



Consulting Engineers and Scientists

Periodic Review Report March 28, 2021 – March 28, 2022 Hempstead Intersection Street Former MGP Site

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

Submitted to:

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Submitted by:

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April 2022 Project: 1905774



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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
<u>Measurements</u>	
bgs	below ground surface
cv	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.



<u>April 25, 2022</u> 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, 2021, and March 28, 2022, 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 2021-2022 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.
- Oxygenation system monitoring. Groundwater treatment performance monitoring of dissolved oxygen (DO) for both systems was conducted quarterly through Q3 2021. NYSDEC approved the shutdown of oxygenation system #2 (System #2) in October 2021, at which time monitoring downgradient of this system was discontinued. A reduction of DO sampling from quarterly to semi-annually was approved for System #1 in early Q1 2022. Going forward, DO monitoring will be conducted during the semi-annual groundwater monitoring events in Q1 and Q3 of each year. Beginning in Q4 2021, additional groundwater monitoring will be conducted to monitor the shutdown of System #2.
- Semi-annual groundwater monitoring in September 2021 and March 2022. NYSDEC approved criteria for groundwater monitoring reductions in early Q1 2022. As a result, wells that met the criteria were reduced to annual sampling (to be conducted during Q3 of each year) and were not sampled in the semi-annual event (Q1/March 2022). Additional reductions to the sample list are possible based on future analytical results. Additional details are provided in Section 3.3.1.
- Annual Site-wide inspection in March 2022.

Additional activities conducted during the current PRR period included:

• Quarterly Site checks.

The 2021-2022 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. The SMP is currently being revised to include the most recent modifications regarding System #2 and the groundwater monitoring program discussed above.

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 (Figure 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 Figure 2 and the Site and adjacent parcels are identified by the Section, Block, and Lot numbers in Figure 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 Figure 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.
 - \circ 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 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. Through Q4 2021, DO levels were measured quarterly in monitoring wells installed adjacent to the delivery points to confirm that aerobic conditions are present. A reduction to semi-annual DO monitoring was approved by NYSDEC on January 3, 2022. Semi-annual monitoring will be performed in Q1 and Q3 of each year going forward.

System #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 #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 the east to Kensington Court to the west. System #2 was shut down on October 8, 2021, with NYSDEC approval. The location of the systems is shown in Figure 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 investigating. 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.

GEI performed the annual Site-wide inspection on March 10, 2022. 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.

Impacts or disturbances to the cover system during the reporting period were limited to soil borings performed by a third party on the Oswego Oil Storage Terminal property on August 17, 2021. Three soil borings were advanced to 15 feet below ground surface on the western and central portion of the oil storage terminal near the western underground storage tanks (USTs) using a direct-push Geoprobe®. The soil borings were located outside the previous ISS or excavation area associated with the remediation of the Site. The purpose of this investigation was for the oil storage terminal to determine if there is contamination due

to the USTs prior to anticipated abandonment of the USTs. GEI Consultants provided oversight of the activity on behalf of National Grid. No impacts were observed during the work. A summary report for the work is provided in Appendix B.

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 23 2021
- October 25, 2021
- May 27, 2021
- June 24, 2021
- July 29, 2021
- August 31, 2021
- September 30, 2021

- December 3, 2021
- December 28, 2021
- January 17, 2022
- February 20, 2022
- March 10, 2022

3.3.1 Groundwater

Routine groundwater monitoring events consisting of depth-to-groundwater measurements and groundwater sampling are currently conducted semi-annually. Criteria for reductions to the groundwater monitoring program were submitted to NYSDEC on November 5, 2021, and subsequently approved on January 3, 2022. The established criteria, which are based on the analytical data, resulted in the reduction of the semi-annual list of wells from a total of 30 wells to 8 wells. The wells removed from the semi-annual sampling list will be sampled during the annual sampling event, which is to be conducted during Q3 of each year. The reductions to the groundwater program were first implemented in Q1 2022. The groundwater reductions also include criteria for the elimination of wells from the sampling program if the criteria are met for two consecutive annual monitoring events. NYSDEC previously approved reducing the frequency of groundwater sampling from quarterly to semi-annually in 2018.

Additional quarterly groundwater monitoring related to the shutdown of System #2 is performed at 8 wells, which commenced in Q4 2021. The reduced semi-annual list and the quarterly System #2 shutdown monitoring list included a total of 16 wells in Q1 2022.

Table 2 lists the wells that are gauged for water level and presence of NAPL and/or sampled for each monitoring event. 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.

Annual groundwater sampling was performed at 30 wells on the following dates:

• Q3 2021: September 20 through 23, 2021

Quarterly System #2 shutdown monitoring was performed at 8 wells on the following dates:

• December 14 and 15, 2021

Semi-annual groundwater sampling was performed at 8 wells and quarterly System #2 shutdown monitoring was performed at an additional 8 wells on the following dates:

• Q1 2022: March 7 and 8, 2022

Depth-to-groundwater measurements were taken from all accessible wells during the annual and semi-annual monitoring event identified above.

Data Usability Summary Reports (DUSRs) for groundwater samples collected in September 2021, December 2021 and March 2022 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 2021 and Q1 2022 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 Figures 5 and 6. Groundwater contour maps for the three depth zones for each sampling event are presented in Figures 7 through 12.

During the reporting period, monitoring well HIMW-21 was gauged monthly for the presence of DNAPL. A total of approximately 16.6 gallons of DNAPL were recovered during the reporting period during six recovery events. DNAPL recovery is performed in HIMW-21 when the measured thickness is greater than 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 seven wells during the September 2021 and March 2022 sampling events. The exceedances included BTEX compounds and select PAHs (acenaphthene and naphthalene) which were primarily identified upgradient of System #1. Slight exceedances of the AWQS identified downgradient of System #1 included a detection of total xylene in HIMW-24 (11 ug/l) in September 2021 and a detection of naphthalene (12 ug/L) in HIMW-13I in March 2022. HIMW-13I is located downgradient of System #1 and System #2. The AWQS for total xylenes and naphthalene are 5 ug/L and 10 ug/L, respectively.

The configuration of the plume as defined by concentrations of BTEX or PAHs above 100 μ g/L was generally similar in the two sampling events conducted during the current PRR period (Figures 5 and 6). The plume was slightly longer in the September 2021 sampling event due to a concentration of total BTEX in monitoring well HIMW-08S which was slightly above 100 ug/L (101.6 ug/L). The data collected from the September 2021 and March 2022 sampling events are generally similar to recent sampling events, with increases noted in HIMW-05I and HIMW-05D. The current configuration is still significantly reduced from the historical configuration, in which the plume extended beyond System #1. The decreases in monitoring wells downgradient of System #1, in which many of the wells have no detections or at a minimum have met the AWQS, have facilitated the approved reductions to the groundwater monitoring requirements in this area.

Similar to other recent sampling events, the remaining wells with elevated (>100 μ g/L) concentrations of BTEX or PAHs upgradient of System #1 during the reporting period include HIMW-05I, HIMW-05D, HIMW-08S (September 2021 only), HIMW-26D, HIMW-27S, and HIMW-28S. Remaining wells with concentrations above 1,000 μ g/L were limited to PAHs in wells HIMW-05I, HIMW-05D, and HIMW-27S in both sampling events during the reporting period. Concentrations in HIMW-26D and HIMW-28S have generally been decreasing following an established trend, while concentrations in HIMW-05I and HIMW-05D have been generally increasing, although all remained within their historical concentration range. The concentrations in HIMW-27S have been relatively stable.

An exceedance was noted during Q3 2021 in well HIMW-24, just prior to the shutdown of System #2. HIMW-24 was designated for quarterly sampling for the evaluation of the shutdown of System #2. There were no exceedances noted in HIMW-24 in Q4 2021 and Q1 2022.

The DO monitoring points near both System #1 and System #2 were monitored quarterly through Q3 2021. Following the shutdown of System #2 on October 8, 2021, DO monitoring on wells downgradient of this system was discontinued. DO monitoring was also reduced to semi-annually as part of the approved reductions to the groundwater monitoring program. The DO concentrations have generally remained elevated as shown by the readings from April 2021 through March 2022 that are presented in Table 7. The DO concentrations downgradient of the two systems are shown in Figures 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 2021 and March 2022 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 Figures 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.

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 (Figure 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 Figure 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 μ g/L. The locations and depths of the injection wells are presented in Figures 16 and 17 for Systems #1 and #2, respectively.

4.2 System #2 Shutdown

A request to shut down System #2 was submitted to NYSDEC on October 5, 2021. The shutdown was requested due to groundwater samples from monitoring wells located downgradient of System #2 and between System #1 and System #2 (i.e., upgradient of System #2) meeting the AWQS during the past year. As such, the continued operation of System #2 was deemed redundant and unnecessary. The request proposed criteria for shutdown and post shutdown monitoring, as well as system restart, if necessary, and potential system removal. NYSDEC approved the request on October 7, 2021.

Following shutdown, which occurred on October 8, 2021, the system has remained off, but in an operational state. The following post-system shut down monitoring and removal criteria were adopted:

- Conduct quarterly monitoring at downgradient wells HIMW-13S/I/D, HIMW-22, and HIMW-23 and upgradient wells HIMW-12S/I, and HIMW-24 for a minimum of four consecutive quarters.
- If concentrations rebound for two consecutive sampling events [i.e., exceedances of the Class GA AWQS for one or more compounds], an evaluation will be

conducted in consultation with NYSDEC to determine if an increasing trend is occurring and to identify an appropriate course of action.

- If there is no rebound (i.e., exceedances of the AWQS) for four consecutive quarterly sampling events, the system will remain off and semi-annual sampling will commence.
- If an exceedance is observed, the post shutdown monitoring will be restarted at the well location with an exceedance with quarterly sampling as described above.
- If no rebound in BTEX or PAH concentrations are observed after two years of semi-annual sampling, the system will be removed with NYSDEC approval.

As stated above, an exceedance was noted in HIMW-24 during Q3 2021, prior to system shutdown. The concentrations in the follow-up quarterly samples collected in Q4 2021 and Q1 2022 were below the AWQS. A slight exceedance of naphthalene was noted in HIMW-13I during Q1 2022. Naphthalene concentrations were observed at 12 ug/L in comparison to the AWQS of 10 ug/L. As a result, the quarterly sampling schedule at HIMW-13I will reset beginning in Q2 2022. The Q2 2022 concentration will determine if an additional trend evaluation or other actions are necessary.

4.3 Operational Summary

Overall, System #1 operated efficiently during the reporting period with the exceptions noted below.

- Operation downtime for System #1 during the reporting period was limited to a total of eight days. The downtime was caused by power outages, minor mechanical failures (cracked filter bowl, compressor valve failure) which were repaired.
- Prior to shut down in October 2021, System #2 downtime included 12 days in Q2 2021 due to the refrigerated dryer freezing, and 4 days in Q3 2021 due to a compressor alarm which was subsequently reset.
- A total of three oxygen delivery wells associated with System #1 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.

4.4 Summary of Oxygen Level Measurements

DO levels were measured quarterly for this reporting period, however, a reduction to semi-annual monitoring was approved by NYSDEC on January 3, 2022. The monitoring locations are shown in Figures 16 and 17.

The dissolved oxygen concentrations in wells downgradient of System #1 averaged between 11.9 milligrams per liter (mg/L) in Q1 2022 to a high of 17.4 mg/L during Q3 2021, with a cumulative average of 15.2 mg/L during the reporting period. The dissolved oxygen concentrations in wells downgradient of System #2 averaged 12.2 mg/L in Q2 2021 and 14 mg/L in Q3 2021 prior to system shutdown. The dissolved oxygen levels in wells downgradient of System #2 were below average for the reporting period but remained at adequate levels to maintain biodegradation. The results of the DO monitoring are presented in Table 7 and shown in Figures 13 and 14. Appendix D contains the oxygen injection operation and maintenance log sheets for the reporting period.

4.5 Evaluation of Effectiveness

Figure 13 shows that oxygen concentrations for System #1 fluctuated during the reporting period, but generally decreased during Q1 2022. The aquifer remained under aerobic conditions during the reporting period.

Figure 14 shows that oxygen concentrations for System #2 remained relatively consistent prior to shut down in early Q4 2021.

System #1 remains effective in maintaining high oxygen concentrations in the groundwater. Concentrations of contaminants in groundwater also remained low as discussed in Section 3.4. Groundwater monitoring downgradient of System #2 will continue to determine if the system can remain shut down.

5. Overall PRR Conclusions and Recommendations

5.1 Compliance with SMP

National Grid has operated and maintained the Site in compliance with the SMP or other approved modifications, 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, 16.6 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 Figures 5 and 6, the plume as it existed at the time of the start-up of the oxygenation systems (Figure 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. Figures 18 (A & B) and 19 (A & 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 μ g/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, several of which have been reduced to annual sampling based upon the lack of detections. 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 were generally not present during the reporting period excluding a minor increase in HIMW-24 during Q3 2021. The more consistent operation during recent periods is likely responsible for the decrease in the amount concentration variations.

Exceedances of the AWQS in any monitoring wells downgradient of System #1 during the reporting period were limited to HIMW-24 in Q3 2021 and HIMW-13I in Q1 2022. HIMW-13 is also downgradient of System #2. Detections of BTEX or PAHs in wells located between the two oxygenation systems during the reporting period, were limited to HIMW-24. HIMW-13I and HIMW-24 are part of the post-shutdown monitoring of the system. The exceedance in HIMW-24 was followed by two sampling events with no exceedances in Q4 2021 and Q1 2022. The future detections of naphthalene in HIMW-13I will be monitored to determine if a trend evaluation or additional actions are warranted.

5.3 Recommendations

Continue performance monitoring in accordance with the SMP and subsequent NYSDEC-approved modifications as previously described above. These include the reductions to the groundwater monitoring program as well as the quarterly monitoring in wells immediately upgradient and downgradient of System #2 which was shut down on October 8, 2021.

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.

Tables

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/ Semi- annually**	Dissolved Oxygen	Annually

*: Additional monitoring currently conducted quarterly to evalute the shutdown of System #2.

**: NYSDEC approved changing the frequency of dissolved oxygen sampling to semi-annual following

the shutdown of System #2 in October 2021.

N/A: Not Applicable

LIRR: Long Island Railroad

ROW: Right of Way MGP: Manufactured Gas Plant

POB: Professional Office Building

Frequency	Annual	Semi-Annual			Quarterly	Monthly
Well Id	Water Quality	Water Level	NAPL Thickne	Water Quality	Water Quality	DNAPL Thickness
HIMW-03S	Х	Х	Х			
HIMW-03I	Х	Х	Х			
HIMW-03D	Х	Х	Х			
HIMW-04S		Х	Х			
HIMW-04I		Х	Х			
HIMW-04D		Х	Х			
HIMW-05S	Х	Х	Х			
HIMW-05I	Х	Х	Х	Х		
HIMW-05D	Х	Х	Х	Х		
HIMW-08S	X	X	X	X		
HIMW-08I	X	X	X			
HIMW-08D	X	X	X			
HIMW-09S		X	X			
HIMW-091		X	X			
		X	X			<u> </u>
HIMW-10S		X	X			
HIMW-100		X	X			
		X	X			
		×	×			
		^ 				
					V	
	X				X	
	X	X	X		X	
HIMW-12D	X	V	V		V	
HIMW-135	X	X	X		X	
HIMW-13I	X	X	X		X	
HIMW-13D	X	X	X		X	
HIMW-14I	X	X	X			
HIMW-14D	X	X	X			
HIMW-15I	X	X	X			
HIMW-15D	X	X	Х			
HIMW-20S	Х	Х	Х			
HIMW-20I	Х	Х	Х	Х		
HIMW-21		Х	Х			X
HIMW-22	Х	Х	Х		Х	
HIMW-23	Х	Х	Х		Х	
HIMW-24	Х	Х	Х		Х	
HIMW-25	Х	Х	Х	Х		
HIMW-26I	Х	Х	Х			
HIMW-26D	Х	Х	Х	Х		
HIMW-27S	Х	Х	Х	Х		
HIMW-27I	Х	Х	Х			
HIMW-28S	Х	X	X	X		
HIMW-281	Х	X	X			
PZ-02		X	Х			
PZ-03		Х	Х			
OSMW-02		Х	Х			
OSMW-03		Х	Х			

Notes:

Field marked with "X" indicates that the activity is to be performed.

Blank field indicates that the activity not required.

*: Quarterly monitoring performed to evaluate the shutdown of System #2.

Table 3. Groundwater and NAPL Measurements Third Quarter 2021 Hempstead Intersection Street Former MGP Site National Grid Hempstead, New York

		Elevation	Depth to	Depth	Depth to	Well	Thickness	Thickness	Corrected
	Data	of TOR	LNAPL	to	DNAPL	Depth	of LNAPL	of DNAPL	Potentiometric
weinid	Date			Water					Head ⁽¹⁾
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-03S	9/28/2021	65.00	ND	18.52	ND	34.48	0	0.00	46.48
HIMW-03I	9/28/2021	64.94	ND	19.42	ND	85.05	0	0.00	45.52
HIMW-03D	9/28/2021	65.26	ND	19.28	ND	142.11	0	0.00	45.98
HIMW-04S	9/28/2021	72.02	ND	25.65	ND	41.65	0	0.00	46.37
HIMW-04I	9/28/2021	71.91	ND	25.76	ND	90.51	0	0.00	46.15
HIMW-04D	9/28/2021	71.78	ND	26.12	ND	177.00	0	0.00	45.66
HIMW-05S	9/28/2021	67.19	ND	21.04	ND	39.00	0	0.00	46.15
HIMW-05I	9/28/2021	67.22	ND	21.32	ND	90.55	0	0.00	45.90
HIMW-05D	9/28/2021	67.22	ND	21.62	ND	136.00	0	0.00	45.60
HIMW-08S	9/28/2021	64.03	ND	18.21	ND	36.95	0	0.00	45.82
HIMW-08I	9/28/2021	63.98	ND	18.21	ND	75.00	0	0.00	45.77
HIMW-08D	9/28/2021	63.97	ND	18.19	ND	114.50	0	0.00	45.78
HIMW-09S	9/28/2021	70.03	ND	24.02	ND	39.53	0	0.00	46.01
HIMW-09I	9/28/2021	69.93	ND	23.98	ND	80.25	0	0.00	45.95
HIMW-09D	9/28/2021	69.96	ND	23.93	ND	123.21	0	0.00	46.03
HIMW-10S	9/28/2021	70.07	ND	23.13	ND	39.32	0	0.00	46.94
HIMW-10I	9/28/2021	69.90	ND	23.36	ND	89.69	0	0.00	46.54
HIMW-11S	9/28/2021	70.60	ND	24.52	ND	40.25	0	0.00	46.08
HIMW-11I	9/28/2021	70.43	ND	24.68	ND	93.29	0	0.00	45.75
HIMW-11D	9/28/2021	70.43	ND	24.66	ND	122.27	0	0.00	45.77
HIMW-12S	9/28/2021	60.52	ND	16.08	ND	33.25	0	0.00	44.44
HIMW-12IR	9/28/2021	60.61	ND	16.12	ND	NM	0	0.00	44.49
HIMW-13S	9/28/2021	72.58	ND	30.36	ND	48.60	0	0.00	42.22
HIMW-13I	9/28/2021	72.51	ND	30.14	ND	81.50	0	0.00	42.37
HIMW-13D	9/28/2021	72.47	ND	30.18	ND	121.95	0	0.00	42.29
HIMW-14I	9/28/2021	71.06	ND	28.98	ND	95.79	0	0.00	42.08
HIMW-14D	9/28/2021	70.85	ND	31.20	ND	151.75	0	0.00	39.65
HIMW-15I	9/28/2021	64.18	ND	24.21	ND	92.42	0	0.00	39.97
HIMW-15D	9/28/2021	63.96	ND	26.07	ND	152.09	0	0.00	37.89
HIMW-20S	9/28/2021	69.03	ND	24.17	ND	36.75	0	0.00	44.86
HIMW-20I	9/28/2021	68.88	ND	23.96	ND	74.82	0	0.00	44.92
HIMW-21	9/28/2021	NM	ND	NM	44.92	45.25	0	0.33	NC
HIMW-22	9/28/2021	74.07	ND	29.19	ND	64.40	0	0.00	44.88
HIMW-23	9/28/2021	74.41	ND	29.27	ND	75.27	0	0.00	45.14
HIMW-24	9/28/2021	59.83	ND	13.26	ND	54.95	0	0.00	46.57
HIMW-25	9/28/2021	61.32	ND	17.46	ND	52.15	0	0.00	43.86
HIMW-26I	9/28/2021	68.13	ND	23.22	ND	84.91	0	0.00	44.91
HIMW-26D	9/28/2021	68.02	ND	23.20	ND	137.50	0	0.00	44.82
HIMW-27S	9/28/2021	69.53	ND	22.99	ND	41.14	0	0.00	46.54
HIMW-27I	9/28/2021	68.96	ND	22.30	ND	69.95	0	0.00	46.66
HIMW-28S	9/28/2021	69.89	ND	23.22	ND	41.45	0	0.00	46.67
HIMW-28I	9/28/2021	69.67	ND	23.91	ND	71.49	0	0.00	45.76
PZ-02	9/28/2021	71.88	ND	24.13	ND	35.55	0	0.00	47.75
PZ-03	9/28/2021	63.82	ND	16.30	ND	29.83	0	0.00	47.52
OSMW-02	9/28/2021	71.59	ND	NM	ND	45.20	0	0.00	NC
OSMW-03	9/28/2021	71.39	ND	25.03	ND	44.75	0	0.00	46.36

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 2022 Hempstead Intersection Street Former MGP Site National Grid Hempstead, New York

		Elevation	Depth to	Depth	Depth to	Well	Thickness	Thickness	Corrected
	Data	of TOR	LNAPL	to	DNAPL	Depth	of LNAPL	of DNAPL	Potentiometric
weinid	Dale			Water					Head ⁽¹⁾
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-03S	3/10/2022	65.00	ND	17.65	ND	34.48	0	0.00	47.35
HIMW-03I	3/10/2022	64.94	ND	18.09	ND	85.05	0	0.00	46.85
HIMW-03D	3/10/2022	65.26	ND	18.54	ND	142.11	0	0.00	46.72
HIMW-04S	3/10/2022	72.02	ND	26.11	ND	41.65	0	0.00	45.91
HIMW-04I	3/10/2022	71.91	ND	26.20	ND	90.51	0	0.00	45.71
HIMW-04D	3/10/2022	71.78	ND	26.63	ND	177.00	0	0.00	45.15
HIMW-05S	3/10/2022	67.19	ND	20.48	ND	39.00	0	0.00	46.71
HIMW-05I	3/10/2022	67.22	ND	20.59	ND	90.55	0	0.00	46.63
HIMW-05D	3/10/2022	67.22	ND	21.24	ND	136.00	0	0.00	45.98
HIMW-08S	3/10/2022	64.03	ND	18.73	ND	36.95	0	0.00	45.30
HIMW-08I	3/10/2022	63.98	ND	18.69	ND	75.00	0	0.00	45.29
HIMW-08D	3/10/2022	63.97	ND	18.72	ND	114.50	0	0.00	45.25
HIMW-09S	3/10/2022	70.03	ND	24.52	ND	39.53	0	0.00	45.51
HIMW-09I	3/10/2022	69.93	ND	24.40	ND	80.25	0	0.00	45.53
HIMW-09D	3/10/2022	69.96	ND	23.26	ND	123.21	0	0.00	46.70
HIMW-10S	3/10/2022	70.07	ND	23.89	ND	39.32	0	0.00	46.18
HIMW-10I	3/10/2022	69.90	ND	23.89	ND	89.69	0	0.00	46.01
HIMW-11S	3/10/2022	70.60	ND	24.28	ND	40.25	0	0.00	46.32
HIMW-11I	3/10/2022	70.43	ND	24.13	ND	93.29	0	0.00	46.30
HIMW-11D	3/10/2022	70.43	ND	24.10	ND	122.27	0	0.00	46.33
HIMW-12S	3/10/2022	60.52	ND	16.56	ND	33.25	0	0.00	44.00
HIMW-12IR	3/10/2022	60.61	ND	16.61	ND	NM	0	0.00	44.00
HIMW-13S	3/10/2022	72.58	ND	31.02	ND	48.60	0	0.00	41.56
HIMW-13I	3/10/2022	72.51	ND	30.94	ND	81.50	0	0.00	41.57
HIMW-13D	3/10/2022	72.47	ND	30.89	ND	121.95	0	0.00	41.58
HIMW-14I	3/10/2022	71.06	ND	30.13	ND	95.79	0	0.00	40.93
HIMW-14D	3/10/2022	70.85	ND	31.77	ND	151.75	0	0.00	39.08
HIMW-15I	3/10/2022	64.18	ND	25.70	ND	92.42	0	0.00	38.48
HIMW-15D	3/10/2022	63.96	ND	26.90	ND	152.09	0	0.00	37.06
HIMW-20S	3/10/2022	69.03	ND	24.74	ND	36.75	0	0.00	44.29
HIMW-20I	3/10/2022	68.88	ND	24.58	ND	74.82	0	0.00	44.30
HIMW-21	3/10/2022	NM	ND	19.03	41.49	45.25	0	3.76	NC
HIMW-22	3/10/2022	74.07	ND	29.73	ND	64.40	0	0.00	44.34
HIMW-23	3/10/2022	74.41	ND	29.85	ND	75.27	0	0.00	44.56
HIMW-24	3/10/2022	59.83	ND	14.28	ND	54.95	0	0.00	45.55
HIMW-25	3/10/2022	61.32	ND	16.65	ND	52.15	0	0.00	44.67
HIMW-26I	3/10/2022	68.13	ND	22.39	ND	84.91	0	0.00	45.74
HIMW-26D	3/10/2022	68.02	ND	22.47	ND	137.50	0	0.00	45.55
HIMW-27S	3/10/2022	69.53	ND	23.44	ND	41.14	0	0.00	46.09
HIMW-27I	3/10/2022	68.96	ND	21.93	ND	69.95	0	0.00	47.03
HIMW-28S	3/10/2022	69.89	ND	23.78	ND	41.45	0	0.00	46.11
HIMW-28I	3/10/2022	69.67	ND	23.49	ND	71.49	0	0.00	46.18
PZ-02	3/10/2022	71.88	ND	24.04	ND	35.55	0	0.00	47.84
PZ-03	3/10/2022	63.82	ND	16.87	ND	29.83	0	0.00	46.95
OSMW-02	3/10/2022	71.59	ND	24.34	ND	45.20	0	0.00	47.25
OSMW-03	3/10/2022	71.39	ND	NM	ND	44.75	0	0.00	NC

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

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 23, 2021	ND	4.10	2.7	2.7						
May 27, 2021	ND	2.49	1.6	4.3						
June 24, 2021	ND	5.66	3.7	8.0						
July 29, 2021	ND	4.67	0.6	8.6						
August 31, 2021	ND	6.12	4.0	12.6						
September 30, 2021	ND	6.19	4.0	16.6						
October 25, 2021	ND	1.85	0.0	16.6						
December 3, 2021	ND	2.30	0.0	16.6						
December 28, 2021	ND	3.75	0.0	16.6						
January 17, 2022	ND	3.20	0.0	16.6						
February 20, 2022	ND	3.25	0.0	16.6						
March 10, 2022	ND	3.76	0.0	16.6						
Total V	871.7									
	888.3									

Notes:

(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

ND NAPL Not Detected

- NR Not Recorded
- NC Not Collected
| | | Sa | mple Name | HIMW-03S | HIMW-03I | HIMW-03D | HIMW-05S | HIMW-05I | HIMW-05I | HIMW-05D | HIMW-05D | HIMW-08S | HIMW-08S | HIMW-08I | HIMW-08D | Dup-02 | HIMW-12S | HIMW-12S |
|------------------------|-------|------------|------------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|-----------|----------|-----------|-----------|-----------|-----------|------------|
| | | S | ample Date | 9/21/2021 | 9/21/2021 | 9/21/2021 | 9/23/2021 | 9/23/2021 | 3/8/2022 | 9/23/2021 | 3/8/2022 | 9/21/2021 | 3/7/2022 | 9/21/2021 | 9/21/2021 | 9/21/2021 | 9/23/2021 | 12/15/2021 |
| | | Par | ent Sample | | | | | | | | | | | | | HIMW-08D | | |
| 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 | 61 | 1.2 | 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 | 2.9 | 0.97 J | 9.3 | 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 | 3.7 | 1 U | 1 U | 9.3 | 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 | 39 | 46 | 130 | 110 | 22 | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Total BTEX (ND=0) | | TBTEX_ND0 | NE | ND | ND | ND | ND | 39 | 49.7 | 132.9 | 110.97 | 101.6 | 1.2 | ND | ND | ND | ND | ND |
| PAH17 | ug/L | | | | | | | | | | | | | | | | | |
| Acenaphthene | | 83-32-9 | 20* | 10 U | 10 U | 10 U | 10 U | 8.8 J | 10 | 2 J | 3.4 J | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acenaphthylene | | 208-96-8 | NE | 10 U | 10 U | 10 U | 10 U | 140 | 140 | 41 | 60 | 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 | 2.1 J | 1.8 J | 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 | 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 | 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 | 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 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 | 1 U | 1 U | 1 U | 1 U |
| Chrysene | | 218-01-9 | 0.002* | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 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 | 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 | 24 | 24 | 3.8 J | 6.8 J | 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 U | 2 U | 2 U | 2 U | 2 U | 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 | 170 | 150 | 120 | 140 | 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 | 900 | 870 | 1400 | 1300 | 10 | 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 | 16 | 15 | 1.3 J | 2.6 J | 10 U | 10 U | 10 U | 10 U | 10 U | 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 U | 10 U | 10 U |
| Total PAH (17) (ND=0) | | TPAH17_ND0 | NE | ND | ND | ND | ND | 1260.9 | 1210.8 | 1568.1 | 1512.8 | 10 | ND | ND | ND | ND | ND | ND |

		Sa	mple Name	HIMW-12S	HIMW-12IR	HIMW-12IR	HIMW-12IR	HIMW-13S	HIMW-13S	HIMW-13S	HIMW-13I	HIMW-13I	HIMW-13I	HIMW-13D	HIMW-13D	DUP-01	HIMW-13D	HIMW-14I
		S	ample Date	3/8/2022	9/23/2021	12/15/2021	3/8/2022	9/22/2021	12/14/2021	3/7/2022	9/22/2021	12/14/2021	3/8/2022	9/22/2021	12/14/2021	12/14/2021	3/7/2022	9/21/2021
	-	Par	ent Sample													HIMW-13D		
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	0.29 J	0.26 J	0.26 J	1 U	0.23 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	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	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	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	0.29	0.26	0.26	ND	0.23
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	3.6 J	4.3 J	4.1 J	6.2 J	3.1 J
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2.4 J	7.7 J	8.9 J	8.8 J	11	3.3 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	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	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	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	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 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	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 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	1 U	1 U	1 U	1 U	1 U	1 UJ
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	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	10 U	10 U	10 U	0.94 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	2 U	2 U	2 U	2 U	2 U	2 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	2.6 J	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	12	2 U	2 U	2 U	2 U	1.6 J
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	10 U	10 U	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 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	11.3	13.2	12.9	17.2	8.94

		Sa	ample Name	HIMW-14D	HIMW-15I	HIMW-15D	HIMW-20S	HIMW-20I	HIMW-20I	HIMW-22	HIMW-22	HIMW-22	HIMW-23	HIMW-23	HIMW-23	HIMW-24	HIMW-24	HIMW-24
		S	Sample Date	9/21/2021	9/22/2021	9/22/2021	9/22/2021	9/22/2021	3/7/2022	9/22/2021	12/15/2021	3/7/2022	9/22/2021	12/14/2021	3/7/2022	9/20/2021	12/14/2021	3/7/2022
		Pa	rent Sample															
Analyte	Units	CAS No.	NYS AWQS															
BTEX	ug/L																	
Benzene		71-43-2	1	0.22 J	0.21 J	1 U	1 U	1 U	1 U	1 U	1 U	0.75 J	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	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	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	1.8 J	2 U	2 U	2 U	11	2 U	2.1
Total BTEX (ND=0)		TBTEX_ND0	NE	0.22	0.21	ND	ND	ND	ND	ND	ND	2.55	ND	ND	ND	11	ND	2.1
PAH17	ug/L																	
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	3.7 J	10 U	10 U	10 U	10 U	10 U	10 U				
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	13	10 U	10 U	10 U	5.9 J	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	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	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	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 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	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 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	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	1.3 J	10 U	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	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	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	2.2 J	10 U	10 U	10 U	10 U	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 U	10 U	10 U				
Total PAH (17) (ND=0)		TPAH17_ND0	0 NE	ND	ND	ND	ND	ND	ND	ND	ND	18.9	ND	ND	ND	7.2	ND	ND

		Sa S Par	mple Name ample Date ent Sample	HIMW-25 9/21/2021	HIMW-25 3/7/2022	HIMW-26I 9/23/2021	HIMW-26D 9/23/2021	HIMW-26D 3/8/2022	HIMW-27S 9/20/2021	HIMW-27S 3/7/2022	HIMW-27I 9/20/2021	HIMW-28S 9/20/2021	HIMW-28S 3/7/2022	HIMW-28I 9/20/2021	DUP-01 9/20/2021 HIMW-28I
Analyte	Units	CAS No.	NYS AWQS												
BTEX	ug/L														
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	2	2.2	1 U	1.6	2.5	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	5.2	9.7	1 U	3.1	0.95 J	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	270	400	1 U	150	35	1 U	1 U
Total Xylene		1330-20-7	5	2 U	2	2 U	4	2.5	280	430	2 U	20	9	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	2	ND	4	2.5	557.2	841.9	ND	174.7	47.45	ND	ND
PAH17	ug/L														
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	3.2 J	3.1 J	56	78	10 U	24	25	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	46	43	3.9 J	3.4 J	10 U	1.9 J	2.8 J	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	6.6 J	7.4 J	10 U	2.5 J	5.2 J	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	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	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	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	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	1 U
Chrysene		218-01-9	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 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	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	1.5 J	1.9 J	10 U	10 U	1.3 J	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	9.9 J	9.4 J	40	38	10 U	16	25	10 U	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	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	120	90	230	240	10 U	20 J	27	10 U	10 U
Naphthalene		91-20-3	10*	2 U	2 U	2 U	220	100	720	690	2 U	310 J	84	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10	9.8 J	40	38	10 U	15	34	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	1.7 J	2.5 J	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	409.1	255.3	1099.7	1099.2	ND	389.4	204.3	ND	ND

Table 6. Hempstead IntersectionGroundwater Analysis ResultsNational GridHempstead, NY

Notes:

Analytes in blue are not detected in any sample

ug/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

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

Data Qualifiers:

J = The result is an estimated value.

U = The result was not detected above the reporting limit.

UJ = The results was not detected at or above the reporting limit shown and the reporting limit is estimated.

April 2022

Table 7. Groundwater Treatment Performance Monitoring, April 2021 - March 2022 Hempstead Intersection Street Former MGP Site National Grid Hempstead, New York

	Q2 2	2021	Q3 2	2021	Q4 2	2021	Q1 2	2022
	Ju	ne	Septe	ember	Dece	mber	Ma	rch
ID	DTW (ft)	_{ро} (mg/L)	DTW (ft)	_{ро} (mg/L)	DTW (ft)	_{ро} (mg/L)	DTW (ft)	₀ (mg/L)
MP-1-1S	26.19	7	25.11	27	25.63	11	25.83	17
MP-1-1D	26.29	13	25.15	29	25.32	11	25.78	10
MP-1-2S	20.82	22	19.34	14	20.17	2	20.31	9
MP-1-2D	20.51	21	19.57	24	19.72	20	20.14	19
MP-1-3S	18.66	21	17.67	17	17.97	22	18.21	15
MP-1-3D	18.71	25	17.61	13	17.91	26	18.17	13
MP-1-4S	21.31	19	20.26	6	20.59	18	20.80	6
MP-1-4D	21.49	9	NM	NM	20.75	7	20.96	20
MP-1-5	25.71	19	24.74	24	24.43	21	25.51	10
MP-1-6	NM	NM	17.16	7	17.50	15	17.79	11
MP-1-7	21.33	23	20.47	25	20.80	4	21.01	7
MP-1-8	22.75	20	21.80	13	22.20	5	22.45	10

System #2

	Q2 2	2020	Q3 2	2020	Q4 2	2020	Q1 2021		
	Ju	ne	Septe	ember	Dece	mber	Ма	rch	
ID	DTW (ft)	₀ (mg/L)	DTW (ft)	_{во} (mg/L)	DTW (ft)	_{во} (mg/L)	DTW (ft)	₀₀ (mg/L)	
MP-2-1	29.15	12	27.82	16	NM	NM	NM	NM	
MP-2-2	30.70	14	29.31	22	NM	NM	NM	NM	
MP-2-3S	NM*	NM*	NM*	NM*	NM	NM	NM	NM	
MP-2-3D	30.82	13	34.57 13		NM	NM	NM	NM	
MP-2-4	19.19	15	17.89	10	NM	NM	NM	NM	
MP-2-5	17.41	7	16.12	9	NM	NM	NM	NM	

Notes:

MGP=Manufactured Gas Plant

DTW=Depth to water (feet)

O2=Oxygen measurement of well headspace (percent oxygen)

PID=Photoionization Detector measurement of well headspace (parts per million)

DO=Dissolved Oxygen concentration (percent of milligrams per liter)

NM=Not Measured

NA:=Not Accessible

ppm=parts per million

mg/L=milligrams per liter

ft=feet

Periodic Review Report March 28, 2021 – March 28, 2022 Hempstead Intersection Street Former MGP Site Town of Hempstead, Nassau County, New York Site ID #1-30-086 April 2022

Figures













Parcel ID

34.-145-209

34.-147-102

34.-147-116

34.-147-140

34.-147-158

34.-147-200

34.-147-242

34.-147-243

34.-147-245

34.-147-247

34.-147-248

34.-147-93

34.-147-98

34.-173-1

34.-173-12

34.-173-13

34.-173-14

34.-173-3

34.-174-1

34.-174-11

34.-174-13

34.-174-14

34.-174-15

34.-174-17

34.-174-5

34.-174-8

34.-175-1

34.-175-2

34.-175-204

34.-175-205

34.-175-207

34.-175-208

34.-175-209

34.-175-210

34.-175-8

34.-176-1

34.-176-10

34.-176-103

34.-176-104

34.-176-106

34.-176-11

34.-176-113 34.-176-12

34.-176-14

34.-176-213

34.-176-9

34.-544-10

34.-544-23

34.-544-25

34.-544-26

34.-544-9

34.-545-10

34.-545-11

34.-545-20

34.-545-23

34.-545-25

34.-545-26

34.-545-27

34.-545-28

34.-174-208.A

34.-174-208.B

34.-174-209.B

Parcel Address

18 Hilton Ave

101 Second St

34 Hamilton PI

April 2022

38 Hamilton PI 131 Second St Franklin Ave 12 Hamilton PI Franklin Ave 40 Hamilton PI 133 Second St 135 Second St 19 Hilton Ave 15 Hilton Ave Cedar Valley Ave 230 Hilton Ave 7 Medical St 200 Hilton Ave Hilton Ave Wendell St 45 Intersection St 299 N Franklin St 301 Franklin St 130 Franklin Ave 23 Intersection St Cedar Valley Ave Intersection St Intersection St 301-305 Franklin St 283 Franklin St 49 Sealy Ave 55 Sealey Ave 63 Smith St 77 Smith St 61 Sealey Ave 57 Sealey Ave 73-75 Sealey Ave 77 Sealey Ave Intersection St 283 N Franklin St 277 N Franklin St 283 N Franklin St 17 Smith St 32-44 Intersection St Sealey Ave 17-21 Smith St 54 Sealey Ave 273 Franklin St 52 Sealey Ave 265 N Franklin St 17 Barnes Ln 12 Hilton Ave 90 Second St 92 Second St 19 Barnes Ln 20 Barnes Ln 16 Barnes Ln 225 Hilton Ave 235 Hilton Ave

PARCEL BOUNDARIES

217 Hilton Ave

179 Atlantic Ave

215 Hilton Ave

189 Atlantic Ave

Fig. 3





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22 N	ONITORING	G WELL			
P	PIEZOMETER	२			
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N	IATIONAL G	RID PROPERT	Y LINE		
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Ģ	GREATER TH	HAN 100 ug/L			
E	STIMATED	EXTENT OF G	ROUNDV	VATER PLUME DEI	FINED BY
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C	CONCENTRA	ATIONS LIKELY	INFLUE	NCED BY THIRD P	ARTY
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	GREATER TH	HAN 1000 ug/L			
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V	VELL WAS N	NOT SAMPLED			
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	IS IN GREEN AF	ENT THE HISTORIC	AL RANGE		
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			EXTE	NT OF DISSOL	VED PHASE
			PLU	ME AND GROU	NDWATER
	1(-F		A		-SULIS
		Consultants		SEFIEIVIBER	2021
	Project	1905774	April 2	022	Fig. 5



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		ENUE			
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	D	L	FUL		<i>`</i> /
L'h				Z BELL STAL	
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89 [12]			AVENUE		
<u>:</u>					
1 O 22 M	XYGEN SYST	EM MONITC	RING W	ELL	
P	IEZOMETER				
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— N	ATIONAL GRI	D PROPERT	Y LINE		
E T G	STIMATED EX OTAL BTEX C REATER THA	(TENT OF G R TOTAL PA N 100 ug/L	ROUNDV AH CONC	VATER PLUME DEFINI ENTRATIONS EQUAL	ED BY TO OR
— Е Т С	STIMATED EX OTAL BTEX C ONCENTRAT	(TENT OF G R TOTAL PA	ROUNDV AH CONC / INFLUE	VATER PLUME DEFINI ENTRATIONS. CONT/ NCED BY THIRD PAR	ED BY AMINATION TY
— Е Т	STIMATED EX	TENT OF G	ROUNDV AH CONC	VATER PLUME DEFINI ENTRATIONS EQUAL	ED BY TO OR
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	VELL WAS SA	T SAMPLED			
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	S ARE MICROGRA	MS PER LITER			
ON UNIT	SIN GREEN ARE	THE HISTORICA	AL RANGE		
			EXTE	NT OF DISSOLVE	D PHASE
			PLU	ME AND GROUND	WATER
	GEL	Consultants		MARCH 2022	JLIS
	Project 1	905774	April 2	022	Fig. 6





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HIMW-003S,I,D	HIMW-008S,I,D	HIMW-011S,I	HIMW-014 I,D	HIMW-022	HIMW-025
DEPTH TOT. BTEX TOT. PAHs	DEPTH TOT. BTEX TOT. PAHs	DEPTH TOT. BTEX TOT. PAHs	<u>DEPTH TOT. BTEX</u> <u>TOT. PAHs</u>	DEPTH TOT. BTEX TOT. PAHs	DEPTH TOT. BTEX TOT. PAHs
23-33 ND-36 (ND) ND (ND)	25-35 ND-8,240 (ND) ND-3,069(3)	28-38 603-13,920 2,813-13,076	85-95 2-273(29) 19-288 (42)	54-64 ND ND	42-52 552 573
80.5-90.5 ND-13(ND) ND (ND)	63-73 ND-457 (ND) ND-251 (ND)	80-90 ND-49 ND-3	140-150 ND-15 (ND) ND-6 (ND)	· · · ·	·
1.3.3-14.3 ND-8.2(ND) ND-30(ND)	102-112 ND-16 (ND) ND-46 (ND)		<u>.</u>		
HIMW-004S,I,D	HIMW-009S,I,D	HIMW-012S,I,D	HIMW-015I,D	HIMW-023	OSMW-02
HIMW-004S,I,D DEPTH TOT. BTEX TOT. PAHs	HIMW-009S,I,D DEPTH IOT. BTEX IOT. PAHS	HIMW-012S,I,D DEPTH TOT. BTEX TOT. PAHS	HIMW-015 I,D DEPTH TOT. BTEX TOT. PAHs	HIMW-023 DEPTH TOT. BTEX TOT. PAHS	OSMW-02 DEPTH TOT. BTEX TOT. PAHs
HIMW-004S,I,D DEPTH TOT. BTEX TOT. PAHs 30-40 ND-4 ND-1	HIMW-009S,I,D <u>DEPTH TOT. BTEX TOT. PAHs</u> 28-38 ND-16 ND-8	HIMW-012S,I,D <u>DEPTH</u> <u>TOT. BTEX</u> <u>TOT. PAHs</u> 22-32 ND-338.8 (ND) ND-1,391 (ND)	HIMW-015 I,D <u>DEPTH</u> <u>TOT. BTEX</u> <u>TOT. PAHs</u> 80-90 1-111 (23) ND-273 (31)	HIMW-023 DEPTH TOT. BTEX TOT. PAHs 66-76 43 11	OSMW-02 <u>DEPTH TOT. BTEX TOT. PAHs</u> 30-40 2,604 3,517
HIMW-004S,I,D DEPTH TOT. BTEX TOT. PAHs 30-40 ND-4 ND-1 80-90 ND-13 ND	HIMW-009S,1,D <u>DEPTH</u> <u>IOT. BTEX</u> <u>IOT. PAHs</u> 28-38 ND-16 ND-8 70-80 ND-2 ND	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)	HIMW-015 I,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 IOI. BTEX IOI. PAHs 66-76 43 11	OSMW-02 DEPTH IOT. BIEX IOT. PAHs 30-40 2,604 3,517
HIMW-004S,I,D DEPTH TOT. BTEX TOT. PAHs 30-40 ND-4 ND-1 ND-1 ND 167-177 ND-4 ND-1	HIMW-009S,I,D DEPTH IOT. BTEX IOT. 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-015 I,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		HIMW-0	10S,I,D		HIMW-0	13S,I,D		HIMW-	020S,I		HIMW-	024	-	[OSMW-	-03	
<u>DEPTH</u>	TOT. BTEX	TOT. PAHs	DEPTH	TOT. BTEX	TOT. PAHs	<u>DEPTH</u>	TOT. BTEX	TOT. PAHs	DEPTH	TOT. BTEX	TOT. PAHs	<u>DEPTH</u>	TOT. BTEX	TOT. PAHs		<u>DEPTH</u>	TOT. BTEX	TOT. PAHs
27-37	ND-232 (ND)	ND-765 (ND)	28-38	ND-33	1-150	38-48	ND-11(ND)	ND (ND)	25-35	ND-3 (ND)	ND-5 (ND)	44.6-54.6	870	1,020		29-39	4,301	2,911
80-90	50-439 (146)	891-5,337 (2,120)	80.5-90.5	ND-13	ND	70-80	ND-313 (142)	ND-156 (67)	63-73	ND-474 (198)	ND-3,968 (530)							
130-140	ND-359 (133)	ND-2,698 (166)	112.5-132.5	ND-16	ND	110-120	1-30 (2)	ND-28 (17)										



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Fig. 17

PROVIDED BY CLIENT.
MENSIONS B & C ON WELLS AND PIPE CROSSING DEPTHS WERE ERING DURING CONSTRUCTION.

OBTAINED BY GALLAS ROVIDED BY CLIENT.	SURVEYING GROUP.	ELEVATION DATUM IS

MP-2-2	94'
MP-2-3D	97'
MP-2-3S	73.5'
MP-2-4	70.2'
MP-2-5	61.7'

 	//	
- - - -	RANSOM PL	
MELAN MELAN		-TRACE HOCES
	· · · · · ·	

	WELL	DIMENSION			
	NO.	A	В	С	D
T	2	2-1/2"	11"	2'-1"	90.2'
H	3	2-1/2"	10"	1'-11"	94.3'
10	4	3"	1'-2"	1'-11"	94.7'
Ũ	5	3-1/2"	9"	1'-10"	95.3'
7	6	2-1/2"	9-1/2"	1'-9"	95.7'
0	7	2 1/2"	10"	1' 11"	06'
Ĕ	,	3-1/2	10	1-11	90
IG	8	3-1/2	9-1/2	1-11"	96.3
	9D	4-1/2"	8-1/2"	1'-11"	96.7
NS/	9S	3-1/2"	11"	1'-9 1/2"	75'
E	10S	2"	9"	2'-0"	75'
K	10D	2"	9-1/2"	2'-0"	97.2'
	11S	6"	9"	2'-0"	76.5'
E	11D	4"	9"	2'-0"	100.8'
Υ	12	4-3/4"	1'-0"	2'-4"	94'
ł	135	5 1/2"	1' 2"	2' 2 1/2"	75'
N	100	J-1/2	1-2	2-3 1/2	75
2	130	0	1-1	2-0	97
$ \mathbf{T} $	14	5-1/2"	11"	2'-2"	96.4'
H	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'
	180	FLUSH	0"	1' 0"	05.5'
	100	FLUCH	0.4/0"	1-5	95.5
	19	FLUSH	9-1/2	1-9 1/2"	96.1
LY	205	FLUSH	11"	2'-1/2"	74'
R'	20D	FLUSH	11"	1'-11 1/2"	96.6'
E	21	3"	1'-1"	1'-8"	96.6'
PP	22S	5"	1'-1 1/2"	2'-0"	76'
R(22D	4"	1'-4"	2'-4"	96.3'
Р	23	2"	1'-1"	2'-2"	97.2'
L	24S	2-1/2"	1'-1/2"	1'-10"	77.8'
Υ	24D	3-1/4'	1'-2"	1'_11"	97'
T	25	2"	1' 1"	1' 0"	06'
Z	20	0"	41.0"	01.0"	74
DE	205	3	1-0	2-2	74
SI	26D	3"	1'-1"	2'-0"	95'
E	27	2"	1'-0"	1'-11"	93.5'
R	28S	2-1/2"	11"	1'-11"	76'
	28D	4"	1'-1/2"	2'-0"	92.1'
4	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	۵"	6"	1'_11"	8/1
	*20	-+	1.0	01.01	004
	33	8" 6"	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'
V	37	2-3/4"	1'-1/2"	1'-11"	62.8'
E	38	3-3/4"	1'-1 3/4"	2'-0"	62.1'
K	39	4"	1'-3/4"	2'-0"	60'
F	40	3-3/4"	11-1/2"	1'-11"	61.7'
K	41	4-3/4"	1'-0"	1'-11"	61.7'
I R	40	2 1/0"	1.1/0"	1 44	61.61
$\mathbf{P}_{\mathbf{A}}$	42	3-1/2"	1-1/2	0.01	01.0
· ·	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'
	47	2-1/2			



SYSTEM #2 OXYGEN











Periodic Review Report March 28, 2021 – March 28, 2022 Hempstead Intersection Street Former MGP Site Town of Hempstead, Nassau County, New York Site ID #1-30-086 April 2022

Appendix A

NYSDEC Correspondence

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau C 625 Broadway, 12th Floor, Albany, NY 12233-7014 P: (518) 402-9662 I F: (518) 402-9679 www.dec.ny.gov

January 3, 2022

Michael Quinlan Senior Program Manager Site Investigation and Remediation National Grid 1754 East Old Country Road Hicksville, NY 11801 michael.quinlan@nationalgrid.com

RE: Hempstead (Intersection Street) Former MGP Site, Hempstead, Nassau Co. Site 130086 Proposed Reductions to Groundwater Monitoring

Dear Mr. Quinlan:

The New York State Department of Environmental Conservation (NYSDEC) is in receipt of your November 2, 2021 letter requesting a reduction in the requirements for groundwater sampling at the subject site. The NYSDEC hereby approves of National Grid's request as detailed in your letter.

Please submit a revised Site Management Plan to reflect the groundwater monitoring changes.

Sincerely, John Spillman

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

ec: Christopher Morris, GEI Consultants, <u>cmorris@geiconsultants.com</u> Jacquelyn Nealon, NYSDOH, <u>jacquelyn.nealon@health.ny.gov</u>



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau C 625 Broadway, 12th Floor, Albany, NY 12233-7014 P: (518) 402-9662 I F: (518) 402-9679 www.dec.ny.gov

October 7, 2021

Michael Quinlan Senior Project Manager Site Investigation and Remediation Dept. National Grid 175 East Old Country Road Hicksville, NY 11801 Michael.Quinlan@nationalgrid.com

RE: Hempstead (Intersection Street) Former MGP Site, Hempstead, Nassau Co. Site 130086 Oxygen Injection System #2

Dear Mr. Quinlan:

The New York State Department of Environmental Conservation is in receipt of your October 5, 2021 proposal to shut down Oxygen System #2 located downgradient of the Hempstead Intersection Street Former Manufactured Gas Plant Site. National Grid's proposal is approved.

Sincerely, John Spillman

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



Department of Environmental Conservation Periodic Review Report March 28, 2021 – March 28, 2022 Hempstead Intersection Street Former MGP Site Town of Hempstead, Nassau County, New York Site ID #1-30-086 April 2022

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 10, 2022	Inspector:	Craig Hayes
Weather:	Partly Cloudy	Signature:	Ciaig Hayet
Temperature:	34-48°F	Company:	GEI Consultants
Seasor	n (circle one): Winter	Spring	Summer Fall

SITE INSPECTION LOG SHEET*

Evidence of Change in Site Use	Yes No	Description of New/Additional Site Use	
Evidence of Site-Wide Disturbance(s)	Yes No	Description of Disturbance(s)	
Evidence of Site-Wide Excavation	Yes	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:	No site	changes from previo	us PRR.

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

Periodic Review Report March 28, 2021 – March 28, 2022 Hempstead Intersection Street Former MGP Site Town of Hempstead, Nassau County, New York Site ID #1-30-086 April 2022

Appendix C

Data Usability Summary Reports



Site:	Downstate OMM Hempstead
Laboratory:	Eurofins Test America, Edison, NJ
Report Number:	460-243259-1, 460-243461-1, 460-243676-1 and 460-243714-1
Reviewer:	Elissa McDonagh/GEI Consultants
Date:	October 5, 2021

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
TB092021	460-243259-1	BTEX
HIMW-28S	460-243259-2	BTEX, PAH
HIMW-28I	460-243259-3	BTEX, PAH
DUP-01	460-243259-4	BTEX, PAH
FB092021	460-243259-5	BTEX, PAH
HIMW-27S	460-243259-6	BTEX, PAH
HIMW-27I	460-243259-7	BTEX, PAH
HIMW-24	460-243259-8	BTEX, PAH
TB092121	460-243461-1	BTEX
HIMW-08S	460-243461-2	BTEX, PAH
HIMW-08I	460-243461-3	BTEX, PAH
HIMW-08D	460-243461-4	BTEX, PAH
FB092121	460-243461-5	BTEX, PAH
DUP-02	460-243461-6	BTEX, PAH
HIMW-25	460-243461-7	BTEX, PAH
HIMW-03S	460-243461-8	BTEX, PAH
HIMW-03I	460-243461-9	BTEX, PAH
HIMW-03D	460-243461-10	BTEX, PAH
HIMW-14D	460-243461-11	BTEX, PAH
HIMW-14I	460-243461-12	BTEX, PAH
TB092321	460-243676-1	BTEX
HIMW-05S	460-243676-2	BTEX, PAH
HIMW-05I	460-243676-3	BTEX, PAH
HIMW-05D	460-243676-4	BTEX, PAH
HIMW-26D	460-243676-5	BTEX, PAH
HIMW-26I	460-243676-6	BTEX, PAH
HIMW-12S	460-243676-7	BTEX, PAH
HIMW-12IR	460-243676-8	BTEX, PAH
TB092221	460-243714-1	BTEX
HIMW-22	460-243714-2	BTEX, PAH
HIMW-23	460-243714-3	BTEX, PAH
HIMW-20S	460-243714-4	BTEX, PAH
HIMW-20I	460-243714-5	BTEX, PAH
HIMW-13S	460-243714-6	BTEX, PAH
HIMW-13I	460-243714-7	BTEX, PAH

Site: Downstate OMM Hempstead Report Number: 460-243259-1, 460-243461-1, 460-243676-1 and 460-243714-1 Date: October 5, 2021

HIMW-13D	460-243714-8	BTEX, PAH
HIMW-15I	460-243714-9	BTEX, PAH
HIMW-15D	460-243714-10	BTEX, PAH

Associated QC Samples:

Trip Blank:	ТВ092021, ТВ092121, ТВ092221, ТВ092321
Field Blank:	FB092021, FB092121
Matrix Spike:	HIMW-28S, HIMW-25
Field Duplicate pair:	HIMW-28I/DUP-01, HIMW-08D/DUP-02

The above-listed aqueous samples, and trip blank sample were collected on September 20, 21, 22 and 23, 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

In general, the data appear usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as received by the laboratory.
Site: Downstate OMM Hempstead Report Number: 460-243259-1, 460-243461-1, 460-243676-1 and 460-243714-1 Date: October 5, 2021

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	Indeno(123cd)pyrene	35.0 %R	Estimate (UJ) the nondetect results for
CCVIS 09/25/2021 19:51	Dibenz(ah)anthracene	21.7 %R	indeno(123cd)pyrene and dibenz(ah)anthracene in the associated sample HIMW-14I.

Associated sample: HIMW-14I

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.

<u>Blanks</u>

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 surrogate criteria were met for samples analyzed at dilutions less than 10.

MS/MSD Results

MS/MSD analyses were performed on samples HIMW-28S and HIMW-25 for VOCs and SVOCs. All recovery and precision criteria were met, except where noted below. The following table lists the recoveries outside of laboratory control limits and the resulting actions.

HIMW-28S					
Analyte	MS (%)	MSD (%)	RPD (%)	Control Limits (%)	Validation Action/Bias
Ethylbenzene	52	126	Criteria met	78-120	Qualifications were not required. The sample result was >4x the spiking solution.

Site: Downstate OMM Hempstead Report Number: 460-243259-1, 460-243461-1, 460-243676-1 and 460-243714-1 Date: October 5, 2021

2-methylnaphthalene	Criteria met	113	Criteria met	55-111	Estimate (J) the positive result for 2- methylnaphthalene in sample HIMW-28S; High bias.
Benzo[a]pyrene	160	Criteria met	Criteria met	66-127	Qualifications were not required.
Benzo[b]fluoranthene	149	Criteria met	Criteria met	66-125	
Benzo[k]fluoranthene	156	Criteria met	37	64-125, <30	Qualifications were not required.
Naphthalene	Criteria met	41	Criteria met	58-105	Estimate (J) the positive result for naphthalene in sample HIMW-28S; Low bias.

Internal Standard Results

All internal standard criteria were met.

Internal standard (ISTD) response for 1,4-Dioxane-d8 for sample HIMW-23 was outside acceptance criteria. This ISTD does not correspond to any of the requested target compounds; no action required.

LCS Results

All recovery and precision criteria were met, except where noted below. The following table lists the recoveries outside of laboratory control limits and the resulting actions.

Compound	LCS (%)	LCSD (%)	Control Limits (%)	LCS ID/Associated samples	Validation Action/Bias
2-methylnaphthalene	115	117	55-111	LCS 460-803359/2-A/LCSD 460-803359/3-A: HIMW-14I	2-methylnaphthalene was not detected in the associated sample. Qualifications were not required.
Critoria mot					

Field Duplicate Results

Samples HIMW-28I and DUP-01 and HIMW-08D and DUP-02 were submitted as the field duplicate pairs with this sample group. The VOC and SVOC analyses were nondetect. 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.

The following table lists the sample dilutions and re-analyses which were performed.

Site: Downstate OMM Hempstead Report Number: 460-243259-1, 460-243461-1, 460-243676-1 and 460-243714-1 Date: October 5, 2021

Sample	VOC
HIMW-27S	2-fold dilution
	SVOC
HIMW-28S	Undiluted analysis and 2-fold dilution. Report the result for naphthalene from the 2-fold dilution. Report all other results from the undiluted analysis.
HIMW-27S	Undiluted analysis and 10-fold dilution. Report the results for 2-methylnaphthalene and naphthalene from the 10-fold dilution. Report all other results from the undiluted analysis.
HIMW-05I	Undiluted analysis and 20-fold dilution. Report the result for naphthalene from the 20-fold dilution. Report all other results from the undiluted analysis.
HIMW-05D	Undiluted analysis and 20-fold dilution. Report the result for naphthalene from the 20-fold dilution. Report all other results from the undiluted analysis.
HIMW-26D	Undiluted analysis and 5-fold dilution. Report the result for naphthalene from the 5-fold dilution. Report all other results from the undiluted analysis.

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.



Site:	Downstate OMM Hempstead
Laboratory:	Eurofins Test America, Edison, NJ
Report Number:	460-249381-1 and 460-249467-1
Reviewer:	Elissa McDonagh/GEI Consultants
Date:	January 10, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
HIMW-13S	460-249381-1	BTEX, PAH
HIMW-13I	460-249381-2	BTEX, PAH
HIMW-13D	460-249381-3	BTEX, PAH
HIMW-23	460-249381-4	BTEX, PAH
HIMW-24	460-249381-5	BTEX, PAH
DUP-01	460-249381-6	BTEX, PAH
FB-121421	460-249381-7	BTEX, PAH
TB-121421	460-249381-8	BTEX
TB-121521	460-249467-1	BTEX
HIMW-12S	460-249467-2	BTEX, PAH
HIMW-12I	460-249467-3	BTEX, PAH
HIMW-22	460-249467-4	BTEX, PAH

Associated QC Samples:

Trip Blank:	TB-121421, TB-121521
Field Blank:	FB-121421
Matrix Spike:	HIMW-13I
Field Duplicate pair:	HIMW-13D/DUP-01

The above-listed aqueous samples, field and trip blank samples were collected on December 14 and 15, 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-33A (Revision 0) *Low/Medium Volatile Data Validation* (July 2015) and SOP HW-35A (Revision 0) *Semivolatile Data Validation* (June 2015) 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

Site: Downstate OMM Hempstead Report Number: 460-249381-1, 460-249467-1 Date: January 10, 2022

- Internal Standard Results
- Laboratory Control Sample (LCS) Results
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

In general, the data appear usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

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.

<u>Blanks</u>

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 surrogate criteria were met for samples analyzed at dilutions less than 10.

MS/MSD Results

MS/MSD analyses were performed on sample HIMW-13I for VOCs and SVOCs. All recovery and precision criteria were met.

Internal Standard Results

All internal standard criteria were met.

LCS Results

All recovery and precision criteria were met.

Site: Downstate OMM Hempstead Report Number: 460-249381-1, 460-249467-1 Date: January 10, 2022

Field Duplicate Results

Samples HIMW-13D and DUP-01 were submitted as the field duplicate pair with this sample set. The following table summarizes the RPDs of the detected analytes in the field duplicate pair, which were within the acceptance criteria.

Analyte	HIMW-13D (ug/L)	DUP-01 (ug/L)	RPD (%)		
Benzene	0.26J	0.26J	0		
Acenaphthene	4.3J	4.1J	4.8		
Acenaphthylene	8.9J	8.8J	1.1		
NC – Not calculable					
Criteria: When both results are $\geq 5x$ the RL, RPDs must be $<30\%$.					
When results are $< 5x$ the RL, professional judgment was used to qualify results in which the absolute difference between the					
original and field duplicate was > 2xRL					

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.

Dilutions were not required.

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.



Site:	Downstate OMM Hempstead
Laboratory:	Eurofins Test America, Edison, NJ
Report Numbers:	460-253996-1 and 460-254032-1
Reviewer:	Elissa McDonagh/GEI Consultants
Date:	March 21, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
TB-030722	460-253996-1	BTEX
HIMW-27S	460-253996-2	BTEX, PAH
HIMW-28S	460-253996-3	BTEX, PAH
HIMW-08S	460-253996-4	BTEX, PAH
HIMW-25	460-253996-5	BTEX, PAH
HIMW-24	460-253996-6	BTEX, PAH
HIMW-20I	460-253996-7	BTEX, PAH
HIMW-23	460-253996-8	BTEX, PAH
HIMW-22	460-253996-9	BTEX, PAH
HIMW-13D	460-253996-10	BTEX, PAH
HIMW-13S	460-253996-11	BTEX, PAH
FB-030722	460-253996-12	BTEX, PAH
TB-030822	460-254032-1	BTEX
HIMW-12IR	460-254032-2	BTEX, PAH
HIMW-12S	460-254032-3	BTEX, PAH
HIMW-26D	460-254032-4	BTEX, PAH
HIMW-05I	460-254032-5	BTEX, PAH
HIMW-13I	460-254032-6	BTEX, PAH
HIMW-05D	460-254032-7	BTEX, PAH
DUP-01	460-254032-8	BTEX, PAH

Associated QC Samples:

Trip Blank:	TB-030722, TB-030822
Field Blank:	FB-030722
Matrix Spike:	HIMW-12S
Field Duplicate pair:	HIMW-26D/DUP-01

The above-listed aqueous samples, field blank, and trip blank sample were collected on March 7 and 8, 2022 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-33a (Revision 1) *Low/Medium Volatile Data Validation* (September 2016) and SOP HW-35a (Revision 1) *Semivolatile Data Validation* (September 2016) as well as by the methods referenced by the data package and professional and technical judgment.

Site: Downstate OMM Hempstead Report Numbers: 460-253996-1, 460-254032-1 Date: March 21, 2022

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

In general, the data appear usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers. Select results were qualified as estimated due to low level uncertainty for levels below the reporting limit. All 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.

<u>Blanks</u>

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 surrogate criteria were met for samples analyzed at dilutions less than 10.

Site: Downstate OMM Hempstead Report Numbers: 460-253996-1, 460-254032-1 Date: March 21, 2022

MS/MSD Results

MS/MSD analyses were performed on sample HIMW-12S for VOCs and SVOCs. All recovery and precision criteria were met.

Internal Standard Results

All internal standard criteria were met.

LCS Results

All recovery and precision criteria were met.

Field Duplicate Results

Samples HIMW-26D and DUP-01 were submitted as the field duplicate pair with this sample set. The following table summarizes the RPDs of the detected analytes in the field duplicate pair, which were within the acceptance criteria.

Analyte	HIMW-26D (ug/L)	DUP-01 (ug/L)	RPD (%)
Xylenes, total	2.5	2.7	7.7
2-methylnaphthalene	90	99	9.5
Acenaphthene	3.1J	3.6J	15
Acenaphthylene	43	49	13
Fluorene	9.4J	11	16
Naphthalene	100	98	2.0
Phenanthrene	9.8J	11	12
	NC – Not calc	culable	
Cri	iteria: When both results are ≥5x t	he RL, RPDs must be <30%	<i>.</i>
When regults are < 5x the DI nr	of accional judgment was used to	walify regults in which the	absolute difference between the

When results are < 5x the RL, professional judgment was used to qualify results in which the absolute difference between the original and field duplicate was > 2xRL

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.

The following table lists the sample dilutions and re-analyses which were reported.

Sample	Reported Dilutions/Analyses
	VOC
HIMW-27S	2-fold dilution

Site: Downstate OMM Hempstead Report Numbers: 460-253996-1, 460-254032-1 Date: March 21, 2022

Sample	Reported Dilutions/Analyses
	SVOC
HIMW-27S	Undiluted analysis and 5X dilution. Report 2-methylnaphthalene and naphthalene from the 5X dilution. Report all other results from the undiluted analysis.
HIMW-05I	Undiluted analysis and 10X dilution. Report naphthalene from the 10X dilution. Report all other results from the undiluted analysis.
HIMW-05D	Undiluted analysis and 10X dilution. Report naphthalene from the 10X dilution. Report all other results from the undiluted analysis.

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.

Periodic Review Report March 28, 2021 – March 28, 2022 Hempstead Intersection Street Former MGP Site Town of Hempstead, Nassau County, New York Site ID #1-30-086 April 2022

Appendix D

Oxygen System Operations & Maintenance Measurements

		OXYG. Kanasi	in Mjec Est inter	TION OPERA	TION A	NC MAIL	ITENANO	E LOG SHE	ET Iv 1			
Oxygen l	njection (N	Remedial ational G	l System Irid	Number 1	Date: 1/17/22 Time: 0745 Weather: 405, Raily							
l	Interim I Pretoct I	Remedia No. 1703	Measure	i .	1 1 1 1 1	insid	de Trailer F	Temperature Ionformed By:	Ulani C.H	ry Ope	va Acres	
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Hours			41,95	+	Compre	ssor Tar	ìК °		125		(psi)	
Fect Air Pres	2000 °		125	(p:si);	Delicon	Air			125		(173i)	
Cycle Precow (L / R)	fe *	High: Low:	671	71 (poi) 2 (poi)	Element	Cutlot 7	Гомрасти	11 2	203		(¹ F)	
Oxygen Rece	iver Pres	ssure *		63	Running	Hours			24,2	0	(hours)	
Oxygen Rece	iver Tan	k Pressu	re		Loading	Hours			16,60	<u>!</u> 6	(hours)	
Oxygen Purit	f	к.) [.]	<u>83.7%</u>	(percent)	مر میں ایک ور میں ایک ور میں ایک و							
* 	irg deirge	100103 <i>0</i> 3	: '3	۱ مەمە خەلەر بەر مەمەر مەمەر كەر بىرى بىرى بىرى بىرى بىرى بىرى بىرى بى	* maximus	n enclog	aning (asd	r). <i>cycl</i> o			; ; ;	
Heuro:	5,66	.08		·	Conden	sate P <i>u</i> r	ged (Ø 1	N) Conder	isale Em	pried (Y	DN)	
n an	nicction E	ank 1	urri i	\$	laiccion B	<u>2</u>		Mandanovarnovarna Pindarovagov v skoj lonio	<u>Internition II</u> From Mitchell	<u>234 3</u> 	r.r.j	
1 1 - CV2-1-3	 	33	26.D	. 0%-4- 35	3.0	31	180	-C-VV-d-C-C-	1 (3.5	30	28,0	
CW-1-2	33.5	Point	OFF	OW41-65	67.G	27	18.0	OW-1-100	67.2	32	27.0	
OW-1-3	96.3	30	31,0	ON-1-75	· 69 .9	32	17.0	·OW-1-11D	.90.1	30	A.0	
OW-1-5	85.0	32	30.0	0111-1-6S	627	30	18.0	0:3:-1-120	85.2	31	28.0	
OW:-1-5D	\$3. 9	31	29.0	011-1-05	ene	29	0.81	M C-149	84.7	30	28.0	
OWA-1-80	82.4	30	29.0	0141-105	54,6	31	13.0	033-1-140	84.1	34	29.0	
QW-4-7D	Ð4.1	30	29.0	OM-1-145	6 8.4	31	(4.0	OM2-1-15D	.63.0	31	28:0	
C'.¥-1-6D	5 3.6	30	9.D	G1A141-125	52.6	30	16.0	0%4-160	82.5	31	14.D	
Commente:				A	lî Poîm	is cet a	nt 20 scí	a				
Notes:	************************		99699-9995-9969-996-996-996-996-996-996-	0, <u>0,0</u> ,0, 0 ,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	1997 - 29 9 9 10 m an Air Stradaur		σί μας το από τη ματά π αρητία ποι τη ά	ing an an ann an Ann Ann Ann Ann Ann Ann An	نديميا هود معارية (۲۰۰۰ - ۲۰۰۰) استان ما	49999-9-96 (999-95)-989 (899-865)		
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Imerition Imerition <t< th=""><th>Homme an Earlie 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20</th><th>)))))))))))))))))))</th><th>1.0 3.0 4.0 3.0 6.0</th><th>0W-1-10D 0W-1-20D</th><th>recteon Da. Daoth (ff) 79.5 79.3 78.9</th><th>soft 30 30 18</th><th>13.0 X.D</th><th>0000-1-215</th><th>ection Bar Lapiti (5) 49.3</th><th>*** 507 30 30</th><th><u>سم</u> ۲۰۱۱ ۱۱.۲۱</th></t<>	Homme an Earlie 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20)))))))))))))))))))	1.0 3.0 4.0 3.0 6.0	0W-1-10D 0W-1-20D	recteon Da. Daoth (ff) 79.5 79.3 78.9	soft 30 30 18	13.0 X.D	0000-1-215	ection Bar Lapiti (5) 49.3	*** 507 30 30	<u>سم</u> ۲۰۱۱ ۱۱.۲۱	
Intension Openation OW-1-13S 53. OW-1-13S 53. OW-1-14S 52. OW-1-15S 52. OW-1-16SR 51. OW-1-18S 50. OW-1-18S 50.	ant Earnik 4 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 2 20 2 <	11 21 22 22 22 22 22 22 22 22 22 22 22 2	13.0 4.0 3.0 6.0	0W-1-17D 0W-1-17D 0W-1-17D 0W-1-19D	iecteon Dat 250th (ft) 79.5 79.3 78.9	soft 30 30 18	13.0 X.D	bi OW41-215 .0W41-225	ection Bar <u>Lapih (5)</u> 49.3 49.3	*0 30 30 30	<u>س</u> ۲۰۱۱ ۱۰۲۱	
OW-1-13S 53. DW-1-14S 52. OW-1-15S 52. OW-1-16SR 51. OW-1-37S 50. OW-1-10S 50.	1 20 7 3(2 29 1.8 8 5 1.7 3(2.2 3	1 1 2 1 2 2 2 2 2 2 2 2	3.0 4.0 3.0 6.0	0W-1-17D DW-1-17D OW-1-19D OW-1-20D	79.5 78.3 78.9	30 30 18	13.0 X.D	044-1-218 .044-1-228	49.3	30 30	۲،۱ <u>/</u> ۲.۱	
OW-1-11S 32 OW-1-15S 52 OW-1-15SR 51 OW-1-37S 50 OW-1-18S 50 OW-1-18S 50	7 36 12 29 13 3 14 3 17 30 12 3) [1 5 [1 5]	4.0 3.0 6.0	0W-1-170 0W-1-190	78.3 78.9	30 18	X D	.JW-1-225	49.3	30	11.2	
OW-1-15S 52 OW-1-16SR 51 OW-1-37S 50 OW-1-10S 50 OW-1-10S 50	2 29 	5 11	3.0	OW-1-19D	78.9	18				-[:	و. حرمان سرمان سودن	
OW-1-15SR 51 OW-1-15S 50 OW-1-18S 50	1.8 8 ⁻ 1.7 3(1.2 31		60	OW-1-200		/~	X.D	OW-1-23S	48.8	29	11.0	
OW-1-178 50 OW-1-18S 50	a.7 30)))	COL	l l	79.5	31	HD	.0W-1-24S	48.4	28	11.0	
OW-1-185 50	^{0,2} 3		りし	OW-1-210	79.5	29	25.0	OW-1-255	48.8	32	13.1	
			20	OW-1-22D	79.5	28	25.0	OW-1-255	48.3	31	13,0	
(100-1-10-0 40	9.7 POV	wt	0 6 €	OW-1-23D	78.7	29	250	OW-1-27S	48.3	35	13,0	
OW-1-205 41	a.a pu	int 1	off	OW-1-24D	78,2	32	26 D	OW-1-28S	48,3	<10	19.1	
Comments: All Points set at 30 soft												
I Intertion Bank 8 i hjertion Bank 9												
lnied Dei	non Bank 7 oth (ft) S	<u>cíh</u>	paj	e.	Depth (it	<u>) scfh</u>	<u>pși</u>	<u> </u>	<u>DTW</u>	DO(mall. 1		
OW-1-250 7	78.1 2	9	X.D	OW-1-295	48.5	28	DD	OW-1-33D	83.2	28	28	
OW-1-26D	78.1 3	0	A.O	OW/1-305	48.8	30	B.D	OW-1-34D	84.5	28	28.	
OW-1-270	77.9		17.0	OW-1-31S	49.3	25	13.0	OW-1-35D	85.0	27	20	
OW-1-28D	78.0 2	$\overline{0}$	2.0	OW-1-325	49.3	28	120	OW-1-36D	85.0	29	29	
	78.4	20	25.0	OVV-1-335	49.7	28	13,0	OW-1-37D	-34.0	28	28	
C141 4 20VI	79.0		2120	GW-1-34S		20	0,01	OW-1-36D	62.0	26	Ji	
010/ 1-310	eq.5 0	-v List	OFF	OW-1-355	50.3	129	13.0	OW-1-39D	78.0	33	26	
014-1-320	a1.6	30	RD	- OW-1-365	50.9	129	13.0	OW-1-40D	76,0	26	2	
Comments:				<u> </u>	 An 553	nis 201		l		_{₩₩₽} ₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	<u> </u>	
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	Depth (ff)	<u></u>	psi	hiecoven Esnk 11 Depth (fi) soft nsi				iniection Bank 12 Depth Mit soft osi			
OW-1-375	50.5	28	Q.0	OW-1-41D	79.6	30	23.0	UW-1-43	67.4	34	120,
OW-1-385	50.6	26	13.0	OW-1-120	71.0	28	21.D	OW-1-44	66.6	29	18.0
OW-1-SBS	50.7	28	13.0	Objernatis	65.7	26	19.D	ow-1-5tr	60.6	30	Kei
OW-1-465	51.1	29	14.0	GW-1-45	64.3	26	17.0	OW-1-52	59.3	27	16.
0W-1-415	51.5	21	14.0	OWI-1-47	63.4	34	17.0	OW-1-53	60.0	28	16.1
044-1-425	51.3	29	13.0	017-140	92.5	28	18.D	OV7-7-54	60.0	31	16.
-			A CONTRACTOR OF THE OWNER OWNE	QW-1-45	-81,5 ₍	30	16.0	01 10	11 S		
-	-			OW-1-50	61,0	30	16.0				
	<u>1011-502</u> 1011-502 1011-502	And the second sec		namen al (2007)	rasaro Azero	15. 17.0	1	00000000000000000000000000000000000000	nter Mer	531. <u>Sel(532</u>)	<u>er</u>
	and the second se	and the second second	andaraan adalah dalam sana na	international de la companya de la c	Electropic ages and an entropic to the s	and a subscription of the state of the second s	FB: 20.3 X), 200-00 Add (1000), 10 10 40-000 y 10 40-00 y - 1/2 - 1-2	allan da an	h bijen graduk, stanganskapanjan Verstigen Bitten i katerijana se		
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99996 1997 1997	 			1		<u> </u>					
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t Internet			f Grand wird (Jones, at 1870) - at	<u>.</u>	19. 19. 19. 19. 19. 19. 19. 19. 19. 19.						Alanda petringa, e p
				a a a a a a a a a a a a a a a a a a a		5 64 2-01	. 39 2 GM	8			

			Date: 1/17/23
inailer	1) Performed cameral bounds		
	A A A A A A A A A A A A A A A A A A A	Voe Voe	, erc.)
	2) Abnormal conditions observ	red (e.g. vandalism) <u>NeNe</u>	
	3) Other major activities comp	ished Nove	***************************************
	4) Supplies needed	None	
	5) Visitors <u>Ai</u>	we	الم الله الله الله الله الله الله الله ا
		Weas musical names	
<u>ao air U</u>	TYTHE August Constand with most	The second state of the se	/
	* Halcad arction well with 5/50	an anosari a tan a ta a	- No
	2) Oil 1 and with evelop union	lan	
	Low (red)	Normal (mean)	(mmmm)
	3) Oiladdad	Yes	No
	4) Wilchmangent	¥63	
	5) Oil filter changed	Yes	No
	6) Air filter Changed	Yes	No
	7) Off separator changed	Yes	No
000	a) terminal sinps checked	Yes	No
- 30) Co (<u>senerator</u>		/
	1) Pretilier changed	Yes	No 🖌 /
	2) Coslescing chapped	Vac	At-

		OXYGE Ichtraik	N INJECT	ION OPERA	TION AN	e Main ion Rem	renanci edici Sys	LOG SHEL tem Kumbe	Т r 1		
Oxygen Inje	sction Re Nati sterim Re	medial S ional Gri Imediai I	System Nu d Vicasure 97-30-1	imber 1		Date: 2/21 Time: 0860 Weather: 405, 50 Inside Trailer Temperature: wary 0 Performed By: C. Haye					abria
i Senzaria majinang dalam di Katalang dalam mangkanan		507201.0		مەمۇرىكىدىنىيە بەيرىنىيە بېرىزىيە بېرىرىيە يىلىپ 1 1	دود	C marine ann an	ang dan pengangan sebagai kan sebagai k Ang dan pengangan sebagai kan sebagai k Ang dan pengangai kan sebagai kan sebag	CE' ange reester en station Stational and a stational Names and a stational and a stational Names and a stational and a stational and	an a	#-) 	
Hours		٤	12,494		Compres	sor Tank	. t i		128	((psi)
Fead Als Prous		-	128 (2 3 ii):	Belizary	k ir			140	(ipsi)
Cycle Precount	3 4 1	High:	661	69 (1531)	Eloment	Cutlot To	nin againt	Ø	202	3	(°F)
(L / R) Oxygen Recei	l ver Press	Low: sure "	4	<u>2 (psi)</u> 70	Running	Hours			<u>14, 8</u>	13	(hours)
Oxygen Recei	ver, Tank blue tank	Pressur	(e	pai) 100	Loading	Hours			17,00	11	(hours)
Oxygen Purity		an dia a suga		(percenti)	f" maximus	Nates ing 6	wing total	Jayoko			
MARINE DECK	ig serge Se serge	a angaga Sistematika					6477	an liQari	inin		
Heurs: 50	660.0	78			Conden	sate Purç	jed (ØN	I) Conde	isele Ein	ptied (()»)
ant an includence and viscanda field and	niction Es	ini: 1 crán	,r≃i		laieciaa Br	<u>112</u> 1956			<u>Misseilans ()</u> Cisath (M	ean 3 CCD	<u>Pi</u>
-CVI-5-3		37	25.0	- 37N-4- 35	7.3	32	180	CW-HSD		36	28.0
OW-1-2	38.6	Point	०६६	OWA1-6S	67.0	30	180	OW-1-100	57.2	34	27.0
CAN-1-3	D8.S	34	30.0	0W-1-75	0.03	34	17.0	OW-1-11D	.95.1	37	29.0
014-1-4	69.0	35	20.0	0111-1-68	627	30	17.0	0:1:1-120	85.3	35	28.0
08:1-SD	\$3.9	32	29.0	0111-1-05	65.0	32	18.0	01/2-1-12D	84.7	31	26.0
011-1-60	22.4	31	29.0	OW-1-10S	54.6	28	130	OV5-1-14D	64. L	36	69.0
10W-1-70	-01.1	35	29.D	QM-1-115	50.1	34	14.0	011-1-150	.63.3	36	19.0
C:N-1-8D	C3.6	34	29.0	CA4-125	52.6 ;	137	115 D	07:14-76D	82.5	130	113.0
Commente:	- Same and a state of the source	ς5 aµr,4x4.44438µ99,440347,7	(per r#C) * 1000 - 2000 - 2000 - 2000		ati Poin	is cei a	nt 39 sei	8			
Noles:	* 0 ² an * Bu	Met oxyg .steu	er ve gen p Rimp	reels w nuvity Hour c	ich s vead lial v	ing.	us.U	g	to re	tnew	e.

<u></u>	2010 12 ¹¹ 18671	OXYGE	di injec	TIC III OTTITA		10.MAN	TENANC	Dalo: Dalo: Site	2	2133	
				Sector Orac	<u>an (c'ec</u>	<u> 755 R</u>	nadist Sx		5 %		
1	merkion C Ozath Mil	ank 4 P C in	nsi i	<u>Injectov Cauk 5</u> <u>Ozatk No selh oci</u>				inection Bank 6 Dush 33 and 60			
OW-1-135	53.1	29	13.0	044-1-170	79.5	31	11.5	0441-218	49,3	32	11.0
ONM-1-14/3	<i>j</i> 2.7	30	14.0	35 7-1-1 .33	78. :	30	X .D	LAN4-1-2205	-89.3	29	11.0
OW-1-15S	62.2	28	13.0	OW-1-190	78.9	40	26.0	OW-1-23S	48.8	30	11.0
OW-1-16SR	51.0	29	260	OW-1-200	79,5	31	26.0	OW-1-245	48,4	30	11.0
OW-1-17S	50.7	30	25.0	OW-1-210	79.5	29	25.0	OW-1-25S	48.8	33	13.0
0144-1-185	50.2	30	120	OW-1-22D	79.5	30	24.0	OW-1-265	46.3	28	13.O
CIW-1-195	49.7	fout	off	OW-1-23D	787	32	25.0	014-1-278	48.3	33	13.0
OW-1-205	49.3	Point	off	OW-1-24D	78,2	31	26-0	OW-1-285	48.3	22	13.0
Comments:	an Points out at 30 och										
) manificite angle accentent of a 1974 accentent g	lair af an Rank 7 i Mission Bank 0 inizian Bank 9 Depth (1) acth pai Depth (1) soft pai										
OW-1-25D	78.1	33	X o. O.	OW-1-295	40.3	29	120	OW-4-53D	83.2	28	18.0
OV#1-26D	78.1	29	Q.N	OW 1-305	48.8	31	[13.0]	GW-1-34D	64,5	29	28.D
OW-1-270	77.9	30	27.0	QV#-1-315	49.3	25	<i>B.</i> 0	OW-1-350	85.0	28	38.0
OW-1-28D	78.0	29	H.D	OW-1-325	49,3	28	12.0	GW-4-88D	65,0	28	290
-044-1-295	78.3	26	25.O	OW-1-335	×49.7	28	13.O	0₩44-3710	44.0	26	28.0
OW-1-389	79.0	37	34.0	OV/-1-345	50.1	3D	12.0	GW-1-36D	u2.0	26	27.0
OW-1-31D	80,5	Point	270	QW-1-35S	50.3	28	13.D	OW-1-39D	78.0	30	260
QW-1-32D	6.15	25	28.0	OW-1-365	50.3	29	13.D	OW-1-40D	76.0	24	26.0
Commento:	a.,,			مراجع المراجع ا مراجع المراجع ال مراجع المراجع ال	l padiu	Que de la composición	730 oc f	\$ 7			
Notes;							Alexandrik (1997) - 1997) - 1997)		₩		

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intection Bank 10 Intection Santa 11 Intection Bank 12													
<u>.</u>	Depth (ff)	<u>şcīn</u>	ps		Depth (fl)	solu	<u>esi</u>	4	Depth (#	<u>sch</u>	psi		
OW-1-378	50.5	28	12.0	OW-1-41D	79.6	27	220	UW-1-43	67.4	31	20.0		
QW-1-365	50.6	28	13.0	OW-1-12D	71.0	30	20.0	OW-1-44	66.6	30	18.2		
OV/ 1-385	50.7	32	13.0	QV%-1-45	05.7	24	19.0	OW-1-51R	60,6	29	171		
OW-1-465	\$1,1	27	13.D	GW-1-46	64.3	126	17.0	ow-1-52	59.3	26	[h.		
OW-1-415	51.5	27	13.0	011-1-47	63.4	29	17,01	OW-1-53	60.0	27	18,0		
OV4-1-425	51.3	30	13.0	0777-1449	62.5	29	100	OV7-1-54	60.6	31	16		
P.				OW-1-45	31.5	31	6.0	.	1				
-	-			OW-1-50	61.0	30	16.0	- Mir			1		
		Ne											
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Commonis:	/								×				

	Date: 2/21/22
	CREAT CONTRACTOR
	ving (in process police) trank incide and out ate)
1) Penormou general mousencep	Yes
2) Abnormal conditions observed	I (e.g. vandalism) Low all.
3) Other major activities complete folder 01	ed Fire Entraguesher need at system
4) Supplies needed <u>Couples</u>	ssor Oil.
5) Visitors Note	****
	UP STATIL TRALES
GAS Air Compressor	
 Oil Level Checked with system * Unload system, wait unit Dat 	n unloaded° Yes No Iltrary Air Prezavre is less than 3 psi
2) Oil Level with system unloaded to unloaded	Normat (green) High (prange)
3) Oiladded	Yes No
4) Olicitarged	Nos
5) Oil filter changed	Yes No
6) Air filter Changed	Yes None Parameters
7) Oil separator changed	Yes No
8) Tenninal sirips checked	Yes
AS-50 O, Generator	
1) Prefilter changed	Yes
2) Coalescing changed	YeeNo

* PSL-2101 alann hipped due to Hiv tank had no pressure after adding oil to compress This is probably because the Sep was still running, even though system was shut down. 1050 - System back up & running.

		OXYGE	VINJECT	ION OPERA	TION AND MAINTENANCE LOG SHEET								
	F	I TELL I DA CELLA	36.46 I I I I I I I I I I I I I I I I I I I	STRUCT WITH				Date:	3/12	5/22			
Oxygen Inj	ection Re	emedial	System N	umber 1	{			Time: Weather	0800	k of C	Tacks		
	nterim Ri	emedial	nu Measure		Inside Trailer Temperature: <u>Linn, Operationel</u>								
j F	hojact N	o. 1,7028	1977-30-1		Performed By: C. Hayes								
	$\mathbb{Q}_{\mathbb{Q}}$	General	67	المستقدين (مستريد) مستقدين (مستريد)	Compresser (Keeser Relary Sereu)								
Hours		<u>د</u>	12,922		Compres	sor Tanl	۲ *		135		(psi)		
Feed Air Press	é se	-	1351	psi)	Delivery	hic			135	•	(psi)		
Cycle Presoun		High:	69	72 (psi)	Element Outlet Temperature 193						(°F)		
(L/R) Oxygen Receiv	rygen Receiver Pressure * 65 (psi)								25,37	-3	(hours)		
Oxygen Recei	eading from blue tank)								17,37	3	(hours)		
(reading from	olue teni	(j		pei)									
Oxygen Purity	na ali naiman da			(percent)	f* maximum		iucina daestio	n cacie					
	generative Concición	Puero ()	erverer.		3	1. Second Second	RT T	cal: 6 E05-5	स्ट <i>्रि</i> स				
Hours: 15, (Condens	ate Purg		I) Conder	isate Em	ptied)n)				
	injection Bank 1 Depth fill softh resi					10k 2 .State			hieciioa 8 Deplh (11)	ank S sch	<u>rei</u>		
C¥2-1-1	¢5.5	24	28.0	07F-1-55	57.2	24	17.0	.0W-1-6D	æ.5	23	28.0		
OW-1-2	93.5	off	OPF	014-1-65	67.0	28	180	01415100	57.2	19	27.0		
DWI-1-3	96.8	21	31.D	OW-1-75	66.9	25	17.0	0%-1-11 D	.86.1	20	29.0		
OW-1-4	95,0	22	30,Ò	0113-1-85	56.7	25	18.0	0114-1-1212	85.3	19	28.0		
OW-1-5D	\$ 3.9	29	A.O	0144-1-95	PG.0	21	18,0	OW-1-135	84.7	28	29.0		
DW-1-6D	92.4	24	A.O	044-1-105	54.6	16	13.0	OW-1-14D	84.5	19	29.0		
@W-4-7D	0 4.4	36	19.0	10W-1-145	50.1	25	14.0	OW-1-15D	.63.3	24	28.0		
074-1-80	5 9.6	22	19.0	QW4-1-12S	53.6	28	15.0	0114-1-16D	82.5	21	14.0		
Gomments:					AR Point	is set i	nt 30 sci						
Notes:				<u></u>			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						

	Date: 3/18/シラ OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET												
		Hempst	ead Inter	section Oxy	jen Injec	tion Re	medial Sy	stem Numbe	<u>er 1</u>				
	Injection B Depth (ft)	<u>ank 4</u> <u>scfh</u>	<u>psi</u>		Injection B Depth (ft)	ank 5 scfh	<u>psi</u>		Injection E	Bank 6) <u>sofh</u>	psi		
OW-1-135	53.1	26	13.0	OW-1-17D	79.5	42	13.0	OW-1-21S	49.3	30	0,11		
OW-1-14S	52.7	25	14,0	OW-1-18D	78.3	95	H.D	OW-1-22S	49.3	27	11.0		
OW-1-155	52.2	23	(3.D	OW-1-19D	78.9	71	26.0	OW-1-235	48.8	27	11.0		
OW-1-16SR	51.8	19	H.D	OW-1-20D	79.5	79	27.0	OW-1-24S	48.4	27	11.0		
OW-1-17S	50.7	14	24.0	OW-1-21D	79.5	36	26.0	OW-1-258	48.8	26	13.0		
OW-1-18S	50.2	21	12.0	OW-1-22D	79.5	20	25.0	OW-1-26S	48.3	27	13.0		
OW-1-19S	49.7	POINT	OFF	OW-1-23D	78.7	20	a5.0	OW-1-27S	48.3	28	13,0		
OW-1-20S	49.3	POINT	OFF	OW-1-24D	78.2	24	26. D	OW-1-285	48.3	2/0	13.0		
Comments:	• •••••••••••••••••••••••••••••••••••		*******	A	ll Point	s set a	t 30 scfl	h	·····				
	niection B	ank 7			Injection Br	ank 8			Injection 8	lank 9			
	Depth (ft)	<u>sçfh</u>	<u>psi</u>		Depth (ft)	scin	psi		DTW	DO(mo/L) <u>PID</u>		
OW-1-25D	78.1	24	27.0	OW-1-29S	48.5	26	12.0	OW-1-33D	83.2	24	28.0		
OW-1-26D	78.1	13	27.0	OW-1-30S	48.8	24	13.0	OW-1-34D	84.5	25	29.0		
OW-1-27D	77.9	21	27.0	OW-1-31S	49.3	29	13.0	OW-1-35D	85.0	23	280		
OW-1-28D	78.0	25	<i>37.0</i>	OW-1-32S	49.3	25	2.0	OW-1-36D	85.0	25	29.0		
OW-1-29D	78.4	22	JS.Ù	OW-1-33S	49.7	26	13.0	OW-1-37D	84.0	19	28.0		
OW-1-30D	79.0	21	35.Ò	OW-1-34S	50.1	24	12.0	OW-1-38D	82.0	22	270		
OW-1-31D	80.5	POINT	OFF	OW-1-35S	50.3	22	<i>13.</i> D	OW-1-39D	78.0	28	26.0		
OW-1-32D	81.6	24	28.0	OW-1-36S	50.3	27	13.D	OW-1-40D	76.0	23	25.0		
Comments:		<u></u>		A	ll point	s set a	t 30 scfl	3	d		!		
Notes:													

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<mark>Possible Construction of States (Second States) (Second States) (Second States) (Second States) (Second States (Second States) (Second States) (Second States) (Second States) (Second States) (Second States) (Second States) (Second States) (Second States) (Second States) (Second States) (Second States) (Second States) (Second States)</mark>								Date:	3/	18/2	1
- 		uatur Hempol	ert inter	section Dry	ntrun ai Isa képc	no wan tion Rei	itenani Netini Sj	e log shei Etem Numbi	et #1	. /	ninchi (maile di Carlo daria
<u>ir</u>	riection Br	<u>mk 10</u>			niccion Sr	<u>aik 11</u>		1	niection S:	ank 12	
	Depth (ft)	scih	<u>psi</u>	, ,	Depth (ft)	scih	<u>081</u>		Depth (ff)	<u>scîn</u>	<u>DSI</u>
CW4-1-978	50.5	24	12.0	OW-1-41D	73.6	24	23.0	OW-1-43	67.4	27	20.0
OW-1-385	50.6	24	13.0	OW-1-42D	71.0	25	21.D	OW-1-14	60.6	28	18.0
044-1-395	50.7	23	ß.D	OW-1-45	65.7	24	19.0	0W41-51R	60.6	25	16.0
OW-1-465	51,1	25	13.0	GW-1-48	64.3	23	17.0	OW-1-52	59.3	23	15.0
OW-1-415	51.5	27	14.0	OW-1-47	63.4	25	17.0	OW-1-53	60 .0 ¹	25	16.0
0##1-425	51.3	26	13.0	OW47-489	62.5	24	18,0	074-1-54	60.0	27	15.0
-	-			OW-1-49	615	24	<i>16.</i> 0	-			
-	-			OW-1-50	61,0	25	16.0				
Comments:		Ĵ-QĹDU-JE-EEEE E	union time track of the same	Al	l Point	3 28t Ø	1 30 scf	10 19	ATC/10.11027		
	irician Z				hizolan 2	an's		a Loosa i la companya di sul	Inscion !		
	<u> (kada (h)</u>	<u>. 756</u>	<u> 16</u>		<u>Cont (C</u>	<u>8</u> 20	esi		DIN	DEMONS.	<u>_ 220</u>
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								,			
Comments:											
Comments:					l L point	. 361-2	130 act				

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	Date: 3/18/22
li.	GENERAL SYSTEM NOTES
Trailer	1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) Yes
	2) Abnormal conditions observed (e.g. vandalism)
	3) Other major activities completed and Anulad For Extinguisher
	4) Supplies needed New
	5) Visitors None
1	OPERATIONAL NOTES
GA5 Air (Compressor
	1) Oil Level Checked with system unloaded Yes Yes No No No No No No No No
	2) Un Level Will System (Induction Normal (mean)
# K	3) Oil added Yes Na
	6) Chichenned Ves
i.	5) Oil filter changed Yes No
1	6) Air filter Changed Yes No
	7) Oil separator changed Yes No
	8) Terminal strips checked Yes No
AS-80 0,	. Generator
	1) Prefilter changed Yes No 2) Coalescing changed Yes No

5

		OXYGE	n injec'	TION OPERA	TION AN	id MAIN fon Rem	renanci ediat Sig	ELOG SHEE	T • ý	\ \	
Oxygen Ir	njection R	emedial	System N	lumber 1				Date: Time:	4/2	<u>i</u> ju	
	Na Interim P	tional Gr	id Maarina			topirte	- Trailer T	Weather:	<u>-</u>	Si AT	<u> </u>
	Projact h	la 170.0	197-30-1			1110000	Pi	enformed By:	VS	AMAD	M
	Q ₂	General	.07	an da an	 	Con		fflagsar Rai	ory Sere	27.9 <u>)</u>	
Hours		e 1	3751	۶	Compres	isor Tank	(**		139		(psi)
Feed Air Pres	ska2*		132	(psi)	Delivery	his			132		(223)
Cycle Presou	æ*	High:	55	67 (mail)	Element	Quilet Ti	этраки	æ .	194	· ·	(°F)
Oxygen Rece	iver Pres	sure *		(104) 60	Running	Hours			1884	0	(hours)
Oxygen Rece	(per) Rygen Receiver Tank Pressure adding from blue tank) IVO					Hours			1212	J	(hours)
(reading from	due tan	4)	•	<u>no</u>							
Oxygen Purit	Y	,	85.7	(percent)							
manimum read	ing during t	oadingsyn Gweren (*	le Destruction	3 	(" maximus	n nazahng o	ining locoli Gir T	3.900 1.500 & Res-D	ean:		
Hours:	5660	<u>, 67</u>			Conden	sate Purg	jed(V)/1	I) Conden	sate Em	ptiec (Y)N)
	Injection B	ank i			1 Iniection Br	nk2	l		riection B	unis 3	
	<u>Depth-(ff)</u>	<u>anin</u>	<u>1955 i</u>		<u>Depth (fil)</u> 1	and h			Decili (ii) 	<u>acia</u>	
.C*\$*-\$-1	£5.5	31	2.60	GW-4-95	<i>ज</i> ाउ	30	18.0	00001-00	463	31	28.0
OW-1-2	98.5	oki	SK.	QW4-1-65	67.0		No I	OW-1-100	87,2	32	270
DW-1-3	96.3	32	300	0W-1-75	-66.9	31	<u>n,o</u>	OW-1-11D	.85.1	31	270
012-1-4	850	30	<u>ি</u>	0114-1-6S	687	30	<u>m,o</u>	044-1-120	85.3	40	28.5
OW-1-5D	93.9	34	2.0	OW-1-55	66.0	21	18 ,0	OW-1+13D	84.7	27	23.0
OW-1-60	92.4	30	2,0	CW4-1-105	54.6	40	120	0%%-1-140	54.1	31	2210
10W-1-7D	-694.3	41	22.0	QW-1-135	58.1	31	130	-OW-1-15D	83.3	27	180
014-1-60	89.6	30	220	GN4-1-125	53.6	27	140	0144-1-16D	62.5	21	13.0
Commerte:				J.	Nî Poin	îs sei a	nt 30 scá				
					•					· · · · · · · · · · · · · · · · · · ·	
Notes:		99 440 - 4 Jin Alas (19 4) 4 (19 4)						- <u>189</u>			

	Date: 4292 OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SMEET Homoshod Intersection Operation Remains System Atminer 1											
	iection Ca Osath (il)	uk 4 ESA	<u>psi</u>		njecten D. Dzash 28	no <u>k 5</u> ssilt	1851		neovon 8 Datah (2)	enk 6 sola		
OW-1-135	53.1	30	30	OW-1-17D	79.5	50	30	OW-1-21S	49,3	31	<i>0.11</i>	
344-1-145 	32.7	35	14.0	Ø₩-1-#CD	78.3	61	260	DW-1-225	49.3	35	N.0	
OW-1-155	52.2	37	R.0	OW-1-19D	78.9	34	210	OW-1-23S	48.8	31	N.0	
0W-1-16SR	51,6	22	260	0141-1-200	785	31	26.0	OW-1-24\$	48.4	34)).o	
OW-1-175	50.7	35	24 Ø	OW-1-210	78.5	31	250	QW-1-25S	46.8	51	13:0	
OW-1-18S	50.2	30	10	OW-1-22D	78.5	55	250	OW-1-258	48.3	41	15≈	
0W-1-19S	49.7	0vý	0úY	044-1-23D	78.7	41	25,0	OW-1-27S	48.3	32	150	
048-1-205	49.9	OKY	04A	0#-1-260	78.2	5	260	04-1-205 (23 37 150				
Comments:		18-201-1-201-1-144-24-17 P-144-24	الا تحريب والمحمد معارضة والمحمد معارضة والمحمد والمحمد والمحمد والمحمد والمحمد والمحمد والمحمد والمحمد والمحم		Point	3 set s	t 30	Ř				
	piccion Br	<u>mk 7</u>	DDÍ .		inisction B Death (M)	ank 8 scfh	nei .]	hiection 8 NTM	bok 9 DO(moft)	PID	
OW-1-25D	78.1	51	26	p ^{(NVI-1-295}	48.5	29	12,0	OW-1-38D	83.2	30	28,0	
OW#1-260	78,1	42	265	OW 1-305	49.8	36	Bo	QW-1-34D	84.5	27	23.0	
GW-1-270	77.9	30	27	017-1-315	49,3	27	13.0	OVV-1-350	65.0	31	230	
QN-4-280	78,0	30	26.0	044-1-325	49.3	23	12.0	- (2) 84- 1-360	85.0	31	29.9	
1999-1-25D	75.4	30	25.	9 GW-1-335	49.7	41	13.0	OW-1-37Đ	34.0	30	128.	
W-4-300	70,0	4	37.	DW-1-065	50.1	30	12.0	CW-1-308	2.0	27	27	
OW-1-31D	00.5	641	XÝ	. OW-1-355	50.3	32	13.0	OW-1-39D	78.0	30	26	
044-1-320	81.6	31	27.	0144-1-565	50.2	30	13.0	CW-1-40D	76:0	221	25.	
Comments:	-			1. <u>1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1</u>	i psia	13.23Å	i 20 se					
Notos:												

<u></u>	OTTOEN BLIECTION OPERATION AND MAINTENANCE LOG SHEET												
		uetge Korpol	n inlec Ré <u>Í</u> tér	nun urenn <mark>Bester Chr</mark> e	u num Al pa lojoc	or waw Hen Rep	rewawe natist C	e Lus Shek Stor Kurata	: F F 1				
ñ	iecion Sa	<u>10</u>	-		<u>iactica Ba</u> Demb (M)	1 <u>17</u> 017	noi	k k	icclion Sc Danth Mi	9 <u>% 12</u> ech	ମହା		
014-1-373	32.5	30	12.0	0W-1-41D	73.0	30	22.0	014-1-43	67.4	31	19.0		
OW-1-385	58.6	30	13,0	OW-1-120	71.0	31	VP.Q	OW-1-44	66.6	29	18.0		
014-1-385	50.7	27	N.0	Q¥#-1-45	65.7	37	18.0	Over-1-str	60.6	33	160		
OW-1-465	\$1,1	31	130	C 1W-1-46	64.3	35	ı ۱	GW-1-52	59.3	30	$\mathbb{R}^{\mathcal{O}}$		
OW-1-415	5 1.3	30	130	088-1-47	63.4	40	no	014-1-53	69.0	40	160		
044-1-42S	51.3	30	13.0	077-1-48	 62.5 	30	18.0	. 069-1-54	60.0	30	15		
*				011-1-49	61.5	30	160				and the second se		
-	Ŧ			OW-1-50	61.0	30	0,11	4+					
Commenis:		alla gaja ayan ayan ayan da		Ą	h Poini	5 39î 8	136 sci						
	ini si da si Qercia Ol				25560 9566 6		724		tiste Ma		1 99		
											and the second second		
						Armanic Arcon			T Constant				
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						Alter out and the second	A CONTRACTOR OF A CONT		languation with the second				
and a second							and the second se		. دو هوی ور است. ۲۰ و و هوی و و و و و و و و و و و و و و و و	an and the second second			
						an a	Antonio repaired		inertaineite státur - i - eré	- state Area			
Comments:		<u></u>		see Distances and a contract of the contract o	All poir	vis act	at 30 as	Ma			249 00		
			₩₩₽9 X 7179979 (2000 - 400 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 471 - 489 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5 - 480 5	₩. ₩. ₩. ₩. ₩. ₩. ₩. ₩. ₩. ₩. ₩. ₩. ₩. ₩	(ray and a set (See Staff) (), if	97-9978/047-97-9474-747-747-947-94							
L											*****		

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GEMERAL SYSTEM NOTES	
fireiler	,
	<u> </u>
1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)	
Yes	
2) Abnormal conditions observed (e.g. vandatism) NVN 15	
	2244 C4112000000000
3) Other major activities completed CHENED AND JOWIED	
4) Supplies nacied 1016	anyalajafiseniesen
sy visitors C2416 HAMES	
HEAD AIL LONDITESSOF	
I I LAI LEVEL LARANSE WAT CONTRACT AND LODGE IN THE TEST AND THE THE	ومعروفه والمراجع والمراجع والمراجع
n Oil Loud with evelop unloaded	•
Low (red) Normal (areen) High (grange)	
3) Oil added Ves No	
4 Of charged Nos No	
5) Oil litter changed Yes No	
6) Alt filter Changed Yes No	
7) Oil separator changed Yes No	
1 - Oj Terminal siños checked Yes No V	
AS-80 C. Generator	
1) Preliter changed Yes <u>No 1/</u>	
I 2) Coolescing changed Yes No //	

		GLIG		CTICH OPER	RATION AND MAINTENANCE LOG SHEET								
Oxwen I	nisction F	: massa (emecia	Svsten	Number 1	277 H GEC 	unit refi	esta și	Date: Tino	5/27	121			
	N	aional G	rid					Weather:	30400	, -lezr			
	Interim F	Conversion dos 1.7917	Meesu 907.2A			bsid	e Trailer	Temperature:	<u></u>	<u> </u>			
	C.	General Genera	052-647 107		>. 	ିଙ୍କ		reinigingi dy: 7 Weestr Ro	ieru Ser	<u>71</u> 2015			
	می ارد او			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1	and from a second s					*****		
Hours			3811	<u>→</u>	Compre	ssor Tan	£ *		125	-	(psi)		
Feed Air Pres	Sui22 *		125	(176i);	(Deliver);	Air		į	125		(1001)		
Cycle Pheasu	æ*	tint:	68	168 100	Element	i Chullest Ti	u açımatı	a vente. Esta da l	195	•	189		
(L/R) Oxygen Rece	iver Pres	low: Suic *	<u> </u>	<u>(65</u>	Running Hours <u>(9486</u>						(hours)		
Chygen Recs	iver. Tari	Pess		(1931)	Loading	thurs			13406)	(hours)		
(reading from	blue tan	K)		<u> 11 S</u>	Increase in the property is a property in the property of the								
Oxygen Punit	4		91.3	(par) (percent)	anter a la contra de								
' navinus ved	ing dating (1 70	*** ``````````````````````````````````	(* maximu	n-leading (ening inski	ng ayalo					
 	Geogicy	Pued	Percete				h-1 7 5	an des d	R. W				
Piours: <u>/</u>	5660.	08		· · ·	Contien	saie Purg	jed (V)	N) Conder	sale Em	plied ((Y)n }		
	Injection Pr	us <u>k 1</u> Sefa	weel		kiecica () Czeli M	<u>898 2</u> ADM	asi f		njechion B Deoth (N	an <u>i: 3</u> .ccA	nzi		
- Line -	S5.5	30	127	05445	67.2	30		07 74-007		32	28		
OW-7-2	95.5	of	F :	OW-1-CS	\$7.0	zš	18	014-1-100	57.2	23	27		
DW-1-3	.96.5	28	30	OW-1-75	69.9	28	17	CW-1-11D	<i>.9</i> 6.1	31	29		
08:4-4	65.0	30	30	0.141-65	6 .7	27	18	011-1-120	653	28	28		
016-1-50	\$5.9	31	29	01421-556	86.6	26	18	01245:30	.84.7	28	28		
014-1-68	22.4	29	28	0441-105	54.6	34	13	054-1-140	64.1	28	28		
094-4-7D	0 4.4	33	28	CON-1-445	58.1	30	14	018-1-150	63.5	29	28		
OVI-1-335	62-6	27	28	014-1-125	53,6	28	ک ا	034-160	82.5	20	14		
Ocramente:	Canada an ang Albanata yi	74444447999999999999999999999999999999	4.94 <u>9</u> 00000000000000000000000000000000000	A	B Roin	z sei a	1 20 se	1					
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展開													

ORYGEN INJECTION OPERATION AND MAINTEMANCE LOG SMEET												
		<u>terra</u>	nad inte	estion (by		tion Reg		elen Kenie	F \$			
	hilection S Depth (M	auk4 stab	<u>Disi</u>		luiscium D Dooth (ii)	auk 5 ssilu	194		ineption 6 Datch (2	ienk 6 souh	16.1	
-0144-1-13S	53.1	26	13	GW-1-17D	79.5	30	12	OW-1-215	-29.3	30	11	
OW-1-145	32.7	30	14	0114-1-76D	78.3	3]	25	044-1-225	49,3	30	,1	
OW-1-158	52.2	30	נו	OW-1-19D	78.9	32	26	OW-1-235	48.6	28	11	
OW-1-165R	51.6	24	26	CW-1-200	79.5	30	26	014-1-248	49.4	28	n	
OW-1-178	50.7	25	24	011-210	70.5	38	25	OW-1-25S	40.6	30	12	
OW-1-105	50.2	29	12	CW-1-22D	79.5	27	24	OW-1-28S	48,3	17	13	
CIW-1-195	49.7	0	$\frac{1}{1}$	01/1-230	78 7	28	24	OW-1-278	48.3	40	13	
0W-1-705	233 Off 0401200 782 28 26					UN 1-28 5	40,5	24	13			
Comments:		7 * *** 1825/1 201***	11	A	Point	a set a	i 30 oct	ň			7	
annan falanti matani sasi ji teti 2 kali astefati gati gati jana an C	hicotion B	an <u>k 7</u>	nur maa mangangalan antar ji	·	niection De	mk 8			piection B	onk 9		
	Depth (ft)	sefp 1	<u>pai</u>		Depth (ill)	scin	<u>pşi</u>		DTW	<u>DO(mo#.)</u>	<u>PID</u>	
OW-1-25D	78.1	50	26	OW-1-295	48.5	28	12	-0W-1-38D	83.2	31	29	
2			1						(; · · ·		פר	
OW41-260	78.1	40	26	01/01-305	48.8	26	71	GW-1-34D	04.5	30		
OW-1-260 OW-1-270	78.1 77.9	40 32	26	014-1-305 014-1-315	49.8 49.8	26	17	OW-1-34D OW-1-350	85.9	30	27	
0W-1-260 0W-4-270 -0W-4-280	78.1 77.9 763	40 32 28	26 :27 :26	014-1-305 014-1-315 014-4-325	48.8 49.3 49.3	26 26 26	17 12 12	0W-1-34D 0W-1-350 4394-1-350	04,5 65,9 95,9	30 48 33	27 77 70	
0W-1-260 0W-4-270 0W-4-280 19W-4-280	78.1 77.9 75.0 78.4	40 32 28 29	26 27. 26 25	014-1-305 044-1-315 044-1-325 044-1-335	49.8 49.3 49.3	26 26 20 32	17 12 12 12	0W-1-34D 0W-1-350 0W-1-350 0W-1-350	94.5 65.9 65.9 63.9	30 48 33 24	27 70 29	
0W-1-260 0W-1-270 0W-1-280 0W-1-290	78.1 77.9 76.0 76.4 76.4	40 32 25 27 27	26 27 26 25 78	OW-1-305 OW-1-315 I3444-325 OW-1-385 OW-4-365	49.8 49.3 49.3 49.3 50.1	26 26 25 32 .28	17 12 12 12	0W-1-34D 0W-1-350 1944-5-56D 0944-5-379 0944-5-379	34,5 85,9 33,9 34,9	30 48 33 24 30	27 30 29 27	
0W-1-260 0W-4-270 0W-4-280 0W-4-290 0W-1-290	78.1 77.9 75.5 75.5 75.5 75.0 80.5	40 32 29 29 27 27	26 27 26 25 78 4	OW-1-305 GW-1-315 I3444-325 OW-1-335 OW-1-355	49.8 49.3 -49.3 -49.7 50.3	26 26 20 32 28 29	17 12 12 12 12 13	0W-1-34D 0W-1-35D 0W-1-35D 0W-1-35D 0W-1-35D	34.5 85.9 35.0 34.0 #2.9 78.0	30 48 33 24 30 32	27 30 29 27 26	
0W-1-260 0W-4-270 0W-4-280 0W-4-280 0W-1-290 0W-1-310 0W-1-322	78.1 77.9 76.0 78.4 78.9 80.5 80.5 81.6	40 32 28 29 27 27 27 27 27 27 27 27	26 27 26 25 78 7 78 7 78 7 27	OW-1-305 OW-1-315 OW-1-325 OW-1-335 OW-1-355 OW-1-355	49.8 49.3 49.3 -49.7 50.3 50.3	26 26 20 32 28 29 34	17 12 12 12 12 13 13	0W-1-34D 0W-1-35D 0W-1-35D 0W-1-39D 0W-1-60D	94,5 85,9 85,9 34,9 52,9 78,0 76,0	30 48 33 24 30 32 36	27 30 27 27 26 25	
OW-1-26D OW-1-26D OW-1-26D OW-1-29D OW-1-29D OW-1-31D OW-1-32D CAM-1-32D COMMONTS:	78.1 77.9 75.0 76.4 79.0 80.5 81.5	40 32 28 27 27 27 27 27 27 27 27 27	$\frac{26}{27}$ $\frac{27}{26}$ $\frac{25}{78}$ $\frac{7}{7}$ 27	OV# 1-305 OW-1-315 OW-1-325 OW-1-385 OW-1-355 OW-1-365	49.8 49.3 49.3 50.3 50.3 50.3	26 26 20 32 28 29 34	17 12 12 12 13 13	0W-1-34D 0W-1-35D 1944-5-55D 0W-1-55D 0W-1-39D 0W-1-39D 0W-1-40D	34.5 35.9 34.9 52.9 78.0 76.0	30 48 33 24 30 32 36	27 30 27 27 26 25	
OW-1-26D OW-4-270 OW-4-28D OW-4-28D OW-4-29D OW-1-29D OW-1-31D OW-1-31D OW-1-32D COM-5-32D COMMONTS:	78.1 77.9 76.0 76.0 76.0 80.5 80.5 81.6	40 32 28 29 27 27 27 27 27 27 27 27	26 27 26 25 78 7 27	OV# 1-305 OH-1-315 OH-1-315 OH-1-335 OH-1-355 OH-1-355 OH-1-355	49.8 49.3 49.3 -49.7 50.3 50.3	26 26 20 32 28 29 34	17 12 12 12 13 13	0W-1-34D 0W-1-35D 0W-1-35D 0W-1-35D 0W-1-35D 0W-1-40D	34.5 85.9 34.0 #2.5 78.0 78.0	30 48 33 24 30 32 36	27 30 29 27 26 25	

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	niection Gu <u>Deoth (fil)</u>	<u>nik 119</u> <u>scilit</u>	091		nicción G Depth (11)	<u>rk 11</u> Sch			iscico & Depth (fi)	76.12 SCD	psi
OW-1-375	50.5	26	12	OW-1-61D	73.8	27	22	CW-1-49	67.4	30	19
QW-1-385	50.8	25	13	O₩-1-12D	71.0	29	20	OV4-1-46	66.6	26	18
OW-1-895	38. 7	25	12	01141-45	46.7	34	19	om-1-str	60,6	34	16
OW-1-465	51.1	30	13	GW-1-4 6	64.3	74	17	OW-1-52	59,3	33	15
GW-1-415	5 1.5	29	13	C1884-1-47	63.4	74	17	OW-1-53	60.0	31	16
0%4-1-472S	51.3	30	13	077-1-479	62.3	17	17	017-1-54	60,0	30	15
•	-	1		01141-49 1	61 <i>5</i> ,	17	16				
-				QW-1-50	61,0	27	16	ي	а.		
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Comments:	-			A	ll point	a acta	1 30 act	2 0		under an and the second second	
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		GEREAL SYSTEM			
rater	 Performed general housekeep Abnormal conditions observer 	ping (i.e. sweep, collect Yes d (e.g. vendelism)	trash inside and	OLII, SIC.)	and the second
	3) Other major eclivities complet	ied No	in a di si	99999999999999999999999999999999999999	1997 1997 1997 1997 1997 1997 1997 1997
	8) Supplies needed^	<i>s</i> 0			
			CONTRACT OF A DATA OF A DA		
	5) VERETE None				
AF AL C	5) Veres None	OPERATIONAL NO		2819 % - Character Mary Services - Anna br>2919 % - Character Mary Services - Anna -	
A5 Air Co	5) VisiBers <u>No-e</u> omoressor 1) Oit Level Checked with syster " Uplace system, wait until De	OPERATIONAL MO municacied ^a silvary Ab Possaue is le	7723 Yes 35.than 8 asi	× 145	
AS Air Co	5) VisiBars <u>No-e</u> omoressor 1) Oil Level Checked with syster * Unload system, wait unlit De 2) Oil Level with system unloads Low (red)	OPERATIONAL NO In unitodied ^a elivery Air Poessune is le ad Normal (gree	17 ES 35 than Sipsi n) Hig	h (orange)	
A5 Air Cr	5) Visitions <u>No-c</u> omoressor 1) Oit Level Checked with system " Unload system, wait until De 2) Oil Level with system unloade Low (red) 3) Oil added	OPERATIONAL NO m unicaded ² elivary Ab Passane is le ad Normal (gree 	Yes ss than Spai n) Hig	h (orange)	
A5 Air Çr	5) Visitions <u>No-c</u> omoressor 1) Oil Level Checksod with system " Unload system, wait until De 2) Oil Level with system unloade Low (red) 3) Oil added 4) Oil added	OPERATICASAL MC en unioaded ² elivary Ab Passause is is ad Normal (gree Yes Yes	Yes ss than 8 psi n) Hig	$\frac{1}{1000} \frac{1}{1000} \frac{1}{1000$	
A5 Air Cr	5) Visitors <u>No-c</u> <u>omoressor</u> 1) Oil Level Checked with system * Uoload system, waii-uniil De 2) Oil Level with system unloade Low (red) 3) Oil added 4) Oil added 5) Oil ither changed	OPSRATIKASAL. MO m unitoadied ² aliwary Ab Pocassuse is is ad Normai (gree Yes Yes	1785 765 25 than 9 psi n) Hig	$\frac{\times}{No} \frac{No}{1}$	
A5 Air Cr	5) Visitors <u>No-c</u> omoressor 1) Oil Level Checked with system " Unload system, wait until De 2) Oil Level with system unloade Low (red) 3) Oil added 4) Oil shanged 5) Oil filter changed 6) Air filter Changed	OPERATIONAL MC municaded ⁺ silvery Air Possesure is le ad Normal (gree Yes Yes Yes	7823 7769 25 them. Siposi n) Hing	$\frac{1}{1}$	
A5 Air Co	5) Visiburs <u>Now</u> <u>omoressor</u> 1) Oil Level Checked with system " Usload system, wait until De 2) Oil Level with system unloads Low (red) 3) Oil added 4) Oil added 5) Oil added 5) Oil itter changed 6) Air filter Changed 7) Oil separator changed 8) Terminal stins charted	OPERATIONAL NO municaded ^a elivary Air Poessune is is ad Normat (gree Yes Yes Yes Yes Yes Yes Yes Yes	7783 35 than Spoi n) <u> </u>	$\frac{\times}{No} \frac{No}{\times} \frac{1}{10} \frac$	
A5 Air Cr	5) Visitions <u>No-e</u> <u>omoressor</u> 1) Oil Level Checked with system " Uaload system, wait unlit De 2) Oil Level with system unloade Low (red) 3) Oil added 4) Oil added 4) Oil added 5) Oil alter changed 5) Oil filter changed 6) Air filter Changed 7) Oil separator changed 8) Terminal strips checked Separator	OPERATIONAL MC municaded ^e silvery Ab Passause is le sid Normal (gree Yes Yes Yes Yes Yes Yes	Ness ss them & posi n) Hig	$\frac{\times}{No} \frac{Nb}{1}$ $\frac{No}{1} \frac{1}{1}$	
A5 AF Cr 5-89 0, c	5) Visitions <u>No-c</u> <u>omoressor</u> 1) Oil Level Checked with system " Usload system, wait until De 2) Oil Level with system unloads Low (red) 3) Oil added 4) Oil added 4) Oil added 5) Oil filter changed 5) Oil filter changed 6) Air filter Changed 7) Oil separator changed 8) Terminal strips checked <u>Senerator</u> 1) Defilier changed	OPERATIONAL MC m unioaded ⁴ silvery Ab Passaue is le ad Normal (gree Ves Ves Ves Ves Ves Ves	Yes ss than Spai n) <u>X</u> Hig	$\frac{1}{100}$ In (orange) No $\frac{1}{100}$ In (orange) In (orange) In (orange) In (orange) In (orange) In (oran	

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		OXYGE	N INJEC	TION OPERA	TION A	io kan tice Rea	TENANC	E LOG SHEE	T • • • .]		1	
								Data:	6	25 2		
Oxygen in	yection f Na	lemegiai stional G	rid	Number	Í			Vime: Weather:	670	<u> </u>	TANS	
	Interim F Orminar h	ieneoîsi 1	Meesur	2		Traid	e Tiailer I n	Compositive:	C	Del Salat	the states	
	G-	General General	(C."		μ. 	ିର		Keeser Rei	ary Sen	<u>Saur</u> Rež	25-31	
Hours		2 4 3	33710	6	Compre	ssor Tari	¢*		157		(psi)	
Feed Air Pres	suite *		157	(psi)	l Oeliver,	Ais .			131		(psi)	
Cycle Pressu	æ*	High:	65	69 (00)	Element Outlet Temperature 131 (%F						(F)	
(L/R) Oxygen Rece	xygen Receiver Pressure *						Running Hours 20015 (ho					
Oxygen Rece (reading from	iver. Tant blue tant	(Pressu c)	8	119	Loading	Hours		Ϋ́, Υ	3791	4	(hours)	
Oxygen Purity	t		96.7	(percent)	a ga da							
ananinero medi	ng daring t		en Deserver		(* matcinus	n seeling d	1967 (1966) 287 (1	gové Tristi Prezil	สาวัส		2 2 3	
Hours: 1(660	<u>0.03</u>			Conden	sate Purç	ped (())	I) Conden	sale Em	ptied (Y	(R)	
	niection Br	ink i		,	(Injectica B Rectivat)	<u>2051 2</u> 2010		1	siection A Death M	en <u>k 3</u> .c.fb	p ri	
C71-5-7		20	760		(<i>4</i> 73	22	По	G354-90/	and the second	22	280	
OW-1-2	92.5	OVÝ	Xr	014-1-65	67.0	25	n. 0	CW41+160	E7,2	35	27.0	
014-1-3	26.9	30	30,0	OW-1-75	60.9	27	<u>n</u> .o	·OW-1-11D	£6.1	32	27.0	
0844	65.0	31	29.0	03843455	637	21	17,0	035-1-120	-853	30	230	
097-4-50	59.9	30	24,0	0123-055	85.0	19	CO	018-1-120	. 84.7	30	280	
099-1-60	S2.4	30	29.0	044405	54.6	36	BQ	0225-1-1407	84.5	30	230	
0324-70	- RIG-	32	28.3	-071-1-115	. B AAAA	27	14,0	074-4-15D	<i>1</i> 63.9	31	642	
011.4.40	65-6	30	230	GN4-1-425	58.6	21	19.01	03441-160	82.5	130	130	
Oommenis:				, A	lī Poiņ	is sei a	t 30 sei	b				
L Notes:	anlan y Cristian - Of - Standard			,								
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		OXYGE	N INJEC	NON OPERAT	TON AN	o.Maint	TENANCI	Date:	r b	25 21	
	ł	tempate	ac mes	ection Onve	n inect	ion Ren	ectial Sve	tem Momber	ŧ.		
Interdican Capite 4 October 1011 perite and a state				injection Dask I Dzoth (M) solin cisi				inection Bank G Dunth (13) seal 1931			
OW-1-135	53.1	12	ତ୍ୟ	OW-1-17D	79.5	30	Bo	011-1-218	49.3	31	11.0
OW-1-145	52.7	10	14.0	DW-1-16D	78.3	37	250	OW-1-225	49.3	30	11.0
OW-1-155	52.2	25	13.0	OW-1-19D	78.9	40	520	OW-1-23\$	48.8	30	11.0
OW-1-16SR	51.8	25	26.0	OW-1-20D	79.5	30	260	OW-1-248	48.4	31	11.0
QW-1-17S	50.7	21	24.0	OW-1-21D	79.5	37	25:0	OW-1-258	48.8	<u>35</u>	27
OW-1-165	50.2	20	12,0	OW-t-22D	79.5	29	240	OW-1-265	46.3	30	120
QW-1-195	49.7	DFÍ	ĐĨÝG	OW-1-23D	78.7	31	24,0	OW-1-27S	49.3	30	1370
OW-1-205	49.3	DYF	OFF	OW-1-24D	78.2	30	250	OW-1-28S	48.S	37	פּרָן
Comments:	All Points set at 30 sch										
				biaction Bank 6				injection Bank 9			
<u>inicciion Bank 7</u> Depth (ft) <u>scfh</u> psi				Depth (ft) soft psi				DTW DO(moll) PID			
OW-1-260	78.1	40	16.5	OW-1-295	48.5	30	120	-OW-1-33D	83.2	30	230
OW-1-26D	78.1	37	26,0	OW 1-305	46.8	31	R.0	QVV-1-34D	84.5	30	23:
OW-1-270	77.0	31	20	OW-1-315	49.3	23	130	OW-1-35D	85.0	41	238
OW-1-28D	78.0	30	76.0	OW-1-325	49.3	30	120		85.0	P	17.9.5
-()W-1-29 D	78.4	170	125.0	OW-1-335	49.7	131	120	-0W-1-37D	-84.0	25	25.
OW-1-300	79.0	127	33.0	OVV-1-345	50,1	130	12.0	CW-1-36D	62.0	29;	26
OW-1-31D	80.5	101	134	OW-1-35S	50.3	33	13.0	OW-1-39D	78.0	29	26
01/1-320	81.6	171	127,0	0W-1-369	50,2	30	13,0	OW-1-40D	76,0	52	25
Comments	_ <u>_</u>		<u> </u>	<u></u>	l Ni șeâi		.# 3 0.54			ander son for the second sector subjective	- /****/ <u>/******************************</u>
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Notes:											

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		Hemper	naci inte	section Oxy	<u>ien inie</u> s	tion Rep	nedial Sy	stem Kurnts	e 1		
	njection Br	ink 18		i.	hjeciých Br	ma 11		1	Niection B	apá 12	ilia Misseren ait
	<u>Depth (ff)</u>	<u>scin</u>	<u>251</u>		<u>Depth (fi)</u>	<u>seth</u>			Depth (ft 1	<u>sch</u>	<u>psi</u>
OW-1-375	50.5	LS	11.0	01441-410	75.6	77	22,0	OVV-7-43	87.4	31	0,61
OW-1-595	50.6	26	20	OW-1-42D	71.0	30	7.5.0	OW-1-64	66.6	30	30
ON-1-395	50.7	25	120	OW-1-45	65.7	30	130	ow-1-51R	60.6	\mathcal{R}	10.0
OW-1-465	51.1	27	13:0	GW-1-4 6	64.3	30	<u>[i)'o</u>	OW-1-52	59.3	35	071
OW-1-415	51.5	30	130	OW-1-47	63.4	3'	100	OW-1-53	60.0	30	160
OW-1-428	51.3	30	130	Ø₩-1-40	6 2.5	30	17.0	OW-1-54	60.0	30	150
-	-			OW-1-49	61.5	47	160	-			
	-			OW-1-50	61,0	30	001	-			
Comments:				A	l Point	s set o	t 30 sch	4-3 			-
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	<u>Grad an</u>	<u>&&</u>	<u> </u>		<u>Depth (C</u>	<u>120</u>	<u> </u>		<u>IN</u>	<u>Comp</u>	<u>890</u>
								5:			
Comments:		8	<u></u>	A	ll point	6 361 a	: { 30-sci	- h-	<u> </u>		() (
- Notes:											

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		GELERAL STATES				
Trailer	 Performed general housekee Abnormal conditions observe 	ping (i.e. sweep, collect Yes d (e.g. vendalism)	trash inside and $\underline{N}NE$	olit, sic.) No	etamonetanjografia	and an and a state of the state
	3) Other major cointities comole Y132	EFTIDAUSHR	cen 47	<u>) jpc</u>	<u>vr120</u>	
	4) Supplies needed	DOUL 1				
	antineti da antineta antineta antineti da antineti da antineti da antineti da antineti da antineti da antineti				*****	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	5) Visikus					
. 45. A	57 Visiturs	OPERATIONAL M				
A5 AI	5) Visitors ir Compressor 1) Oil Level Checked with system " Uoload system, wall until D 2) Oil Level with system unloade t ow (red)	CPERATIONAL AC municaded? elivery Air Pressure is le ad Normai farce	Yes ss than 9 psi		税 行	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -
A5 A	5) Visitors ir Compressor 1) Oli Level Checked with system " Uolood system, walt until D 2) Oli Level with system unlooks Low (red) 3) Oli added	OPERATIONAL NC municoried? elivery Air Pressure is la ad Normai (gree Yes	Yresi yes ss than 9,psi m)Hig	h (orange) No 1	9800 . 	n and a second of the second o
A5 A	5) Visitors ir <u>Compressor</u> 1) Oil Level Checked with system * Uoload system, wait until Do 2) Oil Level with system unloade Low (red) 3) Oil added 4) Oil changed	OPERATIONAL NC municacied? elivery Ab Pressure is le ad Normal (gree 	Yes ss than Spsi n)	h (orange) No_1	*80 	
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<u>A5 A</u>	5) Visitors ir Compressor 1) Oil Level Checked with system " Unload system, wait until De 2) Oil Level with system unloads Low (red) 3) Oil added 4) Oil added 5) Oil filter changed 5) Oil filter changed 6) Air filter Changed 7) Oil separator changed 8) Terminal sirips checked	CPERATIONAL AC municaded ² alivery Ab Pressure is la sol Viss Viss Yes Yes Yes Yes Yes Yes	Yes ss than 9,psi n)Hig	h (orange) No No No No No No	1807 122 122	
<u>S-80.1</u>	5) Visitors ir Compressor 1) Oli Level Checked with system * Veload system, wait until De 2) Oli Level with system unloads Low (red) 3) Oli added 4) Oli added 4) Oli added 5) Oli filter changed 5) Oli filter changed 6) Air filter Changed 7) Oli asparator changed 8) Terminal strips checked O. Generator	CPERATIONAL AC municaded [*] sitiery An Pressure is le ad Normal (gree Yes Yes Yes Yes Yes Yes	Yes ss than 9,psi n)Hig	h (orange) No No No No No No	*800 	
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Hours			7053		Compre	essor 72	nik *		12	-	(psi)
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Turner with all	1 55	29	260	010-9-05		31	200	-Cov-1CO	ens ,	30	290
OW-1-2	05.5	αÝ	34	014-1-65	67.0	14	1.21.0	0%4+100	87,2	30	270
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015-4-4	25.0	40	30	034545	65.7	27	A.O	011-1-120	65.2	27	240
046-1-50	£3.9	30	29,0	012-1-55	65.0	30	190	OV24-13D	.94.7	53	230
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OW-1-135	53.1	22	30	OW41-170	79.3	30	13.0	014-1-218	49.3	57	310
Ster-143	527	29	40	DW-1-FED	79,3	21	250	044-1-225	69.3	29	28.0
OW-1-15S	52.2	31	Bo	OW-1-19D	78.9	30	250	OW-1-23S	48.8	21	h7.0
ow-1-169r	51.8	27	260	OW-1-20D	70.5	25	26.0	011-1-248	48.4	2.2	27.6
OW-1-178	50.7	30	74.0	011-1-210	78.5	27	750	OW-1-255	48.6	25	250
OW-1-985	50.2	30	12,0	OW-1-220	79.5	30	24.0	OW-1-265	48.3	25	26.0
CW-1-195	49.7	OFF	Ś́₹	OW-1-230	78.7	22	240	OW-1-278	48.3	27	25,0
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CW4-1-25D	<u>Deoth (10</u> 78.1	<u>acith</u> 7.9	760	ONN-1-295	<u>Depth (fil</u> 48.5	29	17.0	CW-1-33D	<u>DTW</u> 83.2	30	<u>PHD</u> 78.0
074-1-260	78.1	30	760	OVF 1-325	46.8	29	130	GW-1-340	84.5	30	1230
OW-1-270	77.9	37	27.0	OW-1-315	49.8	30	13,0	OW-1-350	85.0	41	24:0
0₩-1-250	78.0	32	270	0/04-1-325	49.3	30	0.51	_ 0W-1-56D	85.0	30	29,0
-0W-1-29D	78.*1	35	25.0	CW4-1-335.	49.7	31	13.0	0114-1-376	<u>94,0</u>	27	28.8
0W-1-300	76,0	22	40.2	OW-1-365	50.1	27	13.0	C/W-1-38D	62.6	31	26.0
OW-1-81D	80.5	ŚŔ	OXY	OW-1-355	\$0. 3	25	13,0	OW-1-39D	78,0	30	260
0147-1-520	\$1.6	37	Sio	0101-1-555	50.3	32	30	C444-1-40D	76:0	32	25?
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	<u>Depth (fi)</u>		251		<u>Depih (fi)</u> (<u>seth</u>			Depth (ft)	<u>sch</u>	<u>psi</u>
QW-1-375	69.5	1.72	<u>11,0</u>	DW-1-01D	79.8	22	Nø	CM-1-43	67.4	30	190
OW-1-385	50.6	22	12.0	OW-1-12D	71,9	31	2/.0	OW-1-94	66.6	37	\overline{Do}
CHN-1-085	511.7	い	13,0	Ø84445	.65.7	25	1/8.0	CVM-1-STR	-60.6	31	16.0
CW-1-498	\$1,1	22	BO	OW-1-45	64.3	23	no]	QW-1-52	59,3	39	120
OW-1-415	5 7.5	31	BO	OWL1-47	63.4	30	<u>1</u>].0	CNA-1-55	69.0	30	50
014-1-425	51.3	25	12.0	OW-1-49	62.5	27	17.0	. OV%-1-34	60.0	27	120
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29 21 Date: GENERAL STATEGARDTES Trailer 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) Yes 260 2) Abnormal conditions observed (e.g. vendatism) びんど UPDATED CHECKEN 3) Other major activities completed AUD 6 154cm ヒナイレン LEBULD N Ϋ́ ¥ 4) Supplies needed UG 5) Visitors OPERATIONAL NOTES GA5 Air Comoressor 1) Oil Level Checked with system unloaded? Yes 1877 * Unload system, wait until Delivery Atr Pressure is less than 9 psi/ 2) Oil Level with system unloaded Low (red) Normal (green) High (orange) 3) Oil added Yes No 4) Cilcianyed Ýsis 60 5) Oil filter changed Yes No 6) Ar Her Changed Yes No Yes 7) Oil separator changed Ma 0) Terminal since checked res WO AS-80 O, Generator 1) Prefilier changed Yes No 2) Coalescing changed Yes No For ANY VALE DIAPHEAM REBUILD K.T Coutral Ou Compressor NEW

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a tours		•	3487)	Compre	ssor Tari	k *		142		(psi)
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Oxygen Recei	iver Pres	low: Sing *		73	Running	Hours		-	213-	13	(hours)
Oxygen Rees (reading from	(DSI) Receiver. Tank Pressure from blue tank)					FRANS			148Z	5	(hours)
Oxygen Purity			82,2	(pat) (percent)							
	gráting (e in se	din Terreneni		(*maximus	n-escing :	<mark>ining insti</mark> Sir T		జానిల		
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. Carlot	<u>\$5.5</u>	31	76.0		52	35	N.O	-C37-6-66		34	220
0114-1-2	58.5	<u>K</u>	OXÍ	OW-T-6S	67.8	27	N.0	omated	67,2	31	270
DW-1-3	D6.S	22	30.0	ON-1-75	68.9	35	17,0	·CW-1-11D	.99. 1	32	<u>२२</u> ०
0844	65.0	33	Ro	914-HES	6.7	31	170	011-1-120	-05.3	37	280
0\%-1-50	\$3.8	3	27.0	014-1-55	65.0	32	18.5	0164-5-13D	84.7	39	230
0%-1-60	82.4	33	220	0M-1-10S	54.6	27	130	0114-1-1403	64.5	30	23.0
054-1-70	0 1.1	30	28.0	014-1-15	50.1	32	140	0844-850	.#3:8	30	280
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014-1-135	53.1	121	150	014-1-170	79.5	31	30	OW-1-218	49,3	31	11.2
OW-1-145	52.7	30	14.0	DNN-1-ACD	70,3	27	25,0	011-1-225	19.3	31	0.11
OW-1-155	52.2	25	13,0	OW-1-19D	78.9	31	25 N	OW-1-23S	48.8	32	0
OWI-1-16SR	51,6	16	76.0	OW-1-200	79,5	27	26.0	011-245	48.4	40	110
OW-1-175	50.7	21	24.0	OW-1-210	78.5	29	25.0	QW-1-255	49.5	37	13.0
OW-1-185	50.2	29	20	OW-1-22D	70.5	30	24.0	OW-1-205	48.3	43	130
OW-1-195	49.7	OFF	OFF	OW-1-23D	78.7	27	210	OW-1-27S	48.3	37	120
098-1-205	20. 3	Sr.	ŶŶĊ	047-1-240	78.2	30	25.0	TAN-1-205	43.3	38	132
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OW-1-25D	78,1	37	240	OW-1-295	48:5	33	12,0	OA-1-32D	83.2	75	23.0
OW-1-260	78.1	37	26.0	01/1/1-305	48.8	32	130	QW-1-34D	84.5	3(23.0
0₩-1-270	77.9	35	27~	010-1-318	49.8	30	130	GW-1-35D	85.6	22	270
OW-4-28D	780	36	260	0944-325	-49,3	23	12,0	0W-1-360	35. C	30	72, O
-011-1-29D	761	30	25,0	OW-1-335	-98.7	37	12,0	OW-1-37D	-34,0	30	28,0
014-2-500	79,1	25	38.0	OW-1-345	50.1	31	10,0	CW-7-890	22,6	30	26.0
OW-1-31D	80.5	0FF	OKK	QW-1-355	\$0,3	27	120	OW-1-39D	78.0	27	260
CIW-1-32D	ō1.6	25	27'0	014-1-355	50.3	30	13.0	0W-1-400	76:0	26	25,0
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OW-1-375	50.5	27	110	OW-1-610	73.0	30	720	OW-7-43	87.4	27	10
OW-1-585	30. 6	30	120	f (774-1-120	71.0	27	210	OW-1-44	66.6	29	17
010-1-395	SM1.7	46	120	01523-45	-05.7	23	18.0	OW-1-59R	60.6	27	11
OW-1-468	51,1	20	BO	OW-1-46	64.3	ZB	11,0	0\%1.52	59.3	33	17
014-1-115	\$1.5	27	13.0	GW-1-67	63 4	30	17,0	OW-1-53	60.6	25	15
077-1-47 3	51.3	30	13.0	0%+1-48	. 62.5	21	0,81	0114-1-54	69.9	29	15
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	1) Performed general h	ousekeeping (i.e.	sweep, <i>z</i> ollect	trash inside	end out, a	AC.)			
		Yes	s V			20			
	2) Abnormal conditions	observed (e.g. ve	ndafism) y	pd c					
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	3) Other major spainteen	s complisied	LAC	YKU	AND	<u></u>	191)	
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	 Supplies needed 	~ <u>N</u>	<u>or</u> f	مىجىلىچە تىرىدى مىرىيىت مىلىغ			-		
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OW-1-158	52.2	32	13.0	OW-1-19D	78.9	46	26.0	OW-1-235	48.8	34	11.0
OW-1-16SR	51.8	33	26.0	OW-1-20D	70,5	36	26.D	OW-1-24S	48,4	33	fil.D
OW-1-17S	50.7	37	25.0	OVV-1-210	79.5	32	26.0	OW-1-258	48.8	36	12.0
OW-1-185	50.2	30	12.0	OW-1-22D	79.5	30	25.0	OW-1-285	48.3	34	13,0
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014-1-270	77,9	34	27.0	GW-1-31\$	49,3	28	(3.0	OW-1-350	85.0	28	28.0
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-044-1-298	78,4	34	X.0'	OW-1-335	49.7	32	(3.D	OW-1-37U	64.0	24	28.0
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OW-1-385	50.6	38	13.0	OW-1-12D	71.0	26	21.0	OW-1-44	66.6	30	18.0
OW 1-385	50.7	15	13.0	054-645	65.7	30	19.D	OW-1-51R	60.6	32	17.0
OW-1-455	51,1	26	14.0	GW-1-18	64.3	30	18.0	CW-1-52	59.3	25	16.0
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OW-7-135	53.1	34	15.0	0W-1-170	79.5	3	13.0	OW-1-215	49,3	31	11.0
674774WG	32.7	33	14.0) 	78.3	32	26.0	GNV-1-22G	-19.3	129	11.0
OW-1-15S	52.2	35	13.0	OW-1-19D	78.9	31	26.0	OW-1-29S	40.8	29	11.0
OW-1-165R	51.8	30	126.0	OW-1-20D	79.5	32	26.0	OW-1-248	48.4	29	11.0
OW-1-175	50.7	32	24.0	OW-1-21D	79.5	29	25.0	OW-1-25S	48.8	34	12.0
014-1-185	50.2	39	12.0	OW-1-22D	79,5	129	24.0	OW-1-28S	48.3	32	12.0
01/0-1-193	49.7			OW-1-23D	787	32	24.0	OW-1-27S	48.3	36	13.0
OW-1-205	40.3	<u> </u>		OW-1-24D	78,2	30	26.0	OW-1-28S	48.3	30	13.0
Comments:		n an been belen and a starte	1.175.475.475.47.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		l Poin	5 Caí a	i 30 ori	à -			
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	Deoth (fi)	scfb	nsi		Death (ii)	scih	nsi i	ļ .	NGCRON E	DOM: 9	catera di
OW-1-25D	78.1	31	260	OW-1-295	40.5	32	120	OW-1-53D	80.2	28	28,0
OW-1-26D	76.1	34	260	OW-1-305	48.8	3)	13.()	QVV-1-34D	84.5	30	J8.C)
OW-1-270	77.9	32	Q7.0	GW-1-315	49.3	27	13.0	OW-1-35D	85.0	36	28,O
OW-1-28D	76.0	31	26.0	OW-1-325	49,3	28	19.0	0W-1-35D	E3.0	30	29.0
'OVV-1-29D	78.4	34	26.0	OW-1-335	49.7	32	130	OW-4-37D	-64.0	32	28.0
0W-1-600	79,0	24	36.0	OVJ-1-363	50,1 ⁾	32	12.0	C.V-1-SCD	52.0	26	26.0
OW-1-31D	80,5	<u> </u>	<u> </u>	QW-1-35S	\$0,3 [`]	27	13.0	OW-1-39D	78.0	30	26.0
OW-1-32D	01.6	23	28	OW-1-369	50.3	30	13.0	OW-1-40D	76,0	28	25.0
Comments:				्रः भु स्र	l şadildi	3	(30 o ch	ρ			J. J. J. J. J. J. J. J. J. J. J. J. J. J
Notas;								****	, la de la companya de la c	ан бай ^а (таларану), т	



Date: 10/25/21 CONCERCIAL CONDERING TO Treiler t) Performed general housekeeping (i.e. sweep/collect trash inside and out, etc.) Yes \ 100 2) Abnormal conditions observed (e.g. vandalism) No 3) Other major activities completed Compresse wholed SUL 2 Parper 4) Supplies needed Om Plessor Tome 5) Visitors ocol OPERMEALAND NOTES IGAS Air Compressor 1) Oil Level Checked with system unloaded? Yes \$¥c) * Lalcad system, wait unit Collicery Air Prezoure is less then Supsi 2) Oil Level with system unloaded Normai (green) Low (red) High (orange) 3) Oil added Yes No a) Oil changed ¥.3 \$10 5) Oil filter changed Yes No 6) Air filter Changed Yes No 7) Of separator changed Yes Nø 8) Terminal ships checked Yes No AS-80 O. Generator 1) Prefiller changed Yes No 2) Coalescing changed Ves No

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Oxygen inj	ection R Na Interim R	emedial tional Gr emedial	System N id Measure	lumber 1		Inside	e Trailer 1	Date: Time: Weather: emperature:	172 1 0 Too 34-1	20° ~ 7	owrthy erable
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iect Aiz Press	****		94	() si)	Delicony	Air			135	•	(175 ¹)
Cycle Precour (L/R)	e* ·	High: Low:	<u>(7</u>	6 ⁶ 1 (psi)	Element	Cuttot T.	ompachu	re .	197	•	(°F)
Dxygen Recei	ver Pres	sure *		49	Running	Hours		- 1	23,429		(hours)
Dxygen Recei reading from	kygen Receiver Tank Pressure eading from blue tenk) <u>45</u>								<u>المبالما</u>		(hours)
Doygen Purity	en drecient		84.3	(percent)	* maximua	Nexting (ining inedi				
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-GU2-1-4	£3.5 (26	270	-07 1-1 -33		28	150	C117-1-150	£3.5	30	78.0
OW-1-2	99.5			014-1-05	67.0	20	18.0	014-1-100	57.2	32	27.5
DW-1-3	96.3	32	30.0	OW-1-75	-66.0	29	185	OW-1-110	.66.1	30	29.0
OW-1-4	95.0	32	295	014-1-68	66.7	27	K.O	0:12-12-0	85.3	31	28,0
044-1-5D	53. 9	27	29.0	0%-1-05	60.0	26	18.0	ACC-5-12D	64.7	30	<u>p15</u>
014-1-6D	\$2.4	29	29.5	OV2-1-10S	54.6	27	4.0	GU/-1-14D	84.1. 1	30	128.0
(DWL-1-71)	01,3	28	24.0	OW-1-111S	698.4	26	14.5	GW-1-15D	63.9	32	19.5
O(N-1-8D	C 3.6	30	29.0	C18-1-128	52.6	128	15.0	. 0°2%-1-16D	62.5	30	1 14.5
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OW-1-13S	53.1	1.29	n.5	OW-1-17D	79.5	1.30	130	OW41-215	49.3	30	h.0
DNV7-743	32.7	30	13.0	53 7-1-1 60	78.3	30	25.5	GAN-1-223	-19.5	30	11.5
OW-1-155	52.2	28	125	OW-1-190	78.9	14	26.0	OW-1-23S	48.8	36	10.5
0W-1-16SR	51.8	U	120	0₩-1-200	79.5	30	265	OW-1-24S	48,4	29	11.0
OW-1-17S	50.7	26	27.6	OW-1-21D	70.5	30	<u> 95.5</u>	OW-1-25S	48.8	30	13.0
014-1-185	50.2	16	175	OW-1-22D	79.5	27	15.0	OW-1-266	46.3	30	13.0
OIAL1-195	49.7	ļ		OW-1-23D	78 7	30	25.0.	OW-1-279	48.3	zg	12.5
014-1-205	49.3			OW-1-24D	78,2	31	27,0	OW-1-285	48.3	11	13.5
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OW-1-25D	78.1	30	71.5	OW-1-295	-40.5	30	12 0	OW-1-53D	83.2	24	780
OW4-1-26D	78.1	26	765	099/1-305	48.8	30	13.5	QW-1-34D	(14,5	28	275
OW-1-270	77.9	20	270	GW-1-31S	49.3	27	13.0	OW-1-35D	85.0	29	28.0
OW-1-28D	76.0	31	265	OW-1-325	49,3	31	17.0	0W-1-35D	£5.0	25	19.0
19W-1-29D	78.4	923	EBS	OW-1-335	×19.7	29	135	OW-1-37U	-84.0	74	80
OW-1-580	79.0	38	34.5	OV/-1-343	501	128	125	C/4-1-36D	52.0	28	265
		76		OW-1-35S	50.3	26	12.5	OW-1-39D	78.0	28	260
OW-1-32D	<i>0</i> 1.6	29	191.0	OW-1-389	50.3	29	13.0	OW-1-40D	76.0	22	20
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	<u>Ueom (m</u>)								Lucoun (m	Sian	<u></u>
OW-1-375	50.5	20	17.0	OW-1-41D	73.6	25	77.5	UW-1-43	67.4	24	195
OW-1-385	50.6	75	p.5	OW-1-120	71.0	22	20.5	OV¥-1-44	66.6	29	18.0
QV4-1-30S	50.7	72	13.0	QV7#18+413	95.7	24	19.0	ow-1-5tr	60.6	23	/6D
OW-1-465	51.1	25	14.D	GW-1-16	64.3	24	185	OW-3-52	59.3	n	155
ow-1-415	51 .5	30	13.5	OWI-1-47	63.4	25	170	OW-1-53	60.0	21	16D
ON#1-47.5	51.3	IJ.	13.0	017-146	62.5	24	18,0	057-7-54	6D.0	23	15:D
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		Date:
	CENERAL COURSENANCES	
Trailer	1) Performed general housekeeping (i.e. sweep/collect trash in Yes	nside and out, etc.)
2	2) Abnormal conditions observed (e.g. vandalism)	- Fire extragarsher receded
	3) Other major activities compisied Nant	
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	5) Visitors Nort	
្វី <u>នាក់រ</u> ាម	CPERATURE INTES	
IGAS Air Cor	iompressor	
	 Oil Level Checked with system unloaded^a * Unload system, wait until Dalitary Air Pracaure is less than Oil Loval with evelow unloaded 	Yes <u>12 </u>
	tow (red) Normal (green)	High (orange)
	3) Oil added Yes	ixio
	a) (Cil changed Was	Ala
	5) Oil filter changed Yes	No
έ ε	6) Air filter Changed Yes	NG real preserve systematic
1 7	7) Oil separator changed Yes	NO NO
	8) Terminal ships checked Yes	INO month
105-30 C. G	Generator	Bin
	1) Prefilter changed Yes 2) Coalescing changed Yes	No <u>N</u>

Oxygen System Number 1 Log Sheet

		OXYG. Konnel	in Injec sca inter	TICN OPERA	TION AN	ic Main ton Rea	ITENANO nectict Su	E LOG SHER stem Kumbe	ii Vi		
Oxygen ir	ljection (N Interim I Project (Remedial ational G Remedia No. 1.703	System ind Measure 827-30-1	Number 1		Insid	le Trailer P	Date: Time: Weather: Temperature: briorned By:	12 10 405, Wann C. H	Party Party Opens	lardy
	<u>ر</u> ه د	62720	.e •	19. Martin all all a state and a state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	1 1 2	بر بر بر میرون میرون میرون میرون مرکز میرون میرون میرون میرون میرون میرون میرون میرون میرون میرون میرون میرون میرون میرون میرون میرون میرون	, ۵۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰	анан таларуулуу таруу туруу таран таратан тарактар 1999 - К.С. Сандан тара тара тара тара тара 1990 - К.С. Сандан тара тара тара тара тара тара тара та			
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Oxygen Recei (reading from	iver. Tanl blue tan	k Pressu k)	re .		Loading	Hours			16,40	2	(hours)
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<u>HOUID: 15</u>	<u>.660</u>	07			Condens	sate Purg	ged (V) I	V) Conden	sahe Em	pticol (V	DN)
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Constant and	<u>CS</u> S	35	26.0	377-11-35	320	32	180	:(~2.5 ;	31	28.0
OW-1-2	98.5	Point	OFF	ow-1-0s	67.0	96	18.0	OW-1-180	67,2	31	27.0
DW-1-3	96.9	29	31.0	OW-1-75	-66.9	37	17.0	·OW-1-11D	.648.1	30	29.0
OW-1-4	65,0	31	30.0	039-1-GS	6.7	30	18.D	01142-1201	85.3	31	28.D
ov:-1-50	\$3. 8	33	29,0	ormes	62/8	32	18,0	01:2-1-18D	84.7	30	28.0
041-1-60	82.4	31	29.0	014-1-105	54.G	30	13.0	015-1-14D	64.1 ,	30	29.0
<i>1</i> 0747-1-71D	ચ્છ્રય.ગ	30	29.0	OW-1-915	56.1	38	14.0	OW-1-15D	6.83.5	33	28.0
C'18-1-8D	686	31	29.0	G114-125	02.6	33	16.0	0724-160	82.5	29	13.0
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OW-1-155	52.2	29	13.0	OW-1-180	78,9	36	2.0	OW-1-23S	48.8	29	0,11
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0114-1-185	50.2	30	12.0	OW-1-22D	79.5	126	25.0	OW-1-255	46.3	31	13.0
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OW-1-26D	78.1	31	26.0	OW 1-305	48.8	31	13.0	QW-1-34D	ÿ4.5	32	28.0
OW-1-270	77.9	34	270	OW-1-315	49.3	28	13.0	Ø₩-1-35D	65 .0	34	28.0
OW-1-28D	76.0	30	26 D	OW-1-325	49.3	32	12.0	OW-1-25D	65.0	34	29.0

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OW-1-385	50.6	36	13.0	OW-1-42D	71.0	38	20.0	QW-1-44	66.6	32	18.0
074-1-385	50.7	35	12.0	Observats	65.7	32	19. 9	ow-1-str	60.6	36	16.0
OW-1-466	51,1	29	13.0	GW-1-45	64.3	32	17.0	OW-1-52	59.3	35	15.0
011-1-415	51.5	23	13.0	OW-1-47	63.4	42	17.0	OW-1-53	69.0	35	16.0
0774-1-425	51.3	32	13.0	0 %7-1-49	62.5	37	18,0	OV7-1-54	60.6	-38	16.0
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		CEREVA CRESSEN	
Tratler	1) Performed general housekeep	ing (i.e. sweep/ collect tr	ash inside and out, etc.)
	2) Abnormal conditions observed	I (e.g. vandalism)	Non
	3) Other major activities complain	ed None	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩
	4) Supplies neededNo	N	
	5) Visitors None	******	**************************************
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1	Low (red)	Normal (green)) High (orange)
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	5) Dit litter channert	AP20	Mer Ner
i i	6) Air filter Changer	Yes	Mrs
	7) Oil separator changed	Yes	No
	8) Terminal ships checked	Yes	No
AS-80 C	>, Generator		elastitusainain
	1) Prefilter changed	Yes	No
K	65 Alexandra and a second of	A disc and the second second second	

Periodic Review Report March 28, 2021 – March 28, 2022 Hempstead Intersection Street Former MGP Site Town of Hempstead, Nassau County, New York Site ID #1-30-086 April 2022

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 Site No. 130086	Box 1	
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, 2021 to March 28, 2022		
	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
 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
 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?		
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below ar DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.	nd	
A Corrective Measures Work Plan must be submitted along with this form to address the	ese issu	ies.
Signature of Owner, Remedial Party or Designated Representative		

SITE NO. 130086	6	Box 3
Description	of Institutional Controls	
Parcel	<u>Owner</u>	Institutional Control
34-174-1	KeySpan Gas East Corp	Ground Water Use Restriction
		Soil Management Plan
Property use must Groundwater use	be restricted residential, commercial, or industrial is prohibited without treatment	Landuse Restriction Site Management Plan
Groundwater mus Data must be repo Implement HASP 34-174-208A	t be monitored per the SMP orted per the SMP and Excavation Work Plan prior to ground intrusiv KeySpan Gas East Corp	ve activity except landscaping
		Landuse Restriction Site Management Plan
		Soil Management Plan Ground Water Use Restriction
Property use must Groundwater use Groundwater mus Data must be repo	be restricted residential, commercial, or industrial is prohibited without treatment t be monitored per the SMP orted per the SMP	
Implement HASP	and Excavation Work Plan prior to ground intrusiv	e activity except landscaping
34-174-208B	Reyspan Gas East Corp.	Ground Water Use Restriction
		Soil Management Plan
		Landuse Restriction Site Management Plan
Property use must Groundwater use Groundwater mus Data must be repo	be restricted residential, commercial, or industrial is prohibited without treatment t be monitored per the SMP orted per the SMP	
34-174-209A	And Excavation Work Plan prior to ground intrusiv KeySpan Gas East Corp	e activity except landscaping
		Landuse Restriction Site Management Plan
		Soil Management Plan
		Ground Water Use Restriction
Property use must Groundwater use Groundwater mus Data must be repo	be restricted residential, commercial, or industrial is prohibited without treatment t be monitored per the SMP orted per the SMP	I
Implement HASP	and Excavation Work Plan prior to ground intrusiv KeySpan Gas East Corp	e activity except landscaping
v∓-11 7- 203D		Ground Water Use Restriction
		Soil Management Plan
		Landuse Restriction Site Management Plan
Property use must Groundwater use	be restricted residential, commercial, or industrial is prohibited without treatment	I

Groundwater must be monitored per the Data must be reported per the SMP Implement HASP and Excavation Work	e SMP Plan prior to ground intrusive activity except landscaping]
		Box 4
Description of Engineering Cont	rols	
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 34-174-208A	f impacted groundwater	
	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 34-174-209A	f impacted groundwater	
	Groundwater Treatment System Cover System	
Provision of two-foot thick soil cover Active oxygen delivery system in area of 34-174-209B	f impacted groundwater	
	Groundwater Treatment System Cover System	
Provision of two-foot thick soil cover Active oxygen delivery system in area of	f 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 mormation presented is accurate and compete. YES NO
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
	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

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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 <u>Christopher Morris</u>	_at 1000 New York Av	enue, Huntington Station, NY				
print name	print business a	address				
am certifying as <u>agent</u> for Nat	ional Grid	(Owner or Remedial Party)				
for the Site named in the Site Details Section of this form.						
Chi M	in	4,000,000				
		4/26/22				
Signature of Owner, Remedial Party, o Rendering Certification	r Designated Representative	Date				

EC CERTIFICATIONS					
Qualifie	ed Environmental Professional Signature	Box 7			
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.					
Jeff Parillo	at at Brook Drive (Suite 2	01), Glastonbury, CI			
print name	print business address				
am certifying as a Qualified Environmental Professional for the Owner/Remedial Park					
nedial Party)					
Mu failt					
		4/26/22			