
OW-1-39S	50.7	34	12	OW-1-45	65.7	31	18	OW-1-51R	60.6	28	16
OW-1-40S	51.1	32	13	OW-1-46	64.3	28	17	OW-1-52	59.3	34	15
OW-1-41S	51.5	36	13	OW-1-47	63.4	27	16	OW-1-53	60.0	32	16
OW-1-42S	51.3	33	13	OW-1-48	62.5	30	17	OW-1-54	60.0	32	15
-	-			OW-1-49	61.5	30	16	-	-		
-	-			OW-1-50	61.0	28	16	-	-		

Comments: All Points set at 30 scfh

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID

Comments: All points set at 30 scfh

Notes:

Date: 3/2/21

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) None

3) Other major activities completed None

4) Supplies needed None

5) Visitors None

OPERATIONAL NOTES

IGA5 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 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 3/25/21
Time: 0900
Weather: 60's, P. Cloudy
Inside Trailer Temperature: Operable
Performed By: GH

O2 Generator

Hours	36796	
Feed Air Pressure *	130	(psi)
Cycle Pressure * (L / R) High:	70/72	(psi)
Low:	0/4	(psi)
Oxygen Receiver Pressure *	65	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	110	(psi)
Oxygen Purity	92.8	(percent)

* maximum reading during loading cycle

Compressor (Kaeser Rotary Screw)

Compressor Tank *	130	(psi)
Delivery Air	130	(psi)
Element Outlet Temperature	190	(°F)
Running Hours	18077	(hours)
Loading Hours	12474	(hours)

* maximum reading during loading cycle

Booster Pump (Pneumatic)

Hours: 25660.08

Air Tank & Boo-Drain

Condensate Purged (Y) N) Condensate Emptied (Y) N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-1	65.5	26	27	OW-1-5S	67.3	26	17	OW-1-9D	62.5	30	28
OW-1-2	66.5	Off		OW-1-6S	67.8	30	18	OW-1-10D	67.2	20	27
OW-1-3	66.3	18	30	OW-1-7S	66.9	28	17	OW-1-11D	66.1	25	29
OW-1-4	65.0	26	30	OW-1-8S	66.7	28	17	OW-1-12D	65.3	21	28
OW-1-5D	93.9	30	29	OW-1-9S	65.0	24	18	OW-1-13D	64.7	29	28
OW-1-6D	92.4	28	28	OW-1-10S	54.6	22	13	OW-1-14D	64.1	16	29
OW-1-7D	91.1	32	28	OW-1-11S	54.1	28	14	OW-1-15D	63.3	26	28
OW-1-8D	68.6	22	29	OW-1-12S	53.6	29	14	OW-1-16D	62.5	16	17

Comments: **All Points set at 30 scfh**

Notes:

Date: 3/25/14

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Homestead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi
OW-1-13S	53.1	26	14
OW-1-14S	52.7	26	14
OW-1-15S	52.2	25	13
OW-1-16SR	51.6	30	26
OW-1-17S	50.7	16	25
OW-1-18S	50.2	25	12
OW-1-19S	49.7	off	
OW-1-20S	49.3	off	

Injection Bank 5	Depth (ft)	scfh	psi
OW-1-17D	79.5	25	14
OW-1-18D	79.3	28	25
OW-1-19D	78.9	28	26
OW-1-20D	79.5	28	26
OW-1-21D	79.5	27	25
OW-1-22D	79.5	23	24
OW-1-23D	78.7	23	24
OW-1-24D	78.2	22	26

Injection Bank 6	Depth (ft)	scfh	psi
OW-1-21S	49.3	24	11
OW-1-22S	49.3	27	11
OW-1-23S	48.8	25	11
OW-1-24S	48.4	23	11
OW-1-25S	48.8	24	12
OW-1-26S	48.3	23	13
OW-1-27S	48.3	30	13
OW-1-28S	48.3	10	14

Comments: All Points set at 30 scfh

Injection Bank 7	Depth (ft)	scfh	psi
OW-1-25D	78.1	18	26
OW-1-26D	78.1	20	26
OW-1-27D	77.9	24	27
OW-1-28D	78.0	27	26
OW-1-29D	78.4	25	25
OW-1-30D	79.0	27	37
OW-1-31D	80.5	off	
OW-1-32D	81.6	26 ~~off~~ 28	

Injection Bank 8	Depth (ft)	scfh	psi
OW-1-29S	49.5	28	12
OW-1-30S	49.8	25	13
OW-1-31S	49.3	28	13
OW-1-32S	49.3	28	12
OW-1-33S	49.7	26	12
OW-1-34S	50.1	24	12
OW-1-35S	50.3	24	13
OW-1-36S	50.3	70	13

Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-33D	83.2	30	28
OW-1-34D	84.5	29	28
OW-1-35D	85.0	52	12
OW-1-36D	85.0	28	29
OW-1-37D	84.0	16	28
OW-1-38D	82.0	32	27
OW-1-39D	78.0	28	26
OW-1-40D	76.0	50	16

Comments: All points set at 30 scfh

Notes:

Date: 3/25/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	28	12	OW-1-41D	73.6	28	22	OW-1-43	67.4	30	20
OW-1-38S	50.6	26	13	OW-1-42D	71.0	34	20	OW-1-44	66.6	28	18
OW-1-39S	50.7	32	12	OW-1-45	65.7	32	19	OW-1-51R	60.6	30	16
OW-1-40S	51.1	30	14	OW-1-46	64.3	36	17	OW-1-52	59.3	50	10
OW-1-41S	51.5	34	14	OW-1-47	63.4	32	17	OW-1-53	60.9	27	16
OW-1-42S	51.3	30	14	OW-1-48	62.5	30	18	OW-1-54	60.6	28	16
-	-			OW-1-49	61.5	30	16	-	-		
-	-			OW-1-50	61.0	29	16	-	-		

Comments: All Points set at 30 scfh

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		PRV	Manual	PID

Comments: All points set at 30 scfh

Notes:

Date: 3/25/20

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) NA

3) Other major activities completed NA

4) Supplies needed NA

5) Visitors NA

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes X No ____
* Unload system, wait until Delivery Air Pressure is less than 9 psi

2) Oil Level with system unloaded
Low (red) ____ Normal (green) X 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 O_2 Generator

1) Prefilter changed Yes ____ No ✓
2) Coalescing changed Yes ____ No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

158 Hilton Ave. Hempstead, NY
Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 1/19/21
Time: 0830
Weather: 37° 48°
Inside Trailer Temperature: WARM
Performed By: R JAKUBOWSKI

O_2 Generator

Hours	59934	
Feed Air Pressure *	119	(psi)
Cycle Pressure * (L / R) High:	60 / 65	(psi)
Cycle Pressure * (L / R) Low:	0 / 0	(psi)
Oxygen Receiver Pressure *	10	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	125	(psi)
Oxygen Purity	70.3	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	118	(psi)
Delivery Air	116	(psi)
Element Outlet Temperature	171	(°F)
Running Hours	68943	(hours)
Loading Hours	59355	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 00999.99 / BROKEN

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1	Depth (ft)	scfh	psi
OW-2-2	90.2	30	30.0
OW-2-3	94.3	21	19.0
OW-2-4	94.7	22	37.0
OW-2-5	95.3	29	29.5
OW-2-6	95.7	27	30.0
OW-2-7	96.0	30	29.5
OW-2-8	96.3	29	29.5
OW-2-9D	96.7	29	30.0

Injection Bank 2	Depth (ft)	scfh	psi
OW-2-9S	75.0	22	19.5
OW-2-10S	75.0	20	30.0
OW-2-11S	76.5	25	7.5
OW-2-13S	75.0	21	18.5
OW-2-15S	75.0	30	18.5
OW-2-16S	75.5	29	19.0
OW-2-18S	74.5	29	18.5
OW-2-20S	79.0	37	20.0

Injection Bank 3	Depth (ft)	scfh	psi
OW-2-10D	97.2	31	27.0
OW-2-11D	100.8	39	31.0
OW-2-12	94.0	32	19.5
OW-2-13D	97.0	OFF	OFF
OW-2-14	96.4	31	29.0
OW-2-15D	94.6	30	30.0
OW-2-16D	94.1	40	25.5
OW-2-17	95.0	30	29.5

Comments: **All Points set at 30 scfh**

Notes:

Date: 1/12/24

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank 4	Depth (ft)	scfh	psi
OW-2-18D	95.5	31	29.5
OW-2-19	96.1	37	29.5
OW-2-20D	96.6	31	5.5
OW-2-21	96.6	30	29.0
OW-2-22D	96.3	31	28.0
OW-2-23	97.2	POINT	OFF
OW-2-24D	97.0	POINT	OFF
OW-2-25	96.0	0	2.5

Injection Bank 5	Depth (ft)	scfh	psi
OW-2-22S	76.0	31	20.0
OW-2-24S	77.8	31	21.0
OW-2-26S	74.0	30	19.5
OW-2-28S	76.0	30	20.5
OW-2-30S	67.8	32	16.0
OW-2-34	71.0	31	19.5
OW-2-35	69.2	29	20.5
OW-2-36	64.8	30	19.0

Injection Bank 6	Depth (ft)	scfh	psi
OW-2-26D	95.0	29	31.0
OW-2-27	93.5	30	29.0
OW-2-28D	92.1	31	26.0
OW-2-29	92.2	29	28.5
OW-2-30D	88.0	31	25.5
OW-2-31	86.0	27	25.5
OW-2-32	84.0	30	24.5
OW-2-33	82.0	30	25.0

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi
OW-2-37	62.8	27	19.5
OW-2-38	62.1	29	19.5
OW-2-39	60.0	22	17.0
OW-2-40	61.7	POINT	OFF
OW-2-241	61.7	27	19.5
OW-2-42	61.6	29	19.5
OW-2-43	61.4	POINT	OFF
OW-2-44R	60.6	27	19.5

Injection Bank 8	Depth (ft)	scfh	psi
OW-2-45	61.1	33	19.5
OW-2-46	61.0	31	19.0
OW-2-47	60.5	37	19.5
-	-		
-	-		
-	-		
-	-		
-	-		

Comments: **All points set at 30 scfh**

Notes:

Date: 1/19/21

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) NONE

3) Other major activities completed CHECKED AND UPDATED FIRE EXTINGUISHER

4) Supplies needed NONE

5) Visitors GEORGE HOLMES (GEI)

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 ____	

AS-80 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ✓

DRYER IN THE BLUE. TRIED RESETTING SYSTEM/DRYER

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

158 Hilton Ave. Hempstead, NY
Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 2/25/24
Time: 1030
Weather: 36°-38° WARM
Inside Trailer Temperature:
Performed By: R SAKWASH

O_2 Generator

Hours	60447	
Feed Air Pressure *	76	(psi)
Cycle Pressure * (L / R) High:	38 / 39	(psi)
Cycle Pressure * (L / R) Low:	0 / 0	(psi)
Oxygen Receiver Pressure *	32	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	123	(psi)
Oxygen Purity	476	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	76	(psi)
Delivery Air	61	(psi)
Element Outlet Temperature	169	(°F)
Running Hours	69700	(hours)
Loading Hours	60390	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 00999.8 / BROKEN

Air Tank & Eco-Drain

Condensate Purged (Y) N) Condensate Emptied (Y) N)

Injection Bank 1	Depth (ft)	scfh	psi
OW-2-2	90.2	30	30.0
OW-2-3	94.3	37	29.5
OW-2-4	94.7	32	35.5
OW-2-5	95.3	35	29.5
OW-2-6	95.7	37	30.5
OW-2-7	96.0	37	29.5
OW-2-8	96.3	35	30.0
OW-2-9D	98.7	31	30.0

Injection Bank 2	Depth (ft)	scfh	psi
OW-2-9S	75.0	33	20.0
OW-2-10S	75.0	50	30.5
OW-2-11S	76.5	31	9.0
OW-2-13S	75.0	40	19.0
OW-2-15S	75.0	32	19.0
OW-2-16S	75.5	40	19.5
OW-2-18S	74.5	40	19.0
OW-2-20S	79.0	29	21.0

Injection Bank 3	Depth (ft)	scfh	psi
OW-2-10D	97.2	23	27.5
OW-2-11D	100.8	31	32.0
OW-2-12	94.0	29	19.0
OW-2-13D	97.0	OFF	OFF
OW-2-14	98.4	37	28.5
OW-2-15D	94.6	35	30.0
OW-2-16D	94.1	31	26.0
OW-2-17	95.0	25	29.0

Comments: All Points set at 30 scfh

Notes:

Date: 3/25/21

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank 4	Depth (ft)	scfh	psi
OW-2-18D	95.5	37	29.0
OW-2-19	96.1	29	29.0
OW-2-20D	96.6	27	5.5
OW-2-21	96.6	28	27.5
OW-2-22D	96.3	30	27.0
OW-2-23	97.2	POINT	OFF
OW-2-24D	97.0	POINT	OFF
OW-2-25	96.0	OFF	OFF

Injection Bank 5	Depth (ft)	scfh	psi
OW-2-22S	76.0	30	19.5
OW-2-24S	77.8	29	23.5
OW-2-26S	74.0	31	19.0
OW-2-28S	76.0	31	19.5
OW-2-30S	67.8	27	16.5
OW-2-34	71.0	30	19.0
OW-2-35	69.2	30	21.0
OW-2-36	64.8	30	18.0

Injection Bank 6	Depth (ft)	scfh	psi
OW-2-26D	95.0	32	31.0
OW-2-27	93.5	31	28.0
OW-2-28D	92.3	51	26.5
OW-2-29	92.2	36	28.0
OW-2-30D	88.0	30	25.5
OW-2-31	86.0	30	26.0
OW-2-32	84.0	29	24.0
OW-2-33	82.0	34	25.5

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi
OW-2-37	62.6	41	19.5
OW-2-38	62.1	51	19.0
OW-2-39	60.0	47	17.5
OW-2-40	61.7	POINT	OFF
OW-2-241	61.7	41	19.0
OW-2-42	61.6	44	19.0
OW-2-43	61.4	POINT	OFF
OW-2-44R	60.6	40	19.5

Injection Bank 8	Depth (ft)	scfh	psi
OW-2-45	61.1	31	19.5
OW-2-46	61.0	30	19.0
OW-2-47	60.5	30	19.0
-	-		
-	-		
-	-		
-	-		
-	-		

Comments: **All points set at 30 scfh**

Notes:

Date: 9/25/21

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) NONE

3) Other major activities completed CHECKED AND UPDATED FIRE EXTINGUISHER. ADDED OIL TO COMPRESSOR

4) Supplies needed MAINTANACE LIGHT ON ON COMPRESSOR

5) Visitors NONE

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 ____	

AS-80 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ✓

* COMPRESSOR PSI WILL NOT PASS 70 *

AIRSEP INJECTION WILL NOT PAS 50

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

158 Hilton Ave. Hempstead, NY
Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 3/25/21
Time: 0805
Weather: 30s, Cloudy
Inside Trailer Temperature: Warm Operational
Performed By: C. Hayes

O_2 Generator

Hours: 60,862
Feed Air Pressure *: 78 (psi)
Cycle Pressure * (L / R) High: 53 | 55 (psi)
Low: 0 | 0 (psi)
Oxygen Receiver Pressure *: 51 (psi)
Oxygen Receiver Tank Pressure (reading from blue tank): 124 (psi)
Oxygen Purity: 63.2 (percent)
* maximum reading during loading cycle

Compressor (Kaeser Rotary Screw)

Compressor Tank *: 78 (psi)
Delivery Air: 78 (psi)
Element Outlet Temperature: 172 (°F)
Running Hours: 70,228 (hours)
Loading Hours: 60,829 (hours)
* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 00999.99/Broken

Air Tank & Eco-Drain

Condensate Purged (Y) N) Condensate Emptied (Y) N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-2-2	90.2	33	30.0	OW-2-9S	75.0	27	20.5	OW-2-10D	97.2	24	27.0
OW-2-3	94.3	34	30.0	OW-2-10S	75.0	34	31.0	OW-2-11D	100.6	25	32.5
OW-2-4	94.7	25	38.0	OW-2-11S	76.5	26	7.0	OW-2-12	94.0	22	19.0
OW-2-5	95.3	30	30.0	OW-2-13S	75.0	29	19.0	OW-2-13D	97.0	>10	0
OW-2-6	95.7	31	31.0	OW-2-15S	75.0	27	19.0	OW-2-14	96.4	28	29.0
OW-2-7	96.0	30	30.0	OW-2-16S	75.5	26	19.5	OW-2-15D	94.8	26	30.5
OW-2-8	96.3	30	30.0	OW-2-18S	74.5	26	19.0	OW-2-16D	94.1	22	27.0
OW-2-9D	96.7	28	30.0	OW-2-20S	79.0	25	21.0	OW-2-17	95.0	23	28.0

Comments: All Points set at 30 scfh

Notes:

Date: 3/25/21

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank 4	Depth (ft)	scfh	psi
OW-2-18D	95.5	21	30.0
OW-2-19	96.1	20	29.5
OW-2-20D	96.6	17	5.0
OW-2-21	96.8	23	28.0
OW-2-22D	96.3	23	27.5
OW-2-23	97.2	POINT	OFF
OW-2-24D	97.0	POINT	OFF
OW-2-25	96.0	710	8

Injection Bank 5	Depth (ft)	scfh	psi
OW-2-22S	76.0	25	20.0
OW-2-24S	77.8	22	26.0
OW-2-26S	74.0	24	19.0
OW-2-28S	76.0	26	20.5
OW-2-30S	67.8	24	16.5
OW-2-34	71.0	24	19.5
OW-2-35	69.2	25	21.5
OW-2-36	64.8	24	18.0

Injection Bank 6	Depth (ft)	scfh	psi
OW-2-26D	95.0	30	36.0
OW-2-27	93.5	27	27.5
OW-2-28D	92.1	33	27.5
OW-2-29	92.2	28	28.0
OW-2-30D	88.0	33	26.0
OW-2-31	86.0	28	28.0
OW-2-32	84.0	26	25.0
OW-2-33	82.0	27	26.0

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi
OW-2-37	62.8	26	20.0
OW-2-38	62.1	26	19.0
OW-2-39	60.0	28	18.0
OW-2-40	61.7	POINT	OFF
OW-2-241	61.7	24	19.5
OW-2-42	61.6	25	19.5
OW-2-43	61.4	POINT	OFF
OW-2-44R	60.6	22	19.5

Injection Bank 8	Depth (ft)	scfh	psi
OW-2-45	61.1	26	19.5
OW-2-46	61.0	27	19.0
OW-2-47	60.5	26	19.0
-	-		
-	-		
-	-		
-	-		
-	-		

Comments: **All points set at 30 scfh**

Notes:

Date: 3/25/21

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) None

3) Other major activities completed Checked Five Extinguisher

4) Supplies needed None

5) Visitors None

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 _____	

AS-80 O_2 Generator

1) Prefilter changed	Yes _____	No ✓
2) Coalescing changed	Yes _____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702697-30-1

Date: 10/26/20
Time: 0800
Weather: RAIN, 50's, cloudy
Inside Trailer Temperature: HEATED
Performed By: MIKE QUINLAN

O_2 Generator

Hours	33972	
Feed Air Pressure *	135	(psi)
Cycle Pressure * (L / R) High:	70 | 74	(psi)
Cycle Pressure * (L / R) Low:	2 | 4	(psi)
Oxygen Receiver Pressure *	70	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	113	(psi)
Oxygen Purity	91.2	(percent)

* maximum reading during loading cycle

Compressor (Kaeser Rotary Screw)

Compressor Tank *	135	(psi)
Delivery Air	140	(psi)
Element Outlet Temperature	198	(°F)
Running Hours	15337	(hours)
Loading Hours	10629	(hours)

* maximum reading during loading cycle

Booster Pump (Powered)

Hours: 15660.08 Hour counter NEEDS REPLACEMENT

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1	Depth (ft)	scfh	psi
OW-1-1	95.5	30	26
OW-1-2	93.5	Pump	OFF
OW-1-3	88.8	30	30
OW-1-4	85.0	28	29
OW-1-5D	93.9	32	28
OW-1-6D	92.4	28 ~~28~~	28
OW-1-7D	91.1	32	28
OW-1-8D	89.6	30	28

Injection Bank 2	Depth (ft)	scfh	psi
OW-1-6S	67.3	34	16
OW-1-8S	67.9	32	16
OW-1-7S	66.9	36	16
OW-1-9S	66.7	46	16
OW-1-10S	65.0	42	17
OW-1-11S	54.6	50	12
OW-1-12S	54.1	38	13
	53.6	36	14

Injection Bank 3	Depth (ft)	scfh	psi
OW-1-9D	69.5	32	27
OW-1-10D	67.2	32	26
OW-1-11D	66.1	36	28
OW-1-12D	65.3	36	27
OW-1-13D	64.7	28	28
OW-1-14D	64.1	32 ~~30~~	28
OW-1-15D	63.8	36	28
OW-1-16D	62.5	28	13

Comments: All Points set at 30 scfh

Notes:

Date: 10/26/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi
OW-1-13S	53.1	32	12
OW-1-14S	52.7	32	13
OW-1-15S	52.2	30	12
OW-1-16SR	51.8	32	25
OW-1-17S	50.7	34	24
OW-1-18S	50.2	32	11
OW-1-19S	49.7	POINT	OFF
OW-1-20S	49.3	POINT	OFF

Injection Bank 5	Depth (ft)	scfh	psi
OW-1-17D	79.5	24	13
OW-1-18D	78.3	26	24
OW-1-19D	78.9	14	25
OW-1-20D	79.5	24	25
OW-1-21D	79.5	26	24
OW-1-22D	79.5	26	24
OW-1-23D	78.7	28	24
OW-1-24D	78.2	24	25

Injection Bank 6	Depth (ft)	scfh	psi
OW-1-21S	49.3	30	10
OW-1-22S	49.3	28	10
OW-1-23S	48.8	32	10
OW-1-24S	48.4	42	10
OW-1-25S	48.8	34	12
OW-1-26S	48.3	26	12
OW-1-27S	48.3	34	12
OW-1-28S	48.3	22	13

Comments: All Points set at 30 scfh

Injection Bank 7	Depth (ft)	scfh	psi
OW-1-25D	78.1	28	25
OW-1-26D	78.1	28	25
OW-1-27D	77.9	30	26
OW-1-28D	78.0	28	25
OW-1-29D	78.4	30	25
OW-1-30D	79.0	26	32
OW-1-31D	80.5	POINT	OFF
OW-1-32D	81.6	32	27

Injection Bank 8	Depth (ft)	scfh	psi
OW-1-29S	48.5	22	12
OW-1-30S	48.8	22	12
OW-1-31S	49.3	24	12
OW-1-32S	49.3	30	12
OW-1-33S	49.7	32	12
OW-1-34S	50.1	30	11
OW-1-35S	50.3	28	12
OW-1-36S	50.3	28	13

Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-33D	83.2	30	27
OW-1-34D	84.5	32	28
OW-1-35D	85.0	42	27
OW-1-36D	85.0	38	28
OW-1-37D	84.0	24	27
OW-1-38D	82.6	30	26
OW-1-39D	78.0	36	25
OW-1-40D	76.6	34	24

Comments: All points set at 30 scfh

Notes:

Date: 10/26/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	32	11	OW-1-41D	73.6	38	22	OW-1-43	67.4	30	19
OW-1-38S	50.6	38	12	OW-1-42D	71.0	36	19	OW-1-44	66.6	28	18
OW-1-39S	50.7	36	12	OW-1-45	65.7	34	18	OW-1-51R	60.6	36	16
OW-1-40S	51.1	34	12	OW-1-46	64.3	36	16	OW-1-52	59.3	32	14
OW-1-41S	51.5	28	12	OW-1-47	63.4	36	16	OW-1-53	60.0	30	15
OW-1-42S	51.3	34	12	OW-1-48	62.5	32	17	OW-1-54	60.0	38	14
-	-			OW-1-49	61.5	32	15	-	-		
-	-			OW-1-50	61.0	36	15	-	-		

Comments: All Points set at 30 scfh

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	BID

Comments: All points set at 30 scfh

Notes:

Date: 10/26/20

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) NONE

3) Other major activities completed WIPED DOWN EQUIPMENT ADDED 2 QTS OIL

4) Supplies needed NONE,

5) Visitors NONE

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 O_2 Generator

1) Prefilter changed	Yes _____	No ✓
2) Coalescing changed	Yes _____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 11/23/20
Time: 0800
Weather: 50's, Rain
Inside Trailer Temperature: Operate
Performed By: George Holmer

O_2 Generator

Hours: 34424
Feed Air Pressure *: 140 (psi)
Cycle Pressure * (L / R) High: 70 / 74 (psi) Low: 2 / 4 (psi)
Oxygen Receiver Pressure *: 73 (psi)
Oxygen Receiver Tank Pressure (reading from blue tank): 115 (psi)
Oxygen Purity: 86.9 (percent)
* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: ~~130~~ 140 (psi)
Delivery Air: 139 (psi)
Element Outlet Temperature: 191 (°F)
Running Hours: 15992 (hours)
Loading Hours: 11062 (hours)
* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 15660.08 - Not operational

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-1	95.5	28	26	OW-1-8S	67.2	26	17	OW-1-9D	89.5	32	28
OW-1-2	90.5	Off		OW-1-9S	67.6	28	17	OW-1-10D	87.2	26	27
OW-1-3	98.8	30	30	OW-1-7S	66.9	26	16	OW-1-11D	88.1	28	29
OW-1-4	95.0	28	29	OW-1-8S	69.7	28	17	OW-1-12D	85.3	25	28
OW-1-5D	93.9	28	28	OW-1-9S	66.0	24	17	OW-1-13D	84.7	28	28
OW-1-6D	92.4	28	28	OW-1-10S	54.6	26	12	OW-1-14D	84.1	28	28
OW-1-7D	91.1	25	28	OW-1-11S	50.1	27	13	OW-1-15D	83.9	28	28
OW-1-8D	89.6	27	28	OW-1-12S	53.0	28	14	OW-1-16D	82.5	27	13

All Points set at 30 scfh

Comments:

Notes:

Date: 11/23/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi
OW-1-13S	53.1	26	13
OW-1-14S	52.7	25	14
OW-1-15S	52.2	25	12
OW-1-16SR	51.6	24	26
OW-1-17S	50.7	20	24
OW-1-18S	50.2	24	12
OW-1-19S	49.7	Off	
OW-1-20S	49.3	Off	

Injection Bank 5	Depth (ft)	scfh	psi
OW-1-17D	79.5	27	13
OW-1-18D	78.3	28	25
OW-1-19D	78.9	12	25
OW-1-20D	79.5	25	26
OW-1-21D	79.5	27	24
OW-1-22D	79.5	26	24
OW-1-23D	78.7	30	24
OW-1-24D	78.2	24	25

Injection Bank 6	Depth (ft)	scfh	psi
OW-1-21S	49.3	28	11
OW-1-22S	49.3	30	11
OW-1-23S	48.8	30	11
OW-1-24S	48.4	32	11
OW-1-25S	48.6	31	12
OW-1-26S	48.3	25	12
OW-1-27S	48.3	28	13
OW-1-28S	48.3	24	13

Comments: All Points set at 30 scfh

Injection Bank 7	Depth (ft)	scfh	psi
OW-1-25D	78.1	36	26
OW-1-26D	78.1	30	25
OW-1-27D	77.9	26	26
OW-1-28D	78.0	28	26
OW-1-29D	78.4	30	25
OW-1-30D	79.0	30	33
OW-1-31D	80.5	Off	
OW-1-32D	81.6	29	27

Injection Bank 8	Depth (ft)	scfh	psi
OW-1-29S	48.5	27	12
OW-1-30S	48.8	32	12
OW-1-31S	48.3	28	12
OW-1-32S	49.3	28	12
OW-1-33S	49.7	28	12
OW-1-34S	50.1	29	12
OW-1-35S	50.3	28	13
OW-1-36S	50.3	28	13

Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-33D	83.2	28	27
OW-1-34D	84.5	30	28
OW-1-35D	85.0	27	28
OW-1-36D	85.0	30	28
OW-1-37D	84.0	14	28
OW-1-38D	82.0	27	26
OW-1-39D	78.0	29	26
OW-1-40D	76.0	26	25

Comments: All points set at 30 scfh

Notes:

Date: 11/23/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	27	12	OW-1-41D	73.6	27	22	OW-1-43	67.4	26	19
OW-1-39S	50.6	25	12	OW-1-42D	71.0	28	20	OW-1-44	66.6	28	18
OW-1-38S	50.7	21	12	OW-1-45	65.7	25	18	OW-1-51R	60.6	28	17
OW-1-40S	51.1	27	13	OW-1-46	64.3	26	17	OW-1-52	59.3	26	15
OW-1-41S	51.5	26	13	OW-1-47	63.4	25	16	OW-1-53	60.0	28	16
OW-1-42S	51.3	28	13	OW-1-48	62.5	26	17	OW-1-54	60.0	30	15
-	-			OW-1-49	61.5	30	16	-	-		
-	-			OW-1-50	61.0	28	16	-	-		

Comments: All Points set at 30 scfh

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	BID

Comments: All points set at 30 scfh

Notes:

Date: 11/23/20

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) Yes X No ____

2) Abnormal conditions observed (e.g. vandalism) No

3) Other major activities completed Checked fire extinguisher.

4) Supplies needed None

5) Visitors MO

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes X No ____
   * Unload system, wait until Delivery Air Pressure is less than 8 psi

2) Oil Level with system unloaded
   Low (red) ____ Normal (green) X High (orange) ____

3) Oil added Yes ____ No X
4) Oil changed Yes ____ No X
5) Oil filter changed Yes ____ No X
6) Air filter Changed Yes ____ No X
7) Oil separator changed Yes ____ No X
8) Terminal strips checked Yes ____

AS-80 C. Generator

1) Prefilter changed Yes ____ No X
2) Coalescing changed Yes ____ No X

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 170289Z-30-1

Date: 12/30/20
Time: 0700
Weather: High 20s OF Cloudy
Inside Trailer Temperature: 60s OF Operable
Performed By: Greg Vonreman / Tom Johansen

O_2 Generator

Hours	35,063	
Feed Air Pressure *	160	(psi)
Cycle Pressure * (L / R) High:	68 / 72	(psi)
Cycle Pressure * (L / R) Low:	4 / 6	(psi)
Oxygen Receiver Pressure *	70	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	112.5	(psi)
Oxygen Purity	83.1	(percent)

* maximum reading during loading cycle

Compresser (Kaesar Rotary Screw)

Compressor Tank *	140	(psi)
Delivery Air	140	(psi)
Element Outlet Temperature	196	(°F)
Running Hours	16,878	(hours)
Loading Hours	11,677	(hours)

* maximum reading during loading cycle

Booster Pump (Powered)

Hours: 15,660.08 - Not Operational

Air Tank & Eco-Drain

Condensate Purged (Y) / N) Condensate Emptied (Y) / N)

Injection Bank 1	Depth (ft)	scfh	psi
OW-1-1	85.5	32	25
OW-1-2	90.5	~~30~~ 32	off
OW-1-3	98.3	28	30
OW-1-4	95.0	27	29
OW-1-5D	93.9	26	28
OW-1-6D	92.4	26	28
OW-1-7D	91.1	27	28
OW-1-8D	89.6	30	28

Injection Bank 2	Depth (ft)	scfh	psi
OW-1-6S	67.3	31	16
OW-1-8S	67.0	38	17
OW-1-7S	66.9	32	16
OW-1-9S	66.7	32	17
OW-1-5S	65.0	38	18
OW-1-10S	54.6	38	12
OW-1-11S	54.1	30	13
OW-1-12S	53.6	28	14

Injection Bank 3	Depth (ft)	scfh	psi
OW-1-9D	63.5	36	28
OW-1-10D	97.2	31	27
OW-1-11D	96.1	33	28
OW-1-12D	95.3	44	26
OW-1-13D	84.7	28	28
OW-1-14D	84.1	35	28
OW-1-15D	83.9	35	28
OW-1-16D	82.5	28	13

Comments: All Points set at 30 scfh

Notes: Oil filter alarm on Compressor 11/15

Date: 12/30/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi
OW-1-13S	53.1	29	12
OW-1-14S	52.7	32	13
OW-1-15S	52.2	31	12
OW-1-15SR	51.8	33	26
OW-1-17S	50.7	40	24
OW-1-16S	50.2	27	11
OW-1-19S	49.7	Point	Off
OW-1-20S	49.3	Point	Off

Injection Bank 5	Depth (ft)	scfh	psi
OW-1-17D	79.5	40	12
OW-1-18D	78.9	33	25
OW-1-19D	78.9	54	25
OW-1-20D	78.5	29	26
OW-1-21D	79.5	32	24
OW-1-22D	79.5	38	24
OW-1-23D	78.7	40	24
OW-1-24D	78.2	30	25

Injection Bank 6	Depth (ft)	scfh	psi
OW-1-21S	49.3	34	10
OW-1-22S	49.3	28	10
OW-1-23S	48.8	33	10
OW-1-24S	49.4	38	10
OW-1-25S	48.8	37	12
OW-1-26S	48.3	35	12
OW-1-27S	48.3	30	12
OW-1-28S	49.3	56	13

Comments: All Points set at 30 scfh

Injection Bank 7	Depth (ft)	scfh	psi
OW-1-25D	78.1	40	26
OW-1-26D	78.1	34	26
OW-1-27D	77.9	34	26
OW-1-28D	78.0	31	25
OW-1-29D	78.4	38	25
OW-1-30D	78.0	28	34
OW-1-31D	80.5	Point	Off
OW-1-32D	81.5	32	27

Injection Bank 8	Depth (ft)	scfh	psi
OW-1-29S	48.5	36	12
OW-1-30S	48.8	33	12
OW-1-31S	49.3	26	12
OW-1-32S	49.3	30	12
OW-1-33S	49.7	30	12
OW-1-34S	50.1	36	12
OW-1-35S	50.3	34	13
OW-1-36S	50.3	30	12

Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-33D	83.2	28	28
OW-1-34D	84.5	31	28
OW-1-35D	85.0	34	28
OW-1-36D	85.0	42	28
OW-1-37D	84.0	34	28
OW-1-38D	82.0	24	26
OW-1-39D	78.0	30	26
OW-1-40D	76.0	33	25

Comments: All points set at 30 scfh

Notes: Bank 4 IP ow-1-18S pressure gauge missing glass covering

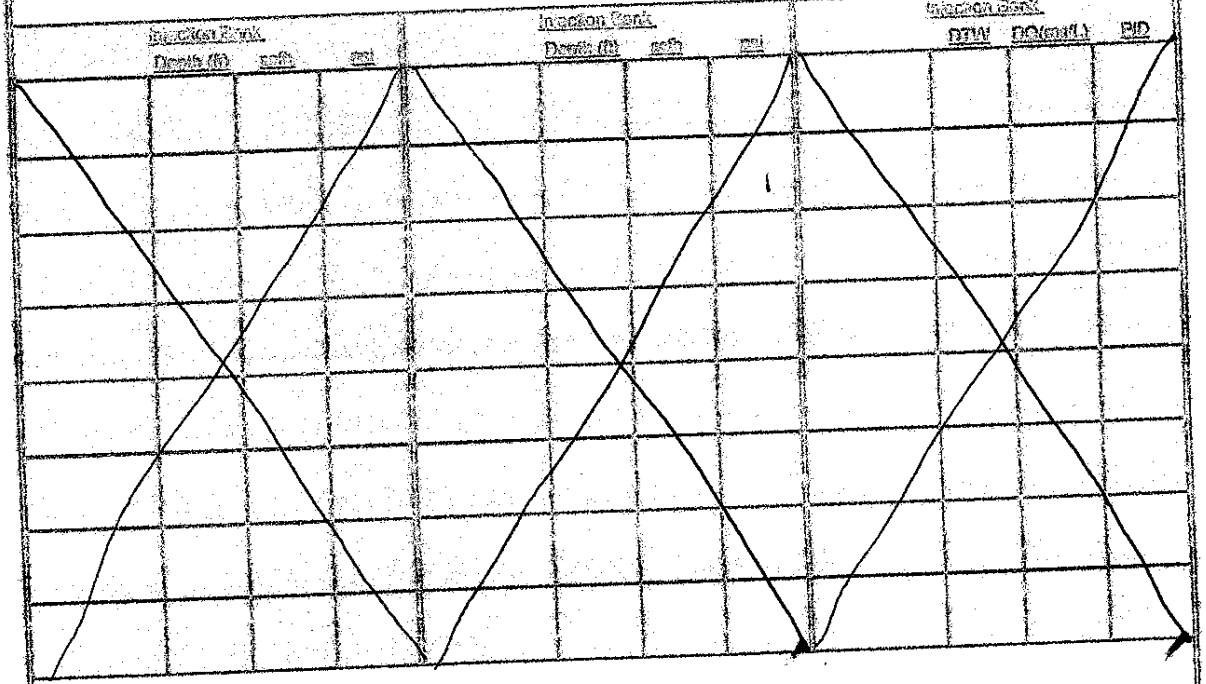
Date: 12/30/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	29	12	OW-1-41D	73.6	37	22	OW-1-43	67.4	40	19
OW-1-38S	50.6	36	12	OW-1-42D	71.0	33	20	OW-1-44	66.6	29	18
OW-1-39S	50.7	36	12	OW-1-45	65.7	37	18	OW-1-51R	60.6	26	16
OW-1-40S	51.1	31	13	OW-1-46	64.3	28	17	OW-1-52	59.3	34	15
OW-1-41S	51.5	26	13	OW-1-47	63.4	38	17	OW-1-53	60.0	38	16
OW-1-42S	51.3	30	13	OW-1-48	62.5	28	18	OW-1-54	60.6	34	15
-	-			OW-1-49	61.5	29	16	-	-		
-	-			OW-1-50	61.0	27	16	-	-		

Comments: All Points set at 30 scfh

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID



Comments: All points set at 30 scfh

Notes:

Date: 12/30/20

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) Oil/water from oil water separator spray out from the container it is connected to - hole in the container's lid

3) Other major activities completed Checked fire extinguisher

4) Supplies needed Absorbent pads, gloves, all-purpose cleaner for surfaces

5) Visitors Tom Johansen

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____
* Unload system, wait until Delivery Air Pressure is less than 8 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 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

158 Hilton Ave. Hempstead, NY
Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 10/26/20
Time: 0700
Weather: 50s °F Cloudy
Inside Trailer Temperature: Operable 60s°F
Performed By: Gregory Vouzonas

O_2 Generator

Hours	58,077	
Feed Air Pressure *	122	(psi)
Cycle Pressure * (L / R) High:	60 | 62	(psi)
Cycle Pressure * (L / R) Low:	0 | 0	(psi)
Oxygen Receiver Pressure *	59	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	130	(psi)
Oxygen Purity	@5 70.9 @ 80.8	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	110	(psi)
Delivery Air	110	(psi)
Element Outlet Temperature	@ ~~167~~ 174	(°F)
Running Hours	66,955	(hours)
Loading Hours	58,069	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 999.99 - needs replacement

Air Tank & Eco-Drain

Condensate Purged (Y) N) Condensate Emptied ((Y) N)

Injection Bank 1	Depth (ft)	scfh	psi
OW-2-2	90.2	37	28.0
OW-2-3	94.3	38	27.0
OW-2-4	94.7	37	28.5
OW-2-5	95.3	29	29.0
OW-2-6	95.7	30	30.0
OW-2-7	96.0	26	29.0
OW-2-8	96.3	30	29.0
OW-2-9D	96.7	29	29.5

Injection Bank 2	Depth (ft)	scfh	psi
OW-2-9S	75.0	27	19.0
OW-2-10S	75.0	32	30.0
OW-2-11S	76.5	25	10.0
OW-2-13S	75.0	30	18.5
OW-2-15S	75.0	26	18.0
OW-2-16S	75.5	26	19.0
OW-2-18S	74.5	25	18.5
OW-2-20S	79.0	26	20.5

Injection Bank 3	Depth (ft)	scfh	psi
OW-2-10D	97.2	29	27.0
OW-2-11D	100.8	28	32.0
OW-2-12	94.0	24	18.5
OW-2-13D	97.0	Point Off	Point Off
OW-2-14	96.4	28	28.0
OW-2-15D	94.6	27	29.0
OW-2-16D	94.1	26	25.5
OW-2-17	95.0	28	28.0

Comments: **All Points set at 30 scfh**

Notes: 70.9% - First oxygen purity reading
80.8% - Second oxygen purity reading

Date: 10/26/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank 4	Depth (ft)	scfh	psi	Injection Bank 5	Depth (ft)	scfh	psi	Injection Bank 6	Depth (ft)	scfh	psi
OW-2-18D	95.5	30	28.5	OW-2-22S	76.0	16	19.5	OW-2-26D	95.0	27	31.0
OW-2-19	96.1	30	28.5	OW-2-24S	77.8	12	22.0	OW-2-27	93.5	34	27.5
OW-2-20D	96.6	22	6.0	OW-2-26S	74.0	17	18.5	OW-2-28D	92.1	10	26.0
OW-2-21	96.6	29	27.0	OW-2-28S	76.0	15	20.0	OW-2-29	92.2	34	27.0
OW-2-22D	96.3	26	26.5	OW-2-30S	67.8	14	16.0	OW-2-30D	88.0	17	25.0
OW-2-23	97.2	POINT	OFF	OW-2-34	71.0	10	19.0	OW-2-31	86.0	27	25.0
OW-2-24D	97.0	POINT	OFF	OW-2-35	69.2	12	20.0	OW-2-32	84.0	18	24.0
OW-2-25	96.0	Point	Off	OW-2-36	64.8	22	17.0	OW-2-33	82.0	28	24.5

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi	Injection Bank 8	Depth (ft)	scfh	psi				
OW-2-37	62.8	10	19.0	OW-2-45	61.1	22	19.0				
OW-2-38	62.1	10	18.0	OW-2-46	61.0	24	18.5				
OW-2-39	60.0	10	17.0	OW-2-47	60.5	21	18.5				
OW-2-40	61.7	POINT	OFF	-	-						
OW-2-241	61.7	10	18.5	-	-						
OW-2-42	61.6	10	18.5	-	-						
OW-2-43	61.4	POINT	OFF	-	-			-	-	-	-
OW-2-44R	60.6	10	18.0	-	-			-	-	-	-

Comments: **All points set at 30 scfh**

Notes:

Date: 10/26/20

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) Ball valve on low pressure oxygen tank closed, ~40 psi in oxygen receiver tank

3) Other major activities completed Wiped down surfaces

4) Supplies needed None.

5) Visitors None.

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 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

158 Hilton Ave. Hempstead, NY
Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702697-30-1

Date: 11/23/20
Time: 0800
Weather: RAW 60's
Inside Trailer Temperature: OPERABLE
Performed By: MIKE Quinlan

O_2 Generator

Hours: 58732
Feed Air Pressure *: 110 (psi)
Cycle Pressure * (L / R) High: 60 | 62 (psi)
Low: 0 | 0 (psi)
Oxygen Receiver Pressure *: 60 (psi)
Oxygen Receiver Tank Pressure (reading from blue tank): 125 (psi)
Oxygen Purity: 84.4 (percent)
* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: 110 (psi)
Delivery Air: 115 (psi)
Element Outlet Temperature: 167 (°F)
Running Hours: 67630 (hours)
Loading Hours: 58691 (hours)
* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 999.99
Counter needs to be replaced.

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-2-2	90.2	32	29	OW-2-9S	75.0	32	~~19~~	OW-2-10D	97.2	32	26.5
OW-2-3	94.3	36	26	OW-2-10S	75.0	34	30	OW-2-11D	100.8	38	31
OW-2-4	94.7	28	23	OW-2-11S	76.5	36	8	OW-2-12	94.0	38	~~28.5~~ 28.5
OW-2-5	95.3	30	29	OW-2-13S	75.0	30	18	OW-2-13D	97.0	PUMP	OFF
OW-2-6	95.7	28	30	OW-2-15S	75.0	36	18	OW-2-14	96.4	32	28
OW-2-7	96.0	34	29	OW-2-16S	75.5	36	18.5	OW-2-15D	94.6	32	29
OW-2-8	96.3	32	29	OW-2-18S	74.5	36	18	OW-2-16D	94.1	34	26
OW-2-9D	96.7	34	29	OW-2-20S	79.0	38	20.5	OW-2-17	95.0	32	28

All Points set at 30 scfh

Comments:

Notes:

Date: 11/23/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank 4	Depth (ft)	scfh	psi
OW-2-18D	95.5	30	29
OW-2-19	96.1	36	28.5
OW-2-20D	96.6	38	6
OW-2-21	96.6	34	27
OW-2-22D	96.3	30	27
OW-2-23	97.2	POINT	OFF
OW-2-24D	97.0	POINT	OFF
OW-2-25	96.0	POINT	OFF

Injection Bank 5	Depth (ft)	scfh	psi
OW-2-22S	76.0	44	19
OW-2-24S	77.8	36	23
OW-2-26S	74.0	38	18.5
OW-2-28S	76.0	40	20
OW-2-30S	67.8	40	16
OW-2-34	71.0	42	19
OW-2-35	69.2	40	21
OW-2-36	64.8	34	17.5

Injection Bank 6	Depth (ft)	scfh	psi
OW-2-26D	95.0	26	31
OW-2-27	93.5	34	27.5
OW-2-28D	92.1	28	26
OW-2-29	92.2	34	27
OW-2-30D	88.0	40	25
OW-2-31	86.0	34	25
OW-2-32	84.0	46	24
OW-2-33	82.0	32	24.5

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi
OW-2-37	62.6	38	19
OW-2-38	62.1	36	19
OW-2-39	60.0	58	18
OW-2-40	61.7	POINT	OFF
OW-2-241	61.7	42	19
OW-2-42	61.6	44	18.5
OW-2-43	61.4	POINT	OFF
OW-2-44R	60.6	66	19

Injection Bank 8	Depth (ft)	scfh	psi
OW-2-45	61.1	38	20
OW-2-46	61.0	32	18
OW-2-47	60.5	36	19
-	-		
-	-		
-	-		
-	-		
-	-		

Comments: **All points set at 30 scfh**

Notes:

Date:

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 _____

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 O_2 Generator

1) Prefilter changed Yes _____ No _____
2) Coalescing changed Yes _____ No _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

158 Hilton Ave. Hempstead, NY
Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 12/14/20
Time: 0820
Weather: 40s, Rain
Inside Trailer Temperature: Warm, operational
Performed By: C. Hayes

O_2 Generator

Hours: 59,236
Feed Air Pressure *: 107 (psi)
Cycle Pressure * (L / R) High: 59 | 61 (psi)
Low: 0 | 0 (psi)
Oxygen Receiver Pressure *: 59 (psi)
Oxygen Receiver Tank Pressure (reading from blue tank): 100 (psi)
Oxygen Purity: 82.0 (percent)
* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: 107 (psi)
Delivery Air: 110 (psi)
Element Outlet Temperature: 171 (°F)
Running Hours: 68,133 (hours)
Loading Hours: 59,154 (hours)
* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 999.99 * Counter needs to be replaced *

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1	Depth (ft)	scfh	psi	Injection Bank 2	Depth (ft)	scfh	psi	Injection Bank 3	Depth (ft)	scfh	psi
OW-2-2	90.2	28	30.0	OW-2-9S	75.0	26	20.0	OW-2-10D	97.2	26	27.0
OW-2-3	94.3	29	23.5	OW-2-10S	75.0	28	30.0	OW-2-11D	100.8	35	32.0
OW-2-4	94.7	25	35.0	OW-2-11S	78.5	25	7.5	OW-2-12	94.0	24	19.0
OW-2-5	95.3	26	29.0	OW-2-13S	75.0	29	18.5	OW-2-13D	97.0	Point	OFF
OW-2-6	95.7	27	30.0	OW-2-15S	75.0	25	18.5	OW-2-14	96.4	27	28.0
OW-2-7	96.0	26	29.0	OW-2-16S	75.5	25	19.0	OW-2-15D	94.6	28	30.0
OW-2-8	96.3	26	29.5	OW-2-18S	74.5	23	18.5	OW-2-16D	94.1	24	26.5
OW-2-9D	96.7	29	29.0	OW-2-20S	79.0	24	20.5	OW-2-17	95.0	24	28.5

All Points set at 30 scfh

Comments:

Notes:

Date: 12/14/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank 4	Depth (ft)	scfh	psi
OW-2-18D	95.5	24	29.0
OW-2-19	96.1	23	29.0
OW-2-20D	96.6	25	5.0
OW-2-21	96.6	26	27.5
OW-2-22D	96.3	32	27.0
OW-2-23	97.2	POINT	OFF
OW-2-24D	97.0	POINT	OFF
OW-2-25	96.0	Point	OFF

Injection Bank 5	Depth (ft)	scfh	psi
OW-2-22S	76.0	33	19.5
OW-2-24S	77.6	27	24.0
OW-2-26S	74.0	30	19.0
OW-2-28S	76.0	28	20.0
OW-2-30S	67.8	27	16.0
OW-2-34	71.0	28	19.0
OW-2-35	69.2	27	21.0
OW-2-36	64.8	30	17.5

Injection Bank 6	Depth (ft)	scfh	psi
OW-2-26D	95.0	25	32.0
OW-2-27	93.5	28	28.0
OW-2-28D	92.1	28	27.0
OW-2-29	92.2	29	27.5
OW-2-30D	88.0	27	25.5
OW-2-31	86.0	27	26.0
OW-2-32	84.0	26	24.0
OW-2-33	82.0	29	25.0

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi
OW-2-37	62.8	30	19.5
OW-2-38	62.1	28	19.0
OW-2-39	60.0	32	17.5
OW-2-40	61.7	POINT	OFF
OW-2-241	61.7	32	19.0
OW-2-42	61.6	27	19.0
OW-2-43	61.4	POINT	OFF
OW-2-44R	60.6	29	19.0

Injection Bank 8	Depth (ft)	scfh	psi
OW-2-45	61.1	32	19.5
OW-2-46	61.0	32	18.5
OW-2-47	60.5	30	19.0
-	-		
-	-		
-	-		
-	-		
-	-		

-	-	-	-
-	-	-	-

Comments: **All points set at 30 scfh**

Notes:

Date: 12/14/20

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) None

3) Other major activities completed Checked Fire Extinguisher (Good)

4) Supplies needed None

5) Visitors None

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 _____

AS-80 O_2 Generator

1) Prefilter changed Yes _____ No ✓
2) Coalescing changed Yes _____ No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 4/24/20
Time: 0700
Weather: RAIN 40's, OVERCAST
Inside Trailer Temperature: OPERABLE
Performed By: MIKE QUINLAN

O_2 Generator

Hours	30910		
Feed Air Pressure *	140	(psi)	
Cycle Pressure * (L / R) High:	70 / 72	(psi)	
Low:	2 / 4	(psi)	
Oxygen Receiver Pressure *	72	(psi)	
Oxygen Receiver Tank Pressure (reading from blue tank)	115	(psi)	
Oxygen Purity	84.0	(percent)	

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	140	(psi)
Delivery Air	140	(psi)
Element Outlet Temperature	193	(°F)
Running Hours	11393	(hours)
Loading Hours	7950	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 15660.06 - Non operational

Air Tank & Eco-Drain

Condensate Purged (Y) / N) Condensate Emptied (Y) / N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-1	95.5	28	26	OW-1-5S	67.3	60	18	OW-1-9D	86.5	32	~~28~~ 27
OW-1-2	96.5	PUMP	OFF	OW-1-6S	67.0	48	18	OW-1-10D	87.2	28	~~28~~ 27
OW-1-3	96.3	32	30	OW-1-7S	66.9	42	17	OW-1-11D	86.1	32	29
OW-1-4	95.0	26	30	OW-1-8S	66.7	30	18	OW-1-12D	85.3	28	28
OW-1-5D	93.9	36	29	OW-1-9S	66.0	30	18	OW-1-13D	84.7	30	28
OW-1-6D	92.4	28	29	OW-1-10S	54.6	28	13	OW-1-14D	84.1	32	28
OW-1-7D	91.1	30	28	OW-1-11S	54.1	30	14	OW-1-15D	83.3	36	28
OW-1-8D	89.6	30	29	OW-1-12S	53.6	38	15	OW-1-16D	82.5	28	13

Comments: **All Points set at 30 scfh**

Notes:

Date: 4/24/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi
OW-1-13S	53.1	28	13
OW-1-14S	52.7	24	14
OW-1-15S	52.2	30	13
OW-1-16SR	51.6	30	26
OW-1-17S	50.7	26	24
OW-1-18S	50.2	30	12
OW-1-19S	49.7	POINT	OFF
OW-1-20S	49.3	POINT	OFF

Injection Bank 5	Depth (ft)	scfh	psi
OW-1-17D	79.5	36	13
OW-1-18D	78.3	30	26
OW-1-19D	78.9	38	26
OW-1-20D	79.5	36	26
OW-1-21D	79.5	~~34~~ 34	25
OW-1-22D	79.5	40	24
OW-1-23D	78.7	34	25
OW-1-24D	78.2	32	26

Injection Bank 6	Depth (ft)	scfh	psi
OW-1-21S	49.3	34	11
OW-1-22S	49.3	28	11
OW-1-23S	48.8	38	11
OW-1-24S	48.4	~~32~~ 32	~~12~~ 11
OW-1-25S	48.8	34	12
OW-1-26S	48.3	34	13
OW-1-27S	48.3	38	13
OW-1-28S	48.3	30	13

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi
OW-1-25D	78.1	34	26
OW-1-26D	78.1	36	26
OW-1-27D	77.9	32	27
OW-1-28D	78.0	30	26
OW-1-29D	78.4	34	26
OW-1-30D	79.0	22 ~~30~~ 31	
OW-1-31D	80.5	POINT	OFF
OW-1-32D	81.6	31	28

Injection Bank 8	Depth (ft)	scfh	psi
OW-1-29S	48.5	36	12
OW-1-30S	48.8	34	13
OW-1-31S	49.3	30	13
OW-1-32S	49.3	28	12
OW-1-33S	49.7	32	13
OW-1-34S	50.1	32	12
OW-1-35S	50.3	32	13
OW-1-36S	50.3	38	13

Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-33D	83.2	30	28
OW-1-34D	84.5	32	29
OW-1-35D	85.0	32	28
OW-1-36D	85.0	38	29
OW-1-37D	84.0	38	28
OW-1-38D	82.0	28	27
OW-1-39D	78.0	28	26
OW-1-40D	76.0	36	26

Comments: **All points set at 30 scfh**

Notes:

Date: 4/24/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	30	12	OW-1-41D	73.6	34	22	OW-1-43	67.4	32	20
OW-1-38S	50.6	38	13	OW-1-42D	71.0	30	20	OW-1-44	66.6	32	18
OW-1-39S	50.7	30	12	OW-1-45	65.7	30	19	OW-1-51R	60.6	34	16
OW-1-40S	51.1	34	14	OW-1-46	64.3	32	18	OW-1-52	59.3	34	16
OW-1-41S	51.5	40	14	OW-1-47	63.4	38	17	OW-1-53	60.0	30	16
OW-1-42S	51.3	32	13	OW-1-48	62.5	30	18	OW-1-54	60.0	30	16
-	-			OW-1-49	61.5	28	16	-	-		
-	-			OW-1-50	61.0	28	16	-	-		

Comments: **All Points set at 30 scfh**

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID

Comments: **All points set at 30 scfh**

Notes:

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 5/15/20
Time: 0800
Weather: 60's, P Cloudy
Inside Trailer Temperature: OPERABLE
Performed By: MIKE QUINLAN

O_2 Generator

Hours: 31254

Feed Air Pressure *: 137 (psi)

Cycle Pressure * (L / R) — High: 70 | 72 (psi); Low: 0 | 2 (psi)

Oxygen Receiver Pressure *: 72 (psi)

Oxygen Receiver Tank Pressure (reading from blue tank): 112 (psi)

Oxygen Purity: 86.9 (percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: 137 (psi)

Delivery Air: 140 (psi)

Element Outlet Temperature: 190 (°F)

Running Hours: 11767 (hours)

Loading Hours: 8199 (hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 15660.08 Non operational

Air Tank & Eco-Drain

Condensate Purged (Y) / N) Condensate Emptied (Y) / N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-1	95.5	30	26	OW-1-6S	67.3	36	18	OW-1-9D	86.5	34	28
OW-1-2	96.5	POINT	OFF	OW-1-6S	67.0	22	18	OW-1-10D	87.2	30	27
OW-1-3	96.3	32	30	OW-1-7S	66.9	30	17	OW-1-11D	86.1	32	29
OW-1-4	95.0	32	30	OW-1-8S	66.7	34	18	OW-1-12D	85.3	36	28
OW-1-5D	93.9	38	29	OW-1-9S	66.0	34	18	OW-1-13D	84.7	30	28
OW-1-6D	92.4	34	29	OW-1-10S	54.6	30	13	OW-1-14D	84.1	30	28
OW-1-7D	91.1	30	28	OW-1-11S	54.1	34	14	OW-1-15D	83.3	32	28
OW-1-8D	89.6	32	29	OW-1-12S	53.6	40	15	OW-1-16D	82.5	26	14

Comments: **All Points set at 30 scfh**

Notes: ZONE 1 = BANKS 1-3
ZONE 2 = BANKS #2-4

Date: 5/15/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi
OW-1-13S	53.1	32	13
OW-1-14S	52.7	32	14
OW-1-15S	52.2	30	13
OW-1-16SR	51.6	32	26
OW-1-17S	50.7	34	24
OW-1-18S	50.2	34	12
OW-1-19S	49.7	POINT	OFF
OW-1-20S	49.3	POINT	OFF

Injection Bank 5	Depth (ft)	scfh	psi
OW-1-17D	79.5	20	13
OW-1-18D	78.3	30	26
OW-1-19D	78.9	40	26
OW-1-20D	79.5	32	26
OW-1-21D	79.5	32	25
OW-1-22D	79.5	28	24
OW-1-23D	78.7	36	24
OW-1-24D	78.2	30	26

Injection Bank 6	Depth (ft)	scfh	psi
OW-1-21S	49.3	30	11
OW-1-22S	49.3	28	11
OW-1-23S	48.8	32	11
OW-1-24S	48.4	32	11
OW-1-25S	48.8	30	12
OW-1-26S	48.3	30	13
OW-1-27S	48.3	32	13
OW-1-28S	48.3	28	13

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi
OW-1-25D	78.1	30	26
OW-1-26D	78.1	12	26
OW-1-27D	77.9	16	27
OW-1-28D	78.0	28	26
OW-1-29D	78.4	26	26
OW-1-30D	79.0	26	31
OW-1-31D	80.5	POINT	OFF
OW-1-32D	81.6	26	28

Injection Bank 8	Depth (ft)	scfh	psi
OW-1-29S	48.5	28	12
OW-1-30S	48.8	28	13
OW-1-31S	49.3	28	13
OW-1-32S	49.3	26	12
OW-1-33S	49.7	24	13
OW-1-34S	50.1	24	12
OW-1-35S	50.3	26	13
OW-1-36S	50.3	50	13

Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-33D	83.2	30	28
OW-1-34D	84.5	32	29
OW-1-35D	85.0	32	28
OW-1-36D	85.0	36	29
OW-1-37D	84.0	22	28
OW-1-38D	82.0	30	27
OW-1-39D	78.0	32	26
OW-1-40D	76.0	34	26

Comments: **All points set at 30 scfh**

Notes: ZONE 5 = 9+10 BANKS

ZONE 4 = 7+8 BANKS

Date: 5/15/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	32	12	OW-1-41D	73.6	36	22	OW-1-43	67.4	34	20
OW-1-38S	50.6	30	13	OW-1-42D	71.0	30	20	OW-1-44	66.6	28	18
OW-1-39S	50.7	28	12	OW-1-45	65.7	30	19	OW-1-51R	60.6	32	16
OW-1-40S	51.1	30	14	OW-1-46	64.3	32	18	OW-1-52	59.3	32	16
OW-1-41S	51.5	34	14	OW-1-47	63.4	28	17	OW-1-53	60.0	28	16
OW-1-42S	51.3	30	13	OW-1-48	62.5	28	18	OW-1-54	60.0	36	16
-	-			OW-1-49	61.5	28	16	-	-		
-	-			OW-1-50	61.0	28	16	-	-		

Comments: **All Points set at 30 scfh**

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID

Comments: **All points set at 30 scfh**

Notes: ZONE 5 = Banks 9-10

ZONE 6 = Banks 11-12

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 6/17/20
Time: 0800
Weather: 60's, SUNNY
Inside Trailer Temperature: OPERABLE
Performed By: MIKE QUINLAN

O_2 Generator

Hours	31808	
Feed Air Pressure *	135	(psi)
Cycle Pressure * (L / R) High:	70 / 72	(psi)
Cycle Pressure * (L / R) Low:	0 / 5	(psi)
Oxygen Receiver Pressure *	110	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	115	(psi)
Oxygen Purity	90.7	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	135	(psi)
Delivery Air	140	(psi)
Element Outlet Temperature	189	(°F)
Running Hours	12372	(hours)
Loading Hours	863	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 15660.08 - NON OPERATIONAL

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-1	95.5	26	26	OW-1-9S	67.3	2	18	OW-1-9D	88.5	36	28
OW-1-2	96.5	POINT	OFF	OW-1-8S	67.0	40	18	OW-1-10D	87.2	34	27
OW-1-3	96.3	32	30	OW-1-7S	66.9	28	17	OW-1-11D	86.1	36	29
OW-1-4	95.0	28	30	OW-1-6S	66.7	34	18	OW-1-12D	85.3	42	28
OW-1-5D	93.9	42	29	OW-1-5S	66.0	34	18	OW-1-13D	84.7	32	28
OW-1-6D	92.4	32	29	OW-1-10S	54.6	30	13	OW-1-14D	84.1	36	28
OW-1-7D	91.1	44	28	OW-1-11S	54.1	30	14	OW-1-15D	83.3	40	28
OW-1-8D	89.6	34	28	OW-1-12S	53.6	32	15	OW-1-16D	82.5	28	14

Comments: **All Points set at 30 scfh**

Notes:

Date: 6/17/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi	Injection Bank 5	Depth (ft)	scfh	psi	Injection Bank 6	Depth (ft)	scfh	psi
OW-1-13S	53.1	30	13	OW-1-17D	79.5	36	13	OW-1-21S	49.3	38	11
OW-1-14S	52.7	30	14	OW-1-18D	78.3	30	25	OW-1-22S	49.3	34	11
OW-1-15S	52.2	28	13	OW-1-19D	78.9	32	26	OW-1-23S	48.8	32	11
OW-1-16SR	51.8	28	26	OW-1-20D	79.5	38	26	OW-1-24S	48.4	32	11
OW-1-17S	50.7	26	24	OW-1-21D	79.5	36	25	OW-1-25S	48.8	30	12
OW-1-18S	50.2	32	12	OW-1-22D	79.5	28	24	OW-1-26S	48.3	32	13
OW-1-19S	49.7	POINT	OFF	OW-1-23D	78.7	44	24	OW-1-27S	48.3	30	13
OW-1-20S	49.3	POINT	OFF	OW-1-24D	78.2	40	26	OW-1-28S	48.3	30	13
Comments:	16SR + 17S			All Points set at 30 scfh							

Injection Bank 7	Depth (ft)	scfh	psi	Injection Bank 8	Depth (ft)	scfh	psi	Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-25D	78.1	36	26	OW-1-29S	48.5	34	12	OW-1-33D	83.2	32	28
OW-1-26D	78.1	34	26	OW-1-30S	48.8	34	13	OW-1-34D	84.5	32	29
OW-1-27D	77.9	42	27	OW-1-31S	49.3	30	13	OW-1-35D	85.0	30	28
OW-1-28D	78.0	32	26	OW-1-32S	49.3	36	12	OW-1-36D	85.0	38	29
OW-1-29D	78.4	36	26	OW-1-33S	49.7	44	13	OW-1-37D	84.0	36	28
OW-1-30D	79.0	30	32	OW-1-34S	50.1	32	12	OW-1-38D	82.0	30	27
OW-1-31D	80.5	POINT	OFF	OW-1-35S	50.3	46	13	OW-1-39D	78.0	34	26
OW-1-32D	81.6	36	28	OW-1-36S	50.3	40	13	OW-1-40D	76.0	30	26
Comments:				All points set at 30 scfh							

Notes:

Date: 6/17/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	46	12	OW-1-41D	73.6	32	22	OW-1-43	67.4	38	19
OW-1-38S	50.6	32	13	OW-1-42D	71.0	28	20	OW-1-44	66.6	30	18
OW-1-39S	50.7	26	12	OW-1-45	65.7	32	18	OW-1-51R	60.6	28	16
OW-1-40S	51.1	30	14 ~~13~~	OW-1-46	64.3	30	17	OW-1-52	59.3	36	16
OW-1-41S	51.5	32	14	OW-1-47	63.4	38	17	OW-1-53	60.0	34	16
OW-1-42S	51.3	34	13	OW-1-48	62.5	30	18	OW-1-54	60.0	36	16
-	-			OW-1-49	61.5	28	16	-	-		
-	-			OW-1-50	61.0	28	16	-	-		

Comments: **All Points set at 30 scfh**

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID

Comments: **All points set at 30 scfh**

Notes:

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

158 Hilton Ave. Hempstead, NY
Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 4/24/20
Time: 0700
Weather: 40 rain
Inside Trailer Temperature: Operable
Performed By: Matt Combs

O_2 Generator

Hours	54172		
Feed Air Pressure *	110 (psi)		
Cycle Pressure * (L / R)	High: 66 / 68 (psi)		
	Low: 0 / 0 (psi)		
Oxygen Receiver Pressure *	64 (psi)		
Oxygen Receiver Tank Pressure (reading from blue tank)	128 (psi)		
Oxygen Purity	87.8 (percent)		

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	110	(psi)
Delivery Air	110	(psi)
Element Outlet Temperature	178	(°F)
Running Hours	63045	(hours)
Loading Hours	54351	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1	Depth (ft)	scfh	psi	Injection Bank 2	Depth (ft)	scfh	psi	Injection Bank 3	Depth (ft)	scfh	psi
OW-2-2	90.2	26	31.0	OW-2-9S	75.0	28	20.0	OW-2-10D	97.2	26	27.5
OW-2-3	94.3	26	20.0	OW-2-10S	75.0	28	31.5	OW-2-11D	100.8	28	32.5
OW-2-4	94.7	26	38.0	OW-2-11S	76.5	28	10.5	OW-2-12	94.0	25	19.0
OW-2-5	95.3	28	30.0	OW-2-13S	75.0	28	19.0	OW-2-13D	97.0	OFF	
OW-2-6	95.7	28	31.0	OW-2-15S	75.0	27	19.0	OW-2-14	96.4	36	28.5
OW-2-7	96.0	28	30.5	OW-2-16S	75.5	26	19.5	OW-2-15D	94.6	33	30.0
OW-2-8	96.3	28	30.0	OW-2-18S	74.5	26	19.0	OW-2-16D	94.1	31	26.0
OW-2-9D	96.7	28	30.0	OW-2-20S	79.0	24	21.0	OW-2-17	95.0	26	29.0

Comments: **All Points set at 30 scfh**

Notes:

Date: 4/24/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank 4	Depth (ft)	scfh	psi	Injection Bank 5	Depth (ft)	scfh	psi	Injection Bank 6	Depth (ft)	scfh	psi
OW-2-18D	95.5	31	30.0	OW-2-22S	76.0	30	20.0	OW-2-26D	95.0	28	31.5
OW-2-19	96.1	25	30.0	OW-2-24S	77.8	26	23.0	OW-2-27	93.5	26	28.5
OW-2-20D	96.6	27	6.0	OW-2-26S	74.0	27	19.5	OW-2-28D	92.1	26	27.0
OW-2-21	96.6	28	28.0	OW-2-28S	76.0	28	21.0	OW-2-29	92.2	24	28.0
OW-2-22D	96.3	28	27.5	OW-2-30S	67.8	26	17.0	OW-2-30D	88.0	25	26.0
OW-2-23	97.2	POINT	OFF	OW-2-34	71.0	26	20.0	OW-2-31	86.0	25	26.5
OW-2-24D	97.0	POINT	OFF	OW-2-35	69.2	26	21.0	OW-2-32	84.0	25	24.5
OW-2-25	96.0	28	7.0	OW-2-36	64.8	27	18.0	OW-2-33	82.0	28	26.0

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi	Injection Bank 8	Depth (ft)	scfh	psi
OW-2-37	62.8	28	20.0	OW-2-45	61.1	30	20.0
OW-2-38	62.1	30	19.0	OW-2-46	61.0	30	19.5
OW-2-39	60.0	29	18.0	OW-2-47	60.5	34	20.0
OW-2-40	61.7	POINT	OFF	-	-		
OW-2-241	61.7	28	19.5	-	-		
OW-2-42	61.6	28	20.0	-	-		
OW-2-43	61.4	POINT	OFF	-	-		
OW-2-44R	60.6	29	20.0	-	-		

Comments: **All points set at 30 scfh**

Notes:

Date 4/24/20

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) None

3) Other major activities completed 0,1 added to Compressor

4) Supplies needed None

5) Visitors None - Main system !

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 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 5/15/20
Time: 0720
Weather: 60 clouds
Inside Trailer Temperature: operable
Performed By: Matt Corrado

O_2 Generator

Hours	54673	
Feed Air Pressure *	110	(psi)
Cycle Pressure * (L / R) High:	66 / 169	(psi)
Low:	1 / 2	(psi)
Oxygen Receiver Pressure *	64	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	129	(psi)
Oxygen Purity	88.7	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	110	(psi)
Delivery Air	110	(psi)
Element Outlet Temperature	172	(°F)
Running Hours	63546	(hours)
Loading Hours	54850	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y/N): Y (circled) Condensate Emptied (Y/N): Y (circled)

Injection Bank A	Depth (ft)	scfh	psi	Injection Bank B	Depth (ft)	scfh	psi	Injection Bank C	Depth (ft)	scfh	psi
OW-2-2	90.2	31	31.0	OW-2-9S	75.0	30	20.0	OW-2-10D	97.2	29	27.5
OW-2-3	94.3	26	27.5	OW-2-10S	75.0	29	31.0	OW-2-11D	100.8	29	33.0
OW-2-4	94.7	30	38.0	OW-2-11S	76.5	30	10.5	OW-2-12	94.0	29	19.0
OW-2-5	95.3	32	20.0	OW-2-13S	75.0	29	19.0	OW-2-13D	97.0	OFF	
OW-2-6	95.7	31	31.0	OW-2-15S	75.0	31	19.0	OW-2-14	96.4	34	28.5
OW-2-7	96.0	32	30.0	OW-2-16S	75.5	30	19.5	OW-2-15D	94.6	35	30.0
OW-2-8	96.3	31	30.0	OW-2-18S	74.5	29	19.0	OW-2-16D	94.1	31	26.0
OW-2-9D	96.7	30	30.0	OW-2-20S	79.0	30	21.0	OW-2-17	95.0	30	29.0

Comments: **All Points set at 30 scfh**

Notes:

Date: 5/15/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank D	Depth (ft)	scfh	psi
OW-2-18D	95.5	22	33.0
OW-2-19	96.1	29	30.0
OW-2-20D	96.6	27	7.0
OW-2-21	96.6	29	28.0
OW-2-22D	96.3	30	27.5
OW-2-23	97.2	OFF	
OW-2-24D	97.0	OFF	
OW-2-25	96.0	~~29~~	OFF

Injection Bank E	Depth (ft)	scfh	psi
OW-2-22S	76.0	27	20.0
OW-2-24S	77.8	28	23.0
OW-2-26S	74.0	27	19.0
OW-2-28S	76.0	28	21.0
OW-2-30S	67.8	30	17.0
OW-2-34	71.0	30	19.5
OW-2-35	69.2	27	21.0
OW-2-36	64.8	26	18.0

Injection Bank F	Depth (ft)	scfh	psi
OW-2-26D	95.0	31	31.5
OW-2-27	93.5	32	28.0
OW-2-28D	92.1	32	27.0
OW-2-29	92.2	34	28.0
OW-2-30D	88.0	34	26.0
OW-2-31	86.0	33	26.0
OW-2-32	84.0	34	24.0
OW-2-33	82.0	38	25.5

Comments: Point OW-2-25 turned OFF - leaking hose

All Points set at 30 scfh

Injection Bank G	Depth (ft)	scfh	psi
OW-2-37	62.8	28	20.0
OW-2-38	62.1	30	19.0
OW-2-39	60.0	30	18.0
OW-2-40	61.7	OFF	
OW-2-241	61.7	28	19.5
OW-2-42	61.6	27	20.0
OW-2-43	61.4	OFF	
OW-2-44R	60.6	30	19.5

Injection Bank H	Depth (ft)	scfh	psi
OW-2-45	61.1	28	20.0
OW-2-46	61.0	26	18.0
OW-2-47	60.5	40	19.5
-	-		
-	-		
-	-		
-	-		

Monitoring Point Logs	DTW	DO(mg/L)	PID
MP-2-1			
MP-2-2			
MP-2-3S			
MP-2-SD			
MP-2-4			
MP-2-5			
-	-	-	-
-	-	-	-

Comments:

All points set at 30 scfh

Notes:

Date: 5/13/20

AL 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) None

3) Other major activities completed Turned OFF point OW-2-25

4) Supplies needed None

5) Visitors None - MA in System

RATIONAL 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 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 6/17/20
Time: 0730
Weather: 60-70 sun
Inside Trailer Temperature: unreadable
Performed By: Matt Lomolo

O_2 Generator

Hours: 55464

Feed Air Pressure *: 110 (psi)

Cycle Pressure * (L / R) High: 65 | 67 (psi)
Low: 0 | 0 (psi)

Oxygen Receiver Pressure *: 66 (psi)

Oxygen Receiver Tank Pressure (reading from blue tank): 130 (psi)

Oxygen Purity: 83.7 (percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: 110 (psi)

Delivery Air: 110 (psi)

Element Outlet Temperature: 171 (°F)

Running Hours: 64337 (hours)

Loading Hours: 55612 (hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank A				Injection Bank B				Injection Bank C			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-2-2	90.2	27	31.0	OW-2-9S	75.0	28	20.0	OW-2-10D	97.2	28	27.5
OW-2-3	94.3	28	24.5	OW-2-10S	75.0	28	31.0	OW-2-11D	100.8	29	32.0
OW-2-4	94.7	24	42.0	OW-2-11S	76.5	28	10.0	OW-2-12	94.0	30	19.0
OW-2-5	95.3	28	30.0	OW-2-13S	75.0	28	19.0	OW-2-13D	97.0	OFF	
OW-2-6	95.7	27	31.0	OW-2-15S	75.0	27	19.0	OW-2-14	96.4	33	28.5
OW-2-7	96.0	27	30.0	OW-2-16S	75.5	28	19.0	OW-2-15D	94.6	33	30.0
OW-2-8	96.3	27	30.0	OW-2-18S	74.5	26	19.0	OW-2-16D	94.1	34	26.0
OW-2-9D	96.7	28	30.0	OW-2-20S	79.0	29	21.0	OW-2-17	95.0	29	29.0

Comments: **All Points set at 30 scfh**

Notes:

Date: 6/17/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank D				Injection Bank E				Injection Bank F			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-2-18D	95.5	26	29.5	OW-2-22S	76.0	30	20.0	OW-2-26D	95.0	29	32.0
OW-2-19	96.1	32	29.5	OW-2-24S	77.8	28	23.0	OW-2-27	93.5	27	28.0
OW-2-20D	96.6	26	5.0	OW-2-26S	74.0	26	19.0	OW-2-28D	92.1	25	27.0
OW-2-21	96.6	30	28.0	OW-2-28S	76.0	28	21.0	OW-2-29	92.2	29	28.0
OW-2-22D	96.3	29	27.5	OW-2-30S	67.8	26	17.5	OW-2-30D	88.0	23	26.0
OW-2-23	97.2	OFF		OW-2-34	71.0	27	19.0	OW-2-31	86.0	24	26.0
OW-2-24D	97.0	OFF		OW-2-35	69.2	26	21.0	OW-2-32	84.0	22	24.0
OW-2-25	96.0	OFF		OW-2-36	64.8	26	18.0	OW-2-33	82.0	28	26.0
Comments:	All Points set at 30 scfh										

Injection Bank G				Injection Bank H				Monitoring Point Logs			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID
OW-2-37	62.8	28	19.5	OW-2-45	61.1	28	19.5	MP-2-1			
OW-2-38	62.1	29	19.0	OW-2-46	61.0	27	19.0	MP-2-2			
OW-2-39	60.0	27	18.0	OW-2-47	60.5	32	19.0	MP-2-3S			
OW-2-40	61.7	OFF		-	-			MP-2-SD			
OW-2-241	61.7	26	19.5	-	-			MP-2-4			
OW-2-42	61.6	25	19.5	-	-			MP-2-5			
OW-2-43	61.4	OFF		-	-			-	-	-	-
OW-2-44R	60.6	28	19.5	-	-			-	-	-	-
Comments:	All points set at 30 scfh										

Notes:

Date: 6/17/22

AL 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) None

3) Other major activities completed None

4) Supplies needed None

5) Visitors None - MQ in System

RATIONAL 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 O_2 Generator

1) Prefilter changed Yes ____ No ✓
2) Coalescing changed Yes ____ No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 7/14/20
Time: 0800
Weather: 80-90, Hot; thunder
Inside Trailer Temperature: OPERABLE
Performed By: MIKE QUINLAN

O_2 Generator

Hours	32243	
Feed Air Pressure *	140	(psi)
Cycle Pressure * (L / R) High:	70 / 72	(psi)
Cycle Pressure * (L / R) Low:	0 / 5	(psi)
Oxygen Receiver Pressure *	75	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	115	(psi)
Oxygen Purity	89.5	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	140	(psi)
Delivery Air	140	(psi)
Element Outlet Temperature	190	(°F)
Running Hours	12919	(hours)
Loading Hours	8966	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 15660.08 - NOW OPERATIONAL

Air Tank & Eco-Drain

Condensate Purged (Y) N) Condensate Emptied (Y / N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-1	95.5	26	26	OW-1-5S	67.3	28	18	OW-1-9D	88.5	30	28
OW-1-2	96.5	POINT	OFF	OW-1-6S	67.0	20	18	OW-1-10D	87.2	26	27
OW-1-3	96.3	26	30	OW-1-7S	66.9	28	17	OW-1-11D	86.1	24	29
OW-1-4	95.0	26	30	OW-1-8S	66.7	22	18	OW-1-12D	85.3	28	28
OW-1-5D	93.9	30	29	OW-1-9S	66.0	26	18	OW-1-13D	84.7	30	28
OW-1-6D	92.4	28	29	OW-1-10S	54.6	26	13	OW-1-14D	84.1	28	28
OW-1-7D	91.1	32	28	OW-1-11S	54.1	30	14	OW-1-15D	83.3	34	28
OW-1-8D	89.6	26	28	OW-1-12S	53.6	30	16	OW-1-16D	82.5	26	14

Comments: **All Points set at 30 scfh**

Notes: ZONE 1 = BANKS 1+3

Date: 7/14/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4				Injection Bank 5				Injection Bank 6			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-13S	53.1	28	13	OW-1-17D	79.5	18	13	OW-1-21S	49.3	28	11
OW-1-14S	52.7	26	14	OW-1-18D	78.3	26	25	OW-1-22S	49.3	32	11
OW-1-15S	52.2	26	13	OW-1-19D	78.9	20	26	OW-1-23S	48.8	28	11
OW-1-16SR	51.8	26	26	OW-1-20D	79.5	28	26	OW-1-24S	48.4	28	11
OW-1-17S	50.7	24	24	OW-1-21D	79.5	28	25	OW-1-25S	48.8	26	12
OW-1-18S	50.2	24	12	OW-1-22D	79.5	24	24	OW-1-26S	48.3	28	12
OW-1-19S	49.7	POINT	OFF	OW-1-23D	78.7	26	24	OW-1-27S	48.3	26	12
OW-1-20S	49.3	POINT	OFF	OW-1-24D	78.2	26	26	OW-1-28S	48.3	26	13
Comments:	All Points set at 30 scfh										

Injection Bank 7				Injection Bank 8				Injection Bank 9			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID
OW-1-25D	78.1	26	26	OW-1-29S	48.5	30	12	OW-1-33D	83.2	28	28
OW-1-26D	78.1	14	26	OW-1-30S	48.8	28	13	OW-1-34D	84.5	28	29
OW-1-27D	77.9	30	27	OW-1-31S	49.3	28	13	OW-1-35D	85.0	38	28
OW-1-28D	78.0	28	26	OW-1-32S	49.3	26	12	OW-1-36D	85.0	14	28
OW-1-29D	78.4	28	26	OW-1-33S	49.7	26	13	OW-1-37D	84.0	20	28
OW-1-30D	79.0	26	32	OW-1-34S	50.1	36	12	OW-1-38D	82.0	26	28
OW-1-31D	80.5	POINT	OFF	OW-1-35S	50.3	26	13	OW-1-39D	78.0	28	26
OW-1-32D	81.6	26	28	OW-1-36S	50.3	30	13	OW-1-40D	76.0	26	25
Comments:	All points set at 30 scfh										

Notes:

Date: 7/14/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	26	12	OW-1-41D	73.6	26	22	OW-1-43	67.4	26	19
OW-1-38S	50.6	26	13	OW-1-42D	71.0	28	20	OW-1-44	66.6	28	18
OW-1-39S	50.7	20	12	OW-1-45	65.7	26	18	OW-1-51R	60.6	28	16
OW-1-40S	51.1	28	13	OW-1-46	64.3	26	17	OW-1-52	59.3	26	15
OW-1-41S	51.5	30	13	OW-1-47	63.4	28	17	OW-1-53	60.0	26	16
OW-1-42S	51.3	30	13	OW-1-48	62.5	34	18	OW-1-54	60.0	26	15
-	-			OW-1-49	61.5	26	16	-	-		
-	-			OW-1-50	61.0	28	16	-	-		

Comments: **All Points set at 30 scfh**

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID

Comments: **All points set at 30 scfh**

Notes:

Date: 7/14/20

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) NONE

3) Other major activities completed CHECKED FIRE EXTINGUISHER / WIPED DOWN EQUIPMENT

4) Supplies needed NONE

5) Visitors NONE

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 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 03/12/20
Time:
Weather: 80s°F Humid Isolated later
Inside Trailer Temperature: Low 70s °F
Performed By: Greg Vouziouris

O_2 Generator

Hours: 32,705

Feed Air Pressure *: 140 (psi)

Cycle Pressure * (L / R) — High: 72 | 74 (psi); Low: 0 | 6 (psi)

Oxygen Receiver Pressure *: 72 (psi)

Oxygen Receiver Tank Pressure (reading from blue tank): 115 (psi)

Oxygen Purity: 90.1 (percent)

* maximum reading during loading cycle

Compressor (Kaeser Rotary Screw)

Compressor Tank *: 160 (psi)

Delivery Air: 140 (psi)

Element Outlet Temperature: 194 (°F)

Running Hours: 13,538 (hours)

Loading Hours: 9,383 (hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: _____

Air Tank & Eco-Drain

Condensate Purged (Y) N) Condensate Emptied (Y) N)

Injection Bank 1	Depth (ft)	scfh	psi	Injection Bank 2	Depth (ft)	scfh	psi	Injection Bank 3	Depth (ft)	scfh	psi
OW-1-1	95.5	26	26	OW-1-5S	67.3	31	17	OW-1-9D	86.5	30	28
OW-1-2	96.5	Point	Off	OW-1-6S	67.0	47	17	OW-1-10D	87.2	20	26
OW-1-3	96.8	25	30	OW-1-7S	66.9	30	17	OW-1-11D	86.1	28	29
OW-1-4	95.0	25	29	OW-1-8S	66.7	30	17	OW-1-12D	85.3	19	28
OW-1-5D	93.9	26	29	OW-1-9S	66.0	28	18	OW-1-13D	84.7	28	28
OW-1-6D	92.4	26	29	OW-1-10S	54.6	32	12	OW-1-14D	84.1	26	28
OW-1-7D	91.1	16	28	OW-1-11S	54.1	31	14	OW-1-15D	83.3	26	28
OW-1-8D	89.6	26	28	OW-1-12S	53.6	29	14	OW-1-16D	82.5	28	13

Comments: **All Points set at 30 scfh**

Notes:

Date: 08/12/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi
OW-1-13S	53.1	28	13
OW-1-14S	52.7	25	14
OW-1-15S	52.2	26	13
OW-1-16SR	51.8	27	26
OW-1-17S	50.7	19	24
OW-1-18S	50.2	23	12
OW-1-19S	49.7	—	—
OW-1-20S	49.3	—	—

Injection Bank 5	Depth (ft)	scfh	psi
OW-1-17D	79.5	21	13
OW-1-18D	78.3	28	25
OW-1-19D	78.9	28	26
OW-1-20D	79.5	26	26
OW-1-21D	79.5	27	25
OW-1-22D	79.5	21	24
OW-1-23D	78.7	28	24
OW-1-24D	78.2	25	26

Injection Bank 6	Depth (ft)	scfh	psi
OW-1-21S	49.3	25	11
OW-1-22S	49.3	28	10
OW-1-23S	48.8	27	10
OW-1-24S	48.4	27	11
OW-1-25S	48.8	26	12
OW-1-26S	48.3	26	12
OW-1-27S	48.3	27	12
OW-1-28S	48.3	25	13

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi
OW-1-25D	78.1	20	26
OW-1-26D	78.1	20	26
OW-1-27D	77.9	23	26
OW-1-28D	78.0	24	26
OW-1-29D	78.4	26	25
OW-1-30D	79.0	21	32
OW-1-31D	80.5	—	—
OW-1-32D	81.6	24	27

Injection Bank 8	Depth (ft)	scfh	psi
OW-1-29S	48.5	27	12
OW-1-30S	48.8	26	12
OW-1-31S	49.3	28	13
OW-1-32S	49.3	24	12
OW-1-33S	49.7	26	12
OW-1-34S	50.1	28	12
OW-1-35S	50.3	26	13
OW-1-36S	50.3	31	13

Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-33D	83.2	28	28
OW-1-34D	84.5	28	28
OW-1-35D	85.0	27	28
OW-1-36D	85.0	28	28
OW-1-37D	84.0	14	28
OW-1-38D	82.0	28	26
OW-1-39D	78.0	27	26
OW-1-40D	76.0	26	25

Comments: **All points set at 30 scfh**

Notes:

Date: 08/12/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	17	12	OW-1-41D	73.6	26	22	OW-1-43	67.4	25	19
OW-1-38S	50.6	30	13	OW-1-42D	71.0	27	20	OW-1-44	66.6	32	18
OW-1-39S	50.7	16	12	OW-1-45	65.7	24	18	OW-1-51R	60.6	24	16
OW-1-40S	51.1	24	13	OW-1-46	64.3	27	17	OW-1-52	59.3	24	15
OW-1-41S	51.5	28	13	OW-1-47	63.4	27	17	OW-1-53	60.0	26	16
OW-1-42S	51.3	27	13	OW-1-48	62.5	25	18	OW-1-54	60.0	24	15
-	-			OW-1-49	61.5	25	16	-	-		
-	-			OW-1-50	61.0	27	16	-	-		

Comments: All Points set at 30 scfh

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID

Comments: All points set at 30 scfh

Notes: Potential leak on Injection Point OW-1-39S (Bank 10)

Date: 08/12/20

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) None

3) Other major activities completed Checked Fire Extinguisher - Good

4) Supplies needed None

5) Visitors None

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 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. ~~1702897-30-1~~ 1905774.15

Date: 9/14/20
Time: 1030
Weather: 75°, Partly
Inside Trailer Temperature: OPERABLE
Performed By: Mike Quinlan

O_2 Generator

Hours	33259	
Feed Air Pressure *	125	(psi)
Cycle Pressure * (L / R) High:	70 | 74	(psi)
Cycle Pressure * (L / R) Low:	0 | 8	(psi)
Oxygen Receiver Pressure *	74	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	115	(psi)
Oxygen Purity	86.9	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	125	(psi)
Delivery Air	140	(psi)
Element Outlet Temperature	199	(°F)
Running Hours	14331	(hours)
Loading Hours	9931	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 15660.08 – NEEDS REPLACEMENT

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1	Depth (ft)	scfh	psi
OW-1-1	95.5	34	26
OW-1-2	96.5	POINT	OFF
OW-1-3	96.3	36	30
OW-1-4	95.0	34	29
OW-1-5D	93.9	36	28
OW-1-6D	92.4	32	28
OW-1-7D	91.1	34	28
OW-1-8D	89.6	36	29

Injection Bank 2	Depth (ft)	scfh	psi
OW-1-5S	67.3	28	17
OW-1-6S	67.0	30	17
OW-1-7S	66.9	34	17
OW-1-8S	66.7	32	17
OW-1-9S	66.0	36	18
OW-1-10S	54.6	28	12
OW-1-11S	54.1	30	14
OW-1-12S	53.6	36	14

Injection Bank 3	Depth (ft)	scfh	psi
OW-1-9D	89.5	32	28
OW-1-10D	87.2	36	27
OW-1-11D	86.1	34	29
OW-1-12D	85.3	40	28
OW-1-13D	84.7	32	28
OW-1-14D	84.1	32	28
OW-1-15D	83.3	34	28
OW-1-16D	82.5	30	14

Comments: All Points set at 30 scfh

Notes:

Date: 5/14/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi
OW-1-13S	53.1	32	13
OW-1-14S	52.7	34	14
OW-1-15S	52.2	36	13
OW-1-16SR	51.8	34	26
OW-1-17S	50.7	36	24
OW-1-18S	50.2	38	12
OW-1-19S	49.7	POINT	OFF
OW-1-20S	49.3	POINT	OFF

Injection Bank 5	Depth (ft)	scfh	psi
OW-1-17D	79.5	28	13
OW-1-18D	78.3	28	25
OW-1-19D	78.9	48	25
OW-1-20D	79.5	26	26
OW-1-21D	79.5	28	25
OW-1-22D	79.5	28	24
OW-1-23D	78.7	36	24
OW-1-24D	78.2	36	25

Injection Bank 6	Depth (ft)	scfh	psi
OW-1-21S	48.3	34	11
OW-1-22S	49.3	30	11
OW-1-23S	48.8	36	11
OW-1-24S	48.4	34	11
OW-1-25S	48.8	38	12
OW-1-26S	48.3	30	12
OW-1-27S	48.3	26	12
OW-1-28S	48.3	48	13

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi
OW-1-25D	78.1	40	26
OW-1-26D	78.1	44	26
OW-1-27D	77.9	42	27
OW-1-28D	78.0	36	26
OW-1-29D	78.4	36	25
OW-1-30D	79.0	32	32
OW-1-31D	80.5	POINT	OFF
OW-1-32D	81.6	~~40~~ POINT	27 ~~OFF~~

Injection Bank 8	Depth (ft)	scfh	psi
OW-1-29S	48.5	34 ~~28~~	12
OW-1-30S	48.8	36 ~~32~~	13
OW-1-31S	49.3	30 ~~36~~	13
OW-1-32S	49.3	~~34~~ ~~36~~ 30	12
OW-1-33S	49.7	32 ~~30~~	12
OW-1-34S	50.1	34 ~~30~~	12
OW-1-35S	50.3	32 ~~30~~	13
OW-1-36S	50.3	~~32~~ 32	13

Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-33D	83.2	28	28
OW-1-34D	84.5	32	28
OW-1-35D	85.0	36	28
OW-1-36D	85.0	36	28
OW-1-37D	84.0	38	27
OW-1-38D	82.0	30	26
OW-1-39D	78.0	30	25
OW-1-40D	76.0	32	25

Comments: **All points set at 30 scfh**

Notes:

Date: 9/24/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	34	12	OW-1-41D	73.6	32	22	OW-1-43	67.4	36	19
OW-1-38S	50.6	38	13	OW-1-42D	71.0	34	20	OW-1-44	66.6	32	18
OW-1-39S	50.7	34	12	OW-1-45	65.7	32	18	OW-1-51R	60.6	36	16
OW-1-40S	51.1	32	13	OW-1-46	64.3	34	17	OW-1-52	59.3	38	15
OW-1-41S	51.5	28	13	OW-1-47	63.4	40	16	OW-1-53	60.0	36	16
OW-1-42S	51.3	30	13	OW-1-48	62.5	32	17	OW-1-54	60.6	40	15
-	-			OW-1-49	61.5	32	16	-	-		
-	-			OW-1-50	61.0	28	16	-	-		

Comments: All Points set at 30 scfh

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID

Comments: All points set at 30 scfh

Notes:

Date: 9/14/20

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) NONE

3) Other major activities completed CHECKED FIRE EXTINGUISHER WIPED DOWN EQUIPMENT

4) Supplies needed NONE

5) Visitors NONE

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____

* Unload system, wait until Delivery Air Pressure is less than 0 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 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

158 Hilton Ave. Hempstead, NY
Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 7/14/20
Time: 0715
Weather: 70s/80s sun
Inside Trailer Temperature: operable
Performed By: Matt Corrado

O_2 Generator

Hours: 56021
Feed Air Pressure *: 125 (psi)
Cycle Pressure * (L / R) High: 66 | 67 (psi)
Low: 0 | 0 (psi)
Oxygen Receiver Pressure *: 66 (psi)
Oxygen Receiver Tank Pressure (reading from blue tank): 130 (psi)
Oxygen Purity: 81.3 (percent)
* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: 125 (psi)
Delivery Air: 125 (psi)
Element Outlet Temperature: 172 (°F)
Running Hours: 64898 (hours)
Loading Hours: 56146 (hours)
* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1	Depth (ft)	scfh	psi
OW-2-2	90.2	41	33.5
OW-2-3	94.3	29	20.5
OW-2-4	94.7	68	42.0
OW-2-5	95.3	24	30.0
OW-2-6	95.7	27	30.5
OW-2-7	96.0	26	29.5
OW-2-8	96.3	27	30.0
OW 2 9D	96.7	25	30.0

Injection Bank 2	Depth (ft)	scfh	psi
OW-2-9S	75.0	25	20.0
OW-2-10S	75.0	25	31.0
OW-2-11S	76.5	24	9.0
OW-2-13S	75.0	25	19.0
OW-2-15S	75.0	22	19.0
OW-2-16S	75.5	24	19.0
OW-2-18S	74.5	21	19.0
OW 2 20S	79.0	20	21.0

Injection Bank 3	Depth (ft)	scfh	psi
OW-2-10D	97.2	25	27.0
OW-2-11D	100.8	26	32.0
OW-2-12	94.0	23	19.0
OW-2-13D	97.0	OFF	
OW-2-14	96.4	26	28.0
OW-2-15D	94.6	24	30.0
OW-2-16D	94.1	23	26.0
OW 2 17	95.0	24	29.0

All Points set at 30 scfh

Comments:

Notes:

Date: 7/14/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank 4	Depth (ft)	scfh	psi	Injection Bank 5	Depth (ft)	scfh	psi	Injection Bank 6	Depth (ft)	scfh	psi
OW-2-18D	95.5	34	29.5	OW-2-22S	76.0	26	20.0	OW-2-26D	95.0	28	32.0
OW-2-19	96.1	26	29.5	OW-2-24S	77.8	22	23.0	OW-2-27	93.5	25	28.0
OW-2-20D	96.6	17	6.0	OW-2-26S	74.0	23	19.0	OW-2-28D	92.1	27	27.0
OW-2-21	96.6	26	28.0	OW-2-28S	76.0	24	20.5	OW-2-29	92.2	26	28.0
OW-2-22D	96.3	26	27.0	OW-2-30S	67.8	24	16.5	OW-2-30D	88.0	24	26.0
OW-2-23	97.2	POINT	OFF	OW-2-34	71.0	26	19.5	OW-2-31	86.0	19	26.0
OW-2-24D	97.0	POINT	OFF	OW-2-35	69.2	24	21.0	OW-2-32	84.0	21	24.0
OW-2-25	96.0	OFF		OW-2-36	64.8	23	18.0	OW-2-33	82.0	24	25.5

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi	Injection Bank 8	Depth (ft)	scfh	psi
OW-2-37	62.8	20	19.5	OW-2-45	61.1	25	19.0
OW-2-38	62.1	27	19.0	OW-2-46	61.0	24	19.0
OW-2-39	60.0	16	18.0	OW-2-47	60.5	28	19.0
OW-2-40	61.7	POINT	OFF	-	-		
OW-2-241	61.7	14	19.0	-	-		
OW-2-42	61.6	21	19.5	-	-		
OW-2-43	61.4	POINT	OFF	-	-		
OW-2-44R	60.6	18	19.5	-	-		

Comments: **All points set at 30 scfh**

Notes:

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

158 Hilton Ave. Hempstead, NY
Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 8/12/20
Time: 0830
Weather: 80s clouds
Inside Trailer Temperature: comfortable
Performed By: Matt Conrad

O_2 Generator

Hours: 56521
Feed Air Pressure *: 110 (psi)
Cycle Pressure * (L / R) High: 66 | 67 (psi)
Low: 0 | 0 (psi)
Oxygen Receiver Pressure *: 66 (psi)
Oxygen Receiver Tank Pressure (reading from blue tank): 125 (psi)
Oxygen Purity: 87.6 (percent)
* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: 110 (psi)
Delivery Air: 110 (psi)
Element Outlet Temperature: 172 (°F)
Running Hours: 65399 (hours)
Loading Hours: 56625 (hours)
* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-2-2	90.2	24	30.0	OW-2-9S	75.0	24	19.5	OW-2-10D	97.2	30	27.0
OW-2-3	94.3	29	19.5	OW-2-10S	75.0	26	31.0	OW-2-11D	100.8	25	32.0
OW-2-4	94.7	30	36.0	OW-2-11S	76.5	25	10.5	OW-2-12	94.0	27	18.5
OW-2-5	95.3	28	29.5	OW-2-13S	75.0	25	19.0	OW-2-13D	97.0	OFF	
OW-2-6	95.7	30	30.5	OW-2-15S	75.0	32	18.5	OW-2-14	96.4	30	28.0
OW-2-7	96.0	28	29.5	OW-2-16S	75.5	24	19.0	OW-2-15D	94.6	26	29.5
OW-2-8	96.3	28	30.0	OW-2-18S	74.5	24	18.5	OW-2-16D	94.1	33	26.0
OW 2 9D	96.7	25	29.5	OW 2 20S	79.0	35	21.0	OW 2 17	95.0	30	28.5

Comments: **All Points set at 30 scfh**

Notes:

Date: 8/12/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank 4	Depth (ft)	scfh	psi
OW-2-18D	95.5	25	29.0
OW-2-19	96.1	29	29.0
OW-2-20D	96.6	26	6.0
OW-2-21	96.6	30	27.5
OW-2-22D	96.3	28	21.0
OW-2-23	97.2	POINT	OFF
OW-2-24D	97.0	POINT	OFF
OW-2-25	96.0	OFF	

Injection Bank 5	Depth (ft)	scfh	psi
OW-2-22S	76.0	33	19.5
OW-2-24S	77.8	34	23.5
OW-2-26S	74.0	30	19.0
OW-2-28S	76.0	30	20.5
OW-2-30S	67.8	29	16.0
OW-2-34	71.0	30	19.0
OW-2-35	69.2	28	21.0
OW-2-36	64.8	27	17.5

Injection Bank 6	Depth (ft)	scfh	psi
OW-2-26D	95.0	30	32.0
OW-2-27	93.5	28	28.0
OW-2-28D	92.1	30	27.0
OW-2-29	92.2	26	27.5
OW-2-30D	88.0	29	26.0
OW-2-31	86.0	32	26.0
OW-2-32	84.0	31	24.0
OW-2-33	82.0	28	26.0

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi
OW-2-37	62.8	32	19.0
OW-2-38	62.1	32	18.5
OW-2-39	60.0	28	17.5
OW-2-40	61.7	POINT	OFF
OW-2-241	61.7	31	19.0
OW-2-42	61.6	28	19.0
OW-2-43	61.4	POINT	OFF
OW-2-44R	60.6	29	19.0

Injection Bank 8	Depth (ft)	scfh	psi
OW-2-45	61.1	27	19.0
OW-2-46	61.0	27	19.0
OW-2-47	60.5	28	19.5
-	-		
-	-		
-	-		
-	-		
-	-		

-	-	-	-
-	-	-	-

Comments: **All points set at 30 scfh**

Notes:

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

158 Hilton Ave. Hempstead, NY
Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. ~~1702697-30-1~~ 190577415.

Date: 9/15/20
Time: 0700
Weather: SUNS, PLUMM
Inside Trailer Temperature: OPERABLE
Performed By: MIKE QUINN

O_2 Generator

Hours	57334		
Feed Air Pressure *	110	(psi)	
Cycle Pressure * (L / R)	High: 66 / 68	(psi)	
	Low: 0 / 0	(psi)	
Oxygen Receiver Pressure *	66	(psi)	
Oxygen Receiver Tank Pressure (reading from blue tank)	125	(psi)	
Oxygen Purity	84.6	(percent)	

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	110	(psi)
Delivery Air	110	(psi)
Element Outlet Temperature	174	(°F)
Running Hours	66212	(hours)
Loading Hours	57403	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 999.99 -needs replacement

Air Tank & Eco-Drain

Condensate Purged (Y) / N) Condensate Emptied (Y) / N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-2-2	90.2	24	30	OW-2-9S	75.0	40	19	OW-2-10D	97.2	36	27
OW-2-3	94.3	30	~~28~~	OW-2-10S	75.0	32	31	OW-2-11D	100.8	34	32
OW-2-4	94.7	24	~~30~~ 36	OW-2-11S	76.5	42	10	OW-2-12	94.0	42	19
OW-2-5	95.3	34	29	OW-2-13S	75.0	36	18.5	OW-2-13D	97.0	POWER	OFF
OW-2-6	95.7	36	30	OW-2-15S	75.0	40	18.5	OW-2-14	96.4	34	28
OW-2-7	96.0	38	29	OW-2-16S	75.5	42	19	OW-2-15D	94.6	32	29.5
OW-2-8	96.3	34	30	OW-2-18S	74.5	38	19	OW-2-16D	94.1	38	26
OW 2 9D	96.7	36	30	OW 2 20S	79.0	34	21	OW 2 17	95.0	36	28.5

Comments: **All Points set at 30 scfh**

Notes:

Date: 9/15/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

~~Hempstead Intersection Oxygen Injection Remedial System Number 2~~

Injection Bank 4	Depth (ft)	scfh	psi	Injection Bank 5	Depth (ft)	scfh	psi	Injection Bank 6	Depth (ft)	scfh	psi
OW-2-18D	95.5	30	29	OW-2-22S	76.0	38	14.5	OW-2-26D	95.0	38	32
OW-2-19	96.1	38	29	OW-2-24S	77.8	44	23	OW-2-27	93.5	36	28
OW-2-20D	96.6	38	6.5	OW-2-26S	74.0	38	19	OW-2-28D	92.1	36	27
OW-2-21	96.6	36	27.5	OW-2-28S	76.0	36	20	OW-2-29	92.2	40	27.5
OW-2-22D	96.3	34	27	OW-2-30S	67.8	36	16	OW-2-30D	88.0	40	25.5
OW-2-23	97.2	POINT	OFF	OW-2-34	71.0	40	19	OW-2-31	86.0	38	25.5
OW-2-24D	97.0	POINT	OFF	OW-2-35	69.2	36	21	OW-2-32	84.0	44	24
OW-2-25	96.0	Point	OFF	OW-2-36	64.8	34	17.5	OW-2-33	82.0	36	25.5
Comments:	All Points set at 30 scfh										

Injection Bank 7	Depth (ft)	scfh	psi	Injection Bank 8	Depth (ft)	scfh	psi				
OW-2-37	62.8	38	19	OW-2-45	61.1	34	20				
OW-2-38	62.1	36	18.5	OW-2-46	61.0	44	19				
OW-2-39	60.0	40	17.5	OW-2-47	60.5	48	19				
OW-2-40	61.7	POINT	OFF	-	-						
OW-2-241	61.7	42	19	-	-						
OW-2-42	61.6	40	19	-	-						
OW-2-43	61.4	POINT	OFF	-	-			-	-	-	-
OW-2-44R	60.6	46	19	-	-			-	-	-	-
Comments:	All points set at 30 scfh										

Notes:

Date: 9/15/20

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) NONE
3) Other major activities completed CHECKED FIRE EXTINGUISHER + WIPED DOWN EQUIPMENT
4) Supplies needed NONE
5) Visitors NONE

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 O_2 Generator

1) Prefilter changed Yes ____ No ✓
2) Coalescing changed Yes ____ No ✓

Appendix E

Institutional and Engineering Controls Certification Form

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 130086

Site Name K - Intersection St. - Hempstead MGP

Site Address: Intersection St. Zip Code: 11530-
City/Town: Hempstead
County: Nassau
Site Acreage: 7.580

Reporting Period: March 28, 2020 to March 28, 2021

	YES	NO
1. Is the information above correct?	X	
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?		X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	
7. Are all ICs in place and functioning as designed?	X	

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. 130086 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
34-174-1	KeySpan Gas East Corp	Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan

Property use must be restricted residential, commercial, or industrial
Groundwater use is prohibited without treatment
Groundwater must be monitored per the SMP
Data must be reported per the SMP
Implement HASP and Excavation Work Plan prior to ground intrusive activity except landscaping

34-174-208A	KeySpan Gas East Corp	Landuse Restriction Site Management Plan Soil Management Plan Ground Water Use Restriction

Property use must be restricted residential, commercial, or industrial
Groundwater use is prohibited without treatment
Groundwater must be monitored per the SMP
Data must be reported per the SMP
Implement HASP and Excavation Work Plan prior to ground intrusive activity except landscaping

34-174-208B	KeySpan Gas East Corp.	Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan

Property use must be restricted residential, commercial, or industrial
Groundwater use is prohibited without treatment
Groundwater must be monitored per the SMP
Data must be reported per the SMP
Implement HASP and Excavation Work Plan prior to ground intrusive activity except landscaping

34-174-209A	KeySpan Gas East Corp	Landuse Restriction Site Management Plan Soil Management Plan Ground Water Use Restriction

Property use must be restricted residential, commercial, or industrial
Groundwater use is prohibited without treatment
Groundwater must be monitored per the SMP
Data must be reported per the SMP
Implement HASP and Excavation Work Plan prior to ground intrusive activity except landscaping

34-174-209B	KeySpan Gas East Corp	Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan

Property use must be restricted residential, commercial, or industrial
Groundwater use is prohibited without treatment

Groundwater must be monitored per the SMP
Data must be reported per the SMP
Implement HASP and Excavation Work Plan prior to ground intrusive activity except landscaping

Box 4

Description of Engineering Controls

Parcel	Engineering Control
34-174-1	
	Groundwater Treatment System
	Cover System
Provision of two-foot thick soil cover	
Active oxygen delivery system in area of impacted groundwater	
34-174-208A	
	Groundwater Treatment System
	Cover System
Provision of two-foot thick soil cover	
Active oxygen delivery system in area of impacted groundwater	
34-174-208B	
	Groundwater Treatment System
	Cover System
Provision of two-foot thick soil cover	
Active oxygen delivery system in area of impacted groundwater	
34-174-209A	
	Groundwater Treatment System
	Cover System
Provision of two-foot thick soil cover	
Active oxygen delivery system in area of impacted groundwater	
34-174-209B	
	Groundwater Treatment System
	Cover System
Provision of two-foot thick soil cover	
Active oxygen delivery system in area of impacted groundwater	

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 130086

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Christopher Morris (print name) at 1000 New York Avenue, Huntington Station, NY 11746, (print business address)

am certifying as Agent for National Grid (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

4/26/21
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Jeff Parillo (print name) at 455 Winding Brook Drive (Suite 201), Glastonbury, CT 06033 (print business address)

am certifying as a Professional Engineer for the Owner/Remedial Party (Owner or Remedial Party)

Signature of Qualified Environmental Profession, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		4/26/21