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DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
REMEDIATION DIVISION
LEAKING UNDERGROUND STORAGE TANK COORDINATION PROGRAM
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Part I: Primary Recipient*: Remediation Program (* required)

For Remediation documents:	For LUST documents:
Primary Program*: Property Transfer	UST Facility ID:
Rem ID*: 854214	Spill Case Number:

Part II: Site Information

Site Name*: Norwalk Harbor Generating Station

Site Address*: One Manresa Island Avenue

City/Town*: South Norwalk State: CT Zip Code: 06854

Secondary Programs (complete as many as applicable for this document):

Program: Select Secondary Program	Project ID:
Program: Select Secondary Program	Project ID:
Program: Select Secondary Program	Project ID:
Program: Select Secondary Program	Project ID:

Provide Project ID for each secondary program if it is known.
Each program has a unique ID (i.e. Rem ID, Spill Case #, UST Facility ID, etc.)

Part III: Document Information (document type required for appropriate program[s] only)

Remediation*: Annual Report

LUST*: LUST Document Type

Date of Document*: 11/4/2021 Version: Final

Part IV: Submitter Information

Name*: Andrew Walker

E-mail*: Andrew.Walker@aptim.com

Name of company/business this document is being submitted on behalf of: *

Norwalk Power LLC

Norwalk Power LLC
One Manresa Island Avenue
South Norwalk, CT 06854

An NRG Energy Company

November 04, 2021

Ms. Amanda Killeen
CT Department of Energy & Environmental Protection
79 Elm Street
Hartford, CT 06106

Subject: Annual Site Status Update
Norwalk Harbor Generating Station, South Norwalk, CT

Dear Ms. Killeen:

Norwalk Power LLC respectfully submits the enclosed Annual Site Status Update prepared by Aptim Environmental & Infrastructure, LLC for the Norwalk Harbor Generating Station. This status update covers environmental activities performed from September 1, 2020, through August 31, 2021, at the subject site.

If you have any questions regarding the site or this report, please contact Shawn Konary, Regional Environmental Director at 677.529.3874 or at Shawn.konary@nrg.com.

Sincerely,

Andrew Scano

Andrew Scano
Plant Manager, Norwalk Power LLC

cc: Juan Perez, USEPA (electronic)
Shawn Konary, NRG (electronic and hard copy)
Andrew Walker, LEP, APTIM (electronic)

ANNUAL SITE STATUS UPDATE, SEPTEMBER 2020 TO AUGUST 2021

NORWALK HARBOR GENERATING STATION
ONE MANRESA ISLAND AVENUE
SOUTH NORWALK, CONNECTICUT

Prepared for:
Norwalk Power LLC
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Project No. 631022695
November 2021

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FIGURES

Figure 1 Site Plan

APPENDICES

Appendix A Data Validation Worksheets and Laboratory Analytical Reports for TA Groundwater and Surface Water - September 2020, April 2021, and June 2021

APPENDICES (continued)

Appendix B Data Validation Worksheets and Laboratory Analytical Reports for Reagent Testing Groundwater and Soil - April 2021 and August 2021
Appendix C Data Validation and Laboratory Analytical Report – RCRA Groundwater, June 2021
Appendix D EC Inspection Checklist for AOC 10 Low Permeability Cap, April 5, 2021

1.0 INTRODUCTION

On behalf of Norwalk Power LLC (Norwalk Power), Aptim Environmental & Infrastructure, LLC (APTIM) prepared this report to provide an annual site status update for the subject site. A Site Plan is provided as **Figure 1**. This update covers the annual reporting period from September 2020 through August 2021. In addition, APTIM is providing the Connecticut Department of Energy & Environmental Protection (CTDEEP) with a schedule for continuing environmental activities at the site.

2.0 ENVIRONMENTAL ASSESSMENT ACTIVITIES

Environmental field activities completed during this reporting period, include surface water sampling, multi-program groundwater sampling, and soil sampling for reagent testing. The field activities are discussed further in this section.

Additional environmental activities completed for the site during this reporting period include the following:

- CTDEEP confirmed receipt of the Synthetic Precipitation Leaching Procedure (SPLP) aluminum assessment for Area of Concern (AOC) 1 soil by email from CTDEEP on October 19, 2020, and instructed Norwalk Power to proceed in developing a conceptual site model and site assessment, and implementing a Remedial Action Plan (RAP) to address aluminum in soil at AOC 1. Norwalk Power is evaluating options and developing the plan.

- APTIM prepared and submitted to CTDEEP the final Remedial Action Plan for Wetland Sediments (the 'Sediment RAP') in September 2020 (APTIM, 2020b). Norwalk Power received written concurrence of the final Sediment RAP from CTDEEP and the U.S. Environmental Protection Agency (EPA) via email on November 4, 2020. Norwalk Power has begun applying for state and federal permits required to execute the Sediment RAP. CTDEEP Land and Water Resources Division (LWRD) issued a Certificate of Permission (COP) on August 18, 2021. The U.S. Army Corps of Engineer is currently reviewing the permit application. Local filings will be completed during the next reporting period.

2.1 Surface Water Monitoring – Connecticut Transfer Act Program September 2020

APTIM conducted one surface water sampling event during this reporting period in September 2020. Gauge readings obtained from Wetlands W-3, W-4, W-5, and W-6 and the inlet during this reporting period and calculated surface water elevations are reported in **Table 1**.

Surface water samples were collected in Wetland W-5 (tidal) on September 10, 2020. The surface water sample location in Wetland W-5 (tidal) was close to the weir/culvert and between SW-W5 (shown on **Figure 1**) and the road. Wetland W-4 (freshwater) was dry and no sample was collected during this sampling event. Surface water sampling was performed in accordance with the surface water sampling plan identified in APTIM's February 27, 2017, response letter to CTDEEP.

The surface water samples collected at W-5 were submitted to the laboratory for analysis of total and dissolved metals by Method 6020A including arsenic, aluminum, beryllium, cadmium, copper, lead, nickel, selenium, thallium, and zinc. Grab surface water samples were collected via the direct dip method. Samples collected for dissolved metals analysis were field filtered through a 0.45 micron filter into a preserved sample container. Water quality parameters including temperature, pH, turbidity, specific conductivity, dissolved oxygen, and oxygen-reduction potential were measured at the time of sample collection.

The September 2020 field parameters and Transfer Act program surface water analytical results for total and dissolved metals are shown in **Table 2**. Copies of the laboratory analytical reports from September 2020 (JD12971) combined with Transfer Act groundwater results are included in **Appendix A**.

The following detections in September 2020 were greater than applicable WQC (**Table** 2**)**:

- Total aluminum was detected in the surface water sample collected in September 2020 from SW-WEIR-W5 at 1,300 micrograms per Liter (µg/L), which is greater than the Alternative WQC of 87 µg/L. Dissolved aluminum was not detected at a concentration greater than the Alternative WQC.

- Total arsenic was detected in the surface water sample collected in September 2020 from SW-WEIR-W5 at 36.2 µg/L, which is greater than the Saltwater Chronic WQC of 36 µg/L. Dissolved arsenic was not detected.

The laboratory diluted the surface water sample from SW-WEIR-W5 for analysis and the sample was reportedly a ‘difficult sample matrix’ both resulting in non-detects with elevated reporting limits that are greater than the applicable WQC for total and dissolved copper, lead, and nickel.

2.2 Groundwater Sampling

APTIM conducted groundwater sampling in September 2020, April 2021, June 2021, and August 2021 at the locations and for the parameters listed in **Exhibit 1** below. Monitoring well locations are shown on **Figure 1**. The well locations relative to the applicable criteria based on the groundwater flow model are also provided in the table below (some wells are in overlapping zones). Monitoring at wells AOC1-MW6 and NH-14S was conducted for use in reagent bench testing in April 2021 and the modified MEP in August 2021. During the September 2020 and April/June 2021 events, semi-annual Transfer Act (TA) groundwater samples were collected from existing wells to monitor groundwater concentration trends of metals and to assess compliance with applicable criteria. Groundwater samples were also collected in June 2021 for the annual Resource Conservation and Recovery Act (RCRA) program for AOC-10. The RCRA sampling event was conducted in accordance with the approved RCRA groundwater monitoring program approved by CTDEEP on December 4, 2008.

Exhibit 1. Groundwater Sampling Summary

Sample Location	SWPC Zone	WQC Zone	September 2020 Semi-Annual TA	April/June 2021 Semi-Annual TA	April and August 2021 Bench / MEP Testing	June 2021 Annual RCRA
AOC1-MW01	X		X	X		
AOC1-MW02	X		X	X		
AOC1-MW05R	X		X	X		
AOC1-MW06	X	X	X	X	X	
AOC1-MW07	X		X	X		
AOC1-MW08	X	X	X	X		
AOC1-MW09		X	X	X		
AOC1-MW10		X	X	X		
AOC1-MW11		X	X	X		
AOC1-MW12		X	X	X		
AOC1-MW13		X	X	X		
AOC1-MW14		X	X	X		
AOC1-MW15		X	X	X		
AOC1-MW16	X		X	X		
AOC1-MW17		X	X	X		
AOC7-MW1-SB1	X		X	X		
NH-14S	X	X	X (dup)	X (dup)	X	
NH-02S	X					X (dup)
NH-03S	X	X				X
NH-05S	X	X				X
NH-08S		X				X
NH-10S	X	X				X
NH-13S	X	X				X

Analyses:

- Semi-Annual TA - Total metals analyses for TA program groundwater monitoring wells in the Surface Water Protection Criteria (SWPC) Zone consists of aluminum, arsenic, beryllium, cadmium, copper, lead, nickel, vanadium, and zinc by Method 6010. Total metals analyses for TA program groundwater monitoring wells in the Water Quality Criteria (WQC) Zone are the same except that copper and cadmium are analyzed by Method 6020.
- Annual RCRA - Total metals analyses for RCRA program groundwater monitoring consist of aluminum, barium, beryllium, cadmium, chromium, cobalt, copper, iron, lead, manganese, nickel, silver, sodium, vanadium, and zinc by EPA Method 200.7; antimony, arsenic, selenium, and thallium by EPA Method 200.8; and mercury by EPA Method 245.1.

APTIM measured depth to groundwater prior to sampling at each of the monitoring wells. Results of water level monitoring conducted during this reporting period are summarized in **Table 3**. APTIM collected groundwater samples from monitoring wells using a modified low flow sampling technique. Each well was pumped at a rate that produced little or no draw down while water quality parameters including temperature, pH, turbidity, oxidation reduction potential (ORP), dissolved oxygen (DO), and conductivity were monitored. Groundwater samples were then collected after the parameters stabilized to

ensure that the groundwater sample was representative of local aquifer conditions. If a well runs dry during purging, the well is allowed to rest, and the sample is collected at a later time from the recharge water. Field parameters are tabulated with laboratory results.

Groundwater samples were submitted for analysis to SGS Accutest Laboratories (SGS) of Dayton, New Jersey. Groundwater samples collected for reagent testing in April and August 2021 were also submitted for analysis to multiple specialty laboratories as described in Sections 2.4 and 2.5. Dissolved metals samples were field filtered. The complete laboratory analytical reports for the groundwater sampling events are included in **Appendices A, B,** and **C** for TA, reagent testing, and RCRA events, respectively.

2.3 Groundwater Results – Semi-annual Connecticut Transfer Act Program

The September 2020 and April/June 2021 transfer act program groundwater sampling parameters and analytical results for total metals detected at concentrations greater than the SWPC or WQC are shown in **Tables 4A** and **4B**, respectively. Results from SGS for total metals for groundwater from AOC1-MW06 and NH-14S in April 2021 and August 2021 are also included in these tables (refer to Sections 2.4 and 2.5 for additional discussion of reagent testing samples). The complete results for the last four rounds of sampling at each transfer act program well are shown in **Tables 4C** and **4D**. Detections and reporting limits for non-detects greater than applicable criteria are noted in the tables. Copies of the laboratory analytical reports for September 2020 (JD12971), April 2021 (JD24269), and June 2021 (JD27374) are included in **Appendix A**.

The September 2020, April/June 2021, and August 2021 results for wells in the SWPC Zone are generally consistent with previous groundwater analytical results though there has been some discrete concentration variation for select metals in select wells (e.g., Al and Pb in AOC1-MW05R, As in AOC1-MW6, Cu in NH-14S) as shown in **Table 4C**. The following detections in September 2020, April/June 2021, and August 2021, were greater than the applicable SWPC (**Table 4A**):

- Total aluminum was detected in the groundwater samples collected from AOC1-MW05R (8,650 µg/L, September 2020), AOC1-MW06 (2,130 µg/L, April 2021), and NH-14S (each event ranging from 83,000 to 133,000 µg/L [and field duplicates ranging from 81,400 to 132,000 µg/L]), which are greater than the Alternative SWPC of 2,000 µg/L.

- Total arsenic was detected at concentrations greater than the Alternative SWPC of 10 µg/L in the groundwater samples collected from AOC1-MW02, AOC1-MW05R, AOC1-MW06, AOC1-MW07 (and field duplicate), AOC1-MW08, and NH-14S (and field duplicates) in multiple events. The maximum concentration of 131 µg/L was detected in the groundwater sample collected from AOC1-MW06 in September 2020.

- Total beryllium was detected in the groundwater samples collected from NH-14S in each event at concentrations ranging from 15 to 29.9 µg/L (and field duplicates ranging from 14.6 to 29.9 µg/L), which are greater than the default SWPC of 4 µg/L.

- Total copper was detected at concentrations greater than the default SWPC of 48 µg/L in the groundwater samples collected from AOC1-MW06 and NH-14S (and field duplicates) in multiple events. The maximum concentration of 419 µg/L (field duplicate 424 µg/L) was detected in the groundwater sample collected from NH-14S in April 2021.

- Total lead was detected in the groundwater samples collected from AOC1-MW05R (20.2 µg/L) and NH-14S (13.3 µg/L, field duplicate 11.3 µg/L), both in September 202, which are greater than the default SWPC of 13 µg/L.

The September 2020, April/June 2021, and August 2021 results for wells in the WQC Zone are generally consistent with previous groundwater analytical results though there has been some concentration variation for select metals in select wells (e.g., As in AOC1-MW6, Cu in NH-14S) as shown in **Table 4D**. The following detections in September 2020, April/June 2021, and August 2021 were greater than the WQC (**Table 4B**):

- Total aluminum was detected at concentrations greater than the approved site-specific Alternative WQC of 87 µg/L in all samples collected from eight wells, one of two samples collected from one well, and no samples from two wells during this reporting period. The maximum concentration of 133,000 µg/L was detected in the groundwater sample collected from NH-14S in April 2021.

- Total arsenic was detected in the groundwater samples collected from AOC1-MW06 in September 2020 at 131 µg/L and AOC1-MW10 in September 2020 and April 2021 at 88.8 and 96.2 µg/L, respectively, which are greater than the Chronic WQC-Saltwater of 36 µg/L.

- Total beryllium was detected in the groundwater samples collected from NH-14S in each event at concentrations ranging from 14.6 µg/L to 29.9 µg/L, inclusive of field duplicate results, which are greater than the approved site-specific Alternative WQC of 11 µg/L.

- Total copper was detected at concentrations greater than the approved site-specific Alternative WQC of 3.1 µg/L in 14 (including field duplicates) of the 26 groundwater samples collected during this reporting period. The maximum concentration of 419 µg/L (424 µg/L in the field duplicate) was detected in the groundwater sample collected from NH-14S in April 2021.

- Total lead was detected in groundwater samples collected from AOC1-MW14 in September 2020 at 10.4 µg/L and NH-14S in September 2020 at 13.3 µg/L (11.3 µg/L in field duplicate), which are greater than the Chronic WQC-Saltwater of 8.1 µg/L.

- Total manganese was detected in groundwater samples collected from AOC1-MW06 in August 2021 at 104 µg/L and NH-14S in April 2021 and August 2021 at 894 µg/L (888 µg/L in field duplicate) and 757 µg/L (745 µg/L in field duplicate), respectively, which are greater than the approved site-specific Alternative WQC of 93 µg/L.

- Total nickel was detected at concentrations greater than the approved site-specific Alternative WQC of 8.2 µg/L in 18 (including field duplicates) of the 26 groundwater samples collected during

this reporting period. The maximum concentration of 693 µg/L (714 µg/L in the field duplicate) was detected in the groundwater sample collected from NH-14S in September 2020.

- Total vanadium was detected in the groundwater samples collected from AOC1-MW15 in April 2021 at 31 µg/L and NH-14S in September 2020 at 38.4 µg/L (38 µg/L in field duplicate), which are greater than the approved site-specific Alternative WQC of 27 µg/L.

- Total zinc was detected in the groundwater samples collected from AOC1-MW06 in September 2020 and August 2021 at 86.5 µg/L and 87.2 µg/L, respectively, AOC1-MW11 in September 2020 and June 2021 at 255 µg/L and 185 µg/L, respectively, and NH-14S in each event during this reporting period at concentrations ranging from 259 µg/L to 636 µg/L (inclusive of field duplicates), which are greater than the Chronic WQC-Saltwater of 81 µg/L.

2.4 Bench Test April 2021

APTIM performed soil and groundwater sampling in AOC 1 between April 27 and 29, 2021, in support of bench scale testing for multiple reagents for potential groundwater remediation. The sampling included collecting groundwater samples from AOC1-MW06 and NH-14S and collecting concurrent soil samples from nearby borings. The soil and groundwater samples were submitted to SGS for analysis and to three other labs for bench testing. The bench scale testing approach, sampling, and results will be described in a separate document to be submitted to CTDEEP at a later date.

The groundwater samples submitted to SGS were analyzed for select total and dissolved metals including aluminum, arsenic, beryllium, cadmium, copper, iron, lead, manganese, nickel, vanadium, and zinc, geochemistry (sulfate, nitrate, nitrite), pH, and ORP. These groundwater results from SGS presented in **Table 5** are compared to both applicable SWPC and WQC though total metals were discussed above with the other TA wells as both AOC1-MW06 and NH-14S are typically part of that well grouping. The soil samples submitted to SGS were analyzed for metals only. The soil results from SGS presented in **Table 6** are compared to the Industrial / Commercial Direct Exposure Criteria (I/C DEC) for reference only as the soil RAP is pending. The complete SGS analytical report for the bench test groundwater and soil sampling event in April 2021 (JD24078) is included in **Appendix B**.

2.5 Multiple Extraction Procedure Testing August 2021

APTIM performed groundwater sampling in AOC 1 on August 5, 2021, in support of the second phase of reagent testing based on the results of bench testing described in the previous section. The sampling included collecting groundwater samples from AOC1-MW06 and NH-14S. The testing consisted of treating a soil sample (site soil collected in April 2021 and properly stored at lab) with the selected reagent by Redox Solutions (Redox) of Carmel, Indiana, and then running a modified multiple extraction procedure (MEP) on the treated soil using site groundwater at ALS Environmental (ALS) of Cincinnati, Ohio. The testing approach, sampling, and results will be described in a separate document to be submitted to CTDEEP at a later date.

Groundwater samples were also submitted to SGS for analysis of select total and dissolved metals including aluminum, arsenic, beryllium, cadmium, copper, iron, lead, manganese, nickel, vanadium, and zinc, geochemistry (sulfate, nitrate, nitrite), pH, and ORP. These groundwater results from SGS presented in **Table 5** are compared to both applicable SWPC and WQC though total metals were discussed above with the other TA wells as both AOC1-MW06 and NH-14S are typically part of that well grouping. The complete SGS analytical report for the August 2021 groundwater sampling event (JD29525) is included in **Appendix B**.

2.6 Groundwater Results – Annual RCRA June 2021

The June 2021 RCRA program groundwater analytical results for total metals detected at concentrations greater than the SWPC and WQC are shown in **Tables 7A** and **7B** and the complete results for the last four rounds of sampling are shown in **Tables 7C** and **7D**. Detections and reporting limits for non-detects greater than applicable criteria are noted in the tables. A copy of the laboratory analytical report for June 2021 (JD27376) is included in **Appendix C**.

The June 2021 results are generally consistent with previous groundwater analytical results. The following detections in June 2021 were greater than the applicable SWPC (**Table 7A**) or WQC (**Table 7B**):

- Total manganese (in well NH-02S) was the only metal detected at concentrations greater than applicable SWPC.

- Total aluminum, cobalt, copper, manganese, nickel, and zinc were detected at concentrations greater than the Chronic WQC for Saltwater or approved site-specific WQC in groundwater samples collected from wells NH-03S, NH-05S, NH-08S, NH-10S, and/or NH-13S in the WQC Zone.

2.7 Laboratory Analytical Report QA/QC Evaluation

Laboratory analyses completed as part of this assessment were conducted in accordance with CTDEEP's Reasonable Confidence Protocols (RCP; CTDEP, 2010) and the site-specific Quality Assurance Project Plan (QAPP). The site-specific QAPP was developed for the subject site in 2008 in accordance with U.S. Environmental Protection Agency (USEPA) guidance. The QAPP presents the requirements and procedures for conducting field sampling activities and investigations at the site so that: (1) the data quality objectives specified for this project are met, (2) the field sampling protocols are documented and reviewed in a consistent manner, and (3) scientifically valid and defensible data are collected. Field sampling activities discussed above were completed in general compliance with the site specific QAPP.

APTIM performed a data validation review of the laboratory reports and documented the results in data validation worksheets. The data validation worksheets are included with the laboratory reports in **Appendices A, B, and C**. These worksheets are consistent with the data quality assessment and data usability evaluations detailed in CTDEEP guidance (CTDEP, 2010b). The results for primary samples

and field duplicates for this reporting period are within acceptable limits per the site specific QAPP (i.e., relative percent difference [RPD]).

In general, laboratory analyses were completed in accordance with the site QAPP and CTDEEP's RCP. The following minor quality assurance/quality control (QA/QC) issues resulting in data qualification, which are summarized in the validation worksheets and laboratory report narratives, were identified:

- JD12971: Serial dilution indicates possible matrix interference for vanadium and zinc; results qualified 'J' as estimated for sample AOC1-MW11-20200908 (JD12971-6).
- JD24078: Redox potential vs H2 and pH analyzed outside of holding time; results qualified 'J' as estimated for samples AOC1-MW06-20210428 (JD24078-1) and NH-14S-20210428 (JD24078-3).
- JD24078: Percent recovery for Nitrogen, Nitrate + Nitrite less than MS/MSD limits; result qualified 'J' as estimated for sample AOC1-MW06-20210428 (JD24078-1).
- JD24078: Serial dilution indicates possible matrix interference for zinc; result qualified 'J' as estimated for sample AOC1-MW06-20210428 (JD24078-1).
- JD29525: Redox potential vs H2 and pH analyzed outside of holding time; results qualified 'J' as estimated for samples AOC1-MW06-20210805 (JD29525-1) and NH-14S-20210805 (JD29525-2).
- JD24269, JD27374, JD27376: No additional qualifications necessary.

In summary, each of the identified issues had no overall effect on the conclusions drawn from the data, and the data, as qualified, is acceptable for the purposes of this submittal.

3.0 ENGINEERED CONTROL INSPECTION AND MAINTENANCE

The Engineered Control in AOC-10 (low-permeable cap) was constructed in 1990. Routine and non-routine inspections are performed to confirm that the Engineered Control continues to perform as designed. Routine inspections are performed by NRG on a semi-annual schedule. The inspection report for this reporting period, April 5, 2021, is included in **Appendix D**. Non-routine cap inspections should be performed after major weather events (i.e., more than 4 inches of rain in a 24 hour time period). There were no major rain events in the area of the site during this reporting period (www.wunderground.com). No impacts, problems, or damage to the low-permeable cap was identified during this inspection.

4.0 SCHEDULE UPDATE

Outlined below is the schedule for environmental activities that Norwalk Power expects to follow in the next two years. Note that future planned sampling schedules may continue to be affected by site access restrictions to non-critical third-party vendors during the COVID-19 pandemic.

Activity	Anticipated Date
AOC-10 Engineered Control Inspections (Semi-Annual)	ongoing
Prepare Draft RAP for Aluminum in Soil	Q4 2021
Groundwater Monitoring (Semi-Annual Transfer Act, Annual RCRA)	ongoing
Evaluate Groundwater Impacts in Northern Area of Site	Q1 2022
Plan and Execute Groundwater Remediation Pilot Test	Q2 2022
Prepare Revised Draft Groundwater RAP Scoring Table of Remedial Alternatives	Q4 2022

Norwalk Power will continue to provide updates on the status of response actions at the subject site on an annual basis as requested by CTDEEP. Plans, submittals, and reports will also be provided to the USEPA.

5.0 LIMITATIONS ON WORK PRODUCT

The information contained in this report, including its conclusions, is based upon the information that was made available to APTIM during the investigation and obtained from the services described, which were performed within time and budgetary restraints.

This report contains information and opinions that are limited to the date the report was issued. APTIM has not conducted any site visit, data review or other investigation of a property since the date of the report relating to that property, and APTIM makes no representation with respect to, nor expresses any opinion about, any property after the date of the report. By providing this report, APTIM does not assume any obligation to update the report for any purpose whatsoever.

APTIM makes no representation concerning the legal significance of its findings or of the value of the property investigated. APTIM has no contractual liability to any third parties for the information or opinions contained in this report.

Unless and until the parties agree otherwise in writing, the use of this report or any information contained therein by any third party shall be at such third party's sole risk. Such use shall constitute an agreement to release, defend and indemnify Norwalk Power LLC and APTIM from and against any and all liability in connection therewith.

6.0 REFERENCES

APTIM, 2018. Approval Request for Additional Soil Aluminum Criteria and Concurrence of SPLP Aluminum Assessment, Norwalk Harbor Generating Station, Norwalk Power LLC, South Norwalk, CT. June 25, 2018.

APTIM, 2019. Approval Request for Alternative and Additional SWPC and WQC for Select Metals, Norwalk Harbor Generating Station, Norwalk Power LLC, South Norwalk, CT. August 14, 2019.

APTIM, 2020a. Synthetic Precipitation Leaching Procedure Aluminum Assessment for AOC 1 Soil, Norwalk Harbor Generating Station, Norwalk Power LLC, South Norwalk, CT. June 22, 2020.

APTIM, 2020b. Remedial Action Plan for Wetland Sediments, Norwalk Harbor Generating Station, Manresa Island Avenue, South Norwalk, CT. September 23, 2020.

CTDEEP, 2020a. Fusaro, Carolyn. “Re: WQC & GW question.” E-mail message to Andrew Walker, APTIM. June 16, 2020.

CTDEEP, 2020b. Approval, Request for Criteria for Additional Polluting Substances, Norwalk Harbor Generating Station, 1 Manresa Island Avenue, Norwalk, REM ID #7344. September 24, 2020.

CTDEEP, 2020c. Bobrowiecki, Craig. “Re: Norwalk Harbor Station.” E-mail message to Robert Spooner, NRG. October 8, 2020.

CTDEEP, 2020d. Approval, Request for Criteria for Additional Polluting Substances, Norwalk Harbor Generating Station, 1 Manresa Island Avenue, Norwalk, REM ID #7344. October 9, 2020.

TABLES

Table 1
Surface Water Gauging Data
September 2020 - August 2021
Norwalk Power LLC, South Norwalk, Connecticut

Location	Date	Gauge Height Adjustment (ft)	Height of Water (ft)	Surface Water Elevation (ft NGVD29)	Note
SW-INLET	9/10/2020 9:19 AM	0.87	0.42	1.29	Mid-tide, outgoing
	1/22/2021 12:48 PM	0.87	0.28	1.15	Low tide
SW-W3	9/10/2020 8:56 AM	5.04	0.00	NA	Dry
	1/22/2021 12:31 PM	5.04	0.70	5.74	Water in Wetland 3 is frozen
	6/25/2021 12:00 PM	5.04	0.00	NA	Dry
SW-W4	9/10/2020 9:02 AM	5.24	0.00	NA	Dry
	1/22/2021 12:25 PM	5.24	1.17	6.41	Water in Wetland 4 is frozen
	6/25/2021 12:00 PM	5.24	0.00	NA	Dry
SW-W5	9/10/2020 11:52 AM	4.11	0.00	NA	Dry
	1/22/2021 1:02 PM	4.11	0.44	4.55	Low tide at 12:48 pm
	6/25/2021 12:00 PM	4.11	0.00	NA	Dry
SW-W6	9/10/2020 9:27 AM	2.20	0.98	3.18	Mid-tide, outgoing
	1/22/2021 12:52 PM	2.20	0.80	3.00	Low tide
SW-WEIR-W5	9/10/2020 11:55 AM	NA	1.42	NA	Low tide at 11:47

Notes:
NA = Not Available
NGVD29 = National Geodetic Vertical Datum of 1929
ft = feet
0.00 for 'Height of Water' indicates possible dry condition, see note.
SW = surface water
W# = wetland

Table 2
Saltwater Surface Water Analytical Results
September 2020 - August 2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	SW-WEIR-W5
		Sample ID	SW-WEIR-W5-20200910
		Sample Date	9/10/2020
		Sample Purpose	N
Parameter	**Units**	**WQC-Salt-C**	**Result**
METALS, TOTAL			
Aluminum	**µg/L**	**87**	**1300**
Arsenic	**µg/L**	**36**	**36.2**
Beryllium	**µg/L**	**11**	< 0.5
Cadmium	**µg/L**	**8.8**	< 5
Copper	**µg/L**	**3.1**	< 9.4
Lead	**µg/L**	**8.1**	< 9
Nickel	**µg/L**	**8.2**	< 8.5
Selenium	**µg/L**	**71**	< 25
Thallium	**µg/L**	**17**	< 9
Zinc	**µg/L**	**81**	< 35
METALS, DISSOLVED			
Aluminum	**µg/L**	**87**	53.7 J
Arsenic	**µg/L**	**36**	< 14
Beryllium	**µg/L**	**11**	< 0.5
Cadmium	**µg/L**	**8.8**	< 5
Copper	**µg/L**	**3.1**	< 9.4
Lead	**µg/L**	**8.1**	< 9
Nickel	**µg/L**	**8.2**	< 8.5
Selenium	**µg/L**	**71**	< 25
Thallium	**µg/L**	**17**	< 9
Zinc	**µg/L**	**81**	< 35
FIELD READINGS			
Dissolved Oxygen	**mg/L**	**NV**	1.23
Oxidation Reduction Potential	**mV**	**NV**	113.6
pH	**unit**	**NV**	7.07
Specific Conductivity	**uS/cm**	**NV**	13150
Temperature	**C**	**NV**	24.4
Turbidity	**NTU**	**NV**	18.1

Notes:
N = Sample Purpose, Normal Field Sample
µg/L = micrograms per Liter
mg/L = milligrams per Liter
mV = millivolts
unit = standard pH units
uS/cm = micro-Siemens per centimeter
C = degrees Celsius
NTU = Nephelometric Turbidity Units
WQC-Salt = Numerical Water Quality Criteria for Chemical Constituents, Saltwater, Chronic
(1) = Approved site-specific Alternative WQC for Al, Sb, Ba, Be, Co, Mn, Tl, and V in 9/24/2020 CTDEEP letter.
(2) = Approved site-specific Alternative WQC for Cu, Ni in 10/9/2020 CTDEEP letter.
NV = no value established

BOLD	= Yellow highlight and bold font, result is greater than WQC-Salt-C
	= Green highlight indicates reporting limit for non-detect result is greater than WQC-Salt-C

J = estimated based on data validation
Validation includes both lab and validator qualifiers.
Lab results have been validated.

Table 3
Groundwater Elevation Data
September 2020 - August 2021
Norwalk Power LLC, South Norwalk, CT

Location	Date	Reference TOC Elevation (ft NGVD29)	Depth to Water (ft from PVC)	Groundwater Elevation (ft NGVD29)	Note
AOC1-MW01	9/9/2020 2:00 PM	11.25	9.72	1.53	DTB = 17.94 FT
	6/24/2021 1:45 PM	11.25	8.86	2.39	DTB = 17.95 FT
AOC1-MW02	9/9/2020 2:30 PM	12.22	10.76	1.46	DTB = 17.88 FT
	6/24/2021 12:50 PM	12.22	10.35	1.87	DTB = 17.86 FT
AOC1-MW05R	9/9/2020 4:20 PM	NA	12.08	NA	DTB = 18.06 FT
	4/30/2021 11:15 AM	NA	10.08	NA	DTB = 18.00 FT
AOC1-MW06	9/9/2020 2:25 PM	13.50	11.10	2.40	DTB = 17.32 FT
	4/27/2021 10:07 AM	13.50	6.42	7.08	
	4/28/2021 8:45 AM	13.50	6.43	7.07	DTB = 17.28 FT
	8/5/2021 8:25 AM	13.50	7.60	5.90	DTB = 17.30 FT
AOC1-MW07	9/10/2020 10:00 AM	12.07	9.86	2.21	DTB = 13.92 FT
	6/25/2021 8:45 AM	12.07	9.00	3.07	DTB = 13.80 FT
AOC1-MW08	9/9/2020 11:15 AM	12.34	10.50	1.84	DTB = 14.17 FT
	4/29/2021 9:00 AM	12.34	7.92	4.42	DTB = 14.25 FT
AOC1-MW09	9/9/2020 11:00 AM	11.23	9.28	1.95	DTB = 14.00 FT
	4/29/2021 10:50 AM	11.23	6.35	4.88	DTB = 14.32 FT
AOC1-MW10	9/9/2020 2:30 PM	10.85	8.94	1.91	DTB = 13.38 FT
	4/29/2021 12:15 PM	10.85	6.25	4.60	DTB = 13.25 FT
AOC1-MW11	9/8/2020 2:00 PM	8.73	5.16	3.57	DTB = 13.98 FT
	4/27/2021 10:15 AM	8.73	4.25	4.48	
	6/25/2021 11:10 AM	8.73	4.25	4.48	DTB = 13.85 FT
AOC1-MW12	9/8/2020 3:05 PM	8.91	6.25	2.66	DTB = 12.93 FT
	4/27/2021 10:18 AM	8.91	5.73	3.18	
	6/25/2021 9:50 AM	8.91	6.16	2.75	DTB = 12.95 FT
AOC1-MW13	9/8/2020 3:00 PM	11.05	8.09	2.96	DTB = 16.06 FT
	6/24/2021 10:20 AM	11.05	8.05	3.00	DTB = 16.10 FT
AOC1-MW14	9/8/2020 2:00 PM	11.04	8.85	2.19	DTB = 16.88 FT
	6/24/2021 11:30 AM	11.04	7.40	3.64	DTB = 16.87 FT
AOC1-MW15	9/10/2020 11:00 AM	12.79	10.47	2.32	DTB = 16.02 FT
	4/29/2021 2:30 PM	12.79	8.62	4.17	DTB = 15.95 FT
AOC1-MW16	9/9/2020 3:20 PM	11.45	9.40	2.05	DTB = 15.33 FT
	4/30/2021 9:20 AM	11.45	8.62	2.83	DTB = 15.70 FT
AOC1-MW17	9/10/2020 6:20 AM	NA	8.70	NA	DTB = 15.22 FT
	6/24/2021 9:25 AM	NA	6.25	NA	DTB = 15.15 FT

Table 3
Groundwater Elevation Data
September 2020 - August 2021
Norwalk Power LLC, South Norwalk, CT

Location	Date	Reference TOC Elevation (ft NGVD29)	Depth to Water (ft from PVC)	Groundwater Elevation (ft NGVD29)	Note
AOC7-MW01-SB1	9/8/2020 10:45 AM	10.69	8.20	2.49	DTB = 18.02 FT
	6/25/2021 12:25 PM	10.69	7.90	2.79	DTB = 18.10 FT
NH-02S	6/23/2021 9:05 AM	17.40	13.90	3.50	DTB = 22.70 FT
NH-03S	6/23/2021 2:25 PM	13.74	8.27	5.47	DTB = 16.16 FT
NH-05S	6/23/2021 11:05 AM	16.99	11.30	5.69	DTB = 15.20 FT
NH-08S	4/27/2021 10:09 AM	12.39	6.83	5.56	
	6/24/2021 8:30 AM	12.39	7.50	4.89	DTB = 17.24 FT
NH-10S	6/23/2021 10:10 AM	11.74	6.75	4.99	DTB = 16.35 FT
NH-13S	6/23/2021 1:05 PM	14.87	9.03	5.84	DTB = 14.68 FT
NH-14S	9/8/2020 11:10 AM	12.65	9.99	2.66	DTB = 17.23 FT
	4/27/2021 10:11 AM	12.65	6.70	5.95	
	4/28/2021 1:05 PM	12.65	6.56	6.09	DTB = 17.11 FT
	8/5/2021 12:30 PM	12.65	7.12	5.53	DTB = 17.20 FT

Notes:
NGVD29 = National Geodetic Vertical Datum of 1929
ft = feet
TOC = Top of PVC Casing
NA = Not Available
DTB = Depth to bottom

Table 4A
Transfer Act Program Groundwater Analytical Results for SWPC Zone Wells
Total Metals Detections Greater Than Applicable SWPC
September 2020 - August 2021
Norwalk Power LLC, South Norwalk, Connecticut

	Location Code		AOC1-MW01		AOC1-MW02		AOC1-MW05R		AOC1-MW06		
	Sample ID		AOC1-MW01-20200909	AOC1-MW01-20210624	AOC1-MW02-20200909	AOC1-MW02-20210624	AOC1-MW05R-20200909	AOC1-MW05R-20210430	AOC1-MW06-20200909	AOC1-MW06-20210428	AOC1-MW06-20210805
	Sample Date		9/9/2020	6/24/2021	9/9/2020	6/24/2021	9/9/2020	4/30/2021	9/9/2020	4/28/2021	8/5/2021
	Sample Purpose		N	N	N	N	N	N	N	N	N
Parameter	**Units**	**SWPC**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
METALS, TOTAL											
Aluminum	**µg/L**	**2000**	< 46	< 46	62.7 J	73.7 J	**8650**	478	1720	**2130**	1030
Arsenic	**µg/L**	**10**	< 28	< 28	**12.6**	**12.4**	**105**	7	**131**	8.7	**15.7**
Beryllium	**µg/L**	**4**	< 0.5	< 0.5	< 0.5	< 0.5	1.9	0.9 J	0.5 J	1.9	1.8
Copper	**µg/L**	**48**	< 5.9	< 5.9	< 5.9	< 5.9	21.4	< 5.9	31.3	**118**	**58.3**
Lead	**µg/L**	**13**	< 18	< 18	< 1.8	< 1.8	**20.2**	< 1.8	< 1.8	< 1.8	< 9
FIELD READINGS											
Dissolved Oxygen	**mg/L**	**NV**	0.55	0.19	3.31	4.42	1.59	1.22	1.27	1.65	0.62
Oxidation Reduction Potential	**mV**	**NV**	8.2	7.7	141.7	129.1	41.7	152.7	59.5	161.3	139.3
pH	**unit**	**NV**	6.65	6.77	5.29	5.95	6.2	5.81	5.53	4.76	4.44
Specific Conductivity	**us/cm**	**NV**	39950	36820	2049	524	1390	625	1013	163	235
Temperature	**C**	**NV**	16.1	15.27	15.63	14.8	16.73	13.04	14.24	11.17	15.23
Turbidity	**NTU**	**NV**	0	0	0	0	2.3	0	1.8	0.3	0

Notes:

N = Sample Purpose, Normal Field Sample
FD = Sample Purpose, Field Duplicate Sample
µg/L = micrograms per Liter
mg/L = milligrams per Liter
mV = millivolts
unit = standard pH units
uS/cm = micro-Siemens per centimeter
C = degrees Celsius
NTU = Nephelometric Turbidity Units
--- = analyte not sampled

SWPC = Surface Water Protection Criteria
(1) = Approved Alternative and Additional SWPC for Al, As, V, Zn in 1/15/14 CTDEEP letter.
(2) = Additional SWPC for Ba, Co, Mn approved by CTDEEP on 9/26/2019 (expires 9/26/2027).
NV = no value established
BOLD = Yellow highlight and bold font, result is greater than applicable SWPC
= Green highlight indicates reporting limit for non-detect result is greater than SWPC
J = estimated based on data validation
Validation includes both lab and validator qualifiers.
Lab results have been validated.

Table 4A
Transfer Act Program Groundwater Analytical Results for SWPC Zone Wells
Total Metals Detections Greater Than Applicable SWPC
September 2020 - August 2021
Norwalk Power LLC, South Norwalk, Connecticut

	Location Code		AOC1-MW07			AOC1-MW08		AOC1-MW16		AOC7-MW01-SB1	
	Sample ID		AOC1-MW07-20200910	AOC1-MW07-20210625	AOC1-MW07-20210625_FD	AOC1-MW08-20200909	AOC1-MW08-20210429	AOC1-MW16-20200909	AOC1-MW16-20210430	AOC7-MW01-SB1-20200908	AOC7-MW01-SB1-20210625
	Sample Date		9/10/2020	6/25/2021	6/25/2021	9/9/2020	4/29/2021	9/9/2020	4/30/2021	9/8/2020	6/25/2021
	Sample Purpose		N	N	FD	N	N	N	N	N	N
Parameter	**Units**	**SWPC**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
METALS, TOTAL											
Aluminum	**µg/L**	**2000**	334	87.5 J	77.9 J	1660	469	396	1010	123 J	300
Arsenic	**µg/L**	**10**	**55.7**	**27.1**	**24.1**	**28.5**	**14.1**	< 2.8	< 14	3.1	< 2.8
Beryllium	**µg/L**	**4**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5
Copper	**µg/L**	**48**	< 5.9	< 5.9	< 5.9	5.4	6.4	18.9	< 30	< 5.9	< 5.9
Lead	**µg/L**	**13**	< 1.8	4.4	2.2 J	3.5	< 1.8	12.8	< 9	< 1.8	< 1.8
FIELD READINGS											
Dissolved Oxygen	**mg/L**	**NV**	1.31	5.53	---	1.86	1.87	1.15	4.31	0.78	22.37
Oxidation Reduction Potential	**mV**	**NV**	50.7	73.5	---	13.5	156.6	65.2	136.1	25.3	62.1
pH	**unit**	**NV**	6.3	6.33	---	5.87	5.74	6.02	6.45	5.82	6.19
Specific Conductivity	**us/cm**	**NV**	403	379	---	520	144	6631	1712	1789	833
Temperature	**C**	**NV**	15.85	13.59	---	15.25	10.18	17.57	12.08	18.41	15.62
Turbidity	**NTU**	**NV**	0.7	0	---	3	1.2	2.2	4	0.4	-1.4

Notes:

N = Sample Purpose, Normal Field Sample
FD = Sample Purpose, Field Duplicate Sample
µg/L = micrograms per Liter
mg/L = milligrams per Liter
mV = millivolts
unit = standard pH units
uS/cm = micro-Siemens per centimeter
C = degrees Celsius
NTU = Nephelometric Turbidity Units
--- = analyte not sampled

SWPC = Surface Water Protection Criteria
(1) = Approved Alternative and Additional SWPC for Al, As, V, Zn in 1/15/14 CTDEEP letter.
(2) = Additional SWPC for Ba, Co, Mn approved by CTDEEP on 9/26/2019 (expires 9/26/2027).
NV = no value established
BOLD = Yellow highlight and bold font, result is greater than applicable SWPC
= Green highlight indicates reporting limit for non-detect result is greater than SWPC
J = estimated based on data validation
Validation includes both lab and validator qualifiers.
Lab results have been validated.

Table 4A
Transfer Act Program Groundwater Analytical Results for SWPC Zone Wells
Total Metals Detections Greater Than Applicable SWPC
September 2020 - August 2021
Norwalk Power LLC, South Norwalk, Connecticut

	Location Code		NH-14S					
	Sample ID		NH-14S-20200908	NH-14S-20200908_FD	NH-14S-20210428	NH-14S-20210428-FD	NH-14S-20210805	NH-14S-20210805_FD
	Sample Date		9/8/2020	9/8/2020	4/28/2021	4/28/2021	8/5/2021	8/5/2021
	Sample Purpose		N	FD	N	FD	N	FD
Parameter	**Units**	**SWPC**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
METALS, TOTAL								
Aluminum	**µg/L**	**2000**	**127000**	**128000**	**133000**	**132000**	**83000**	**81400**
Arsenic	**µg/L**	**10**	**14.2 J**	< 14	**16.5**	**16.4**	< 14	< 14
Beryllium	**µg/L**	**4**	**29.9**	**29.9**	**23.8**	**23.4**	**15**	**14.6**
Copper	**µg/L**	**48**	**74**	**75.1**	**419**	**424**	**251**	**248**
Lead	**µg/L**	**13**	**13.3 J**	11.3 J	< 9	< 9	< 9	< 9
FIELD READINGS								
Dissolved Oxygen	**mg/L**	**NV**	0.69	---	0.89	---	0.4	---
Oxidation Reduction Potential	**mV**	**NV**	302.3	---	350.4	---	305.2	---
pH	**unit**	**NV**	3.4	---	3.55	---	2.8	---
Specific Conductivity	**us/cm**	**NV**	3225	---	1169	---	1501	---
Temperature	**C**	**NV**	14.96	---	11.26	---	16.1	---
Turbidity	**NTU**	**NV**	0.4	---	0.1	---	0	---

Notes:

N = Sample Purpose, Normal Field Sample
FD = Sample Purpose, Field Duplicate Sample
µg/L = micrograms per Liter
mg/L = milligrams per Liter
mV = millivolts
unit = standard pH units
uS/cm = micro-Siemens per centimeter
C = degrees Celsius
NTU = Nephelometric Turbidity Units
--- = analyte not sampled

SWPC = Surface Water Protection Criteria
(1) = Approved Alternative and Additional SWPC for Al, As, V, Zn in 1/15/14 CTDEEP letter.
(2) = Additional SWPC for Ba, Co, Mn approved by CTDEEP on 9/26/2019 (expires 9/26/2027).
NV = no value established
BOLD = Yellow highlight and bold font, result is greater than applicable SWPC
= Green highlight indicates reporting limit for non-detect result is greater than SWPC
J = estimated based on data validation
Validation includes both lab and validator qualifiers.
Lab results have been validated.

Table 4B
Transfer Act Program Groundwater Analytical Results for WQC Zone Wells
Total Metals Detections Greater Than WQC
September 2020 - August 2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	AOC1-MW06			AOC1-MW08		AOC1-MW09		AOC1-MW10	
		Sample ID	AOC1-MW06-20200909	AOC1-MW06-20210428	AOC1-MW06-20210805	AOC1-MW08-20200909	AOC1-MW08-20210429	AOC1-MW09-20200909	AOC1-MW09-20210429	AOC1-MW10-20200909	AOC1-MW10-20210429
		Sample Date	9/9/2020	4/28/2021	8/5/2021	9/9/2020	4/29/2021	9/9/2020	4/29/2021	9/9/2020	4/29/2021
		Sample Purpose	N	N	N	N	N	N	N	N	N
Parameter	Units	WQC-Salt-C	Result	Result	Result	Result	Result	Result	Result	Result	Result
METALS, TOTAL											
Aluminum	µg/L	87	1720	2130	1030	1660	469	---	137 J	86.3 J	101 J
Arsenic	µg/L	36	131	8.7	15.7	28.5	14.1	---	8.7	88.8	96.2
Beryllium	µg/L	11	0.5 J	1.9	1.8	< 0.5	< 0.5	---	< 0.5	< 0.5	< 0.5
Copper	µg/L	3.1	31.3	118	58.3	5.4	6.4	---	< 1.9	< 1.9	< 1.9
Lead	µg/L	8.1	< 1.8	< 1.8	< 9	3.5	< 1.8	---	< 1.8	< 1.8	< 1.8
Manganese	µg/L	93	---	67.5	104	---	---	---	---	---	---
Nickel	µg/L	8.2	112	52.6	61.2	20.7	14.2	---	7.9 J	< 1.7	17.8
Vanadium	µg/L	27	20.9 J	< 1.8	< 1.8	16.2 J	7 J	---	10 J	6.6 J	7.5 J
Zinc	µg/L	81	86.5	70.6 J	87.2	28.7	25.2	---	12.4 J	< 6.9	7.5 J
FIELD READINGS											
Dissolved Oxygen	mg/L	NV	1.27	1.65	0.62	1.86	1.87	1.1	1.72	1.01	0.88
Oxidation Reduction Potential	mV	NV	59.5	161.3	139.3	13.5	156.6	44.4	161.6	-47.8	-63.7
pH	unit	NV	5.53	4.76	4.44	5.87	5.74	6	5.87	6.35	6.31
Specific Conductivity	uS/cm	NV	1013	163	235	520	144	510	126	946	531
Temperature	C	NV	14.24	11.17	15.23	15.25	10.18	16.22	9.73	16.13	10.3
Turbidity	NTU	NV	1.8	0.3	0	3	1.2	407.7	2.8	0	0.5

Table 4B
Transfer Act Program Groundwater Analytical Results for WQC Zone Wells
Total Metals Detections Greater Than WQC
September 2020 - August 2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	AOC1-MW11		AOC1-MW12		AOC1-MW13		AOC1-MW14		AOC1-MW15	
		Sample ID	AOC1-MW11-20200908	AOC1-MW11-20210625	AOC1-MW12-20200908	AOC1-MW12-20210625	AOC1-MW13-20200908	AOC1-MW13-20210624	AOC1-MW14-20200908	AOC1-MW14-20210624	AOC1-MW15-20200910	AOC1-MW15-20210429
		Sample Date	9/8/2020	6/25/2021	9/8/2020	6/25/2021	9/8/2020	6/24/2021	9/8/2020	6/24/2021	9/10/2020	4/29/2021
		Sample Purpose	N	N	N	N	N	N	N	N	N	N
Parameter	Units	WQC-Salt-C	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
METALS, TOTAL												
Aluminum	µg/L	87	< 46	49.8 J	< 46	57.9 J	**121 J**	**139 J**	**433**	**104 J**	**1890**	**3780**
Arsenic	µg/L	36	< 28	< 28	< 2.8	< 2.8	< 14	< 2.8	< 14	< 28	3.1	< 14
Beryllium	µg/L	11	< 0.5	< 0.5	< 0.5	0.8 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5
Copper	µg/L	3.1	**30.8**	**21.7 J**	< 4.7	< 1.9	< 9.4	< 9.4	< 9.4	< 19	**15.1**	3 J
Lead	µg/L	8.1	< 18	< 18	< 9	1.9 J	< 9	< 1.8	**10.4 J**	< 18	3.2	< 9
Manganese	µg/L	93	---	---	---	---	---	---	---	---	---	---
Nickel	µg/L	8.2	**87.7 J**	**94.7**	**54.9**	**15**	5.3 J	4.1 J	< 8.5	< 1.7	**29.6**	**29.5 J**
Vanadium	µg/L	27	15.3 J J	9.3 J	< 1.8	< 1.8	4.9 J	4.4 J	< 9	< 1.8	20 J	**31 J**
Zinc	µg/L	81	**255 J**	**185**	10.7 J	8 J	22	11.4 J	< 35	< 6.9	7.6 J	< 35
FIELD READINGS												
Dissolved Oxygen	mg/L	NV	1.09	0.68	0.75	0.45	0.6	1.14	1.62	2.24	1.02	0.93
Oxidation Reduction Potential	mV	NV	46.4	126.1	46.3	106.1	81.3	127.3	120.2	170.8	105.2	97
pH	unit	NV	5.8	6.08	5.59	6.25	6.3	6.59	6.06	6.42	5.91	6.25
Specific Conductivity	uS/cm	NV	38910	26730	8393	3120	15710	9991	30410	15540	308	142
Temperature	C	NV	23.3	18.25	21.4	15.64	21.07	17.33	24.35	19.37	17.95	9.94
Turbidity	NTU	NV	0.7	0.7	1	0.4	0.8	0	0.7	0	0.4	33.3

Table 4B
Transfer Act Program Groundwater Analytical Results for WQC Zone Wells
Total Metals Detections Greater Than WQC
September 2020 - August 2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	AOC1-MW17		NH-14S					
		Sample ID	AOC1-MW17-20200910	AOC1-MW17-20210624	NH-14S-20200908	NH-14S-20200908_FD	NH-14S-20210428	NH-14S-20210428-FD	NH-14S-20210805	NH-14S-20210805_FD
		Sample Date	9/10/2020	6/24/2021	9/8/2020	9/8/2020	4/28/2021	4/28/2021	8/5/2021	8/5/2021
		Sample Purpose	N	N	N	FD	N	FD	N	FD
Parameter	Units	WQC-Salt-C	Result	Result	Result	Result	Result	Result	Result	Result
METALS, TOTAL										
Aluminum	µg/L	87	250	127 J	127000	128000	133000	132000	83000	81400
Arsenic	µg/L	36	< 14	< 2.8	14.2 J	< 14	16.5	16.4	< 14	< 14
Beryllium	µg/L	11	< 0.5	< 0.5	29.9	29.9	23.8	23.4	15	14.6
Copper	µg/L	3.1	< 9.4	< 47	74	75.1	419	424	251	248
Lead	µg/L	8.1	< 9	< 18	13.3 J	11.3 J	< 9	< 9	< 9	< 9
Manganese	µg/L	93	---	---	---	---	894	888	757	745
Nickel	µg/L	8.2	< 8.5	< 1.7	693	714	454	454	328	323
Vanadium	µg/L	27	< 9	< 1.8	38.4 J	38 J	7.1 J	7.5 J	5.7 J	5.5 J
Zinc	µg/L	81	< 35	< 6.9	633	636	325	320	262	259
FIELD READINGS										
Dissolved Oxygen	mg/L	NV	1.86	1.33	0.69	---	0.89	---	0.4	---
Oxidation Reduction Potential	mV	NV	89.8	179.2	302.3	---	350.4	---	305.2	---
pH	unit	NV	6.52	6.84	3.4	---	3.55	---	2.8	---
Specific Conductivity	uS/cm	NV	41950	30810	3225	---	1169	---	1501	---
Temperature	C	NV	23.28	18.87	14.96	---	11.26	---	16.1	---
Turbidity	NTU	NV	1.8	0.8	0.4	---	0.1	---	0	---

Table 4B
Transfer Act Program Groundwater Analytical Results for WQC Zone Wells
Total Metals Detections Greater Than WQC
September 2020 - August 2021
Norwalk Power LLC, South Norwalk, Connecticut

Notes:
N = Sample Purpose, Normal Field Sample
FD = Sample Purpose, Field Duplicate Sample
µg/L = micrograms per Liter
mg/L = milligrams per Liter
mV = millivolts
unit = standard pH units
uS/cm = micro-Siemens per centimeter
C = degrees Celsius
NTU = Nephelometric Turbidity Units
--- = analyte not sampled
WQC-Salt-C = Numerical Water Quality Criteria for Chemical Constituents, Saltwater, Chronic
(1) = Approved site-specific Alternative WQC for Al, Sb, Ba, Be, Co, Mn, Tl, and V in 9/24/2020 CTDEEP letter.
(2) = Approved site-specific Alternative WQC for Cu, Ni in 10/9/2020 CTDEEP letter.
NV = no value established

BOLD	= Yellow highlight and bold font, result is greater than WQC-Salt-C
	= Green highlight indicates reporting limit for non-detect result is greater than WQC-Salt-C

J = estimated based on data validation
Validation includes both lab and validator qualifiers.
Lab results have been validated.

Table 4C
Transfer Act Program Groundwater Analytical Results for SWPC Zone Wells
Total Metals Last 4 Events, 2019-2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	AOC1-MW01				AOC1-MW02			
		Sample ID	AOC1-MW01-20190812	AOC1-MW01-20200630	AOC1-MW01-20200909	AOC1-MW01-20210624	AOC1-MW02-20190812	AOC1-MW02-20200630	AOC1-MW02-20200909	AOC1-MW02-20210624
		Sample Date	8/12/2019	6/30/2020	9/9/2020	6/24/2021	8/12/2019	6/30/2020	9/9/2020	6/24/2021
		Sample Purpose	N	N	N	N	N	N	N	N
Parameter	Units	SWPC	Result	Result	Result	Result	Result	Result	Result	Result
METALS, TOTAL										
Aluminum	µg/L	2000	< 2000	< 46	< 46	< 46	< 100	65.7 J	62.7 J	73.7 J
Arsenic	µg/L	10	< 36	< 28	< 28	< 28	< 10	8.7	**12.6**	**12.4**
Beryllium	µg/L	4	< 20	< 0.5	< 0.5	< 0.5	< 4	< 0.5	< 0.5	< 0.5
Cadmium	µg/L	6	< 20	< 1	< 1	< 1	< 6	< 1	1.1 J	< 1
Copper	µg/L	48	< 20	< 5.9	< 5.9	< 5.9	< 48	< 5.9	< 5.9	< 5.9
Iron	µg/L	NV	---	---	---	---	---	---	---	---
Lead	µg/L	13	< 20	< 18	< 18	< 18	< 13	< 1.8	< 1.8	< 1.8
Manganese	µg/L	930	---	---	---	---	---	---	---	---
Nickel	µg/L	880	< 20	< 17	< 1.7	< 1.7	< 50	56.1	460	51.5
Vanadium	µg/L	2600	< 20	3.4 J	< 1.8	< 1.8	< 10	< 1.8	< 1.8	< 1.8
Zinc	µg/L	7600	< 80	< 6.9	< 6.9	< 6.9	< 50	18 J	77.6	15.3 J
FIELD READINGS										
Dissolved Oxygen	mg/L	NV	5.59	0.62	0.55	0.19	2.18	3.91	3.31	4.42
Oxidation Reduction Potential	mV	NV	13.4	-10.7	8.2	7.7	211.9	205.3	141.7	129.1
pH	unit	NV	6.76	6.79	6.65	6.77	5.34	5.66	5.29	5.95
Specific Conductivity	uS/cm	NV	22630	37440	39950	36820	194	378	2049	524
Temperature	C	NV	14.53	12.82	16.1	15.27	16.14	14.17	15.63	14.8
Turbidity	NTU	NV	1	0.2	0	0	1.1	0.7	0	0

Table 4C
Transfer Act Program Groundwater Analytical Results for SWPC Zone Wells
Total Metals Last 4 Events, 2019-2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	AOC1-MW05	AOC1-MW05R			AOC1-MW06				
		Sample ID	AOC1-MW05-20190814	AOC1-MW05R-20200630	AOC1-MW05R-20200909	AOC1-MW05R-20210430	AOC1-MW06-20190814	AOC1-MW06-20200701	AOC1-MW06-20200909	AOC1-MW06-20210428	AOC1-MW06-20210805
		Sample Date	8/12/2019	6/30/2020	9/9/2020	4/30/2021	8/12/2019	7/1/2020	9/9/2020	4/28/2021	8/5/2021
		Sample Purpose	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**SWPC**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
METALS, TOTAL											
Aluminum	**µg/L**	**2000**	1200	1180	**8650**	478	1800	740	1720	**2130**	1030
Arsenic	**µg/L**	**10**	< 10	**15.1**	**105**	7	**43**	**20.7**	**131**	8.7	**15.7**
Beryllium	**µg/L**	**4**	< 4	< 0.5	1.9	0.9 J	3.8	1.5	0.5 J	1.9	1.8
Cadmium	**µg/L**	**6**	< 6	1 J	< 1	1.1 J	< 8.8	3.7	2.2 J	1 J	2.3 J
Copper	**µg/L**	**48**	< 48	9 J	21.4	< 5.9	**180**	**74.2**	31.3	**118**	**58.3**
Iron	**µg/L**	**NV**	---	---	---	310	---	---	---	432	2020
Lead	**µg/L**	**13**	< 13	< 3.6	**20.2**	< 1.8	< 8.1	< 1.8	< 1.8	< 1.8	< 9
Manganese	**µg/L**	**930**	---	---	---	---	---	---	---	67.5	104
Nickel	**µg/L**	**880**	180	197	94.4	159	230	328	112	52.6	61.2
Vanadium	**µg/L**	**2600**	< 50	26 J	49.5 J	12.6 J	< 20	3.2 J	20.9 J	< 1.8	< 1.8
Zinc	**µg/L**	**7600**	250	279	136	273	320	463	86.5	70.6 J	87.2
FIELD READINGS											
Dissolved Oxygen	**mg/L**	**NV**	1.33	2.66	1.59	1.22	0.53	1.62	1.27	1.65	0.62
Oxidation Reduction Potential	**mV**	**NV**	153.9	129.7	41.7	152.7	222.7	151.3	59.5	161.3	139.3
pH	**unit**	**NV**	6.17	5.9	6.2	5.81	4.7	4.6	5.53	4.76	4.44
Specific Conductivity	**uS/cm**	**NV**	1208	1061	1390	625	291	298	1013	163	235
Temperature	**C**	**NV**	16.79	16.42	16.73	13.04	15.87	16.38	14.24	11.17	15.23
Turbidity	**NTU**	**NV**	2.8	34.6	2.3	0	1.7	2.8	1.8	0.3	0

Table 4C
Transfer Act Program Groundwater Analytical Results for SWPC Zone Wells
Total Metals Last 4 Events, 2019-2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	AOC1-MW07					AOC1-MW08				
		Sample ID	AOC1-MW07-20190814	AOC1-MW07-20200702	AOC1-MW07-20200910	AOC1-MW07-20210625	AOC1-MW07-20210625_FD	AOC1-MW08-20190814	AOC1-MW08-20190814-FD	AOC1-MW08-20200702	AOC1-MW08-20200909	AOC1-MW08-20210429
		Sample Date	8/14/2019	7/2/2020	9/10/2020	6/25/2021	6/25/2021	8/14/2019	8/14/2019	7/2/2020	9/9/2020	4/29/2021
		Sample Purpose	N	N	N	N	FD	N	FD	N	N	N
Parameter	**Units**	**SWPC**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
METALS, TOTAL												
Aluminum	**µg/L**	**2000**	< 100	< 46	334	87.5 J	77.9 J	< 100	< 100	139 J	1660	469
Arsenic	**µg/L**	**10**	**16**	10	**55.7**	**27.1**	**24.1**	< 10	< 10	**13.7**	**28.5**	**14.1**
Beryllium	**µg/L**	**4**	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.73	< 0.73	< 0.5	< 0.5	< 0.5
Cadmium	**µg/L**	**6**	< 6	< 1	< 1	< 1	< 1	< 8.8	< 8.8	< 1	< 1	< 1
Copper	**µg/L**	**48**	< 48	< 5.9	< 5.9	< 5.9	< 5.9	< 3.1	< 3.1	< 1.9	5.4	6.4
Iron	**µg/L**	**NV**	---	---	---	---	---	---	---	---	---	590
Lead	**µg/L**	**13**	< 13	< 1.8	< 1.8	4.4	2.2 J	< 8.1	< 8.1	< 1.8	3.5	< 1.8
Manganese	**µg/L**	**930**	---	---	---	---	---	---	---	---	---	---
Nickel	**µg/L**	**880**	< 50	38.7	22.1	46.9	46.4	13	12	12.9	20.7	14.2
Vanadium	**µg/L**	**2600**	< 50	15.6 J	41.7 J	25.3 J	23.9 J	< 20	< 20	11.1 J	16.2 J	7 J
Zinc	**µg/L**	**7600**	< 50	19.4 J	9.5 J	23.9	22.6	< 81	< 81	23.8	28.7	25.2
FIELD READINGS												
Dissolved Oxygen	**mg/L**	**NV**	0.82	0.12	1.31	5.53	---	0.61	---	3.77	1.86	1.87
Oxidation Reduction Potential	**mV**	**NV**	127.2	84.1	50.7	73.5	---	201.4	---	154.1	13.5	156.6
pH	**unit**	**NV**	5.61	6.09	6.3	6.33	---	6.19	---	6.27	5.87	5.74
Specific Conductivity	**uS/cm**	**NV**	397	333	403	379	---	189	---	348	520	144
Temperature	**C**	**NV**	16.87	13.49	15.85	13.59	---	17.64	---	13.41	15.25	10.18
Turbidity	**NTU**	**NV**	2.1	4.7	0.7	0	---	< 0.01	---	1.3	3	1.2

Table 4C
Transfer Act Program Groundwater Analytical Results for SWPC Zone Wells
Total Metals Last 4 Events, 2019-2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	AOC1-MW16				AOC7-MW01-SB1			
		Sample ID	AOC1-MW16-20190814	AOC1-MW16-20200702	AOC1-MW16-20200909	AOC1-MW16-20210430	AOC7-MW01-SB1-20190813	AOC7-MW01-SB1-20200701	AOC7-MW01-SB1-20200908	AOC7-MW01-SB1-20210625
		Sample Date	8/14/2019	7/2/2020	9/9/2020	4/30/2021	8/13/2019	7/1/2020	9/8/2020	6/25/2021
		Sample Purpose	N	N	N	N	N	N	N	N
Parameter	Units	SWPC	Result	Result	Result	Result	Result	Result	Result	Result
METALS, TOTAL										
Aluminum	µg/L	2000	< 200	79 J	396	1010	150	231	123 J	300
Arsenic	µg/L	10	< 10	< 2.8	< 2.8	< 14	< 10	< 2.8	3.1	< 2.8
Beryllium	µg/L	4	< 4	< 0.5	< 0.5	< 2.5	< 4	< 0.5	< 0.5	< 0.5
Cadmium	µg/L	6	< 6	< 1	< 1	< 5	< 6	< 1	< 1	< 1
Copper	µg/L	48	< 48	31.8	18.9	< 30	< 48	< 5.9	< 5.9	< 5.9
Iron	µg/L	NV	---	---	---	2560	---	---	---	---
Lead	µg/L	13	< 13	< 1.8	12.8	< 9	< 13	< 1.8	< 1.8	< 1.8
Manganese	µg/L	930	---	---	---	---	---	---	---	---
Nickel	µg/L	880	< 50	26.2	34.3	13.5 J	< 50	7.2 J	11.5	11.8
Vanadium	µg/L	2600	< 50	2.5 J	11.1 J	< 9	< 50	< 1.8	< 1.8	< 1.8
Zinc	µg/L	7600	< 50	15.2 J	33.2	< 35	< 50	27.4	32.2	24.4
FIELD READINGS										
Dissolved Oxygen	mg/L	NV	2.42	2.97	1.15	4.31	1.3	1.43	0.78	22.37
Oxidation Reduction Potential	mV	NV	166.2	160.5	65.2	136.1	2.3	149.5	25.3	62.1
pH	unit	NV	5.88	6.42	6.02	6.45	6.58	5.91	5.82	6.19
Specific Conductivity	uS/cm	NV	4208	3272	6631	1712	1172	387	1789	833
Temperature	C	NV	17.32	14.82	17.57	12.08	16.25	14.89	18.41	15.62
Turbidity	NTU	NV	< 0.01	0.8	2.2	4	3.3	0.6	0.4	-1.4

Table 4C
Transfer Act Program Groundwater Analytical Results for SWPC Zone Wells
Total Metals Last 4 Events, 2019-2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	NH-14S								
		Sample ID	NH-14S-20190813	NH-14S-20200701	NH-14S-20200701-FD	NH-14S-20200908	NH-14S-20200908_FD	NH-14S-20210428	NH-14S-20210428-FD	NH-14S-20210805	NH-14S-20210805_FD
		Sample Date	8/13/2019	7/1/2020	7/1/2020	9/8/2020	9/8/2020	4/28/2021	4/28/2021	8/5/2021	8/5/2021
		Sample Purpose	N	N	FD	N	FD	N	FD	N	FD
Parameter	Units	SWPC	Result	Result	Result	Result	Result	Result	Result	Result	Result
METALS, TOTAL											
Aluminum	µg/L	2000	160000	150000	149000	127000	128000	133000	132000	83000	81400
Arsenic	µg/L	10	16	13.3	14.1	14.2 J	< 14	16.5	16.4	< 14	< 14
Beryllium	µg/L	4	30	28.2	28.3	29.9	29.9	23.8	23.4	15	14.6
Cadmium	µg/L	6	< 88	3.9 J	4.1 J	2.6 J	2.7 J	3.1	3.2	1.8 J	1.7 J
Copper	µg/L	48	160	132	131	74	75.1	419	424	251	248
Iron	µg/L	NV	---	---	---	---	---	60400	60400	68300	67600
Lead	µg/L	13	< 81	< 18	< 18	13.3 J	11.3 J	< 9	< 9	< 9	< 9
Manganese	µg/L	930	---	---	---	---	---	894	888	757	745
Nickel	µg/L	880	850	770	792	693	714	454	454	328	323
Vanadium	µg/L	2600	41	39.7 J	39.7 J	38.4 J	38 J	7.1 J	7.5 J	5.7 J	5.5 J
Zinc	µg/L	7600	800	603	577	633	636	325	320	262	259
FIELD READINGS											
Dissolved Oxygen	mg/L	NV	0.42	0.81	---	0.69	---	0.89	---	0.4	---
Oxidation Reduction Potential	mV	NV	301.2	209.7	---	302.3	---	350.4	---	305.2	---
pH	unit	NV	3.54	3.34	---	3.4	---	3.55	---	2.8	---
Specific Conductivity	uS/cm	NV	2230	2527	---	3225	---	1169	---	1501	---
Temperature	C	NV	14.46	14.43	---	14.96	---	11.26	---	16.1	---
Turbidity	NTU	NV	< 0.01	3.3	---	0.4	---	0.1	---	0	---

Table 4C
Transfer Act Program Groundwater Analytical Results for SWPC Zone Wells
Total Metals Last 4 Events, 2019-2021
Norwalk Power LLC, South Norwalk, Connecticut

Notes
N = Sample Purpose, Normal Field Sample
FD = Sample Purpose, Field Duplicate Sample
µg/L = micrograms per Liter
mg/L = milligrams per Liter
mV = millivolts
unit = standard pH units
uS/cm = micro-Siemens per centimeter
C = degrees Celsius
NTU = Nephelometric Turbidity Units
SWPC = Surface Water Protection Criteria
(1) = Approved Alternative and Additional SWPC for Al, As, V, Zn in 1/15/14 CTDEEP letter.
(2) = Additional SWPC for Ba, Co, Mn approved by CTDEEP on 9/26/2019 (expires 9/26/2027)
NV = no value established
--- = analyte not sampled

BOLD	= Yellow highlight and bold font, result is greater than applicable SWPC
	= Green highlight indicates reporting limit for non-detect result is greater than SWPC

J = estimated based on data validation
Validation includes both lab and validator qualifiers.
Lab results have been validated.

Table 4D
Transfer Act Program Groundwater Analytical Results for WQC Zone Wells
Total Metals Last 4 Events, 2019-2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	AOC1-MW06				AOC1-MW08				
		Sample ID	AOC1-MW06-20200701	AOC1-MW06-20200909	AOC1-MW06-20210428	AOC1-MW06-20210805	AOC1-MW08-20190814	AOC1-MW08-20190814-FD	AOC1-MW08-20200702	AOC1-MW08-20200909	AOC1-MW08-20210429
		Sample Date	7/1/2020	9/9/2020	4/28/2021	8/5/2021	8/14/2019	8/14/2019	7/2/2020	9/9/2020	4/29/2021
		Sample Purpose	N	N	N	N	N	FD	N	N	N
Parameter	Units	WQC-Salt-C	Result	Result	Result	Result	Result	Result	Result	Result	Result
METALS, TOTAL											
Aluminum	µg/L	87	740	1720	2130	1030	< 100	< 100	139 J	1660	469
Arsenic	µg/L	36	20.7	131	8.7	15.7	< 10	< 10	13.7	28.5	14.1
Beryllium	µg/L	11	1.5	0.5 J	1.9	1.8	< 0.73	< 0.73	< 0.5	< 0.5	< 0.5
Cadmium	µg/L	8.8	3.7	2.2 J	1 J	2.3 J	< 8.8	< 8.8	< 1	< 1	< 1
Copper	µg/L	3.1	74.2	31.3	118	58.3	< 3.1	< 3.1	< 1.9	5.4	6.4
Iron	µg/L	NV	---	---	432	2020	---	---	---	---	590
Lead	µg/L	8.1	< 1.8	< 1.8	< 1.8	< 9	< 8.1	< 8.1	< 1.8	3.5	< 1.8
Manganese	µg/L	93	---	---	67.5	104	---	---	---	---	---
Nickel	µg/L	8.2	328	112	52.6	61.2	13	12	12.9	20.7	14.2
Vanadium	µg/L	27	3.2 J	20.9 J	< 1.8	< 1.8	< 20	< 20	11.1 J	16.2 J	7 J
Zinc	µg/L	81	463	86.5	70.6 J	87.2	< 81	< 81	23.8	28.7	25.2
FIELD READINGS											
Dissolved Oxygen	mg/L	NV	1.62	1.27	1.65	0.62	0.61	---	3.77	1.86	1.87
Oxidation Reduction Potential	mV	NV	151.3	59.5	161.3	139.3	201.4	---	154.1	13.5	156.6
pH	unit	NV	4.6	5.53	4.76	4.44	6.19	---	6.27	5.87	5.74
Specific Conductivity	uS/cm	NV	298	1013	163	235	189	---	348	520	144
Temperature	C	NV	16.38	14.24	11.17	15.23	17.64	---	13.41	15.25	10.18
Turbidity	NTU	NV	2.8	1.8	0.3	0	< 0.01	---	1.3	3	1.2

Table 4D
Transfer Act Program Groundwater Analytical Results for WQC Zone Wells
Total Metals Last 4 Events, 2019-2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	AOC1-MW09				AOC1-MW10			
		Sample ID	AOC1-MW09-20190814	AOC1-MW09-20200702	AOC1-MW09-20200909	AOC1-MW09-20210429	AOC1-MW10-20190813	AOC1-MW10-20200630	AOC1-MW10-20200909	AOC1-MW10-20210429
		Sample Date	8/14/2019	7/2/2020	9/9/2020	4/29/2021	8/13/2019	6/30/2020	9/9/2020	4/29/2021
		Sample Purpose	N	N	N	N	N	N	N	N
Parameter	Units	WQC-Salt-C	Result	Result	Result	Result	Result	Result	Result	Result
METALS, TOTAL										
Aluminum	µg/L	87	170	1680	---	137 J	110	296	86.3 J	101 J
Arsenic	µg/L	36	21	28.9	---	8.7	98	106	88.8	96.2
Beryllium	µg/L	11	< 0.73	< 0.5	---	< 0.5	< 0.73	< 0.5	< 0.5	< 0.5
Cadmium	µg/L	8.8	< 8.8	< 1	---	< 1	< 8.8	< 1	< 1	< 1
Copper	µg/L	3.1	4.5	8.3	---	< 1.9	< 3.1	< 1.9	< 1.9	< 1.9
Iron	µg/L	NV	---	---	---	251	---	---	---	11200
Lead	µg/L	8.1	< 8.1	5	---	< 1.8	28	< 1.8	< 1.8	< 1.8
Manganese	µg/L	93	---	---	---	---	---	---	---	---
Nickel	µg/L	8.2	13	9.8 J	---	7.9 J	< 8.2	3 J	< 1.7	17.8
Vanadium	µg/L	27	< 20	16.7 J	---	10 J	< 20	10.1 J	6.6 J	7.5 J
Zinc	µg/L	81	< 81	36.4	---	12.4 J	< 80	11.1 J J	< 6.9	7.5 J
FIELD READINGS										
Dissolved Oxygen	mg/L	NV	5.41	0.41	1.1	1.72	1.07	5.13	1.01	0.88
Oxidation Reduction Potential	mV	NV	104	95.9	44.4	161.6	-17.1	-19.7	-47.8	-63.7
pH	unit	NV	5.95	5.89	6	5.87	6.52	6.67	6.35	6.31
Specific Conductivity	uS/cm	NV	520	254	510	126	701	760	946	531
Temperature	C	NV	15.69	15.88	16.22	9.73	14.65	15.17	16.13	10.3
Turbidity	NTU	NV	1.7	4.8	407.7	2.8	2	9.4	0	0.5

Table 4D
Transfer Act Program Groundwater Analytical Results for WQC Zone Wells
Total Metals Last 4 Events, 2019-2021
Norwalk Power LLC, South Norwalk, Connecticut

	Location Code		AOC1-MW11				AOC1-MW12				AOC1-MW13			
	Sample ID		AOC1-MW11-20190813	AOC1-MW11-20200701	AOC1-MW11-20200908	AOC1-MW11-20210625	AOC1-MW12-20190813	AOC1-MW12-20200701	AOC1-MW12-20200908	AOC1-MW12-20210625	AOC1-MW13-20190813	AOC1-MW13-20200701	AOC1-MW13-20200908	AOC1-MW13-20210624
	Sample Date		8/13/2019	7/1/2020	9/8/2020	6/25/2021	8/13/2019	7/1/2020	9/8/2020	6/25/2021	8/13/2019	7/1/2020	9/8/2020	6/24/2021
	Sample Purpose		N	N	N	N	N	N	N	N	N	N	N	N
Parameter	Units	WQC-Salt-C	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
METALS, TOTAL														
Aluminum	µg/L	87	< 2000	< 46	< 46	49.8 J	< 100	48.6 J	< 46	57.9 J	< 2000	**174 J**	**121 J**	**139 J**
Arsenic	µg/L	36	< 36	< 14	< 28	< 28	< 10	< 2.8	< 2.8	< 2.8	< 36	< 2.8	< 14	< 2.8
Beryllium	µg/L	11	< 20	< 0.5	< 0.5	< 0.5	< 0.73	< 0.5	< 0.5	0.8 J	< 20	< 0.5	< 0.5	< 0.5
Cadmium	µg/L	8.8	< 20	< 1	< 1	1.1 J	< 8.8	< 1	< 1	1.4 J	< 20	< 1	< 1	< 1
Copper	µg/L	3.1	**31**	**24.9**	**30.8**	**21.7 J**	< 3.1	< 1.9	< 4.7	< 1.9	< 20	< 9.4	< 9.4	< 9.4
Iron	µg/L	NV	---	---	---	---	---	---	---	---	---	---	---	---
Lead	µg/L	8.1	< 20	< 9	< 18	< 18	< 8.1	< 1.8	< 9	1.9 J	< 20	< 9	< 9	< 1.8
Manganese	µg/L	93	---	---	---	---	---	---	---	---	---	---	---	---
Nickel	µg/L	8.2	**99**	**105**	**87.7 J**	**94.7**	**21**	**16.1**	**54.9**	**15**	< 20	8.1 J	5.3 J	4.1 J
Vanadium	µg/L	27	< 80	14 J	15.3 J J	9.3 J	< 20	< 1.8	< 1.8	< 1.8	< 80	4.9 J	4.9 J	4.4 J
Zinc	µg/L	81	**210**	**221**	**255 J**	**185**	< 81	< 6.9	10.7 J	8 J	< 80	35.3	22	11.4 J
FIELD READINGS														
Dissolved Oxygen	mg/L	NV	12.39	0.96	1.09	0.68	32.61	2.45	0.75	0.45	1.78	3.1	0.6	1.14
Oxidation Reduction Potential	mV	NV	79	99.8	46.4	126.1	66	53.7	46.3	106.1	139.2	133.3	81.3	127.3
pH	unit	NV	6.28	6.14	5.8	6.08	6.26	6.23	5.59	6.25	6.38	6.14	6.3	6.59
Specific Conductivity	uS/cm	NV	26470	31690	38910	26730	2954	2980	8393	3120	14200	15480	15710	9991
Temperature	C	NV	21.52	17.03	23.3	18.25	18.41	15.18	21.4	15.64	20.73	19.25	21.07	17.33
Turbidity	NTU	NV	3.2	0.7	0.7	0.7	< 0.01	0.3	1	0.4	5.8	4.6	0.8	0

Table 4D
Transfer Act Program Groundwater Analytical Results for WQC Zone Wells
Total Metals Last 4 Events, 2019-2021
Norwalk Power LLC, South Norwalk, Connecticut

	Location Code		AOC1-MW14				AOC1-MW15				AOC1-MW17			
	Sample ID		AOC1-MW14-20190813	AOC1-MW14-20200701	AOC1-MW14-20200908	AOC1-MW14-20210624	AOC1-MW15-20190813	AOC1-MW15-20200630	AOC1-MW15-20200910	AOC1-MW15-20210429	AOC1-MW17-20190812	AOC1-MW17-20200701	AOC1-MW17-20200910	AOC1-MW17-20210624
	Sample Date		8/13/2019	7/1/2020	9/8/2020	6/24/2021	8/13/2019	6/30/2020	9/10/2020	4/29/2021	8/12/2019	7/1/2020	9/10/2020	6/24/2021
	Sample Purpose		N	N	N	N	N	N	N	N	N	N	N	N
Parameter	Units	WQC-Salt-C	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
METALS, TOTAL														
Aluminum	µg/L	87	< 2000	< 46	**433**	**104 J**	**4100**	**4160**	**1890**	**3780**	< 2000	**127 J**	**250**	**127 J**
Arsenic	µg/L	36	< 36	< 2.8	< 14	< 28	< 10	5.3	3.1	< 14	< 36	< 28	< 14	< 2.8
Beryllium	µg/L	11	< 20	< 0.5	< 0.5	< 0.5	< 0.73	< 0.5	< 0.5	< 2.5	< 20	< 0.5	< 0.5	< 0.5
Cadmium	µg/L	8.8	< 20	< 1	< 5	< 1	< 8.8	< 1	< 1	< 5	< 20	< 10	< 5	< 1
Copper	µg/L	3.1	< 20	< 9.4	< 9.4	< 19	**28**	**18.8**	**15.1**	3 J	< 20	< 9.4	< 9.4	< 47
Iron	µg/L	NV	---	---	---	---	---	---	---	3350	---	---	---	---
Lead	µg/L	8.1	< 20	< 9	**10.4 J**	< 18	**13**	5.7	3.2	< 9	< 20	< 18	< 9	< 18
Manganese	µg/L	93	---	---	---	---	---	---	---	---	---	---	---	---
Nickel	µg/L	8.2	< 20	2.3 J	< 8.5	< 1.7	**44**	**30**	**29.6**	**29.5 J**	< 20	< 17	< 8.5	< 1.7
Vanadium	µg/L	27	< 80	2.8 J	< 9	< 1.8	**46**	**32.4 J**	20 J	**31 J**	< 400	2.9 J	< 9	< 1.8
Zinc	µg/L	81	< 80	< 6.9	< 35	< 6.9	< 81	19.6 J	7.6 J	< 35	< 80	< 69	< 35	< 6.9
FIELD READINGS														
Dissolved Oxygen	mg/L	NV	2.35	4.14	1.62	2.24	0.46	0.94	1.02	0.93	3.22	5.4	1.86	1.33
Oxidation Reduction Potential	mV	NV	200.2	150.8	120.2	170.8	137.5	143.9	105.2	97	140.1	149.2	89.8	179.2
pH	unit	NV	6.2	6.35	6.06	6.42	6.15	6.26	5.91	6.25	6.69	6.73	6.52	6.84
Specific Conductivity	uS/cm	NV	24080	20530	30410	15540	179	207	308	142	22760	38140	41950	30810
Temperature	C	NV	24.81	19.1	24.35	19.37	16.67	13.87	17.95	9.94	25.99	19.92	23.28	18.87
Turbidity	NTU	NV	< 0.01	0	0.7	0	66.8	0.3	0.4	33.3	< 0.01	0.3	1.8	0.8

Table 4D
Transfer Act Program Groundwater Analytical Results for WQC Zone Wells
Total Metals Last 4 Events, 2019-2021
Norwalk Power LLC, South Norwalk, Connecticut

	Location Code		NH-14S							
	Sample ID		NH-14S-20200701	NH-14S-20200701-FD	NH-14S-20200908	NH-14S-20200908_FD	NH-14S-20210428	NH-14S-20210428-FD	NH-14S-20210805	NH-14S-20210805_FD
	Sample Date		7/1/2020	7/1/2020	9/8/2020	9/8/2020	4/28/2021	4/28/2021	8/5/2021	8/5/2021
	Sample Purpose		N	FD	N	FD	N	FD	N	FD
Parameter	Units	WQC-Salt-C	Result	Result	Result	Result	Result	Result	Result	Result
METALS, TOTAL										
Aluminum	µg/L	87	150000	149000	127000	128000	133000	132000	83000	81400
Arsenic	µg/L	36	13.3	14.1	14.2 J	< 14	16.5	16.4	< 14	< 14
Beryllium	µg/L	11	28.2	28.3	29.9	29.9	23.8	23.4	15	14.6
Cadmium	µg/L	8.8	3.9 J	4.1 J	2.6 J	2.7 J	3.1	3.2	1.8 J	1.7 J
Copper	µg/L	3.1	132	131	74	75.1	419	424	251	248
Iron	µg/L	NV	---	---	---	---	60400	60400	68300	67600
Lead	µg/L	8.1	< 18	< 18	13.3 J	11.3 J	< 9	< 9	< 9	< 9
Manganese	µg/L	93	---	---	---	---	894	888	757	745
Nickel	µg/L	8.2	770	792	693	714	454	454	328	323
Vanadium	µg/L	27	39.7 J	39.7 J	38.4 J	38 J	7.1 J	7.5 J	5.7 J	5.5 J
Zinc	µg/L	81	603	577	633	636	325	320	262	259
FIELD READINGS										
Dissolved Oxygen	mg/L	NV	0.81	---	0.69	---	0.89	---	0.4	---
Oxidation Reduction Potential	mV	NV	209.7	---	302.3	---	350.4	---	305.2	---
pH	unit	NV	3.34	---	3.4	---	3.55	---	2.8	---
Specific Conductivity	uS/cm	NV	2527	---	3225	---	1169	---	1501	---
Temperature	C	NV	14.43	---	14.96	---	11.26	---	16.1	---
Turbidity	NTU	NV	3.3	---	0.4	---	0.1	---	0	---

Table 4D
Transfer Act Program Groundwater Analytical Results for WQC Zone Wells
Total Metals Last 4 Events, 2019-2021
Norwalk Power LLC, South Norwalk, Connecticut

Notes:
N = Sample Purpose, Normal Field Sample
FD = Sample Purpose, Field Duplicate Sample
µg/L = micrograms per Liter
mg/L = milligrams per Liter
mV = millivolts
unit = standard pH units
uS/cm = micro-Siemens per centimeter
C = degrees Celsius
NTU = Nephelometric Turbidity Units
WQC-Salt-C = Numerical Water Quality Criteria for Chemical Constituents, Saltwater, Chronic
(1) = Approved site-specific Alternative WQC for Al, Sb, Ba, Be, Co, Mn, Tl, and V in 9/24/2020 CTDEEP letter
(2) = Approved site-specific Alternative WQC for Cu, Ni in 10/9/2020 CTDEEP letter.
NV = no value established
--- = analyte not sampled

BOLD	= Yellow highlight and bold font, result is greater than WQC-Salt-C
	= Green highlight indicates reporting limit for non-detect result is greater than WQC-Salt-C

B = Analyte less than reporting limit (RL), but greater than Instrument Detection Limit
J = estimated based on data validation
Validation includes both lab and validator qualifiers.
Lab results have been validated.

Table 5
Bench Test and Modified MEP Groundwater Analytical Results
April and August 2021
Norwalk Power LLC, South Norwalk, Connecticut

			Location Code	AOC1-MW06		NH-14S			
			Sample ID	AOC1-MW06-20210428	AOC1-MW06-20210805	NH-14S-20210428	NH-14S-20210428-FD	NH-14S-20210805	NH-14S-20210805_FD
			Sample Date	4/28/2021	8/5/2021	4/28/2021	4/28/2021	8/5/2021	8/5/2021
			Sample Purpose	N	N	N	FD	N	FD
Parameter	Units	SWPC	WQC-SALT-C	Result	Result	Result	Result	Result	Result
METALS									
Aluminum	µg/L	2000	87	2130	1030	133000	132000	83000	81400
Arsenic	µg/L	10	36	8.7	15.7	16.5	16.4	< 14	< 14
Beryllium	µg/L	4	11	1.9	1.8	23.8	23.4	15	14.6
Cadmium	µg/L	6	8.8	1 J	2.3 J	3.1	3.2	1.8 J	1.7 J
Copper	µg/L	48	3.1	118	58.3	419	424	251	248
Iron	µg/L	NV	NV	432	2020	60400	60400	68300	67600
Lead	µg/L	13	8.1	< 1.8	< 9	< 9	< 9	< 9	< 9
Manganese	µg/L	930	93	67.5	104	894	888	757	745
Nickel	µg/L	880	8.2	52.6	61.2	454	454	328	323
Vanadium	µg/L	2600	27	< 1.8	< 1.8	7.1 J	7.5 J	5.7 J	5.5 J
Zinc	µg/L	7600	81	70.6 J	87.2	325	320	262	259
METALS, DISSOLVED									
Aluminum	µg/L	2000	87	1960	634	132000	128000	81100	---
Arsenic	µg/L	10	36	< 2.8	11	< 14	15.7	14.3 J	---
Beryllium	µg/L	4	11	2	1.4	23.6	22.8	14.6	---
Cadmium	µg/L	6	8.8	1.1 J	2 J	3	3	1.8 J	---
Copper	µg/L	48	3.1	115	45.7	430	419	250	---
Iron	µg/L	NV	NV	254	1980	59000	56200	66400	---
Lead	µg/L	13	8.1	< 1.8	< 1.8	< 9	< 9	< 9	---
Manganese	µg/L	930	93	68.2	102	886	856	735	---
Nickel	µg/L	880	8.2	52.1	58.8	451	432	322	---
Vanadium	µg/L	2600	27	< 1.8	< 1.8	6.4 J	5.8 J	5.4 J	---
Zinc	µg/L	7600	81	70	74.3	319	307	257	---
GEN CHEMISTRY									
Nitrate	mg/L	NV	NV	< 0.093	< 0.093	< 0.093	---	0.11	---
Nitrate plus Nitrite as N	mg/L	NV	NV	< 0.09 J	< 0.09	< 0.09	---	0.11	---
Nitrite	mg/L	NV	NV	0.0055 J	< 0.003	0.0063 J	---	< 0.003	---
pH	unit	NV	NV	4.4 J	4.34 J	3.37 J	---	4.19 J	---
Redox Potential vs H2	mV	NV	NV	543 J	461 J	599 J	---	655 J	---
Sulfate	mg/L	NV	NV	109	98.7	1540	---	1360	---
FIELD READINGS									
Dissolved Oxygen	mg/L	NV	NV	1.65	0.62	0.89	---	0.4	---
Oxidation Reduction Potential	mV	NV	NV	161.3	139.3	350.4	---	305.2	---
pH	unit	NV	NV	4.76	4.44	3.55	---	2.8	---
Specific Conductivity	uS/cm	NV	NV	163	235	1169	---	1501	---
Temperature	C	NV	NV	11.17	15.23	11.26	---	16.1	---
Turbidity	NTU	NV	NV	0.3	0	0.1	---	0	---

Table 5
Bench Test and Modified MEP Groundwater Analytical Results
April and August 2021
Norwalk Power LLC, South Norwalk, Connecticut

Notes:
N = Sample Purpose, Normal Field Sample
FD = Sample Purpose, Field Duplicate Sample
µg/L = micrograms per Liter
mg/L = milligrams per Liter
mV = millivolts
unit = standard pH units
uS/cm = micro-Siemens per centimeter
C = degrees Celsius
NTU = Nephelometric Turbidity Units
--- = parameter not anayzed for
J = estimated based on data validation
SWPC = Surface Water Protection Criteria
WQC-Salt-C = Numerical Water Quality Criteria for Chemical Constituents, Saltwater, Chronic
(1) = Approved Alternative and Additional SWPC for Al, As, V, Zn in 1/15/14 CTDEEP letter.
(2) = Additional SWPC for Ba, Co, Mn approved by CTDEEP on 9/26/2019 (expires 9/26/2027).
NV = no value established

BOLD	= Result is greater than applicable SWPC
	= Result is greater than applicable WQC-Salt-C
	= Green highlight indicates reporting limit for non-detect result is greater than SWPC or WQC-Salt-C

Lab results have been validated.

Table 6
Bench Test Soil Analytical Results April 2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	BSTS-AOC1-MW6	BSTS-NH-14S
		Sample ID	MW-06(5-9)-20210427	NH-14S(5-7)-20210427
		Sample Date	4/27/2021	4/27/2021
		Depth	5 - 9	5 - 7
		Sample Purpose	N	N
Parameter	**Units**	**CT_I/CDEC**	**Result**	**Result**
GEN CHEMISTRY				
Percent Solids	**Percent**	**NV**	67.5	65.5
METALS				
Aluminum	**mg/kg**	**50000**	12300	10200
Arsenic	**mg/kg**	**10**	**123**	**139**
Beryllium	**mg/kg**	**2**	**2.8**	1.9
Cadmium	**mg/kg**	**1000**	0.5 J	0.54 J
Copper	**mg/kg**	**76000**	40.2	45.2
Iron	**mg/kg**	**NV**	51100	24500
Lead	**mg/kg**	**1000**	17.8	18.8
Manganese	**mg/kg**	**NV**	48.6	18.8
Nickel	**mg/kg**	**7500**	33.4	17.8
Vanadium	**mg/kg**	**14000**	60.4	46
Zinc	**mg/kg**	**610000**	46.4	24

Notes:
N = Sample Purpose, Normal Field Sample
CT_I/CDEC = State of Connecticut Industrial/Commercial Direct Exposure Criteria
NV = no value established
mg/kg - milligrams per kilogram
BOLD = Yellow highlight and bold font, result is greater than CT_I/CDEC
J = estimated based on data validation
Validation includes both lab and validator qualifiers.
Lab results have been validated.

Table 7A
RCRA Program Groundwater Analytical Results for SWPC Zone Wells
Total Metals Detections Greater Than Applicable SWPC
September 2020 – August 2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	NH-02S		NH-03S	NH-05S	NH-10S	NH-13S
		Sample ID	NH-02S-20210623	NH-02S-20210623_FD	NH-03S-20210623	NH-05S-20210623	NH-10S-20210623	NH-13S-20210623
		Sample Date	6/23/2021	6/23/2021	6/23/2021	6/23/2021	6/23/2021	6/23/2021
		Sample Purpose	N	FD	N	N	N	N
Parameter	**Units**	**SWPC**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
METALS								
Manganese	**µg/L**	**930**	**1230**	**1090**	349	250	106	20.7
FIELD READINGS								
Dissolved Oxygen	**mg/L**	**NV**	0.32	---	0.81	2.37	1.17	2.72
Oxidation Reduction Potential	**mV**	**NV**	153.6	---	204.2	375.3	250.1	228.1
pH	**unit**	**NV**	5.04	---	6.09	4.42	5.6	6.08
Specific Conductivity	**uS/cm**	**NV**	1175	---	257	287	203	212
Temperature	**C**	**NV**	14.74	---	14.29	15.18	16.36	15.41
Turbidity	**NTU**	**NV**	0	---	0.3	0	0	0

Notes:
N = Sample Purpose, Normal Field Sample
FD = Sample Purpose, Field Duplicate Sample
µg/L = micrograms per Liter
mg/L = milligrams per Liter
mV = millivolts
unit = standard pH units
uS/cm = micro-Siemens per centimeter
C = degrees Celsius
NTU = Nephelometric Turbidity Units
--- = parameter not anayzed for
SWPC = Surface Water Protection Criteria
(1) = Approved Alternative and Additional SWPC for Al, As, V, Zn in 1/15/14 CTDEEP letter.
(2) = Additional SWPC for Ba, Co, Mn approved by CTDEEP on 9/26/2019 (expires 9/26/2027).
NV = no value established
BOLD = Result is greater than applicable SWPC
Lab results have been validated.

Table 7B
RCRA Program Groundwater Analytical Results for WQC Zone Wells
Total Metals Detections Greater Than WQC
September 2020 – August 2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	NH-03S	NH-05S	NH-08S	NH-10S	NH-13S
		Sample ID	NH-03S-20210623	NH-05S-20210623	NH-08S-20210624	NH-10S-20210623	NH-13S-20210623
		Sample Date	6/23/2021	6/23/2021	6/24/2021	6/23/2021	6/23/2021
		Sample Purpose	N	N	N	N	N
Parameter	**Units**	**WQC-Salt-C**	**Result**	**Result**	**Result**	**Result**	**Result**
METALS, TOTAL							
Aluminum	**µg/L**	**87**	**125 J**	**1520**	**3500**	< 77	< 77
Cobalt	**µg/L**	**24**	**54.6**	5.3 J	9.5 J	5.7 J	6.9 J
Copper	**µg/L**	**3.1**	< 2.1	**10**	< 21	< 2.1	< 2.1
Manganese	**µg/L**	**93**	**349**	**250**	**291**	**106**	20.7
Nickel	**µg/L**	**8.2**	**196**	**34.1**	**36.4**	**8.9 J**	**83.4**
Zinc	**µg/L**	**81**	**208**	28.8	43.5	42.7	**129**
FIELD READINGS							
Dissolved Oxygen	**mg/L**	**NV**	0.81	2.37	0.18	1.17	2.72
Oxidation Reduction Potential	**mV**	**NV**	204.2	375.3	53.5	250.1	228.1
pH	**unit**	**NV**	6.09	4.42	5.87	5.6	6.08
Specific Conductivity	**uS/cm**	**NV**	257	287	19960	203	212
Temperature	**C**	**NV**	14.29	15.18	16.3	16.36	15.41
Turbidity	**NTU**	**NV**	0.3	0	0	0	0

Notes:

N = Sample Purpose, Normal Field Sample
µg/L = micrograms per Liter
mg/L = milligrams per Liter
mV = millivolts
unit = standard pH units
uS/cm = micro-Siemens per centimeter
C = degrees Celsius
NTU = Nephelometric Turbidity Units

WQC-Salt-C = Numerical Water Quality Criteria for Chemical Constituents, Saltwater, Chronic
(1) = Approved site-specific Alternative WQC for Al, Sb, Ba, Be, Co, Mn, Tl, and V in 9/24/2020 CTDEEP letter.
(2) = Approved site-specific Alternative WQC for Cu, Ni in 10/9/2020 CTDEEP letter.
NV = no value established
BOLD = Yellow highlight and bold font, result is greater than WQC-Salt-C
= Green highlight indicates reporting limit for non-detect result is greater than WQC-Salt-C
J = estimated based on data validation
Validation includes both lab and validator qualifiers.
Lab results have been validated.

Table 7C
RCRA Program Groundwater Analytical Results for SWPC Zone Wells
Total Metals Last 4 Events, 2018 - 2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	NH-02S					NH-03S			
		Sample ID	NH-02S-20180426	NH-02S-20190409	NH-02S-20200701	NH-02S-20210623	NH-02S-20210623_FD	NH-03S-20180425	NH-03S-20190409	NH-03S-20200629	NH-03S-20210623
		Sample Date	4/26/2018	4/9/2019	7/1/2020	6/23/2021	6/23/2021	4/25/2018	4/9/2019	6/29/2020	6/23/2021
		Sample Purpose	N	N	N	N	FD	N	N	N	N
Parameter	Units	SWPC	Result	Result	Result	Result	Result	Result	Result	Result	Result
METALS, TOTAL											
Aluminum	µg/L	2000	8540	2780	494	397	369	< 200 U	131 B J	116 B J	125 J
Antimony	µg/L	86000	< 1.2	< 0.88	< 4.1	< 4.1	< 4.1	4.7	3.9	4.3 B J	< 4.1
Arsenic	µg/L	10	5	2.5	22.3	7.4	6.5	13.4	3.8	4.4	8
Barium	µg/L	2200	17.4 B J	< 17	< 17	< 17	< 17	48.3 B J	41.8 B J	40.9 B J	43.8 J
Beryllium	µg/L	4	3.6	1.4	0.5 B J	1.2	0.8 J	0.5 B J	< 0.5	< 0.5	< 0.5
Cadmium	µg/L	6	1.6 B J	< 1.2	< 1.2	< 1.2	< 1.2	1 B J	< 1.2	< 1.2	< 1.2
Chromium	µg/L	110	< 1.6	< 1.5	< 1.5	< 1.5	< 1.5	< 1.6	< 1.5	< 1.5	< 1.5
Cobalt	µg/L	240	24.6 B J	8.5 B J	7.6 B J	10.5 J	9.2 J	52.7	58.5	60.6	54.6
Copper	µg/L	48	17.9	11.8	< 2.1	< 2.1	< 2.1	< 6.5	< 4.1	< 2.1	< 2.1
Iron	µg/L	NV	26000	124000	97300	119000	106000	809	108	111	297
Lead	µg/L	13	< 2.6	< 7.2	< 2.4	< 12	< 12	< 2.6	< 2.4	< 2.4	< 2.4
Manganese	µg/L	930	552	1170	1180	1230	1090	412	417	423	349
Mercury	µg/L	0.4	< 0.11	< 0.092	< 0.2	< 0.092	< 0.092	< 0.11	< 0.092	< 0.2	< 0.092
Nickel	µg/L	880	42.6	42.5	46	68.3	61.5	173	227	207	196
Selenium	µg/L	50	1	1.3	< 5.5	< 5.5	< 5.5	9	9.5	13.6	11.8
Silver	µg/L	12	< 3	< 2.4	< 2	< 0.067	< 0.067	< 3	< 2.4	< 0.067	< 0.067
Sodium	µg/L	NV	28500	65000	69900	69100	66600	12500	12000	11400	11000
Thallium	µg/L	63	1.2	0.89	3.6 B J	9.7 J	8.9 J	2.4	2	4.4 B J	10.5
Vanadium	µg/L	2600	1.8 B J	< 2.3	4.3 B J	< 2.3	< 2.3	18.9 B J	11 B J	12.4 B J	13.2 J
Zinc	µg/L	7600	124	333 J	236	333	294	219	244 J	216	208
FIELD READINGS											
Dissolved Oxygen	mg/L	NV	1.86	1.58	1.77	0.32	---	1.11	1.28	1.67	0.81
Oxidation Reduction Potential	mV	NV	259.1	206.8	130.3	153.6	---	111.7	227.5	50.3	204.2
pH	unit	NV	3.95	4.24	5.03	5.04	---	5.98	5.85	5.97	6.09
Specific Conductivity	uS/cm	NV	503	1171	1090	1175	---	203	283	266	257
Temperature	C	NV	13.83	11.85	16.3	14.74	---	9.86	7.47	14.89	14.29
Turbidity	NTU	NV	3.6	3.1	0.9	0	---	4.6	1.7	0.8	0.3

Table 7C
RCRA Program Groundwater Analytical Results for SWPC Zone Wells
Total Metals Last 4 Events, 2018 - 2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	NH-05S				NH-10S			
		Sample ID	NH-05S-20180426	NH-05S-20190409	NH-05S-20200629	NH-05S-20210623	NH-10S-20180426	NH-10S-20190409	NH-10S-20200629	NH-10S-20210623
		Sample Date	4/26/2018	4/9/2019	6/29/2020	6/23/2021	4/26/2018	4/9/2019	6/29/2020	6/23/2021
		Sample Purpose	N	N	N	N	N	N	N	N
Parameter	Units	SWPC	Result	Result	Result	Result	Result	Result	Result	Result
METALS, TOTAL										
Aluminum	µg/L	2000	1990	3390	2340	1520	< 200 B U	101 B J	< 77	< 77
Antimony	µg/L	86000	< 1.2	< 0.88	< 4.1	< 4.1	< 1.2	< 0.88	< 4.1	< 4.1
Arsenic	µg/L	10	9.4	3.9	8.8	4.6	< 1 B U	0.49 B J	3.5	3.1
Barium	µg/L	2200	27.4 B J	19.7 B J	23 B J	22.1 J	19.8 B J	23 B J	29.3 B J	35.3 J
Beryllium	µg/L	4	1.7	2	1.5	1.2	< 0.31	< 0.5	< 0.5	< 0.5
Cadmium	µg/L	6	< 0.69	< 1.2	< 1.2	< 1.2	< 0.69	< 1.2	< 1.2	< 1.2
Chromium	µg/L	110	< 1.6	< 1.5	< 1.5	< 1.5	< 1.6	< 1.5	< 1.5	< 1.5
Cobalt	µg/L	240	6.5 B J	4.4 B J	5.4 B J	5.3 J	1.7 B J	3.8 B J	3.5 B J	5.7 J
Copper	µg/L	48	19.9	18.7	12.6	10	< 6.5	4.5 B J	2.3 B J	< 2.1
Iron	µg/L	NV	1770	3420	2010	982	956	706	759	1110
Lead	µg/L	13	< 2.6	2.6 B J	< 2.4	< 2.4	< 2.6	< 2.4	< 2.4	< 2.4
Manganese	µg/L	930	229	326	277	250	31.7	59.3	122	106
Mercury	µg/L	0.4	< 0.11	< 0.092	< 0.2	< 0.092	< 0.11	< 0.092	< 0.2	< 0.092
Nickel	µg/L	880	63.8	33.1	28.4	34.1	5.2 B J	9 B J	5.1 B J	8.9 J
Selenium	µg/L	50	4.3	2.8	< 5.5	< 5.5	3.8	2.7	< 5.5	< 5.5
Silver	µg/L	12	< 3	< 2.4	< 2	< 0.067	< 3	< 2.4	< 0.067	< 0.067
Sodium	µg/L	NV	5830 B J	6910 B J	6760 B J	6710 J	54200	27000	17000	17300
Thallium	µg/L	63	1.2	1.1	3.4 B J	8.7 J	2.9	2.3	4.5 B J	6.5 J
Vanadium	µg/L	2600	1 B J	< 2.3	< 2.3	< 2.3	4.2 B J	3.4 B J	6.1 B J	7.6 J
Zinc	µg/L	7600	48.4	34.1 J	25	28.8	20.1	31.9 J	27.7	42.7
FIELD READINGS										
Dissolved Oxygen	mg/L	NV	6.84	3.13	2.25	2.37	2.17	4.68	1.67	1.17
Oxidation Reduction Potential	mV	NV	162.7	365.9	318.8	375.3	130.5	107.3	197.6	250.1
pH	unit	NV	4.62	3.99	4.4	4.42	5.88	5.55	5.39	5.6
Specific Conductivity	uS/cm	NV	225	358	285	287	262	231	202	203
Temperature	C	NV	19.28	8.91	15.31	15.18	12.54	8.65	14.03	16.36
Turbidity	NTU	NV	4	1.7	0	0	4.7	1.9	0.2	0

Table 7C
RCRA Program Groundwater Analytical Results for SWPC Zone Wells
Total Metals Last 4 Events, 2018 - 2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	NH-13S					
		Sample ID	NH-13S-20180426	NH-13S-20180426FD	NH-13S-20190409	NH-13S-20190409FD	NH-13S-20200629	NH-13S-20210623
		Sample Date	4/26/2018	4/26/2018	4/9/2019	4/9/2019	6/29/2020	6/23/2021
		Sample Purpose	N	FD	N	FD	N	N
Parameter	Units	SWPC	Result	Result	Result	Result	Result	Result
METALS, TOTAL								
Aluminum	µg/L	2000	< 200 U	< 200 U	407	374	564	< 77
Antimony	µg/L	86000	< 1.2	< 1.2	< 0.88	< 0.88	< 4.1	< 4.1
Arsenic	µg/L	10	< 1 U	< 1 U	0.79 B J	0.71 B J	6.1	4.7
Barium	µg/L	2200	44.5 B J	44.1 B J	39.2 B J	38.3 B J	54 B J	47.7 J
Beryllium	µg/L	4	1.1	1.1	0.8 B J	0.8 B J	< 0.5	< 0.5
Cadmium	µg/L	6	0.9 B J	< 0.69	< 1.2	< 1.2	< 1.2	< 1.2
Chromium	µg/L	110	< 1.6	< 1.6	< 1.5	< 1.5	< 1.5	< 1.5
Cobalt	µg/L	240	10.9 B J	10.9 B J	6.3 B J	6.4 B J	10.8 B J	6.9 J
Copper	µg/L	48	< 6.5	< 6.5	4.2 B J	4.4 B J	< 4	< 2.1
Iron	µg/L	NV	241	305	76.3 B J	53.7 B J	502	127
Lead	µg/L	13	< 2.6	< 2.6	< 2.4	< 2.4	< 2.4	2.7 J
Manganese	µg/L	930	31.2	31.4	39.9	42.3	76.2	20.7
Mercury	µg/L	0.4	< 0.11	< 0.11	< 0.092	0.11 B J	< 0.2	< 0.092
Nickel	µg/L	880	63.8	64	32.8	35.1	99	83.4
Selenium	µg/L	50	3.2	3.4	3.1	3.1	21.1	13.2
Silver	µg/L	12	< 3	< 3	< 2.4	< 2.4	< 2	< 0.067
Sodium	µg/L	NV	< 10000 B U	< 10000 B U	3050 B J	3010 B J	12000	5570 J
Thallium	µg/L	63	1.2	1.3	0.97	0.99	5 B J	6.3 J
Vanadium	µg/L	2600	1.5 B J	1.9 B J	< 2.3	< 2.3	5.8 B J	4 J
Zinc	µg/L	7600	114	114	63 J	66.7 J	132	129
FIELD READINGS								
Dissolved Oxygen	mg/L	NV	3.66	---	3.29	---	5.67	2.72
Oxidation Reduction Potential	mV	NV	124.6	---	277.9	---	128.3	228.1
pH	unit	NV	5.93	---	5.29	---	6.05	6.08
Specific Conductivity	uS/cm	NV	119	---	126	---	305	212
Temperature	C	NV	9.96	---	6.7	---	15.19	15.41
Turbidity	NTU	NV	3.7	---	1.8	---	0	0

Table 7C
RCRA Program Groundwater Analytical Results for SWPC Zone Wells
Total Metals Last 4 Events, 2018 - 2021
Norwalk Power LLC, South Norwalk, Connecticut

Notes:
N = Sample Purpose, Normal Field Sample
FD = Sample Purpose, Field Duplicate Sample
µg/L = micrograms per Liter
mg/L = milligrams per Liter
mV = millivolts
unit = standard pH units
uS/cm = micro-Siemens per centimeter
C = degrees Celsius
NTU = Nephelometric Turbidity Units
--- = analyte not sampled
SWPC = Surface Water Protection Criteria
(1) = Approved Alternative and Additional SWPC for Al, As, V, Zn in 1/15/14 CTDEEP letter.
(2) = Additional SWPC for Ba, Co, Mn approved by CTDEEP on 9/26/2019 (expires 9/26/2027).
NV = no value established
BOLD = Result is greater than applicable SWPC
B = Analyte less than reporting limit (RL), but greater than Instrument Detection Limit
J = estimated based on data validation
U = non-detect per data validation
Validation includes both lab and validator qualifiers.
Lab results have been validated.

Table 7D
RCRA Program Groundwater Analytical Results for WQC Zone Wells
Total Metals Last 4 Events, 2018-2021
Norwalk Power LLC, South Norwalk, Connecticut

	Location Code		NH-03S				NH-05S			
	Sample ID		NH-03S-20180425	NH-03S-20190409	NH-03S-20200629	NH-03S-20210623	NH-05S-20180426	NH-05S-20190409	NH-05S-20200629	NH-05S-20210623
	Sample Date		4/25/2018	4/9/2019	6/29/2020	6/23/2021	4/26/2018	4/9/2019	6/29/2020	6/23/2021
	Sample Purpose		N	N	N	N	N	N	N	N
Parameter	Units	WQC-Salt-C	Result	Result	Result	Result	Result	Result	Result	Result
METALS, TOTAL										
Aluminum	µg/L	87	< 200 U	131 B J	116 B J	125 J	1990	3390	2340	1520
Antimony	µg/L	190	4.7	3.9	4.3 B J	< 4.1	< 1.2	< 0.88	< 4.1	< 4.1
Arsenic	µg/L	36	13.4	3.8	4.4	8	9.4	3.9	8.8	4.6
Barium	µg/L	220	48.3 B J	41.8 B J	40.9 B J	43.8 J	27.4 B J	19.7 B J	23 B J	22.1 J
Beryllium	µg/L	11	0.5 B J	< 0.5	< 0.5	< 0.5	1.7	2	1.5	1.2
Cadmium	µg/L	8.8	1 B J	< 1.2	< 1.2	< 1.2	< 0.69	< 1.2	< 1.2	< 1.2
Chromium	µg/L	NV	< 1.6	< 1.5	< 1.5	< 1.5	< 1.6	< 1.5	< 1.5	< 1.5
Cobalt	µg/L	24	52.7	58.5	60.6	54.6	6.5 B J	4.4 B J	5.4 B J	5.3 J
Copper	µg/L	3.1	< 6.5	< 4.1	< 2.1	< 2.1	19.9	18.7	12.6	10
Iron	µg/L	NV	809	108	111	297	1770	3420	2010	982
Lead	µg/L	8.1	< 2.6	< 2.4	< 2.4	< 2.4	< 2.6	2.6 B J	< 2.4	< 2.4
Manganese	µg/L	93	412	417	423	349	229	326	277	250
Mercury	µg/L	0.94	< 0.11	< 0.092	< 0.2	< 0.092	< 0.11	< 0.092	< 0.2	< 0.092
Nickel	µg/L	8.2	173	227	207	196	63.8	33.1	28.4	34.1
Selenium	µg/L	71	9	9.5	13.6	11.8	4.3	2.8	< 5.5	< 5.5
Silver	µg/L	1.9	< 3	< 2.4	< 0.067	< 0.067	< 3	< 2.4	< 2	< 0.067
Sodium	µg/L	NV	12500	12000	11400	11000	5830 B J	6910 B J	6760 B J	6710 J
Thallium	µg/L	17	2.4	2	4.4 B J	10.5	1.2	1.1	3.4 B J	8.7 J
Vanadium	µg/L	27	18.9 B J	11 B J	12.4 B J	13.2 J	1 B J	< 2.3	< 2.3	< 2.3
Zinc	µg/L	81	219	244 J	216	208	48.4	34.1 J	25	28.8
FIELD READINGS										
Dissolved Oxygen	mg/L	NV	1.11	1.28	1.67	0.81	6.84	3.13	2.25	2.37
Oxidation Reduction Potential	mV	NV	111.7	227.5	50.3	204.2	162.7	365.9	318.8	375.3
pH	unit	NV	5.98	5.85	5.97	6.09	4.62	3.99	4.4	4.42
Specific Conductivity	us/cm	NV	203	283	266	257	225	358	285	287
Temperature	C	NV	9.86	7.47	14.89	14.29	19.28	8.91	15.31	15.18
Turbidity	NTU	NV	4.6	1.7	0.8	0.3	4	1.7	0	0

Table 7D
RCRA Program Groundwater Analytical Results for WQC Zone Wells
Total Metals Last 4 Events, 2018-2021
Norwalk Power LLC, South Norwalk, Connecticut

		Location Code	NH-08S					NH-10S			
		Sample ID	NH-08S-20180423	NH-08S-20190409	NH-08S-20200629	NH-08S-20200629_FD	NH-08S-20210624	NH-10S-20180426	NH-10S-20190409	NH-10S-20200629	NH-10S-20210623
		Sample Date	4/23/2018	4/9/2019	6/29/2020	6/29/2020	6/24/2021	4/26/2018	4/9/2019	6/29/2020	6/23/2021
		Sample Purpose	N	N	N	FD	N	N	N	N	N
Parameter	Units	WQC-Salt-C	Result	Result	Result	Result	Result	Result	Result	Result	Result
METALS, TOTAL											
Aluminum	µg/L	87	4830 J	1920	1570	1450	3500	< 200 B U	101 B J	< 77	< 77
Antimony	µg/L	190	< 24	< 4.4	< 4.1	< 4.1	< 21	< 1.2	< 0.88	< 4.1	< 4.1
Arsenic	µg/L	36	6.4 B J	5.4	14.7	13.9	21.9	< 1 B U	0.49 B J	3.5	3.1
Barium	µg/L	220	37.5 B J	29.8 B J	37.6 B J	36.4 B J	36.9 J	19.8 B J	23 B J	29.3 B J	35.3 J
Beryllium	µg/L	11	1.9	0.8 B J	0.8 B J	0.7 B J	1.1	< 0.31	< 0.5	< 0.5	< 0.5
Cadmium	µg/L	8.8	< 0.69	< 1.2	< 1.2	< 1.2	< 1.2	< 0.69	< 1.2	< 1.2	< 1.2
Chromium	µg/L	NV	< 1.6	< 1.5	< 1.5	< 1.5	< 1.5	< 1.6	< 1.5	< 1.5	< 1.5
Cobalt	µg/L	24	13.1 B J	14.7 B J	6.2 B J	5.8 B J	9.5 J	1.7 B J	3.8 B J	3.5 B J	5.7 J
Copper	µg/L	3.1	6.8 B J	5.2 B J	< 4	< 2.1	< 21	< 6.5	4.5 B J	2.3 B J	< 2.1
Iron	µg/L	NV	28200 J	16700	31200	29400	33900	956	706	759	1110
Lead	µg/L	8.1	< 13	< 2.4	< 4.8	< 4.8	< 12	< 2.6	< 2.4	< 2.4	< 2.4
Manganese	µg/L	93	253 J	219	312	300	291	31.7	59.3	122	106
Mercury	µg/L	0.94	< 0.11	< 0.092	< 0.2	< 0.2	< 0.092	< 0.11	< 0.092	< 0.2	< 0.092
Nickel	µg/L	8.2	41.1 B J	50.2	24.2	24.1	36.4	5.2 B J	9 B J	5.1 B J	8.9 J
Selenium	µg/L	71	< 4.8	< 3.2	< 5.5	< 5.5	< 28	3.8	2.7	< 5.5	< 5.5
Silver	µg/L	1.9	< 3	< 2.4	< 2	< 0.067	< 0.67	< 3	< 2.4	< 0.067	< 0.067
Sodium	µg/L	NV	4290000	1350000	1510000	1500000	3470000	54200	27000	17000	17300
Thallium	µg/L	17	0.76 B J	1.1 B J	4.4 B J	4.8 B J	< 9.5	2.9	2.3	4.5 B J	6.5 J
Vanadium	µg/L	27	< 0.95	< 2.3	2.4 B J	< 2.3	< 2.3	4.2 B J	3.4 B J	6.1 B J	7.6 J
Zinc	µg/L	81	32.5	36.1 J	33.6	33.1	43.5	20.1	31.9 J	27.7	42.7
FIELD READINGS											
Dissolved Oxygen	mg/L	NV	1.45	0.1	0.59	---	0.18	2.17	4.68	1.67	1.17
Oxidation Reduction Potential	mV	NV	-8.2	125.2	6.8	---	53.5	130.5	107.3	197.6	250.1
pH	unit	NV	6.13	5.79	5.91	---	5.87	5.88	5.55	5.39	5.6
Specific Conductivity	us/cm	NV	15060	7916	9797	---	19960	262	231	202	203
Temperature	C	NV	11.17	7.8	17.47	---	16.3	12.54	8.65	14.03	16.36
Turbidity	NTU	NV	4.8	3.6	3.8	---	0	4.7	1.9	0.2	0

Table 7D
RCRA Program Groundwater Analytical Results for WQC Zone Wells
Total Metals Last 4 Events, 2018-2021
Norwalk Power LLC, South Norwalk, Connecticut

	Location Code		NH-13S					
	Sample ID		NH-13S-20180426	NH-13S-20180426FD	NH-13S-20190409	NH-13S-20190409FD	NH-13S-20200629	NH-13S-20210623
	Sample Date		4/26/2018	4/26/2018	4/9/2019	4/9/2019	6/29/2020	6/23/2021
	Sample Purpose		N	FD	N	FD	N	N
Parameter	Units	WQC-Salt-C	Result	Result	Result	Result	Result	Result
METALS, TOTAL								
Aluminum	µg/L	87	< 200 U	< 200 U	407	374	564	< 77
Antimony	µg/L	190	< 1.2	< 1.2	< 0.88	< 0.88	< 4.1	< 4.1
Arsenic	µg/L	36	< 1 U	< 1 U	0.79 B J	0.71 B J	6.1	4.7
Barium	µg/L	220	44.5 B J	44.1 B J	39.2 B J	38.3 B J	54 B J	47.7 J
Beryllium	µg/L	11	1.1	1.1	0.8 B J	0.8 B J	< 0.5	< 0.5
Cadmium	µg/L	8.8	0.9 B J	< 0.69	< 1.2	< 1.2	< 1.2	< 1.2
Chromium	µg/L	NV	< 1.6	< 1.6	< 1.5	< 1.5	< 1.5	< 1.5
Cobalt	µg/L	24	10.9 B J	10.9 B J	6.3 B J	6.4 B J	10.8 B J	6.9 J
Copper	µg/L	3.1	< 6.5	< 6.5	4.2 B J	4.4 B J	< 4	< 2.1
Iron	µg/L	NV	241	305	76.3 B J	53.7 B J	502	127
Lead	µg/L	8.1	< 2.6	< 2.6	< 2.4	< 2.4	< 2.4	2.7 J
Manganese	µg/L	93	31.2	31.4	39.9	42.3	76.2	20.7
Mercury	µg/L	0.94	< 0.11	< 0.11	< 0.092	0.11 B J	< 0.2	< 0.092
Nickel	µg/L	8.2	63.8	64	32.8	35.1	99	83.4
Selenium	µg/L	71	3.2	3.4	3.1	3.1	21.1	13.2
Silver	µg/L	1.9	< 3	< 3	< 2.4	< 2.4	< 2	< 0.067
Sodium	µg/L	NV	< 10000 B U	< 10000 B U	3050 B J	3010 B J	12000	5570 J
Thallium	µg/L	17	1.2	1.3	0.97	0.99	5 B J	6.3 J
Vanadium	µg/L	27	1.5 B J	1.9 B J	< 2.3	< 2.3	5.8 B J	4 J
Zinc	µg/L	81	114	114	63 J	66.7 J	132	129
FIELD READINGS								
Dissolved Oxygen	mg/L	NV	3.66	---	3.29	---	5.67	2.72
Oxidation Reduction Potential	mV	NV	124.6	---	277.9	---	128.3	228.1
pH	unit	NV	5.93	---	5.29	---	6.05	6.08
Specific Conductivity	us/cm	NV	119	---	126	---	305	212
Temperature	C	NV	9.96	---	6.7	---	15.19	15.41
Turbidity	NTU	NV	3.7	---	1.8	---	0	0

Table 7D
RCRA Program Groundwater Analytical Results for WQC Zone Wells
Total Metals Last 4 Events, 2018-2021
Norwalk Power LLC, South Norwalk, Connecticut

Notes:
N = Sample Purpose, Normal Field Sample
FD = Sample Purpose, Field Duplicate Sample
µg/L = micrograms per Liter
mg/L = milligrams per Liter
mV = millivolts
unit = standard pH units
uS/cm = micro-Siemens per centimeter
C = degrees Celsius
NTU = Nephelometric Turbidity Units
WQC-Salt-C = Numerical Water Quality Criteria for Chemical Constituents, Saltwater, Chronic
(1) = Approved site-specific Alternative WQC for Al, Sb, Ba, Be, Co, Mn, Tl, and V in 9/24/2020 CTDEEP letter.
(2) = Approved site-specific Alternative WQC for Cu, Ni in 10/9/2020 CTDEEP letter.
(3) = Default WQC listed for Ag is acute value as no chronic value established.
NV = no value established
--- = analyte not sampled

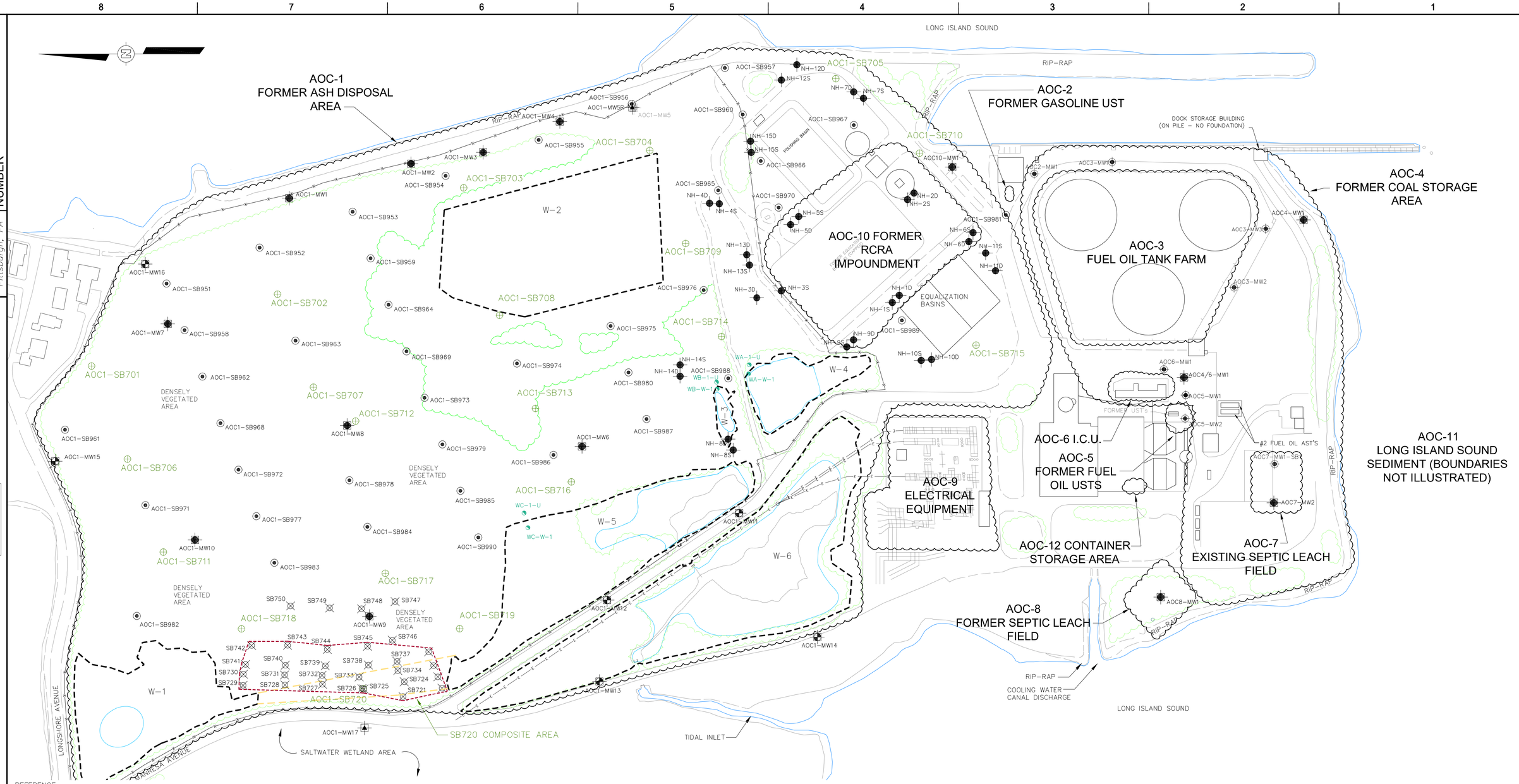
BOLD	= Yellow highlight and bold font, result is greater than WQC-Salt-C
	= Green highlight indicates reporting limit for non-detect result is greater than WQC-Salt-C

B = Analyte less than reporting limit (RL), but greater than Instrument Detection Limit
J = estimated based on data validation
Validation includes both lab and validator qualifiers.
Lab results have been validated.

FIGURES

OFFICE Pittsburgh, PA

DRAWING NUMBER 631012814-D3



REFERENCE:

MONITORING WELLS AOC1-MW11 THRU AOC1-MW16 LOCATIONS AND SURFACE WATER GAUGES SW-W1, W3, W4, W5, W6, AND INLET LOCATIONS PREPARED BY A-PLUS CONSTRUCTION, DATED JANUARY 2015.

"TEST PIT, SOIL BORING & MONITORING WELL SAMPLE LOCATIONS" PREPARED BY METCALF & EDDY. DATED AUG. 2004. DWG# CZNOR002.DWG

SHAW FIELD WORK FOR WETLAND DELINEATION, HIGH TIDE, ASH DEPTH AND TREE LINE COMPLETED IN APRIL, 2007. CB&I REVISED DELINEATION FOR WETLANDS W-3, W-4, AND W-5 IN AUGUST 2016 USING GPS. SLR REVISED DELINEATIONS FOR WETLANDS W-3, W-4, W-5, AND W-6 IN JANUARY 2021 USING GPS.

"SOIL BORING, MONITORING WELLS, WETLANDS AND HIGH TIDE LOCATIONS" PREPARED BY MARTINEZ AND COUCH ASSOCIATES. DATED AUG. 2007 DWG# MCA-NORWALK-NGR.DWG

"BIO-ACCUMULATION SAMPLE LOCATIONS, HA-2 PRE-DELINEATION AREA AND AOC-1 TOPOGRAPHICAL CONTOURS" PREPARED BY A-PLUS CONSTRUCTION, DATED SEPTEMBER 2008.

"SOIL BORINGS AOC1-SB04 AND AOC1-SB05 LOCATIONS, AND MONITORING WELLS AOC1-MW07 THRU AOC1-MW10 LOCATIONS" PREPARED BY A-PLUS CONSTRUCTION, DATED DECEMBER 2011.

JUNE AND OCTOBER 2017 SOIL BORINGS AND OCTOBER 2017 MONITORING WELL AOC-MW-17 WERE LOCATED USING GPS AND FIELD MEASUREMENTS.

DECEMBER 2019 SOIL BORINGS AND AOC1-MW5R WERE LOCATED USING GPS AND FIELD MEASUREMENTS.

LEGEND:

- FIRE HYDRANT
- ESTIMATED TREE LINE
- EXISTING FENCE LINE
- ESTIMATED LATERAL LIMIT OF AREA OF CONCERN
- DELINEATED WETLANDS AREA
- DELINEATED TREE LINE
- SEDIMENT EXTENT LINE
- APPROXIMATE LOCATION OF UNDERGROUND ELECTRICAL LINE
- W-1 WETLAND AREA IDENTIFICATION
- WA-W-1 SOIL SAMPLE POINT FOR WETLAND DELINEATION, JANUARY 2021
- NH-2D MONITORING WELL (1987)
- AOC2-MW1 / AOC7-SB-1/MW1 PHASE III SOIL BORING/ MONITORING WELL LOCATIONS
- AOC7-MW2 SHAW INSTALLED MONITORING WELL (APRIL/MAY 2007 AND DECEMBER 2011)
- AOC1-MW13 CB&I INSTALLED MONITORING WELL (DECEMBER 2014)
- AOC7-MW17 APTIM INSTALLED MONITORING WELL (OCTOBER 2017 & DECEMBER 2019)
- AOC1-SB951 APTIM SOIL BORING LOCATION (2019)
- AOC1-MW5 ABANDONED MONITORING WELL
- AOC1-SB701 CB&I SOIL BORINGS (JUNE 2017)
- AOC1-SB721 APTIM SOIL BORINGS (OCTOBER 2017) LOCATION ID FORMAT: AOC1-SB7##
- APPROXIMATE HISTORIC PHYSICAL CONNECTION BETWEEN WETLANDS
- SB720 COMPOSITE AREA

SCALE 0 120 240 360 FEET

APTIM
150 Royall Street
Canton, Massachusetts

DESIGNED BY: A. Steele	nrg — Norwalk Power LLC, Manresa Island Avenue, South Norwalk, Connecticut
DRAWN BY: E. Schlegel	SITE PLAN
CHECKED BY: A. Steele	NORWALK HARBOR GENERATING STATION, SOUTH NORWALK, CONNECTICUT

APPROVED BY:	DATE:	SCALE:	DRAWING NO.	FIGURE NO.
A. Walker	3/8/21	AS SHOWN	631012814-D3	-

VERIFY SCALE 0 1"

Xref: NORWALK BASE MAP - REV. 2-2018
Image

File: O:\Shaw Offices - CAD Files\Stoughton, MA\NRG\Norwalk\631012814\631012814-D3.dwg
Plot Date/Time: Mar 09, 2021 - 8:27am
Plotted By: Evan.Schlegel

APPENDIX A

DATA VALIDATION WORKSHEETS AND LABORATORY ANALYTICAL REPORTS FOR TA GROUNDWATER AND SURFACE WATER – SEPTEMBER 2020, APRIL 2021, AND JUNE 2021

Data Usability Worksheet

Project Name : NRG Norwalk **Job Number :** 631010661.00321320

Prepared By: Sushama S. Paranjape **Date :** 9/25/2020

Matrix: Groundwater **Laboratory ID No. :** SGS JD12971
Issue date 9/23/2020

Analyte Group : Metals **Analytical Method :** EPA 6010D
EPA 6020B

Completed Reasonable Confidence Protocols Certification Form included: Yes

Does the data package meet the requirements for "Reasonable Confidence"? Yes **Is it Complete ?** Yes

SGS laboratory certifies that all analysis were performed within method specifications and recommends that the report is to be used in its entirety: Yes

Chain of Custody included in Data Package ? Yes **Is it Complete ?** Yes

Sample Collection Date	Analysis	Allowable Holding Time for Extraction	Allowable Holding Time for Analysis	Preparetion/ Analysis Date
9/08, 09, 10/2020	Metals, EPA 6010D, 6020B	NA	180 Days	9/15, 16, 17, 18, 22/2020

Sample Hold Times Met: Yes

Sample Temperature Within QC Limits (0°C to 6°C) : Yes, 3.3°C

Surrogate Recovery
Are all % recoveries within the allowable range ? NA
If No, List sample ID where range was exceeded:

MS/MSD
Are all MS/MSD sample recoveries within the QC limits ? Yes
If No, list sample ID, date and compound where limit was exceeded:

Laboratory Control Samples
Are all laboratory control sample recoveries within the QC limits ? Yes
If No, list sample ID where range was exceeded:

Equipment Field Blank ID (required events 1/20) **:** NA
Trip Blank ID (required every cooler w/VOC) **:** NA
Method Blank: Analysis Method and ID: Metals, 6010D Batch MP22756
Metals, 6020B Batch MP22756A

Were any compounds identified in the method blank, field blank, or trip blank above detection limits ? No
If so, list Sample ID/Compound/Concentration/Units:

Method EPA 6010D Batch ID: MP22756
RPD(s) for Serial Dilutions for Aluminum, Cadmium, Nickel, Vanadium, and Zinc are outside control limits for sample JD12971-6.
Percent difference acceptable due to low initial sample concentration (< 50 times IDL) for Aluminum, Cadmium, and Nickel. No qualification necessary.

Serial dilution indicates possible matrix interference for Vanadium and Zinc. Vanadium and Zinc results are qualified "J" as estimated for sample AOC1-MW11-20200908 (JD12971-6).

Method EPA 6010D Batch ID: MP22756
RPD(s) for laboratory duplicate for Aluminum is outside control limits for sample JD12971-6.
Percent difference acceptable due to low initial sample concentration for Aluminum. No qualification necessary.

Reviewed/Validated By: Sushama S. Paranjape **Date:** 9/25/2020

Field Duplicate (FD) ID (required 1/20 per parameter/matrix/procedure/team): NH-14S-20200908/FD
Did FD samples meet RPD standard (30% AQ)? Y

Completed By: Andrea E. Steele **Date:** 10/16/2020

Report of Analysis

Client Sample ID:	AOC1-MW11-20200908		
Lab Sample ID:	JD12971-6	**Date Sampled:**	09/08/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	46 U	200	46	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [4]
Arsenic [a]	28 U	30	28	ug/l	10	09/14/20	09/17/20	ND	SW846 6010D [3]	SW846 3010A [4]
Beryllium	0.50 U	1.0	0.50	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [4]
Cadmium	1.0 U	3.0	1.0	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [4]
Copper [b]	30.8	20	9.4	ug/l	10	09/14/20	09/16/20	NV	SW846 6020B [2]	SW846 3010A [5]
Lead [c]	18 U	30	18	ug/l	10	09/14/20	09/17/20	ND	SW846 6010D [3]	SW846 3010A [4]
Nickel [c]	87.7 J	100	17	ug/l	10	09/14/20	09/17/20	ND	SW846 6010D [3]	SW846 3010A [4]
Vanadium J	15.3 J	50	1.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [4]
Zinc J	255	20	6.9	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA49303
(2) Instrument QC Batch: MA49307
(3) Instrument QC Batch: MA49316
(4) Prep QC Batch: MP22756
(5) Prep QC Batch: MP22756A

(a) Elevated detection limit due to dilution required for high interfering element.
(b) Elevated sample detection limit due to difficult sample matrix.
(c) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).

sp
9/25/2020

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

APTIM

NRG, One Manresa Island Road, Norwalk, CT

631012814.002

SGS Job Number: JD12971

Sampling Dates: 09/08/20 - 09/10/20

Report to:

APTIM
150 Royall Street
Canton, MA 02021
Andrew.Walker@APTIM.com; Catherine.Joe@APTIM.com;
Andrea.Steele@APTIM.com
ATTN: Andrew Walker

Total number of pages in report: 57

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ayesha Kapadia 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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SGS North America Inc.

Sample Summary

APTIM

Job No: JD12971

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631012814.002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD12971-1	09/09/20	14:00	AM	09/10/20	AQ	Ground Water	AOC1-MW01-20200909
JD12971-2	09/09/20	16:00	DL	09/10/20	AQ	Ground Water	AOC1-MW16-20200909
JD12971-3	09/09/20	17:00	DL	09/10/20	AQ	Ground Water	AOC1-MW05R-20200909
JD12971-4	09/09/20	15:00	AM	09/10/20	AQ	Ground Water	AOC1-MW10-20200909
JD12971-5	09/09/20	15:05	DL	09/10/20	AQ	Ground Water	AOC1-MW06-20200909
JD12971-6	09/08/20	14:35	AM	09/10/20	AQ	Ground Water	AOC1-MW11-20200908
JD12971-7	09/08/20	15:45	DL	09/10/20	AQ	Ground Water	AOC1-MW13-20200908
JD12971-8	09/09/20	11:55	DL	09/10/20	AQ	Ground Water	AOC1-MW08-20200909
JD12971-9	09/08/20	12:00	DL	09/10/20	AQ	Ground Water	NH-14S-20200908_FD
JD12971-10	09/08/20	12:00	DL	09/10/20	AQ	Ground Water	NH-14S-20200908
JD12971-11	09/10/20	07:05	DL	09/10/20	AQ	Ground Water	AOC1-MW17-20200910
JD12971-12	09/09/20	15:05	AM	09/10/20	AQ	Ground Water	AOC1-MW02-20200909
JD12971-13	09/08/20	15:55	AM	09/10/20	AQ	Ground Water	AOC1-MW12-20200908

SGS North America Inc.

Sample Summary
(continued)

APTIM

Job No: JD12971

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631012814.002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD12971-14	09/08/20	11:30 AM		09/10/20	AQ	Ground Water	AOC7-MW01-SB1-20200908
JD12971-15	09/08/20	14:45	DL	09/10/20	AQ	Ground Water	AOC1-MW14-20200908
JD12971-16	09/10/20	10:35 AM		09/10/20	AQ	Ground Water	AOC1-MW07-20200910
JD12971-17	09/10/20	11:30 AM		09/10/20	AQ	Ground Water	AOC1-MW15-20200910
JD12971-18	09/10/20	11:55 AM		09/10/20	AQ	Ground Water	SW-WEIR-W5-20200910
JD12971-18F	09/10/20	11:55 AM		09/10/20	AQ	Groundwater Filtered	SW-WEIR-W5-20200910

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	APTIM	**Job No**	JD12971
Site:	NRG, One Manresa Island Road, Norwalk, CT	**Report Date**	9/23/2020 1:23:36 PM

On 09/10/2020, 19 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD12971 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP22756

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD12971-6MS, JD12971-6MSD, JD12971-6SDL, JD12971-6DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Aluminum are outside control limits for sample MP22756-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Nickel, Aluminum, Cadmium are outside control limits for sample MP22756-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JD12971-15 for Arsenic: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-18 for Arsenic: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-18F for Arsenic: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-7 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD12971-10 for Nickel: Elevated detection limit due to dilution required for high interfering element.
- JD12971-10 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD12971-10 for Beryllium: Elevated detection limit due to dilution required for high interfering element.
- JD12971-11 for Arsenic: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-9 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD12971-13 for Lead: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-9 for Beryllium: Elevated detection limit due to dilution required for high interfering element.
- JD12971-10 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD12971-7 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD12971-6 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD12971-6 for Lead: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-6 for Nickel: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-1 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD12971-9 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD12971-11 for Vanadium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).

Metals Analysis By Method SW846 6010D

Matrix: AQ	Batch ID: MP22756

- JD12971-11 for Cadmium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-1 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD12971-11 for Nickel: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-18F for Zinc: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-15 for Lead: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-11 for Zinc: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-11 for Lead: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-13 for Nickel: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-15 for Nickel: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-18 for Lead: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-18 for Nickel: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-18 for Thallium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-18F for Lead: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-18F for Nickel: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD12971-18F for Thallium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- Only report requesteded metals.
- MP22756-SD1 for Vanadium, Zinc: Serial dilution indicates possible matrix interference.

Metals Analysis By Method SW846 6020B

Matrix: AQ	Batch ID: MP22756A

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD12971-6MS, JD12971-6MSD, JD12971-6SDL were used as the QC samples for metals.
- JD12971-7 for Copper: Elevated sample detection limit due to difficult sample matrix.
- JD12971-6 for Copper: Elevated sample detection limit due to difficult sample matrix.
- JD12971-18F for Copper: Elevated sample detection limit due to difficult sample matrix.
- JD12971-15 for Copper: Elevated sample detection limit due to difficult sample matrix.
- JD12971-13 for Copper: Elevated sample detection limit due to difficult sample matrix.
- JD12971-11 for Copper: Elevated sample detection limit due to difficult sample matrix.
- JD12971-18 for Copper: Elevated sample detection limit due to difficult sample matrix.
- Only report requesteded metals.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD12971
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 09/08/20 thru 09/10/20

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD12971-1	**AOC1-MW01-20200909**					
No hits reported in this sample.						
JD12971-2	**AOC1-MW16-20200909**					
Aluminum		396	200	46	ug/l	SW846 6010D
Copper		18.9	10	5.9	ug/l	SW846 6010D
Lead		12.8	3.0	1.8	ug/l	SW846 6010D
Nickel		34.3	10	1.7	ug/l	SW846 6010D
Vanadium		11.1 J	50	1.8	ug/l	SW846 6010D
Zinc		33.2	20	6.9	ug/l	SW846 6010D
JD12971-3	**AOC1-MW05R-20200909**					
Aluminum		8650	200	46	ug/l	SW846 6010D
Arsenic		105	3.0	2.8	ug/l	SW846 6010D
Beryllium		1.9	1.0	0.50	ug/l	SW846 6010D
Copper		21.4	10	5.9	ug/l	SW846 6010D
Lead		20.2	3.0	1.8	ug/l	SW846 6010D
Nickel		94.4	10	1.7	ug/l	SW846 6010D
Vanadium		49.5 J	50	1.8	ug/l	SW846 6010D
Zinc		136	20	6.9	ug/l	SW846 6010D
JD12971-4	**AOC1-MW10-20200909**					
Aluminum		86.3 J	200	46	ug/l	SW846 6010D
Arsenic		88.8	3.0	2.8	ug/l	SW846 6010D
Vanadium		6.6 J	50	1.8	ug/l	SW846 6010D
JD12971-5	**AOC1-MW06-20200909**					
Aluminum		1720	200	46	ug/l	SW846 6010D
Arsenic		131	3.0	2.8	ug/l	SW846 6010D
Beryllium		0.50 J	1.0	0.50	ug/l	SW846 6010D
Cadmium		2.2 J	3.0	1.0	ug/l	SW846 6010D
Copper		31.3	4.0	1.9	ug/l	SW846 6020B
Nickel		112	10	1.7	ug/l	SW846 6010D
Vanadium		20.9 J	50	1.8	ug/l	SW846 6010D
Zinc		86.5	20	6.9	ug/l	SW846 6010D
JD12971-6	**AOC1-MW11-20200908**					
Copper [a]		30.8	20	9.4	ug/l	SW846 6020B
Nickel [b]		87.7 J	100	17	ug/l	SW846 6010D

Summary of Hits

Job Number: JD12971
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 09/08/20 thru 09/10/20

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Vanadium		15.3 J	50	1.8	ug/l	SW846 6010D
Zinc		255	20	6.9	ug/l	SW846 6010D
JD12971-7	**AOC1-MW13-20200908**					
Aluminum		121 J	200	46	ug/l	SW846 6010D
Nickel		5.3 J	10	1.7	ug/l	SW846 6010D
Vanadium		4.9 J	50	1.8	ug/l	SW846 6010D
Zinc		22.0	20	6.9	ug/l	SW846 6010D
JD12971-8	**AOC1-MW08-20200909**					
Aluminum		1660	200	46	ug/l	SW846 6010D
Arsenic		28.5	3.0	2.8	ug/l	SW846 6010D
Copper		5.4	4.0	1.9	ug/l	SW846 6020B
Lead		3.5	3.0	1.8	ug/l	SW846 6010D
Nickel		20.7	10	1.7	ug/l	SW846 6010D
Vanadium		16.2 J	50	1.8	ug/l	SW846 6010D
Zinc		28.7	20	6.9	ug/l	SW846 6010D
JD12971-9	**NH-14S-20200908_FD**					
Aluminum		128000	200	46	ug/l	SW846 6010D
Beryllium [c]		29.9	5.0	2.5	ug/l	SW846 6010D
Cadmium		2.7 J	3.0	1.0	ug/l	SW846 6010D
Copper		75.1	4.0	1.9	ug/l	SW846 6020B
Lead [c]		11.3 J	15	9.0	ug/l	SW846 6010D
Nickel		714	10	1.7	ug/l	SW846 6010D
Vanadium		38.0 J	50	1.8	ug/l	SW846 6010D
Zinc		636	20	6.9	ug/l	SW846 6010D
JD12971-10	**NH-14S-20200908**					
Aluminum		127000	200	46	ug/l	SW846 6010D
Arsenic [c]		14.2 J	15	14	ug/l	SW846 6010D
Beryllium [c]		29.9	5.0	2.5	ug/l	SW846 6010D
Cadmium		2.6 J	3.0	1.0	ug/l	SW846 6010D
Copper		74.0	4.0	1.9	ug/l	SW846 6020B
Lead [c]		13.3 J	15	9.0	ug/l	SW846 6010D
Nickel [c]		693	50	8.5	ug/l	SW846 6010D
Vanadium		38.4 J	50	1.8	ug/l	SW846 6010D
Zinc		633	20	6.9	ug/l	SW846 6010D

Summary of Hits

Job Number: JD12971
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 09/08/20 thru 09/10/20

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD12971-11	**AOC1-MW17-20200910**					
Aluminum		250	200	46	ug/l	SW846 6010D
JD12971-12	**AOC1-MW02-20200909**					
Aluminum		62.7 J	200	46	ug/l	SW846 6010D
Arsenic		12.6	3.0	2.8	ug/l	SW846 6010D
Cadmium		1.1 J	3.0	1.0	ug/l	SW846 6010D
Nickel		460	10	1.7	ug/l	SW846 6010D
Zinc		77.6	20	6.9	ug/l	SW846 6010D
JD12971-13	**AOC1-MW12-20200908**					
Nickel [b]		54.9	50	8.5	ug/l	SW846 6010D
Zinc		10.7 J	20	6.9	ug/l	SW846 6010D
JD12971-14	**AOC7-MW01-SB1-20200908**					
Aluminum		123 J	200	46	ug/l	SW846 6010D
Arsenic		3.1	3.0	2.8	ug/l	SW846 6010D
Nickel		11.5	10	1.7	ug/l	SW846 6010D
Zinc		32.2	20	6.9	ug/l	SW846 6010D
JD12971-15	**AOC1-MW14-20200908**					
Aluminum		433	200	46	ug/l	SW846 6010D
Lead [b]		10.4 J	15	9.0	ug/l	SW846 6010D
JD12971-16	**AOC1-MW07-20200910**					
Aluminum		334	200	46	ug/l	SW846 6010D
Arsenic		55.7	3.0	2.8	ug/l	SW846 6010D
Nickel		22.1	10	1.7	ug/l	SW846 6010D
Vanadium		41.7 J	50	1.8	ug/l	SW846 6010D
Zinc		9.5 J	20	6.9	ug/l	SW846 6010D
JD12971-17	**AOC1-MW15-20200910**					
Aluminum		1890	200	46	ug/l	SW846 6010D
Arsenic		3.1	3.0	2.8	ug/l	SW846 6010D
Copper		15.1	4.0	1.9	ug/l	SW846 6020B
Lead		3.2	3.0	1.8	ug/l	SW846 6010D
Nickel		29.6	10	1.7	ug/l	SW846 6010D
Vanadium		20.0 J	50	1.8	ug/l	SW846 6010D

Summary of Hits

Job Number: JD12971
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 09/08/20 thru 09/10/20

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Zinc		7.6 J	20	6.9	ug/l	SW846 6010D
JD12971-18	**SW-WEIR-W5-20200910**					
Aluminum		1300	200	46	ug/l	SW846 6010D
Arsenic [b]		36.2	15	14	ug/l	SW846 6010D
JD12971-18F	**SW-WEIR-W5-20200910**					
Aluminum		53.7 J	200	46	ug/l	SW846 6010D

(a) Elevated sample detection limit due to difficult sample matrix.
(b) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
(c) Elevated detection limit due to dilution required for high interfering element.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	AOC1-MW01-20200909		
Lab Sample ID:	JD12971-1	**Date Sampled:**	09/09/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	46 U	200	46	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Arsenic [a]	28 U	30	28	ug/l	10	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [3]
Beryllium	0.50 U	1.0	0.50	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Cadmium	1.0 U	3.0	1.0	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Copper	5.9 U	10	5.9	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Lead [a]	18 U	30	18	ug/l	10	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [3]
Nickel	1.7 U	10	1.7	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Vanadium	1.8 U	50	1.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Zinc	6.9 U	20	6.9	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA49303
(2) Instrument QC Batch: MA49316
(3) Prep QC Batch: MP22756

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW16-20200909		
Lab Sample ID:	JD12971-2	**Date Sampled:**	09/09/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	396	200	46	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [2]
Arsenic	2.8 U	3.0	2.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [2]
Beryllium	0.50 U	1.0	0.50	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [2]
Cadmium	1.0 U	3.0	1.0	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [2]
Copper	18.9	10	5.9	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [2]
Lead	12.8	3.0	1.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [2]
Nickel	34.3	10	1.7	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [2]
Vanadium	11.1 J	50	1.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [2]
Zinc	33.2	20	6.9	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA49303
(2) Prep QC Batch: MP22756

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW05R-20200909		
Lab Sample ID:	JD12971-3	**Date Sampled:**	09/09/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8650	200	46	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Arsenic	105	3.0	2.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Beryllium	1.9	1.0	0.50	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Cadmium	1.0 U	3.0	1.0	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Copper	21.4	10	5.9	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Lead	20.2	3.0	1.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [3]
Nickel	94.4	10	1.7	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Vanadium	49.5 J	50	1.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Zinc	136	20	6.9	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA49303
(2) Instrument QC Batch: MA49316
(3) Prep QC Batch: MP22756

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW10-20200909		
Lab Sample ID:	JD12971-4	**Date Sampled:**	09/09/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	86.3 J	200	46	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Arsenic	88.8	3.0	2.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Beryllium	0.50 U	1.0	0.50	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Cadmium	1.0 U	3.0	1.0	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Copper	1.9 U	4.0	1.9	ug/l	2	09/14/20	09/16/20	NV	SW846 6020B [2]	SW846 3010A [4]
Lead	1.8 U	3.0	1.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Nickel	1.7 U	10	1.7	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Vanadium	6.6 J	50	1.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Zinc	6.9 U	20	6.9	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA49303
(2) Instrument QC Batch: MA49307
(3) Prep QC Batch: MP22756
(4) Prep QC Batch: MP22756A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW06-20200909		
Lab Sample ID:	JD12971-5	**Date Sampled:**	09/09/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1720	200	46	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Arsenic	131	3.0	2.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Beryllium	0.50 J	1.0	0.50	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Cadmium	2.2 J	3.0	1.0	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Copper	31.3	4.0	1.9	ug/l	2	09/14/20	09/16/20	NV	SW846 6020B [2]	SW846 3010A [4]
Lead	1.8 U	3.0	1.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Nickel	112	10	1.7	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Vanadium	20.9 J	50	1.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Zinc	86.5	20	6.9	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA49303
(2) Instrument QC Batch: MA49307
(3) Prep QC Batch: MP22756
(4) Prep QC Batch: MP22756A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW11-20200908		
Lab Sample ID:	JD12971-6	**Date Sampled:**	09/08/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	46 U	200	46	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [4]
Arsenic [a]	28 U	30	28	ug/l	10	09/14/20	09/17/20	ND	SW846 6010D [3]	SW846 3010A [4]
Beryllium	0.50 U	1.0	0.50	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [4]
Cadmium	1.0 U	3.0	1.0	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [4]
Copper [b]	30.8	20	9.4	ug/l	10	09/14/20	09/16/20	NV	SW846 6020B [2]	SW846 3010A [5]
Lead [c]	18 U	30	18	ug/l	10	09/14/20	09/17/20	ND	SW846 6010D [3]	SW846 3010A [4]
Nickel [c]	87.7 J	100	17	ug/l	10	09/14/20	09/17/20	ND	SW846 6010D [3]	SW846 3010A [4]
Vanadium	15.3 J	50	1.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [4]
Zinc	255	20	6.9	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA49303
(2) Instrument QC Batch: MA49307
(3) Instrument QC Batch: MA49316
(4) Prep QC Batch: MP22756
(5) Prep QC Batch: MP22756A

(a) Elevated detection limit due to dilution required for high interfering element.
(b) Elevated sample detection limit due to difficult sample matrix.
(c) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW13-20200908		
Lab Sample ID:	JD12971-7	**Date Sampled:**	09/08/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	121 J	200	46	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [4]
Arsenic [a]	14 U	15	14	ug/l	5	09/14/20	09/17/20	ND	SW846 6010D [3]	SW846 3010A [4]
Beryllium	0.50 U	1.0	0.50	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [4]
Cadmium	1.0 U	3.0	1.0	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [4]
Copper [b]	9.4 U	20	9.4	ug/l	10	09/14/20	09/16/20	NV	SW846 6020B [2]	SW846 3010A [5]
Lead [a]	9.0 U	15	9.0	ug/l	5	09/14/20	09/17/20	ND	SW846 6010D [3]	SW846 3010A [4]
Nickel	5.3 J	10	1.7	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [4]
Vanadium	4.9 J	50	1.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [4]
Zinc	22.0	20	6.9	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA49303
(2) Instrument QC Batch: MA49307
(3) Instrument QC Batch: MA49316
(4) Prep QC Batch: MP22756
(5) Prep QC Batch: MP22756A

(a) Elevated detection limit due to dilution required for high interfering element.
(b) Elevated sample detection limit due to difficult sample matrix.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW08-20200909		
Lab Sample ID:	JD12971-8	**Date Sampled:**	09/09/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1660	200	46	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Arsenic	28.5	3.0	2.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Beryllium	0.50 U	1.0	0.50	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Cadmium	1.0 U	3.0	1.0	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Copper	5.4	4.0	1.9	ug/l	2	09/14/20	09/16/20	NV	SW846 6020B [2]	SW846 3010A [4]
Lead	3.5	3.0	1.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Nickel	20.7	10	1.7	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Vanadium	16.2 J	50	1.8	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]
Zinc	28.7	20	6.9	ug/l	1	09/14/20	09/15/20	MET	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA49303
(2) Instrument QC Batch: MA49307
(3) Prep QC Batch: MP22756
(4) Prep QC Batch: MP22756A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH-14S-20200908_FD		
Lab Sample ID:	JD12971-9	**Date Sampled:**	09/08/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	128000	200	46	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]
Arsenic [a]	14 U	15	14	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [4]
Beryllium [a]	29.9	5.0	2.5	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [4]
Cadmium	2.7 J	3.0	1.0	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]
Copper	75.1	4.0	1.9	ug/l	2	09/14/20	09/16/20	NV	SW846 6020B [1]	SW846 3010A [5]
Lead [a]	11.3 J	15	9.0	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [4]
Nickel	714	10	1.7	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]
Vanadium	38.0 J	50	1.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]
Zinc	636	20	6.9	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA49307
(2) Instrument QC Batch: MA49316
(3) Instrument QC Batch: MA49320
(4) Prep QC Batch: MP22756
(5) Prep QC Batch: MP22756A

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH-14S-20200908		
Lab Sample ID:	JD12971-10	**Date Sampled:**	09/08/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	127000	200	46	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]
Arsenic [a]	14.2 J	15	14	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [4]
Beryllium [a]	29.9	5.0	2.5	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [4]
Cadmium	2.6 J	3.0	1.0	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]
Copper	74.0	4.0	1.9	ug/l	2	09/14/20	09/16/20	NV	SW846 6020B [1]	SW846 3010A [5]
Lead [a]	13.3 J	15	9.0	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [4]
Nickel [a]	693	50	8.5	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [4]
Vanadium	38.4 J	50	1.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]
Zinc	633	20	6.9	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA49307
(2) Instrument QC Batch: MA49316
(3) Instrument QC Batch: MA49320
(4) Prep QC Batch: MP22756
(5) Prep QC Batch: MP22756A

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW17-20200910		
Lab Sample ID:	JD12971-11	**Date Sampled:**	09/10/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	250	200	46	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]
Arsenic [a]	14 U	15	14	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [4]
Beryllium	0.50 U	1.0	0.50	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]
Cadmium [a]	5.0 U	15	5.0	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [4]
Copper [b]	9.4 U	20	9.4	ug/l	10	09/14/20	09/16/20	NV	SW846 6020B [1]	SW846 3010A [5]
Lead [a]	9.0 U	15	9.0	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [4]
Nickel [a]	8.5 U	50	8.5	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [4]
Vanadium [a]	9.0 U	250	9.0	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [4]
Zinc [a]	35 U	100	35	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [4]

(1) Instrument QC Batch: MA49307
(2) Instrument QC Batch: MA49316
(3) Instrument QC Batch: MA49320
(4) Prep QC Batch: MP22756
(5) Prep QC Batch: MP22756A

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
(b) Elevated sample detection limit due to difficult sample matrix.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW02-20200909		
Lab Sample ID:	JD12971-12	**Date Sampled:**	09/09/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	62.7 J	200	46	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Arsenic	12.6	3.0	2.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Beryllium	0.50 U	1.0	0.50	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Cadmium	1.1 J	3.0	1.0	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Copper	5.9 U	10	5.9	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Lead	1.8 U	3.0	1.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Nickel	460	10	1.7	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Vanadium	1.8 U	50	1.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Zinc	77.6	20	6.9	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA49316
(2) Prep QC Batch: MP22756

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW12-20200908		
Lab Sample ID:	JD12971-13	**Date Sampled:**	09/08/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	46 U	200	46	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]
Arsenic	2.8 U	3.0	2.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]
Beryllium	0.50 U	1.0	0.50	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]
Cadmium	1.0 U	3.0	1.0	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]
Copper [a]	4.7 U	10	4.7	ug/l	5	09/14/20	09/16/20	NV	SW846 6020B [1]	SW846 3010A [5]
Lead [b]	9.0 U	15	9.0	ug/l	5	09/14/20	09/22/20	GT	SW846 6010D [3]	SW846 3010A [4]
Nickel [b]	54.9	50	8.5	ug/l	5	09/14/20	09/22/20	GT	SW846 6010D [3]	SW846 3010A [4]
Vanadium	1.8 U	50	1.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]
Zinc	10.7 J	20	6.9	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA49307
(2) Instrument QC Batch: MA49316
(3) Instrument QC Batch: MA49335
(4) Prep QC Batch: MP22756
(5) Prep QC Batch: MP22756A

(a) Elevated sample detection limit due to difficult sample matrix.
(b) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC7-MW01-SB1-20200908		
Lab Sample ID:	JD12971-14	**Date Sampled:**	09/08/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	123 J	200	46	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Arsenic	3.1	3.0	2.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Beryllium	0.50 U	1.0	0.50	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Cadmium	1.0 U	3.0	1.0	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Copper	5.9 U	10	5.9	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Lead	1.8 U	3.0	1.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Nickel	11.5	10	1.7	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Vanadium	1.8 U	50	1.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Zinc	32.2	20	6.9	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA49316
(2) Prep QC Batch: MP22756

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW14-20200908		
Lab Sample ID:	JD12971-15	**Date Sampled:**	09/08/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	433	200	46	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [5]
Arsenic [a]	14 U	15	14	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [5]
Beryllium	0.50 U	1.0	0.50	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [5]
Cadmium [a]	5.0 U	15	5.0	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [5]
Copper [b]	9.4 U	20	9.4	ug/l	10	09/14/20	09/16/20	NV	SW846 6020B [1]	SW846 3010A [6]
Lead [a]	10.4 J	15	9.0	ug/l	5	09/14/20	09/22/20	GT	SW846 6010D [4]	SW846 3010A [5]
Nickel [a]	8.5 U	50	8.5	ug/l	5	09/14/20	09/22/20	GT	SW846 6010D [4]	SW846 3010A [5]
Vanadium [a]	9.0 U	250	9.0	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [5]
Zinc [a]	35 U	100	35	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [5]

(1) Instrument QC Batch: MA49307
(2) Instrument QC Batch: MA49316
(3) Instrument QC Batch: MA49320
(4) Instrument QC Batch: MA49335
(5) Prep QC Batch: MP22756
(6) Prep QC Batch: MP22756A

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
(b) Elevated sample detection limit due to difficult sample matrix.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW07-20200910		
Lab Sample ID:	JD12971-16	**Date Sampled:**	09/10/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	334	200	46	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Arsenic	55.7	3.0	2.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Beryllium	0.50 U	1.0	0.50	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Cadmium	1.0 U	3.0	1.0	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Copper	5.9 U	10	5.9	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Lead	1.8 U	3.0	1.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Nickel	22.1	10	1.7	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Vanadium	41.7 J	50	1.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]
Zinc	9.5 J	20	6.9	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA49316
(2) Prep QC Batch: MP22756

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW15-20200910		
Lab Sample ID:	JD12971-17	**Date Sampled:**	09/10/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1890	200	46	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [3]
Arsenic	3.1	3.0	2.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [3]
Beryllium	0.50 U	1.0	0.50	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [3]
Cadmium	1.0 U	3.0	1.0	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [3]
Copper	15.1	4.0	1.9	ug/l	2	09/14/20	09/16/20	NV	SW846 6020B [1]	SW846 3010A [4]
Lead	3.2	3.0	1.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [3]
Nickel	29.6	10	1.7	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [3]
Vanadium	20.0 J	50	1.8	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [3]
Zinc	7.6 J	20	6.9	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA49307
(2) Instrument QC Batch: MA49316
(3) Prep QC Batch: MP22756
(4) Prep QC Batch: MP22756A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	SW-WEIR-W5-20200910		
Lab Sample ID:	JD12971-18	**Date Sampled:**	09/10/20
Matrix:	AQ - Ground Water	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1300	200	46	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [5]
Arsenic [a]	36.2	15	14	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [5]
Beryllium	0.50 U	1.0	0.50	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [5]
Cadmium [a]	5.0 U	15	5.0	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [5]
Copper [b]	9.4 U	20	9.4	ug/l	10	09/14/20	09/16/20	NV	SW846 6020B [1]	SW846 3010A [6]
Lead [a]	9.0 U	15	9.0	ug/l	5	09/14/20	09/22/20	GT	SW846 6010D [4]	SW846 3010A [5]
Nickel [a]	8.5 U	50	8.5	ug/l	5	09/14/20	09/22/20	GT	SW846 6010D [4]	SW846 3010A [5]
Selenium [a]	25 U	50	25	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [5]
Thallium [a]	9.0 U	50	9.0	ug/l	5	09/14/20	09/22/20	GT	SW846 6010D [4]	SW846 3010A [5]
Zinc [a]	35 U	100	35	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [5]

(1) Instrument QC Batch: MA49307
(2) Instrument QC Batch: MA49316
(3) Instrument QC Batch: MA49320
(4) Instrument QC Batch: MA49335
(5) Prep QC Batch: MP22756
(6) Prep QC Batch: MP22756A

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
(b) Elevated sample detection limit due to difficult sample matrix.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	SW-WEIR-W5-20200910		
Lab Sample ID:	JD12971-18F	**Date Sampled:**	09/10/20
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/10/20
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	53.7 J	200	46	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [5]
Arsenic [a]	14 U	15	14	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [5]
Beryllium	0.50 U	1.0	0.50	ug/l	1	09/14/20	09/17/20	ND	SW846 6010D [2]	SW846 3010A [5]
Cadmium [a]	5.0 U	15	5.0	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [5]
Copper [b]	9.4 U	20	9.4	ug/l	10	09/14/20	09/16/20	NV	SW846 6020B [1]	SW846 3010A [6]
Lead [a]	9.0 U	15	9.0	ug/l	5	09/14/20	09/22/20	GT	SW846 6010D [4]	SW846 3010A [5]
Nickel [a]	8.5 U	50	8.5	ug/l	5	09/14/20	09/22/20	GT	SW846 6010D [4]	SW846 3010A [5]
Selenium [a]	25 U	50	25	ug/l	5	09/14/20	09/18/20	GT	SW846 6010D [3]	SW846 3010A [5]
Thallium [a]	9.0 U	50	9.0	ug/l	5	09/14/20	09/22/20	GT	SW846 6010D [4]	SW846 3010A [5]
Zinc [a]	35 U	100	35	ug/l	5	09/14/20	09/22/20	GT	SW846 6010D [4]	SW846 3010A [5]

(1) Instrument QC Batch: MA49307
(2) Instrument QC Batch: MA49316
(3) Instrument QC Batch: MA49320
(4) Instrument QC Batch: MA49335
(5) Prep QC Batch: MP22756
(6) Prep QC Batch: MP22756A

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
(b) Elevated sample detection limit due to difficult sample matrix.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

GW

CHAIN OF CUSTODY

SGS

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

FED-EX Tracking # 3961 0908 0319
SGS Quote # NRG-CT account pricing 10/2016
Bottle Order Control # TF-081820-112
SGS Job # JD12971

Client / Reporting Information

Company Name: APTIM
Street Address: 150 Royall St.
City / State / Zip: Canton, MA 02021
Project Contact / E-mail: Andrea.Steele@aptim.com
Phone #: 774-573-9090
Sampler(s) Name(s) / Phone #: Austin Magnant 774-551-6197; D. Leahy

Project Information

Project Name: NRG-Norwalk
Street: One Manresa Island Rd.
City / State: South Norwalk CT
Project #: 631012814.002
Client Purchase Order #: N/A
Project Manager: Andrew.Walker@aptim.com

Billing Information (if different from Report to)
Company Name
Street Address
City / State / Zip
Attention:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	Total Al As Be Cd Cu Pb Ni V Zn (Method 6010) [SWPC]	Total Al As Be Cd Pb Ni V Zn (Method 6010) and Total Cu (Method 6020) [WQC]	Total Hardness as CaCO3	Total Al As Be Cu Ni Se Tl Zn (Method 6010) and Total Cd Pb (Method 6020) [FRESH WQC]	Dissolved Al As Be Cu Ni Se Tl Zn (Method 6010) and Diss. Cd Pb (Method 6020) [field filtered] [FRESH WQC]	Total Al As Be Cd Ni Pb Se Tl Zn (Method 6010) and Total Cu (Method 6020) [SALT WQC]	Dissolved Al As Be Cd Ni Pb Se Tl Zn (Method 6010) and Diss. Cu (Method 6020) [field filtered] [SALT WQC]					LAB USE ONLY
1	AOCI-MW01-20200909	NA	09-09-20	1400	AM	G	GW	1			1						X										
2	AOCI-MW16-20200909	NA	09-09-20	1600	DL	G	GW	1			1						X										
3	AOCI-MW05R-20200909	NA	09-09-20	1700	DL	G	GW	1			1						X										A5
4	AOCI-MW18-20200909	NA	09-09-20	1500	AM	G	GW	1			1							X									
5	AOCI-MW06-20200909	NA	09-09-20	1505	DL	G	GW	1			1							X									
6	AOCI-MW11-20200908	NA	09-08-20	1435	AM	G	GW	1			1							X									
7	AOCI-MW13-20200908	NA	09-08-20	1545	DL	G	GW	1			1							X									
8	AOCI-MW08-20200909	NA	09-09-20	1155	DL	G	GW	1			1							X									
9	NH-145-20200908_FD	NA	09-08-20	1200	DL	G	GW	1			1							X									
10	NH-145-20200908	NA	09-08-20	1200	DL	G	GW	1			1							X									
11	AOCI-MW17-20200910	NA	09-10-20	0705	DL	G	GW	1			1							X				9/10	SGS-ACCUTEST MARLBOR				
12	AOCI-MW02-20200909	NA	09-09-20	1505	AM	G	GW	1			1						X										

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

INITIAL ASESSMENT KG 3A

LABEL VERIFICATION

Deliverable

- [ ] Commercial "A" (Level 1)
- [X] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [X] CT RCP Criteria CT SWPC and CT WQC
- [ ] State Forms
- [X] EDD Format EQuIS
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Dissolved metals samples have been field filtered.
Report metals results to MDL.
QA/QC Reporting: CT RCP and Site-Specific QAPP.
Please email EQuIS formatted EDD to catherine.joe@aptim.com.

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By	Date / Time	Received By	Relinquished By	Date / Time	Received By
1 APTIM	09-10-20 1520	1	2	9.10.20 17:00	2 FEDEX
3 fedex	9/11/20 10:30	3	4		4
5		5			

Custody Seal # 1200 [ ] Intact [ ] Not intact | Preserved where applicable [ ] Absent | Therm. ID: IR-4 | On Ice [✓] | Cooler Temp. °C 3.6 CIP

HNO3 pH<2

NRG-NWK_SGS-Dayton COC_GW-SW fall print 4.xlsx

JD12971: Chain of Custody
Page 1 of 3

SGS

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

FED-EX Tracking #
Bottle Order Control # TF-081820-112
SGS Quote # NRG-CT account pricing 10/2016
SGS Job # JD12971

Client / Reporting Information

Company Name: APTIM
Street Address: 150 Royall St.
City / State / Zip: Canton, MA 02021
Project Contact / E-mail: Andrea.Steele@aptim.com
Phone #: 774-573-9090
Sampler(s) Name(s) / Phone #: Austin Magnant 774-551-6197; D. Leahy

Project Information

Project Name: NRG-Norwalk
Street: One Manresa Island Rd.
City / State: South Norwalk CT
Project #: 631012814.002
Client Purchase Order #: N/A
Project Manager: Andrew.Walker@aptim.com

Billing information (if different from Report to)
Company Name
Street Address
City / State / Zip
Attention:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

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~~[illegible]~~		~~NA~~	~~09-08-20~~	~~1130~~	~~AM~~	~~G~~	~~GW~~	~~2~~			~~2~~							~~X~~	~~NA~~					~~X~~	~~NA~~		
13	AOC1-MW12-20200903	NA	09-08-20	1555	AM	G	GW	1			1							X									
14	AOC7-MW21-SB1-20200908	NA	09-08-20	1130	AM	G	GW	1			1						X										
15	AOC1-MW14-20200908	NA	09-08-20	1445	DL	G	GW	1			1							X									
16	AOC1-MW07-20200910	NA	09-10-20	1035	AM	G	GW	1			1						X										
17	AOC1-MW15-20200910	NA	09-10-20	1130	AM	G	GW	1			1							X									
18	SW-Weir-WS-20200910	NA	09-10-20	1155	AM	G	GW	2			2											X	X				

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other
- All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [X] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [X] CT RCP Criteria CT SWPC and CT WQC
- [ ] State Forms
- [X] EDD Format EQuIS
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Dissolved metals samples have been field filtered.
Report metals results to MDL.
QA/QC Reporting: CT RCP and Site-Specific QAPP.
Please email EQuIS formatted EDD to catherine.joe@aptim.com.

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 [signature] APTIM	09-10-20 / 1530	1 [signature]	2 [signature]	9-10-20 17:00	2 FED EX
3 FedEx	9/11/20 10:30	3	4		4
5		5			

Custody Seal # 13625 ☐ Intact ☐ Not intact | Preserved where applicable ☐ Absent | Therm. ID: | On Ice ☐ | Cooler Temp. °C 3.6 CP

NRG-NWK_SGS-Dayton COC_GW-SW fall print 4.xlsx

JD12971: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: JD12971 **Client:** APTIM **Project:** NRG, ONE MANRESA ISLAND ROAD, NORWA

Date / Time Received: 9/10/2020 7:00:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (3.3);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 229517 pH 12+: 208717 Other: (Specify) _____ _____

Comments

SM089-03
Rev. Date 12/7/17

JD12971: Chain of Custody
Page 3 of 3

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **APTIM**

Project Location: **NRG, One Manresa Island Road, Norwalk, CT** **Project Number:** **631217784.01021320 / P-CARD**

Sampling Date(s): **9/9/2020**

Laboratory Sample ID(s): JD12971-1, JD12971-2, JD12971-3, JD12971-4, JD12971-5, JD12971-6, JD12971-7, JD12971-8, JD12971-9, JD12971-10, JD12971-11, JD12971-12, JD12971-13, JD12971-14, JD12971-15, JD12971-16, JD12971-17, JD12971-18, JD12971-18F

Methods: SW846 6010D, SW846 6020B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☑ No ☐
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☑ No ☐

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Caitlin Brice Position: General Manager

Printed Name: Caitlin Brice Date: 9/23/2020

Internal Sample Tracking Chronicle

APTIM

Job No: JD12971

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631012814.002

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD12971-1 Collected: 09-SEP-20 14:00 By: AM Received: 10-SEP-20 By: DG AOC1-MW01-20200909						
JD12971-1	SW846 6010D	15-SEP-20 20:08	MET	14-SEP-20	TG	AL,BE,CD,CU,NI,V,ZN
JD12971-1	SW846 6010D	17-SEP-20 12:43	ND	14-SEP-20	TG	AS,PB
JD12971-2 Collected: 09-SEP-20 16:00 By: DL Received: 10-SEP-20 By: DG AOC1-MW16-20200909						
JD12971-2	SW846 6010D	15-SEP-20 20:13	MET	14-SEP-20	TG	AL,AS,BE,CD,CU,NI,PB,V,ZN
JD12971-3 Collected: 09-SEP-20 17:00 By: DL Received: 10-SEP-20 By: DG AOC1-MW05R-20200909						
JD12971-3	SW846 6010D	15-SEP-20 20:18	MET	14-SEP-20	TG	AL,AS,BE,CD,CU,NI,V,ZN
JD12971-3	SW846 6010D	17-SEP-20 12:48	ND	14-SEP-20	TG	PB
JD12971-4 Collected: 09-SEP-20 15:00 By: AM Received: 10-SEP-20 By: DG AOC1-MW10-20200909						
JD12971-4	SW846 6010D	15-SEP-20 20:23	MET	14-SEP-20	TG	AL,AS,BE,CD,NI,PB,V,ZN
JD12971-4	SW846 6020B	16-SEP-20 20:04	NV	14-SEP-20	TG	CUMS
JD12971-5 Collected: 09-SEP-20 15:05 By: DL Received: 10-SEP-20 By: DG AOC1-MW06-20200909						
JD12971-5	SW846 6010D	15-SEP-20 20:28	MET	14-SEP-20	TG	AL,AS,BE,CD,NI,PB,V,ZN
JD12971-5	SW846 6020B	16-SEP-20 20:09	NV	14-SEP-20	TG	CUMS
JD12971-6 Collected: 08-SEP-20 14:35 By: AM Received: 10-SEP-20 By: DG AOC1-MW11-20200908						
JD12971-6	SW846 6010D	15-SEP-20 12:57	MET	14-SEP-20	TG	CD,V,ZN
JD12971-6	SW846 6010D	15-SEP-20 14:12	MET	14-SEP-20	TG	AL,BE
JD12971-6	SW846 6020B	16-SEP-20 19:39	NV	14-SEP-20	TG	CUMS
JD12971-6	SW846 6010D	17-SEP-20 11:56	ND	14-SEP-20	TG	AS,NI,PB
JD12971-7 Collected: 08-SEP-20 15:45 By: DL Received: 10-SEP-20 By: DG AOC1-MW13-20200908						

Internal Sample Tracking Chronicle

APTIM

Job No: JD12971

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631012814.002

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD12971-7	SW846 6010D	15-SEP-20 20:33	MET	14-SEP-20	TG	AL,BE,CD,NI,V,ZN
JD12971-7	SW846 6020B	16-SEP-20 20:14	NV	14-SEP-20	TG	CUMS
JD12971-7	SW846 6010D	17-SEP-20 12:53	ND	14-SEP-20	TG	AS,PB
JD12971-8 Collected: 09-SEP-20 11:55 By: DL Received: 10-SEP-20 By: DG AOC1-MW08-20200909						
JD12971-8	SW846 6010D	15-SEP-20 20:38	MET	14-SEP-20	TG	AL,AS,BE,CD,NI,PB,V,ZN
JD12971-8	SW846 6020B	16-SEP-20 20:19	NV	14-SEP-20	TG	CUMS
JD12971-9 Collected: 08-SEP-20 12:00 By: DL Received: 10-SEP-20 By: DG NH-14S-20200908_FD						
JD12971-9	SW846 6020B	16-SEP-20 20:24	NV	14-SEP-20	TG	CUMS
JD12971-9	SW846 6010D	17-SEP-20 13:08	ND	14-SEP-20	TG	AL,CD,NI,V,ZN
JD12971-9	SW846 6010D	18-SEP-20 18:15	GT	14-SEP-20	TG	AS,BE,PB
JD12971-10 Collected: 08-SEP-20 12:00 By: DL Received: 10-SEP-20 By: DG NH-14S-20200908						
JD12971-10	SW846 6020B	16-SEP-20 20:29	NV	14-SEP-20	TG	CUMS
JD12971-10	SW846 6010D	17-SEP-20 13:14	ND	14-SEP-20	TG	AL,CD,V,ZN
JD12971-10	SW846 6010D	18-SEP-20 18:25	GT	14-SEP-20	TG	AS,BE,NI,PB
JD12971-11 Collected: 10-SEP-20 07:05 By: DL Received: 10-SEP-20 By: DG AOC1-MW17-20200910						
JD12971-11	SW846 6020B	16-SEP-20 20:34	NV	14-SEP-20	TG	CUMS
JD12971-11	SW846 6010D	17-SEP-20 13:20	ND	14-SEP-20	TG	AL,BE
JD12971-11	SW846 6010D	18-SEP-20 18:35	GT	14-SEP-20	TG	AS,CD,NI,PB,V,ZN
JD12971-12 Collected: 09-SEP-20 15:05 By: AM Received: 10-SEP-20 By: DG AOC1-MW02-20200909						
JD12971-12	SW846 6010D	17-SEP-20 13:25	ND	14-SEP-20	TG	AL,AS,BE,CD,CU,NI,PB,V,ZN
JD12971-13 Collected: 08-SEP-20 15:55 By: AM Received: 10-SEP-20 By: DG AOC1-MW12-20200908						
JD12971-13	SW846 6020B	16-SEP-20 20:55	NV	14-SEP-20	TG	CUMS

Internal Sample Tracking Chronicle

APTIM

Job No: JD12971

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631012814.002

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD12971-13	SW846 6010D	17-SEP-20 13:30	ND	14-SEP-20	TG	AL,AS,BE,CD,V,ZN
JD12971-13	SW846 6010D	22-SEP-20 19:22	GT	14-SEP-20	TG	NI,PB
JD12971-14	Collected: 08-SEP-20 11:30 By: AM AOC7-MW01-SB1-20200908		Received: 10-SEP-20 By: DG			
JD12971-14	SW846 6010D	17-SEP-20 13:35	ND	14-SEP-20	TG	AL,AS,BE,CD,CU,NI,PB,V,ZN
JD12971-15	Collected: 08-SEP-20 14:45 By: DL AOC1-MW14-20200908		Received: 10-SEP-20 By: DG			
JD12971-15	SW846 6020B	16-SEP-20 21:00	NV	14-SEP-20	TG	CUMS
JD12971-15	SW846 6010D	17-SEP-20 13:41	ND	14-SEP-20	TG	AL,BE
JD12971-15	SW846 6010D	18-SEP-20 19:01	GT	14-SEP-20	TG	AS,CD,V,ZN
JD12971-15	SW846 6010D	22-SEP-20 19:27	GT	14-SEP-20	TG	NI,PB
JD12971-16	Collected: 10-SEP-20 10:35 By: AM AOC1-MW07-20200910		Received: 10-SEP-20 By: DG			
JD12971-16	SW846 6010D	17-SEP-20 13:46	ND	14-SEP-20	TG	AL,AS,BE,CD,CU,NI,PB,V,ZN
JD12971-17	Collected: 10-SEP-20 11:30 By: AM AOC1-MW15-20200910		Received: 10-SEP-20 By: DG			
JD12971-17	SW846 6020B	16-SEP-20 21:10	NV	14-SEP-20	TG	CUMS
JD12971-17	SW846 6010D	17-SEP-20 13:51	ND	14-SEP-20	TG	AL,AS,BE,CD,NI,PB,V,ZN
JD12971-18	Collected: 10-SEP-20 11:55 By: AM SW-WEIR-W5-20200910		Received: 10-SEP-20 By: DG			
JD12971-18	SW846 6020B	16-SEP-20 21:15	NV	14-SEP-20	TG	CUMS
JD12971-18	SW846 6010D	17-SEP-20 14:06	ND	14-SEP-20	TG	AL,BE
JD12971-18	SW846 6010D	18-SEP-20 19:11	GT	14-SEP-20	TG	AS,CD,SE,ZN
JD12971-18	SW846 6010D	22-SEP-20 19:32	GT	14-SEP-20	TG	NI,PB,TL
JD12971-18F	Collected: 10-SEP-20 11:55 By: AM SW-WEIR-W5-20200910		Received: 10-SEP-20 By: DG			
JD12971-18F	SW846 6020B	16-SEP-20 21:20	NV	14-SEP-20	TG	CUMS
JD12971-18F	SW846 6010D	17-SEP-20 14:11	ND	14-SEP-20	TG	AL,BE

Internal Sample Tracking Chronicle

APTIM

Job No: JD12971

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631012814.002

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD12971-18E	SW846 6010D	18-SEP-20 19:21	GT	14-SEP-20	TG	AS,CD,SE
JD12971-18E	SW846 6010D	22-SEP-20 19:37	GT	14-SEP-20	TG	NI,PB,TL,ZN

QC Evaluation: CT RCP Limits

Job Number: JD12971
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 09/08/20 thru 09/10/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No CT RCP Limits Found.

* Sample used for QC is not from job JD12971

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD12971
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP22756
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/20

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8.1	46	2.1	<200
Antimony	6.0	2.1	4.7		
Arsenic	3.0	1.5	2.8	1.0	<3.0
Barium	200	.3	13		
Beryllium	1.0	.1	.5	0.0	<1.0
Bismuth	20	1.6	4		
Boron	100	2.7	63		
Cadmium	3.0	.2	1	0.0	<3.0
Calcium	5000	3.8	99		
Cerium	100				
Chromium	10	.1	2		
Cobalt	50	.2	2.6		
Copper	10	.4	5.9	1.8	<10
Iron	100	1.3	32		
Lead	3.0	.9	1.8	0.20	<3.0
Lithium	50	1.6	7.3		
Magnesium	5000	21	140		
Manganese	15	.1	1.4		
Molybdenum	20	.2	3.6		
Nickel	10	.2	1.7	-0.90	<10
Phosphorus	50	2.5	18		
Potassium	10000	23	200		
Selenium	10	1.7	4.9	-1.8	<10
Silicon	200	.9	100		
Silver	10	.4	1.9		
Sodium	10000	8.6	570		
Strontium	10	.1	1		
Sulfur	50	4.2	45		
Thallium	10	2.3	1.8	-1.8	<10
Tin	10	1.1	3.7		
Titanium	10	.3	2.5		
Tungsten	50	1.1	40		
Vanadium	50	.3	1.8	-0.30	<50

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD12971
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP22756
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/20

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.2	6.9	1.2	<20
Zirconium	10	.1	4.1		

Associated samples MP22756: JD12971-1, JD12971-2, JD12971-3, JD12971-4, JD12971-5, JD12971-6, JD12971-7, JD12971-8, JD12971-9, JD12971-10, JD12971-11, JD12971-12, JD12971-13, JD12971-14, JD12971-15, JD12971-16, JD12971-17, JD12971-18, JD12971-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD12971
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP22756
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/20

Metal	JD12971-6 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	23.7	24800	25000	99.1	75-125
Antimony					
Arsenic	0.0	2240	2000	112.0	75-125
Barium	anr				
Beryllium	0.0	1920	2000	96.0	75-125
Bismuth					
Boron					
Cadmium	0.60	2130	2000	106.5	75-125
Calcium					
Cerium					
Chromium	anr				
Cobalt					
Copper	28.1	1990	2000	98.1	75-125
Iron					
Lead	0.0	2160	2000	108.0	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel	87.7	2260	2000	108.6	75-125
Phosphorus					
Potassium					
Selenium	0.0	2220	2000	111.0	75-125
Silicon					
Silver	anr				
Strontium					
Sulfur					
Thallium	0.0	2140	2000	107.0	75-125
Tin					
Titanium					
Tungsten					
Vanadium	15.3	1950	2000	96.7	75-125
Zinc	255	2150	2000	94.8	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD12971
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP22756
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/20

Metal	JD12971-6 Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP22756: JD12971-1, JD12971-2, JD12971-3, JD12971-4, JD12971-5, JD12971-6, JD12971-7, JD12971-8, JD12971-9, JD12971-10, JD12971-11, JD12971-12, JD12971-13, JD12971-14, JD12971-15, JD12971-16, JD12971-17, JD12971-18, JD12971-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD12971
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP22756
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date:					09/14/20				09/14/20	
Metal	JD12971-6 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit	JD12971-6 Original	DUP	RPD	QC Limits
Aluminum	23.7	24700	25000	98.7	0.4	20	23.7	72.3	101.3(a)	0-20
Antimony										
Arsenic	0.0	2210	2000	110.5	1.3	20				
Barium	anr									
Beryllium	0.0	1910	2000	95.5	0.5	20	0.0	0.0	NC	0-20
Bismuth										
Boron										
Cadmium	0.60	2130	2000	106.5	0.0	20	0.60	0.70	15.4	0-20
Calcium										
Cerium										
Chromium	anr									
Cobalt										
Copper	28.1	1990	2000	98.1	0.0	20	28.1	29.7	5.5	0-20
Iron										
Lead	0.0	2150	2000	107.5	0.5	20	0.0	0.00	NC	0-20
Lithium										
Magnesium										
Manganese										
Molybdenum										
Nickel	87.7	2260	2000	108.6	0.0	20	87.7	87.7	0.0	0-20
Phosphorus										
Potassium										
Selenium	0.0	2190	2000	109.5	1.4	20	0.0	0.00	NC	0-20
Silicon										
Silver	anr									
Strontium										
Sulfur										
Thallium	0.0	2100	2000	105.0	1.9	20	0.0	0.0	NC	0-20
Tin										
Titanium										
Tungsten										
Vanadium	15.3	1940	2000	96.2	0.5	20	15.3	16.1	5.1	0-20
Zinc	255	2140	2000	94.3	0.5	20	255	263	3.1	0-20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD12971
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP22756
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date:				09/14/20			09/14/20	
Metal	JD12971-6 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit	JD12971-6 Original DUP	RPD	QC Limits
Zirconium								

Associated samples MP22756: JD12971-1, JD12971-2, JD12971-3, JD12971-4, JD12971-5, JD12971-6, JD12971-7, JD12971-8, JD12971-9, JD12971-10, JD12971-11, JD12971-12, JD12971-13, JD12971-14, JD12971-15, JD12971-16, JD12971-17, JD12971-18, JD12971-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD12971
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP22756
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/20

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	24200	25000	96.8	80-120
Antimony				
Arsenic	1880	2000	94.0	80-120
Barium	anr			
Beryllium	1920	2000	96.0	80-120
Bismuth				
Boron				
Cadmium	1900	2000	95.0	80-120
Calcium				
Cerium				
Chromium	anr			
Cobalt				
Copper	1940	2000	97.0	80-120
Iron				
Lead	1930	2000	96.5	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	1940	2000	97.0	80-120
Phosphorus				
Potassium				
Selenium	1900	2000	95.0	80-120
Silicon				
Silver	anr			
Sodium				
Strontium				
Sulfur				
Thallium	2000	2000	100.0	80-120
Tin				
Titanium				
Tungsten				
Vanadium	1970	2000	98.5	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD12971
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP22756
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/20

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zinc	1930	2000	96.5	80-120
Zirconium				

Associated samples MP22756: JD12971-1, JD12971-2, JD12971-3, JD12971-4, JD12971-5, JD12971-6, JD12971-7, JD12971-8, JD12971-9, JD12971-10, JD12971-11, JD12971-12, JD12971-13, JD12971-14, JD12971-15, JD12971-16, JD12971-17, JD12971-18, JD12971-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD12971
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP22756
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/20

Metal	JD12971-6 Original	SDL 1:5	%DIF	QC Limits
Aluminum	23.7	123	416.9(a)	0-10
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	0.00	0.600	NC	0-10
Bismuth				
Boron				
Cadmium	0.600	0.00	100.0(a)	0-10
Calcium				
Cerium				
Chromium	anr			
Cobalt				
Copper	28.1	27.9	0.7	0-10
Iron				
Lead	0.00	0.00	NC	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	87.7	72.3	17.6 (a)	0-10
Phosphorus				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	anr			
Sodium				
Strontium				
Sulfur				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Tungsten				
Vanadium	15.3	17.5	14.4*(b)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD12971
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP22756
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/20

Metal	JD12971-6 Original	SDL 1:5	%DIF	QC Limits
Zinc	255	313	22.6*(b)	0-10
Zirconium				

Associated samples MP22756: JD12971-1, JD12971-2, JD12971-3, JD12971-4, JD12971-5, JD12971-6, JD12971-7, JD12971-8, JD12971-9, JD12971-10, JD12971-11, JD12971-12, JD12971-13, JD12971-14, JD12971-15, JD12971-16, JD12971-17, JD12971-18, JD12971-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD12971
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP22756A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 09/14/20

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.83	32		
Antimony	4.0	.17	1.7		
Arsenic	1.0	.05	.94		
Barium	2.0	.018	.73		
Beryllium	1.0	.01	.15		
Boron	50	1.7	14		
Cadmium	1.0	.02	.17		
Calcium	500	7.2	64		
Chromium	2.0	.036	.62		
Cobalt	1.0	.006	.17		
Copper	4.0	.048	1.9	-0.0014	<4.0
Iron	50	.47	19		
Lead	1.0	.016	.52		
Magnesium	500	.38	46		
Manganese	2.0	.024	.63		
Molybdenum	2.0	.034	.45		
Nickel	2.0	.034	.95		
Potassium	500	1.6	68		
Selenium	1.0	.088	.55		
Silver	1.0	.008	.16		
Sodium	500	3	140		
Strontium	10	.028	2.4		
Thallium	1.0	.004	.17		
Tin	10	.082	2.6		
Titanium	2.0	.22	1.6		
Vanadium	2.0	.026	1.8		
Zinc	10	.16	5.4		

Associated samples MP22756A: JD12971-4, JD12971-5, JD12971-6, JD12971-7, JD12971-8, JD12971-9, JD12971-10, JD12971-11, JD12971-13, JD12971-15, JD12971-17, JD12971-18, JD12971-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD12971
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP22756A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 09/14/20

Metal	JD12971-6 Original	MS	Spikelot MP6020AQ3%	Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper	30.8	104	80	91.5	75-125
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc					

Associated samples MP22756A: JD12971-4, JD12971-5, JD12971-6, JD12971-7, JD12971-8, JD12971-9, JD12971-10, JD12971-11, JD12971-13, JD12971-15, JD12971-17, JD12971-18, JD12971-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD12971
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP22756A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 09/14/20

Metal	JD12971-6 Original	MSD	Spikelot MP6020AQ3%	Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper	30.8	98.4	80	84.5	5.5	20
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP22756A: JD12971-4, JD12971-5, JD12971-6, JD12971-7, JD12971-8, JD12971-9, JD12971-10, JD12971-11, JD12971-13, JD12971-15, JD12971-17, JD12971-18, JD12971-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD12971
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP22756A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 09/14/20

Metal	BSP Result	Spikelot MP6020AQ3	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	79.6	80	99.5	80-120
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP22756A: JD12971-4, JD12971-5, JD12971-6, JD12971-7, JD12971-8, JD12971-9, JD12971-10, JD12971-11, JD12971-13, JD12971-15, JD12971-17, JD12971-18, JD12971-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD12971
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP22756A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 09/14/20

Metal	JD12971-6 Original	SDL 10:50	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	30.8	33.4	8.2	0-10
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP22756A: JD12971-4, JD12971-5, JD12971-6, JD12971-7, JD12971-8, JD12971-9, JD12971-10, JD12971-11, JD12971-13, JD12971-15, JD12971-17, JD12971-18, JD12971-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

Data Usability Worksheet

Project Name :	NRG Norwalk	**Job Number :**	631020644.00521320
Prepared By:	Sushama S. Paranjape	**Reviewed Date :**	5/10/2021
Matrix:	Groundwater	**Laboratory ID No. :**	SGS JD24269 Issue date 5/06/2021
		Sampling Date :	4/29, 30/2021
Analyte Group :	Metals	**Analytical Method :**	EPA 6010D EPA 6020B

Completed Reasonable Confidence Protocols Certification Form included: Yes

Does the data package meet the requirements for "Reasonable Confidence"? Yes **Is it Complete ?** Yes

SGS laboratory certifies that all analysis were performed within method specifications and recommends that the report is to be used in its entirety: Yes

Chain of Custody included in Data Package ? Yes **Is it Complete ?** Yes

Sample Collection Date	Analysis	Allowable Holding Time for Extraction	Allowable Holding Time for Analysis	Preparetion/ Analysis Date
4/29, 30/2021	Metals, EPA 6010D, 6020B	NA	180 Days	5/05/2021

Sample Hold Times Met: Yes

Sample Temperature Within QC Limits (0°C to 6°C) : Yes, 2.9°C, 2.4°C

Surrogate Recovery
Are all % recoveries within the allowable range ? NA
If No, List sample ID where range was exceeded:

MS/MSD
Are all MS/MSD sample recoveries within the QC limits ? NA
If No, list sample ID, date and compound where limit was exceeded:

Laboratory Control Samples
Are all laboratory control sample recoveries within the QC limits ? Yes
If No, list sample ID where range was exceeded:

Equipment Field Blank ID (required events 1/20) **:** NA None was needed, thus none was collected.
Trip Blank ID (required every cooler w/VOC) **:** NA
Method Blank: Analysis Method and ID: Metals, 6010D QC Batch ID: MP26274, MP26280
Metals, 6020B QC Batch ID: MP26274A

Were any compounds identified in the method blank, field blank, or trip blank above detection limits ? No
If so, list Sample ID/Compound/Concentration/Units:

Method EPA 6010D Batch ID: MP26274
RPD(s) for Serial Dilutions for Nickel and Zinc are outside control limits for sample JD24218-4F.
Parent sample is not from this site, no qualification necessary.

Method EPA 6010D Batch ID: MP26280
RPD(s) for Serial Dilutions for Aluminum, Copper, Iron, Nickel, Vanadium, and Zinc are outside control limits for sample JD24264-5.
Parent sample is not from this site, no qualification necessary.

Method EPA 6020B Batch ID: MP26274A
RPD(s) for Serial Dilution for Copper is outside control limits for sample JD24218-4F.
Parent sample is not from this site, no qualification necessary.

Reviewed/Validated By: Sushama S. Paranjape **Date:** 5/10/2021

Field Duplicate (FD) ID (required 1/20 per parameter/matrix/procedure/team): FD collected with other SDG this event (JD24078)

Completed By: Andrea Steele **Date:** 5/12/2021

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

APTIM

NRG, One Manresa Island Road, Norwalk, CT

631012814.002

SGS Job Number: JD24269

Sampling Dates: 04/29/21 - 04/30/21

Report to:

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Total number of pages in report: 35

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Michelle Jenkins 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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SGS North America Inc.

Sample Summary

APTIM

Job No: JD24269

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631012814.002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD24269-1	04/29/21	10:15 AM		04/30/21	AQ	Ground Water	AOC1-MW08-20210429
JD24269-2	04/29/21	11:25 AM		04/30/21	AQ	Ground Water	AOC1-MW09-20210429
JD24269-3	04/29/21	13:00 AM		04/30/21	AQ	Ground Water	AOC1-MW10-20210429
JD24269-4	04/29/21	16:00 AM		04/30/21	AQ	Ground Water	AOC1-MW15-20210429
JD24269-5	04/30/21	10:50 AM		04/30/21	AQ	Ground Water	AOC1-MW16-20210430
JD24269-6	04/30/21	12:05 AM		04/30/21	AQ	Ground Water	AOC1-MW05R-20210430

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	APTIM	**Job No**	JD24269
Site:	NRG, One Manresa Island Road, Norwalk, CT	**Report Date**	5/6/2021 3:44:24 PM

On 04/30/2021, 6 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.9 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD24269 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP26274

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD24218-4FSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Nickel, Zinc are outside control limits for sample MP26274-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only report requested metals.

Matrix: AQ **Batch ID:** MP26280

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD24264-5SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Aluminum, Copper, Iron, Nickel, Vanadium are outside control limits for sample MP26280-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP26280-SD1 for Zinc: Serial dilution indicates possible matrix interference.
- Only report requested metals.

Metals Analysis By Method SW846 6020B

Matrix: AQ **Batch ID:** MP26274A

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD24218-4FSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Copper are outside control limits for sample MP26274A-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only report requested metals.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD24269
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 04/29/21 thru 04/30/21

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD24269-1	**AOC1-MW08-20210429**					
Aluminum		469	200	46	ug/l	SW846 6010D
Arsenic		14.1	3.0	2.8	ug/l	SW846 6010D
Copper		6.4	4.0	1.9	ug/l	SW846 6020B
Iron		590	100	32	ug/l	SW846 6010D
Nickel		14.2	10	1.7	ug/l	SW846 6010D
Vanadium		7.0 J	50	1.8	ug/l	SW846 6010D
Zinc		25.2	20	6.9	ug/l	SW846 6010D
JD24269-2	**AOC1-MW09-20210429**					
Aluminum		137 J	200	46	ug/l	SW846 6010D
Arsenic		8.7	3.0	2.8	ug/l	SW846 6010D
Iron		251	100	32	ug/l	SW846 6010D
Nickel		7.9 J	10	1.7	ug/l	SW846 6010D
Vanadium		10.0 J	50	1.8	ug/l	SW846 6010D
Zinc		12.4 J	20	6.9	ug/l	SW846 6010D
JD24269-3	**AOC1-MW10-20210429**					
Aluminum		101 J	200	46	ug/l	SW846 6010D
Arsenic		96.2	3.0	2.8	ug/l	SW846 6010D
Iron		11200	100	32	ug/l	SW846 6010D
Nickel		17.8	10	1.7	ug/l	SW846 6010D
Vanadium		7.5 J	50	1.8	ug/l	SW846 6010D
Zinc		7.5 J	20	6.9	ug/l	SW846 6010D
JD24269-4	**AOC1-MW15-20210429**					
Aluminum		3780	1000	230	ug/l	SW846 6010D
Copper		3.0 J	4.0	1.9	ug/l	SW846 6020B
Iron		3350	500	160	ug/l	SW846 6010D
Nickel		29.5 J	50	8.5	ug/l	SW846 6010D
Vanadium		31.0 J	250	9.0	ug/l	SW846 6010D
JD24269-5	**AOC1-MW16-20210430**					
Aluminum		1010	1000	230	ug/l	SW846 6010D
Iron		2560	500	160	ug/l	SW846 6010D
Nickel		13.5 J	50	8.5	ug/l	SW846 6010D
JD24269-6	**AOC1-MW05R-20210430**					
Aluminum		478	200	46	ug/l	SW846 6010D

Summary of Hits

Job Number: JD24269
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 04/29/21 thru 04/30/21

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Arsenic		7.0	3.0	2.8	ug/l	SW846 6010D
Beryllium		0.90 J	1.0	0.50	ug/l	SW846 6010D
Cadmium		1.1 J	3.0	1.0	ug/l	SW846 6010D
Iron		310	100	32	ug/l	SW846 6010D
Nickel		159	10	1.7	ug/l	SW846 6010D
Vanadium		12.6 J	50	1.8	ug/l	SW846 6010D
Zinc		273	20	6.9	ug/l	SW846 6010D

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	AOC1-MW08-20210429		
Lab Sample ID:	JD24269-1	**Date Sampled:**	04/29/21
Matrix:	AQ - Ground Water	**Date Received:**	04/30/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	469	200	46	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Arsenic	14.1	3.0	2.8	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Beryllium	0.50 U	1.0	0.50	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Cadmium	1.0 U	3.0	1.0	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Copper	6.4	4.0	1.9	ug/l	2	05/04/21	05/05/21	NV	SW846 6020B [1]	SW846 3010A [4]
Iron	590	100	32	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Lead	1.8 U	3.0	1.8	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Nickel	14.2	10	1.7	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Vanadium	7.0 J	50	1.8	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Zinc	25.2	20	6.9	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA50479
(2) Instrument QC Batch: MA50487
(3) Prep QC Batch: MP26274
(4) Prep QC Batch: MP26274A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW09-20210429		
Lab Sample ID:	JD24269-2	**Date Sampled:**	04/29/21
Matrix:	AQ - Ground Water	**Date Received:**	04/30/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	137 J	200	46	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Arsenic	8.7	3.0	2.8	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Beryllium	0.50 U	1.0	0.50	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Cadmium	1.0 U	3.0	1.0	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Copper	1.9 U	4.0	1.9	ug/l	2	05/04/21	05/05/21	NV	SW846 6020B [1]	SW846 3010A [4]
Iron	251	100	32	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Lead	1.8 U	3.0	1.8	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Nickel	7.9 J	10	1.7	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Vanadium	10.0 J	50	1.8	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Zinc	12.4 J	20	6.9	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA50479
(2) Instrument QC Batch: MA50487
(3) Prep QC Batch: MP26274
(4) Prep QC Batch: MP26274A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW10-20210429		
Lab Sample ID:	JD24269-3	**Date Sampled:**	04/29/21
Matrix:	AQ - Ground Water	**Date Received:**	04/30/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	101 J	200	46	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Arsenic	96.2	3.0	2.8	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Beryllium	0.50 U	1.0	0.50	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Cadmium	1.0 U	3.0	1.0	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Copper	1.9 U	4.0	1.9	ug/l	2	05/04/21	05/05/21	NV	SW846 6020B [1]	SW846 3010A [4]
Iron	11200	100	32	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Lead	1.8 U	3.0	1.8	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Nickel	17.8	10	1.7	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Vanadium	7.5 J	50	1.8	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Zinc	7.5 J	20	6.9	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA50479
(2) Instrument QC Batch: MA50487
(3) Prep QC Batch: MP26274
(4) Prep QC Batch: MP26274A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW15-20210429		
Lab Sample ID:	JD24269-4	**Date Sampled:**	04/29/21
Matrix:	AQ - Ground Water	**Date Received:**	04/30/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	3780	1000	230	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Arsenic	14 U	15	14	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Beryllium	2.5 U	5.0	2.5	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Cadmium	5.0 U	15	5.0	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Copper	3.0 J	4.0	1.9	ug/l	2	05/04/21	05/05/21	NV	SW846 6020B [1]	SW846 3010A [4]
Iron	3350	500	160	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Lead	9.0 U	15	9.0	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Nickel	29.5 J	50	8.5	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Vanadium	31.0 J	250	9.0	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]
Zinc	35 U	100	35	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA50479
(2) Instrument QC Batch: MA50487
(3) Prep QC Batch: MP26274
(4) Prep QC Batch: MP26274A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW16-20210430		
Lab Sample ID:	JD24269-5	**Date Sampled:**	04/30/21
Matrix:	AQ - Ground Water	**Date Received:**	04/30/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1010	1000	230	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [1]	SW846 3010A [2]
Arsenic	14 U	15	14	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [1]	SW846 3010A [2]
Beryllium	2.5 U	5.0	2.5	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [1]	SW846 3010A [2]
Cadmium	5.0 U	15	5.0	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [1]	SW846 3010A [2]
Copper	30 U	50	30	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [1]	SW846 3010A [2]
Iron	2560	500	160	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [1]	SW846 3010A [2]
Lead	9.0 U	15	9.0	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [1]	SW846 3010A [2]
Nickel	13.5 J	50	8.5	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [1]	SW846 3010A [2]
Vanadium	9.0 U	250	9.0	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [1]	SW846 3010A [2]
Zinc	35 U	100	35	ug/l	1	05/04/21	05/05/21	LL	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA50487
(2) Prep QC Batch: MP26274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW05R-20210430		
Lab Sample ID:	JD24269-6	**Date Sampled:**	04/30/21
Matrix:	AQ - Ground Water	**Date Received:**	04/30/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	478	200	46	ug/l	1	05/04/21	05/05/21	ND	SW846 6010D [1]	SW846 3010A [2]
Arsenic	7.0	3.0	2.8	ug/l	1	05/04/21	05/05/21	ND	SW846 6010D [1]	SW846 3010A [2]
Beryllium	0.90 J	1.0	0.50	ug/l	1	05/04/21	05/05/21	ND	SW846 6010D [1]	SW846 3010A [2]
Cadmium	1.1 J	3.0	1.0	ug/l	1	05/04/21	05/05/21	ND	SW846 6010D [1]	SW846 3010A [2]
Copper	5.9 U	10	5.9	ug/l	1	05/04/21	05/05/21	ND	SW846 6010D [1]	SW846 3010A [2]
Iron	310	100	32	ug/l	1	05/04/21	05/05/21	ND	SW846 6010D [1]	SW846 3010A [2]
Lead	1.8 U	3.0	1.8	ug/l	1	05/04/21	05/05/21	ND	SW846 6010D [1]	SW846 3010A [2]
Nickel	159	10	1.7	ug/l	1	05/04/21	05/05/21	ND	SW846 6010D [1]	SW846 3010A [2]
Vanadium	12.6 J	50	1.8	ug/l	1	05/04/21	05/05/21	ND	SW846 6010D [1]	SW846 3010A [2]
Zinc	273	20	6.9	ug/l	1	05/04/21	05/05/21	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA50488
(2) Prep QC Batch: MP26280

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

SGS GW

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

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FED-EX Tracking # 7364 4370 3764
SGS Quote # NRG-CT account pricing 10/2016
Bottle Order Control # TF-041621-113
SGS Job # JD24269

Client / Reporting Information

Company Name: APTIM
Street Address: 150 Royall St.
City State Zip: Canton, MA 02021
Project Contact E-mail: Andrea.Steele@aptim.com
Phone #: 774-573-9090
Sampler(s) Name(s) Phone #: Austin Magnant 774-551-6197

Project Information

Project Name: NRG-Norwalk
Street: One Manresa Island Rd.
City State: South Norwalk CT
Project #: 631012814.002
Client Purchase Order #: N/A
Project Manager: Andrew.Walker@aptim.com

Billing Information (if different from Report to)
Company Name
Street Address
City State Zip
Attention:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	Total Al As Be Cd Pb Ni V Zn (Method 6010) and Total Cu (Method 6020)	Total Al As Be Cd Pb Ni V Zn (Method 6010)	LAB USE ONLY
1	AOCI-MW08-20210429	NA	04-29-21	1015	AM	G	GW	1			1						X		
2	AOCI-MW09-20210429	NA	04-29-21	1125	AM	G	GW	1			1						X		A16
3	AOCI-MW10-20210429	NA	04-29-21	1300	AM	G	GW	1			1						X		
4	AOCI-MW15-20210429	NA	04-29-21	1600	AM	G	GW	1			1						X		
5	AOCI-MW16-20210430	NA	04-30-21	1050	AM	G	GW	1			1						X	X	
6	AOCI-MW05R-20210430	NA	04-30-21	1205	AM	G	GW	1			1							X	

INITIAL ASESSMENT KG 2A

LABEL VERIFICATION

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other
- All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [X] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [X] CT RCP Criteria CT SWPC and CT WQC
- [ ] State Forms
- [X] EDD Format EQuIS
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Report metals results to MDL.
QA/QC Reporting: CT RCP and Site-Specific QAPP.
Please email EQuIS formatted EDD to catherine.joe@aptim.com and lisa.george@aptim.com.

SGS-ACCUTEST MARLBOR 4130

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by	Date / Time	Received By	Relinquished By	Date / Time	Received By
1	4-30-21 1650	1	2	4/30/21 1800	2 Fedex
3 Fedex	5/1/21 9:45	3	4		4
5		5			

Custody Seal # 02294 [ ] Intact [ ] Not Intact
Preserved where applicable [ ] Absent
Therm. ID:
On Ice
Cooler Temp. °C 3.6 CTP 3.1 CTP

JD24269: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD24269 **Client:** APTIM **Project:** NRG, ONE MANRESA ISLAND ROAD, NORWAL

Date / Time Received: 4/30/2021 4:50:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.6); Cooler 2: (3.1);

Cooler Temps (Corrected) °C: Cooler 1: (2.9); Cooler 2: (2.4);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	IR Gun
3. Cooler media:	Ice (Bag)
4. No. Coolers:	2

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify) _____ _____

Comments

SM089-03
Rev. Date 12/7/17

JD24269: Chain of Custody
Page 2 of 2

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **APTIM**

Project Location: **NRG, One Manresa Island Road, Norwalk, CT** **Project Number:** **631217784.01021320 / P-CARD**

Sampling Date(s): **4/29/2021**

Laboratory Sample ID(s): JD24269-1, JD24269-2, JD24269-3, JD24269-4, JD24269-5, JD24269-6

Methods: SW846 6010D, SW846 6020B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☑ No ☐
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☐ No ☑

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Caitlin Brice Position: General Manager

Printed Name: Caitlin Brice Date: 5/6/2021

Internal Sample Tracking Chronicle

APTIM

Job No: JD24269

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631012814.002

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD24269-1 Collected: 29-APR-21 10:15 By: AM Received: 30-APR-21 By: DDH AOC1-MW08-20210429						
JD24269-1	SW846 6020B	05-MAY-21 01:53	NV	04-MAY-21	MS	CUMS
JD24269-1	SW846 6010D	05-MAY-21 16:09	LL	04-MAY-21	MS	AL,AS,BE,CD,FE,NI,PB,V,ZN
JD24269-2 Collected: 29-APR-21 11:25 By: AM Received: 30-APR-21 By: DDH AOC1-MW09-20210429						
JD24269-2	SW846 6020B	05-MAY-21 01:59	NV	04-MAY-21	MS	CUMS
JD24269-2	SW846 6010D	05-MAY-21 16:14	LL	04-MAY-21	MS	AL,AS,BE,CD,FE,NI,PB,V,ZN
JD24269-3 Collected: 29-APR-21 13:00 By: AM Received: 30-APR-21 By: DDH AOC1-MW10-20210429						
JD24269-3	SW846 6020B	05-MAY-21 02:04	NV	04-MAY-21	MS	CUMS
JD24269-3	SW846 6010D	05-MAY-21 16:30	LL	04-MAY-21	MS	AL,AS,BE,CD,FE,NI,PB,V,ZN
JD24269-4 Collected: 29-APR-21 16:00 By: AM Received: 30-APR-21 By: DDH AOC1-MW15-20210429						
JD24269-4	SW846 6020B	05-MAY-21 02:09	NV	04-MAY-21	MS	CUMS
JD24269-4	SW846 6010D	05-MAY-21 16:35	LL	04-MAY-21	MS	AL,AS,BE,CD,FE,NI,PB,V,ZN
JD24269-5 Collected: 30-APR-21 10:50 By: AM Received: 30-APR-21 By: DDH AOC1-MW16-20210430						
JD24269-5	SW846 6010D	05-MAY-21 16:40	LL	04-MAY-21	MS	AL,AS,BE,CD,CU,FE,NI,PB,V,ZN
JD24269-6 Collected: 30-APR-21 12:05 By: AM Received: 30-APR-21 By: DDH AOC1-MW05R-20210430						
JD24269-6	SW846 6010D	05-MAY-21 21:33	ND	04-MAY-21	MS	AL,AS,BE,CD,CU,FE,NI,PB,V,ZN

QC Evaluation: CT RCP Limits

Job Number: JD24269
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 04/29/21 thru 04/30/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No CT RCP Limits Found.

* Sample used for QC is not from job JD24269

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD24269
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26274
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/04/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	46	3.9	<200
Antimony	6.0	2.5	4.7		
Arsenic	3.0	2	2.8	1.1	<3.0
Barium	200	.4	13		
Beryllium	1.0	.1	.5	-0.10	<1.0
Bismuth	20	3.6	4		
Boron	100	1.9	63		
Cadmium	3.0	.4	1	0.0	<3.0
Calcium	5000	5.6	99		
Cerium	100				
Chromium	10	.5	2		
Cobalt	50	.5	2.6		
Copper	10	1	5.9	-1.3	<10
Iron	100	11	32	-0.10	<100
Lead	3.0	1.2	1.8	-0.10	<3.0
Lithium	50	2.3	7.3		
Magnesium	5000	65	140		
Manganese	15	.2	1.4		
Molybdenum	20	.4	3.6		
Nickel	10	.3	1.7	0.0	<10
Phosphorus	50	4.1	18		
Potassium	10000	55	200		
Selenium	10	3.5	4.9		
Silicon	200	1.6	100		
Silver	10	1.1	1.9		
Sodium	10000	11	570		
Strontium	10	.1	1		
Sulfur	50	4.4	45		
Thallium	10	2.5	1.8		
Tin	10	1	3.7		
Titanium	10	.4	2.5		
Tungsten	50	2.8	40		
Vanadium	50	.6	1.8	0.20	<50

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD24269
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26274
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/04/21

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.1	6.9	0.60	<20
Zirconium	10	.4	4.1		

Associated samples MP26274: JD24269-1, JD24269-2, JD24269-3, JD24269-4, JD24269-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD24269
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26274
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/04/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	24200	25000	96.8	80-120
Antimony	anr			
Arsenic	1910	2000	95.5	80-120
Barium	anr			
Beryllium	1980	2000	99.0	80-120
Bismuth				
Boron				
Cadmium	1890	2000	94.5	80-120
Calcium	anr			
Cerium				
Chromium	anr			
Cobalt	anr			
Copper	1900	2000	95.0	80-120
Iron	25000	25000	100.0	80-120
Lead	2020	2000	101.0	80-120
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	2050	2000	102.5	80-120
Phosphorus				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium	1930	2000	96.5	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD24269
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26274
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/04/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zinc	1950	2000	97.5	80-120
Zirconium				

Associated samples MP26274: JD24269-1, JD24269-2, JD24269-3, JD24269-4, JD24269-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD24269
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26274
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/04/21

Metal	JD24218-4F Original	SDL 1:5	%DIF	QC Limits
Aluminum	0.00	0.00	NC	0-10
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	0.00	0.00	NC	0-10
Bismuth				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Cerium				
Chromium	anr			
Cobalt	anr			
Copper	0.00	0.00	NC	0-10
Iron	108	98.7	8.9	0-10
Lead	0.00	0.00	NC	0-10
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	0.400	0.00	100.0(a)	0-10
Phosphorus				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium	0.00	0.00	NC	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD24269
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26274
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/04/21

Metal	JD24218-4F Original	SDL 1:5	%DIF	QC Limits
Zinc	2.20	4.20	90.9 (a)	0-10
Zirconium				

Associated samples MP26274: JD24269-1, JD24269-2, JD24269-3, JD24269-4, JD24269-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD24269
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26274A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 05/04/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.83	32		
Antimony	4.0	.17	1.7		
Arsenic	1.0	.05	.94		
Barium	2.0	.018	.73		
Beryllium	1.0	.01	.15		
Boron	50	1.7	14		
Cadmium	1.0	.02	.17		
Calcium	500	7.2	64		
Chromium	2.0	.036	.62		
Cobalt	1.0	.006	.17		
Copper	4.0	.048	1.9	0.24	<4.0
Iron	50	.47	19		
Lead	1.0	.016	.52		
Magnesium	500	.38	46		
Manganese	2.0	.024	.63		
Molybdenum	2.0	.034	.45		
Nickel	2.0	.034	.95		
Potassium	500	1.6	68		
Selenium	1.0	.088	.55		
Silver	1.0	.008	.16		
Sodium	500	3	140		
Strontium	10	.028	2.4		
Thallium	1.0	.004	.17		
Tin	10	.082	2.6		
Titanium	2.0	.22	1.6		
Vanadium	2.0	.026	1.8		
Zinc	10	.16	5.4		

Associated samples MP26274A: JD24269-1, JD24269-2, JD24269-3, JD24269-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD24269
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26274A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 05/04/21

Metal	BSP Result	Spikelot MP6020AQ3	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	69.7	80	87.1	80-120
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP26274A: JD24269-1, JD24269-2, JD24269-3, JD24269-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD24269
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26274A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 05/04/21

Metal	JD24218-4F Original	SDL 2:10	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	0.956	0.822	14.1 (a)	0-10
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP26274A: JD24269-1, JD24269-2, JD24269-3, JD24269-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD24269
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26280
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/04/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	17	46	-6.5	<200
Antimony	6.0	1.7	4.7		
Arsenic	3.0	2.1	2.8	-0.30	<3.0
Barium	200	.8	13		
Beryllium	1.0	.3	.5	-0.10	<1.0
Bismuth	20	2.3	4		
Boron	100	2.3	63		
Cadmium	3.0	.3	1	0.10	<3.0
Calcium	5000	6.6	99		
Cerium	100				
Chromium	10	.3	2		
Cobalt	50	.4	2.6		
Copper	10	.8	5.9	-0.80	<10
Iron	100	5.3	32	5.5	<100
Lead	3.0	1.1	1.8	0.40	<3.0
Lithium	50	4.8	7.3		
Magnesium	5000	32	140		
Manganese	15	.1	1.4		
Molybdenum	20	.6	3.6		
Nickel	10	.4	1.7	-0.30	<10
Phosphorus	50	1.2	18		
Potassium	10000	77	200		
Selenium	10	3.2	4.9		
Silicon	200	1.7	100		
Silver	10	1	1.9		
Sodium	10000	34	570		
Strontium	10	.3	1		
Sulfur	50	3	45		
Thallium	10	1.8	1.8		
Tin	10	.8	3.7		
Titanium	10	.5	2.5		
Tungsten	50	2.6	40		
Vanadium	50	.6	1.8	0.0	<50

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD24269
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26280
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/04/21

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.1	6.9	-0.20	<20
Zirconium	10	.3	4.1		

Associated samples MP26280: JD24269-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD24269
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26280
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date:			05/04/21				05/04/21	
Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	25900	25000	103.6	80-120	25600	25000	102.4	80-120
Antimony	anr							
Arsenic	1940	2000	97.0	80-120	1930	2000	96.5	80-120
Barium	anr							
Beryllium	2010	2000	100.5	80-120	2020	2000	101.0	80-120
Bismuth								
Boron								
Cadmium	1990	2000	99.5	80-120	1980	2000	99.0	80-120
Calcium	anr							
Cerium								
Chromium	anr							
Cobalt	anr							
Copper	2000	2000	100.0	80-120	1980	2000	99.0	80-120
Iron	25200	25000	100.8	80-120	25000	25000	100.0	80-120
Lead	2040	2000	102.0	80-120	2040	2000	102.0	80-120
Lithium								
Magnesium	anr							
Manganese	anr							
Molybdenum								
Nickel	2030	2000	101.5	80-120	2020	2000	101.0	80-120
Phosphorus								
Potassium	anr							
Selenium	anr							
Silicon								
Silver	anr							
Sodium	anr							
Strontium								
Sulfur								
Thallium	anr							
Tin								
Titanium								
Tungsten								
Vanadium	2000	2000	100.0	80-120	1990	2000	99.5	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD24269
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26280
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date:		05/04/21				05/04/21		
Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zinc	2010	2000	100.5	80-120	2000	2000	100.0	80-120
Zirconium								

Associated samples MP26280: JD24269-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD24269
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26280
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/04/21

Metal	JD24264-5 Original	SDL 1:5	%DIF	QC Limits
Aluminum	114	0.00	100.0(a)	0-10
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	0.00	0.00	NC	0-10
Bismuth				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Cerium				
Chromium	anr			
Cobalt	anr			
Copper	2.30	0.00	100.0(a)	0-10
Iron	60.0	74.1	23.5 (a)	0-10
Lead	0.00	0.00	NC	0-10
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	1.40	0.00	100.0(a)	0-10
Phosphorus				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	0.900	0.00	100.0(a)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD24269
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26280
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/04/21

Metal	JD24264-5 Original	SDL 1:5	%DIF	QC Limits
Zinc	75.2	56.3	25.1*(b)	0-10
Zirconium				

Associated samples MP26280: JD24269-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

Data Usability Worksheet

Project Name : NRG Norwalk

Job Number : 631012814.00321320

Prepared By: Sushama S. Paranjape

Reviewed Date : 8/07/2021

Matrix: Groundwater

Laboratory ID No. : SGS JD27374
Issue date 7/09/2021

Sampling Date : 6/24, 25/2021

Analyte Group : Metals

Analytical Method : EPA 6010D
EPA 6020B

Completed Reasonable Confidence Protocols Certification Form included: Yes

Does the data package meet the requirements for "Reasonable Confidence"? Yes

Is it Complete ? Yes

SGS laboratory certifies that all analysis were performed within method specifications and recommends that the report is to be used in its entirety: Yes

Chain of Custody included in Data Package ? Yes

Is it Complete ? Yes

Sample Collection Date	Analysis	Allowable Holding Time for Extraction	Allowable Holding Time for Analysis	Preparetion/ Analysis Date
6/24, 25/2021	Metals, EPA 6010D	NA	180 Days	6/30, 7/03, 06/2021
6/24, 25/2021	Metals, EPA 6020B	NA	180 Days	7/07, 08/2021

Sample Hold Times Met: Yes

Sample Temperature Within QC Limits (0°C to 6°C) : Yes, 1.8°C

Surrogate Recovery
Are all % recoveries within the allowable range ? NA
If No, List sample ID where range was exceeded:

MS/MSD
Are all MS/MSD sample recoveries within the QC limits ? Yes
If No, list sample ID, date and compound where limit was exceeded:

Laboratory Control Samples
Are all laboratory control sample recoveries within the QC limits ? Yes
If No, list sample ID where range was exceeded:

Equipment Field Blank ID (required events 1/20) **:** NA — None was needed, thus none was collected.
Trip Blank ID (required every cooler w/VOC) **:** NA

Method Blank: Analysis Method and ID: Metals, 6010D MP27234
Metals, 6020B MP27234A

Were any compounds identified in the method blank, field blank, or trip blank above detection limits ? No
If so, list Sample ID/Compound/Concentration/Units:

Method EPA 6010D Batch ID: MP27234
RPD(s) for Serial Dilutions for Aluminum, Arsenic, Copper, Nickel, Vanadium, and Zinc are outside control limits for sample JD27374-1.
Percent difference acceptable due to low initial sample concentration (< 50 times IDL). No qualification necessary.

Method EPA 6020B Batch ID: MP27234A
RPD(s) for Serial Dilution for Copper is outside control limits for sample JD27374-1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL). No qualification necessary.

Reviewed/Validated By: Sushama S. Paranjape **Date:** 8/07/2021

Field Duplicate (FD) ID (required 1/20 per parameter/matrix/procedure/team): AOC1-MW07-20210625/FD
Did FD samples meet RPD standard (30% AQ)? Y

Completed By: Andrea Steele **Date:** 8/10/2021

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

APTIM

NRG, One Manresa Island Road, Norwalk, CT

631012814.002

SGS Job Number: JD27374

Sampling Dates: 06/24/21 - 06/25/21

Report to:

APTIM
150 Royall Street
Canton, MA 02021
Andrew.Walker@APTIM.com; Catherine.Joe@APTIM.com;
Andrea.Steele@APTIM.com
ATTN: Andrew Walker

Total number of pages in report: 41

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Michelle Jenkins 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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SGS North America Inc.

Sample Summary

APTIM

Job No: JD27374

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631012814.002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD27374-1	06/24/21	09:55 AM		06/25/21	AQ	Ground Water	AOC1-MW17-20210624
JD27374-2	06/24/21	11:10 AM		06/25/21	AQ	Ground Water	AOC1-MW13-20210624
JD27374-3	06/24/21	12:05 AM		06/25/21	AQ	Ground Water	AOC1-MW14-20210624
JD27374-4	06/24/21	13:20 AM		06/25/21	AQ	Ground Water	AOC1-MW02-20210624
JD27374-5	06/24/21	14:25 AM		06/25/21	AQ	Ground Water	AOC1-MW01-20210624
JD27374-6	06/25/21	09:25 AM		06/25/21	AQ	Ground Water	AOC1-MW07-20210625
JD27374-7	06/25/21	09:30 AM		06/25/21	AQ	Ground Water	AOC1-MW07-20210625_FD
JD27374-8	06/25/21	10:45 AM		06/25/21	AQ	Ground Water	AOC1-MW12-20210625
JD27374-9	06/25/21	12:05 AM		06/25/21	AQ	Ground Water	AOC1-MW11-20210625
JD27374-10	06/25/21	13:10 AM		06/25/21	AQ	Ground Water	AOC7-MW01-SB1-20210625

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	APTIM	**Job No**	JD27374
Site:	NRG, One Manresa Island Road, Norwalk, CT	**Report Date**	7/9/2021 2:20:12 PM

On 06/25/2021, 10 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD27374 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP27234

- All method blanks for this batch meet method specific criteria.
- Sample(s) JD27374-1MS, JD27374-1MSD, JD27374-1SDL were used as the QC samples for metals.
- All samples were digested within the recommended method holding time.
- RPD(s) for Serial Dilution for Aluminum, Arsenic, Copper, Nickel, Vanadium, Zinc are outside control limits for sample MP27234-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JD27374-1 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD27374-3 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD27374-3 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD27374-5 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD27374-5 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD27374-9 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD27374-9 for Lead: Elevated detection limit due to dilution required for high interfering element.
- Only report requested metals.

Metals Analysis By Method SW846 6020B

Matrix: AQ **Batch ID:** MP27234A

- All method blanks for this batch meet method specific criteria.
- Sample(s) JD27374-1MS, JD27374-1MSD, JD27374-1SDL were used as the QC samples for metals.
- All samples were digested within the recommended method holding time.
- RPD(s) for Serial Dilution for Copper are outside control limits for sample MP27234A-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JD27374-9 for Copper: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD27374-3 for Copper: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JD27374-1 for Copper: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- Only report requested metals.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD27374
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 06/24/21 thru 06/25/21

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD27374-1	**AOC1-MW17-20210624**					
Aluminum		127 J	200	46	ug/l	SW846 6010D
JD27374-2	**AOC1-MW13-20210624**					
Aluminum		139 J	200	46	ug/l	SW846 6010D
Nickel		4.1 J	10	1.7	ug/l	SW846 6010D
Vanadium		4.4 J	50	1.8	ug/l	SW846 6010D
Zinc		11.4 J	20	6.9	ug/l	SW846 6010D
JD27374-3	**AOC1-MW14-20210624**					
Aluminum		104 J	200	46	ug/l	SW846 6010D
JD27374-4	**AOC1-MW02-20210624**					
Aluminum		73.7 J	200	46	ug/l	SW846 6010D
Arsenic		12.4	3.0	2.8	ug/l	SW846 6010D
Nickel		51.5	10	1.7	ug/l	SW846 6010D
Zinc		15.3 J	20	6.9	ug/l	SW846 6010D
JD27374-5	**AOC1-MW01-20210624**					
No hits reported in this sample.						
JD27374-6	**AOC1-MW07-20210625**					
Aluminum		87.5 J	200	46	ug/l	SW846 6010D
Arsenic		27.1	3.0	2.8	ug/l	SW846 6010D
Lead		4.4	3.0	1.8	ug/l	SW846 6010D
Nickel		46.9	10	1.7	ug/l	SW846 6010D
Vanadium		25.3 J	50	1.8	ug/l	SW846 6010D
Zinc		23.9	20	6.9	ug/l	SW846 6010D
JD27374-7	**AOC1-MW07-20210625_FD**					
Aluminum		77.9 J	200	46	ug/l	SW846 6010D
Arsenic		24.1	3.0	2.8	ug/l	SW846 6010D
Lead		2.2 J	3.0	1.8	ug/l	SW846 6010D
Nickel		46.4	10	1.7	ug/l	SW846 6010D
Vanadium		23.9 J	50	1.8	ug/l	SW846 6010D
Zinc		22.6	20	6.9	ug/l	SW846 6010D

Summary of Hits

Job Number: JD27374
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 06/24/21 thru 06/25/21

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD27374-8	**AOC1-MW12-20210625**					
Aluminum		57.9 J	200	46	ug/l	SW846 6010D
Beryllium		0.80 J	1.0	0.50	ug/l	SW846 6010D
Cadmium		1.4 J	3.0	1.0	ug/l	SW846 6010D
Lead		1.9 J	3.0	1.8	ug/l	SW846 6010D
Nickel		15.0	10	1.7	ug/l	SW846 6010D
Zinc		8.0 J	20	6.9	ug/l	SW846 6010D
JD27374-9	**AOC1-MW11-20210625**					
Aluminum		49.8 J	200	46	ug/l	SW846 6010D
Cadmium		1.1 J	3.0	1.0	ug/l	SW846 6010D
Copper [a]		21.7 J	40	19	ug/l	SW846 6020B
Nickel		94.7	10	1.7	ug/l	SW846 6010D
Vanadium		9.3 J	50	1.8	ug/l	SW846 6010D
Zinc		185	20	6.9	ug/l	SW846 6010D
JD27374-10	**AOC7-MW01-SB1-20210625**					
Aluminum		300	200	46	ug/l	SW846 6010D
Nickel		11.8	10	1.7	ug/l	SW846 6010D
Zinc		24.4	20	6.9	ug/l	SW846 6010D

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	AOC1-MW17-20210624		
Lab Sample ID:	JD27374-1	**Date Sampled:**	06/24/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	127 J	200	46	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]
Arsenic	2.8 U	3.0	2.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]
Beryllium	0.50 U	1.0	0.50	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]
Cadmium	1.0 U	3.0	1.0	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]
Copper [a]	47 U	100	47	ug/l	50	06/30/21	07/08/21	NV	SW846 6020B [3]	SW846 3010A [5]
Lead [b]	18 U	30	18	ug/l	10	06/30/21	07/03/21	ND	SW846 6010D [2]	SW846 3010A [4]
Nickel	1.7 U	10	1.7	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]
Vanadium	1.8 U	50	1.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]
Zinc	6.9 U	20	6.9	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA50775
(2) Instrument QC Batch: MA50787
(3) Instrument QC Batch: MA50807
(4) Prep QC Batch: MP27234
(5) Prep QC Batch: MP27234A

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
(b) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW13-20210624		
Lab Sample ID:	JD27374-2	**Date Sampled:**	06/24/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	139 J	200	46	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Arsenic	2.8 U	3.0	2.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Beryllium	0.50 U	1.0	0.50	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	1.0 U	3.0	1.0	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Copper	9.4 U	20	9.4	ug/l	10	06/30/21	07/07/21	NV	SW846 6020B [2]	SW846 3010A [4]
Lead	1.8 U	3.0	1.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Nickel	4.1 J	10	1.7	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Vanadium	4.4 J	50	1.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Zinc	11.4 J	20	6.9	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA50775
(2) Instrument QC Batch: MA50797
(3) Prep QC Batch: MP27234
(4) Prep QC Batch: MP27234A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW14-20210624		
Lab Sample ID:	JD27374-3	**Date Sampled:**	06/24/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	104 J	200	46	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]
Arsenic [a]	28 U	30	28	ug/l	10	06/30/21	07/03/21	ND	SW846 6010D [2]	SW846 3010A [4]
Beryllium	0.50 U	1.0	0.50	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]
Cadmium	1.0 U	3.0	1.0	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]
Copper [b]	19 U	40	19	ug/l	20	06/30/21	07/07/21	NV	SW846 6020B [3]	SW846 3010A [5]
Lead [a]	18 U	30	18	ug/l	10	06/30/21	07/03/21	ND	SW846 6010D [2]	SW846 3010A [4]
Nickel	1.7 U	10	1.7	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]
Vanadium	1.8 U	50	1.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]
Zinc	6.9 U	20	6.9	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA50775
(2) Instrument QC Batch: MA50787
(3) Instrument QC Batch: MA50797
(4) Prep QC Batch: MP27234
(5) Prep QC Batch: MP27234A

(a) Elevated detection limit due to dilution required for high interfering element.
(b) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW02-20210624		
Lab Sample ID:	JD27374-4	**Date Sampled:**	06/24/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	73.7 J	200	46	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Arsenic	12.4	3.0	2.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Beryllium	0.50 U	1.0	0.50	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Cadmium	1.0 U	3.0	1.0	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Copper	5.9 U	10	5.9	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Lead	1.8 U	3.0	1.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Nickel	51.5	10	1.7	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Vanadium	1.8 U	50	1.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Zinc	15.3 J	20	6.9	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA50775
(2) Prep QC Batch: MP27234

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW01-20210624		
Lab Sample ID:	JD27374-5	**Date Sampled:**	06/24/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	46 U	200	46	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Arsenic [a]	28 U	30	28	ug/l	10	06/30/21	07/03/21	ND	SW846 6010D [2]	SW846 3010A [3]
Beryllium	0.50 U	1.0	0.50	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	1.0 U	3.0	1.0	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Copper	5.9 U	10	5.9	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Lead [a]	18 U	30	18	ug/l	10	06/30/21	07/03/21	ND	SW846 6010D [2]	SW846 3010A [3]
Nickel	1.7 U	10	1.7	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Vanadium	1.8 U	50	1.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Zinc	6.9 U	20	6.9	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA50775
(2) Instrument QC Batch: MA50787
(3) Prep QC Batch: MP27234

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW07-20210625		
Lab Sample ID:	JD27374-6	**Date Sampled:**	06/25/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	87.5 J	200	46	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Arsenic	27.1	3.0	2.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Beryllium	0.50 U	1.0	0.50	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Cadmium	1.0 U	3.0	1.0	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Copper	5.9 U	10	5.9	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Lead	4.4	3.0	1.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Nickel	46.9	10	1.7	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Vanadium	25.3 J	50	1.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Zinc	23.9	20	6.9	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA50775
(2) Prep QC Batch: MP27234

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW07-20210625_FD		
Lab Sample ID:	JD27374-7	**Date Sampled:**	06/25/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	77.9 J	200	46	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Arsenic	24.1	3.0	2.8	ug/l	1	06/30/21	07/03/21	ND	SW846 6010D [2]	SW846 3010A [3]
Beryllium	0.50 U	1.0	0.50	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	1.0 U	3.0	1.0	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Copper	5.9 U	10	5.9	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Lead	2.2 J	3.0	1.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Nickel	46.4	10	1.7	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Vanadium	23.9 J	50	1.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Zinc	22.6	20	6.9	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA50775
(2) Instrument QC Batch: MA50787
(3) Prep QC Batch: MP27234

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW12-20210625		
Lab Sample ID:	JD27374-8	**Date Sampled:**	06/25/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	57.9 J	200	46	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Arsenic	2.8 U	3.0	2.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Beryllium	0.80 J	1.0	0.50	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	1.4 J	3.0	1.0	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Copper	1.9 U	4.0	1.9	ug/l	2	06/30/21	07/07/21	NV	SW846 6020B [2]	SW846 3010A [4]
Lead	1.9 J	3.0	1.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Nickel	15.0	10	1.7	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Vanadium	1.8 U	50	1.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]
Zinc	8.0 J	20	6.9	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA50775
(2) Instrument QC Batch: MA50797
(3) Prep QC Batch: MP27234
(4) Prep QC Batch: MP27234A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW11-20210625		
Lab Sample ID:	JD27374-9	**Date Sampled:**	06/25/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	49.8 J	200	46	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]
Arsenic [a]	28 U	30	28	ug/l	10	06/30/21	07/06/21	ND	SW846 6010D [2]	SW846 3010A [4]
Beryllium	0.50 U	1.0	0.50	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]
Cadmium	1.1 J	3.0	1.0	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]
Copper [b]	21.7 J	40	19	ug/l	20	06/30/21	07/07/21	NV	SW846 6020B [3]	SW846 3010A [5]
Lead [a]	18 U	30	18	ug/l	10	06/30/21	07/06/21	ND	SW846 6010D [2]	SW846 3010A [4]
Nickel	94.7	10	1.7	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]
Vanadium	9.3 J	50	1.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]
Zinc	185	20	6.9	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA50775
(2) Instrument QC Batch: MA50794
(3) Instrument QC Batch: MA50797
(4) Prep QC Batch: MP27234
(5) Prep QC Batch: MP27234A

(a) Elevated detection limit due to dilution required for high interfering element.
(b) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC7-MW01-SB1-20210625		
Lab Sample ID:	JD27374-10	**Date Sampled:**	06/25/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	300	200	46	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Arsenic	2.8 U	3.0	2.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Beryllium	0.50 U	1.0	0.50	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Cadmium	1.0 U	3.0	1.0	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Copper	5.9 U	10	5.9	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Lead	1.8 U	3.0	1.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Nickel	11.8	10	1.7	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Vanadium	1.8 U	50	1.8	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]
Zinc	24.4	20	6.9	ug/l	1	06/30/21	06/30/21	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA50775
(2) Prep QC Batch: MP27234

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

SGS GW

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

FED-EX Tracking # 7804 9370 6888
SGS Quote # NRG-CT account pricing 10/2016
Bottle Order Control # none ~~TP-06121-203~~
SGS Job # JD27374

Client / Reporting Information

Company Name: APTIM
Street Address: 150 Royall St.
City / State / Zip: Canton, MA 02021
Project Contact / E-mail: Andrea.Steele@aptim.com
Phone #: 774-573-9090
Sampler(s) Name(s) / Phone #: Austin Magnant 774-551-6197

Project Information

Project Name: NRG-Norwalk
Street: One Manresa Island Rd.
City / State: South Norwalk CT
Project #: 631012814.002
Client Purchase Order #: N/A
Project Manager: Andrew.Walker@aptim.com

Billing information (if different from Report to)
Company Name
Street Address
City / State / Zip
Attention:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	Total Al As Be Cd Pb Ni V Zn (Method 6010) and Total Cu (Method 6020)	Total Al As Be Cd Cu Pb Ni V Zn (Method 6010)									LAB USE ONLY
1	AOCI-MW17-20210624	NA	6/24/21	955	AM	G	GW	1			1						X										
2	AOCI-MW13-20210624	NA	6/24/21	1110	AM	G	GW	1			1						X										
3	AOCI-MW14-20210624	NA	6/24/21	1205	AM	G	GW	1			1						X										A31
4	AOCI-MW02-20210624	NA	6/24/21	1320	AM	G	GW	1			1							X									
5	AOCI-MW01-20210624	NA	6/24/21	1425	AM	G	GW	1			1							X									
6	AOCI-MW07-20210625	NA	6/25/21	925	AM	G	GW	1			1							X									
7	AOCI-MW07-20210625FD	NA	6/25/21	930	AM	G	GW	1			1							X									
8	AOCI-MW12-20210625	NA	6/25/21	1045	AM	G	GW	1			1						X										
9	AOCI-MW11-20210625	NA	6/25/21	1005	AM	G	GW	1			1						X										
10	AOCI-MW01-SSI-20210625	NA	6/25/21	1310	AM	G	GW	1			1							X			6/25	SGS-ACCUTEST MARLBOR					

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

INITIAL ASSESSMENT 30 Day
LABEL VERIFICATION

Deliverable

- [ ] Commercial "A" (Level 1)
- [X] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [X] CT RCP Criteria CT SWPC and CT WQC
- [ ] State Forms
- [X] EDD Format EQuIS
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Report metals results to MDL.
QA/QC Reporting: CT RCP and Site-Specific QAPP.
Please email EQuIS formatted EDD to catherine.joe@aptim.com and lisa.george@aptim.com.

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 APTIM	6/25/21 1600	1 Scott Parsons	2 Scott Parsons	6/25/21 18:30	2 FedEX
3 Fedex	6/26/21 930	3 DK	4		4
5		5			

Custody Seal # 02482 ☐ Intact ☐ Not intact | Preserved where applicable ☐ Absent | Therm. ID: | On Ice ☑ | Cooler Temp. °C 2-5°C

NRG-NWK_SGS-Dayton COC_TA GW_PRINT 3.xlsx

5.1 5

JD27374: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD27374 **Client:** _____ **Project:** _____

Date / Time Received: 6/25/2021 4:05:00 PM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (2.5);

Cooler Temps (Corrected) °C: Cooler 1: (1.8);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify) _____ _____

Comments

SM089-03
Rev. Date 12/7/17

JD27374: Chain of Custody
Page 2 of 2

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **APTIM**

Project Location: **NRG, One Manresa Island Road, Norwalk, CT** **Project Number:** **631217784.01021320 / P-CARD**

Sampling Date(s): **6/24/2021**

Laboratory Sample ID(s): JD27374-1, JD27374-2, JD27374-3, JD27374-4, JD27374-5, JD27374-6, JD27374-7, JD27374-8, JD27374-9, JD27374-10

Methods: SW846 6010D, SW846 6020B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☑ No ☐
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☑ No ☐
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☑ No ☐

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Caitlin Brice Position: General Manager

Printed Name: Caitlin Brice Date: 7/9/2021

Internal Sample Tracking Chronicle

APTIM

Job No: JD27374

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631012814.002

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD27374-1 Collected: 24-JUN-21 09:55 By: AM Received: 25-JUN-21 By: DDH AOC1-MW17-20210624						
JD27374-1	SW846 6010D	30-JUN-21 19:42	ND	30-JUN-21	SF	AL,AS,BE,CD,NI,V,ZN
JD27374-1	SW846 6010D	03-JUL-21 12:14	ND	30-JUN-21	SF	PB
JD27374-1	SW846 6020B	08-JUL-21 19:05	NV	30-JUN-21	SF	CUMS
JD27374-2 Collected: 24-JUN-21 11:10 By: AM Received: 25-JUN-21 By: DDH AOC1-MW13-20210624						
JD27374-2	SW846 6010D	30-JUN-21 19:58	ND	30-JUN-21	SF	AL,AS,BE,CD,NI,PB,V,ZN
JD27374-2	SW846 6020B	07-JUL-21 20:52	NV	30-JUN-21	SF	CUMS
JD27374-3 Collected: 24-JUN-21 12:05 By: AM Received: 25-JUN-21 By: DDH AOC1-MW14-20210624						
JD27374-3	SW846 6010D	30-JUN-21 20:03	ND	30-JUN-21	SF	AL,BE,CD,NI,V,ZN
JD27374-3	SW846 6010D	03-JUL-21 12:59	ND	30-JUN-21	SF	AS,PB
JD27374-3	SW846 6020B	07-JUL-21 21:25	NV	30-JUN-21	SF	CUMS
JD27374-4 Collected: 24-JUN-21 13:20 By: AM Received: 25-JUN-21 By: DDH AOC1-MW02-20210624						
JD27374-4	SW846 6010D	30-JUN-21 20:09	ND	30-JUN-21	SF	AL,AS,BE,CD,CU,NI,PB,V,ZN
JD27374-5 Collected: 24-JUN-21 14:25 By: AM Received: 25-JUN-21 By: DDH AOC1-MW01-20210624						
JD27374-5	SW846 6010D	30-JUN-21 20:24	ND	30-JUN-21	SF	AL,BE,CD,CU,NI,V,ZN
JD27374-5	SW846 6010D	03-JUL-21 13:05	ND	30-JUN-21	SF	AS,PB
JD27374-6 Collected: 25-JUN-21 09:25 By: AM Received: 25-JUN-21 By: DDH AOC1-MW07-20210625						
JD27374-6	SW846 6010D	30-JUN-21 20:29	ND	30-JUN-21	SF	AL,AS,BE,CD,CU,NI,PB,V,ZN
JD27374-7 Collected: 25-JUN-21 09:30 By: AM Received: 25-JUN-21 By: DDH AOC1-MW07-20210625_FD						
JD27374-7	SW846 6010D	30-JUN-21 20:34	ND	30-JUN-21	SF	AL,BE,CD,CU,NI,PB,V,ZN

Internal Sample Tracking Chronicle

APTIM

Job No: JD27374

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631012814.002

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD27374-7	SW846 6010D	03-JUL-21 13:10	ND	30-JUN-21	SF	AS
JD27374-8 Collected: 25-JUN-21 10:45 By: AM Received: 25-JUN-21 By: DDH AOC1-MW12-20210625						
JD27374-8	SW846 6010D	30-JUN-21 20:39	ND	30-JUN-21	SF	AL,AS,BE,CD,NI,PB,V,ZN
JD27374-8	SW846 6020B	07-JUL-21 20:24	NV	30-JUN-21	SF	CUMS
JD27374-9 Collected: 25-JUN-21 12:05 By: AM Received: 25-JUN-21 By: DDH AOC1-MW11-20210625						
JD27374-9	SW846 6010D	30-JUN-21 20:45	ND	30-JUN-21	SF	AL,BE,CD,NI,V,ZN
JD27374-9	SW846 6010D	06-JUL-21 15:40	ND	30-JUN-21	SF	AS,PB
JD27374-9	SW846 6020B	07-JUL-21 21:11	NV	30-JUN-21	SF	CUMS
JD27374-10 Collected: 25-JUN-21 13:10 By: AM Received: 25-JUN-21 By: DDH AOC7-MW01-SB1-20210625						
JD27374-10	SW846 6010D	30-JUN-21 20:50	ND	30-JUN-21	SF	AL,AS,BE,CD,CU,NI,PB,V,ZN

QC Evaluation: CT RCP Limits

Job Number: JD27374
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 06/24/21 thru 06/25/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No CT RCP Limits Found.

* Sample used for QC is not from job JD27374

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD27374
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27234
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/30/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	9.2	46	7.7	<200
Antimony	6.0	2.8	4.7		
Arsenic	3.0	2.6	2.8	-0.40	<3.0
Barium	200	.2	13		
Beryllium	1.0	.2	.5	0.0	<1.0
Bismuth	20	2.5	4		
Boron	100	1.8	63		
Cadmium	3.0	.4	1	0.10	<3.0
Calcium	5000	13	99		
Cerium	100				
Chromium	10	.7	2		
Cobalt	50	.6	2.6		
Copper	10	.7	5.9	-0.50	<10
Iron	100	3.3	32		
Lead	3.0	2	1.8	0.10	<3.0
Lithium	50	1.5	7.3		
Magnesium	5000	25	140		
Manganese	15	.1	1.4		
Molybdenum	20	.6	3.6		
Nickel	10	.8	1.7	0.0	<10
Phosphorus	50	7	18		
Potassium	10000	35	200		
Selenium	10	3.6	4.9		
Silicon	200	2.2	100		
Silver	10	.6	1.9		
Sodium	10000	14	570		
Strontium	10	.1	1		
Sulfur	50	3.7	45		
Thallium	10	5.2	1.8		
Tin	10	1.4	3.7		
Titanium	10	.8	2.5		
Tungsten	50	1.3	40		
Vanadium	50	.5	1.8	0.30	<50

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD27374
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27234
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/30/21

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.3	6.9	0.80	<20
Zirconium	10	.5	4.1		

Associated samples MP27234: JD27374-1, JD27374-2, JD27374-3, JD27374-4, JD27374-5, JD27374-6, JD27374-7, JD27374-8, JD27374-9, JD27374-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD27374
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27234
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/30/21

Metal	JD27374-1 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	127	25000	25000	99.5	75-125
Antimony	anr				
Arsenic	2.6	1870	2000	93.4	75-125
Barium	anr				
Beryllium	0.0	1780	2000	89.0	75-125
Bismuth					
Boron					
Cadmium	0.0	2000	2000	100.0	75-125
Calcium	anr				
Cerium					
Chromium	anr				
Cobalt	anr				
Copper	2.5	1930	2000	96.4	75-125
Iron	anr				
Lead	0.0	1860	2000	93.0	75-125
Lithium					
Magnesium	anr				
Manganese	anr				
Molybdenum					
Nickel	1.1	1770	2000	88.4	75-125
Phosphorus					
Potassium	anr				
Selenium	anr				
Silicon					
Silver	anr				
Sodium	anr				
Strontium					
Sulfur					
Thallium					
Tin					
Titanium					
Tungsten					
Vanadium	0.70	1810	2000	90.5	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD27374
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27234
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/30/21

Metal	JD27374-1 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Zinc	5.7	1660	2000	82.7	75-125
Zirconium					

Associated samples MP27234: JD27374-1, JD27374-2, JD27374-3, JD27374-4, JD27374-5, JD27374-6, JD27374-7, JD27374-8, JD27374-9, JD27374-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD27374
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27234
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/30/21

Metal	JD27374-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	127	25300	25000	100.7	1.2	20
Antimony	anr					
Arsenic	2.6	1890	2000	94.4	1.1	20
Barium	anr					
Beryllium	0.0	1800	2000	90.0	1.1	20
Bismuth						
Boron						
Cadmium	0.0	2020	2000	101.0	1.0	20
Calcium	anr					
Cerium						
Chromium	anr					
Cobalt	anr					
Copper	2.5	1960	2000	97.9	1.5	20
Iron	anr					
Lead	0.0	1830	2000	91.5	1.6	20
Lithium						
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	1.1	1790	2000	89.4	1.1	20
Phosphorus						
Potassium	anr					
Selenium	anr					
Silicon						
Silver	anr					
Sodium	anr					
Strontium						
Sulfur						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium	0.70	1830	2000	91.5	1.1	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD27374
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27234
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/30/21

Metal	JD27374-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zinc	5.7	1680	2000	83.7	1.2	20
Zirconium						

Associated samples MP27234: JD27374-1, JD27374-2, JD27374-3, JD27374-4, JD27374-5, JD27374-6, JD27374-7, JD27374-8, JD27374-9, JD27374-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD27374
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27234
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/30/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	24000	25000	96.0	80-120
Antimony	anr			
Arsenic	1690	2000	84.5	80-120
Barium	anr			
Beryllium	1820	2000	91.0	80-120
Bismuth				
Boron				
Cadmium	1740	2000	87.0	80-120
Calcium	anr			
Cerium				
Chromium	anr			
Cobalt	anr			
Copper	1720	2000	86.0	80-120
Iron	anr			
Lead	1910	2000	95.5	80-120
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	1880	2000	94.0	80-120
Phosphorus				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium	1840	2000	92.0	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD27374
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27234
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/30/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zinc	1810	2000	90.5	80-120
Zirconium				

Associated samples MP27234: JD27374-1, JD27374-2, JD27374-3, JD27374-4, JD27374-5, JD27374-6, JD27374-7, JD27374-8, JD27374-9, JD27374-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD27374
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27234
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/30/21

Metal	JD27374-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	127	103	18.3 (a)	0-10
Antimony	anr			
Arsenic	2.60	0.00	100.0(a)	0-10
Barium	anr			
Beryllium	0.00	0.00	NC	0-10
Bismuth				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Cerium				
Chromium	anr			
Cobalt	anr			
Copper	2.50	0.00	100.0(a)	0-10
Iron	anr			
Lead	0.00	0.00	NC	0-10
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	1.10	0.00	100.0(a)	0-10
Phosphorus				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium	0.700	0.00	100.0(a)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD27374
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27234
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/30/21

Metal	JD27374-1 Original	SDL 1:5	%DIF	QC Limits
Zinc	5.70	4.50	21.1 (a)	0-10
Zirconium				

Associated samples MP27234: JD27374-1, JD27374-2, JD27374-3, JD27374-4, JD27374-5, JD27374-6, JD27374-7, JD27374-8, JD27374-9, JD27374-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD27374
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27234A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 06/30/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.54	32		
Antimony	4.0	.044	1.7		
Arsenic	1.0	.018	.94		
Barium	2.0	.018	.73		
Beryllium	1.0	.006	.15		
Boron	50	1.7	14		
Cadmium	1.0	.014	.17		
Calcium	500	15	64		
Chromium	2.0	.03	.62		
Cobalt	1.0	.004	.17		
Copper	4.0	.024	1.9	0.033	<4.0
Iron	50	1.1	19		
Lead	1.0	.014	.52		
Magnesium	500	.74	46		
Manganese	2.0	.018	.63		
Molybdenum	2.0	.054	.45		
Nickel	2.0	.016	.95		
Potassium	500	2.4	68		
Selenium	1.0	.7	.55		
Silver	1.0	.004	.16		
Sodium	500	1.1	140		
Strontium	10	.032	2.4		
Thallium	1.0	.018	.17		
Tin	10	.07	2.6		
Titanium	2.0	.09	1.6		
Vanadium	2.0	.034	1.8		
Zinc	10	.096	5.4		

Associated samples MP27234A: JD27374-1, JD27374-2, JD27374-3, JD27374-8, JD27374-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD27374
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27234A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 06/30/21

Metal	JD27374-1 Original	MS	Spikelot MP6020AQ3	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	anr				
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper	6.2	85.4	80	99.0	75-125
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Strontium					
Thallium	anr				
Tin					
Titanium					
Vanadium					
Zinc					

Associated samples MP27234A: JD27374-1, JD27374-2, JD27374-3, JD27374-8, JD27374-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD27374
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27234A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 06/30/21

Metal	JD27374-1 Original	MSD	Spikelot MP6020AQ3%	Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper	6.2	83.3	80	96.4	2.5	20
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP27234A: JD27374-1, JD27374-2, JD27374-3, JD27374-8, JD27374-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD27374
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27234A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 06/30/21

Metal	BSP Result	Spikelot MP6020AQ3	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	80.4	80	100.5	80-120
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP27234A: JD27374-1, JD27374-2, JD27374-3, JD27374-8, JD27374-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD27374
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27234A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 06/30/21

Metal	JD27374-1 Original	SDL 50:250%	DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	6.15	29.5	379.0(a)	0-10
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP27234A: JD27374-1, JD27374-2, JD27374-3, JD27374-8, JD27374-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

APPENDIX B

DATA VALIDATION WORKSHEETS AND LABORATORY ANALYTICAL REPORTS FOR REAGENT TESTING GROUNDWATER AND SOIL – APRIL 2021 AND AUGUST 2021

Data Usability Worksheet

Project Name : NRG Norwalk

Job Number : 631020644.00521320

Prepared By: Sushama S. Paranjape

Reviewed Date : 5/10/2021

Matrix: Groundwater, Soil

Laboratory ID No. : SGS JD24078
Issue date 5/05/2021

Sampling Date : 4/27, 28/2021

Analyte Group : Metals

Analytical Method : EPA 6010D
EPA 6020B

Nitrogen, Nitrate	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	EPA 353.2/LACHAT
Nitrogen, Nitrite	SM4500NO2 B-11
Redox Potential Vs H2	ASTM D1498-76
Sulfate	EPA 300/SW846 9056A
pH	SM4500H+ B-11

Completed Reasonable Confidence Protocols Certification Form included: Yes

Does the data package meet the requirements for "Reasonable Confidence"? Yes

Is it Complete ? Yes

SGS laboratory certifies that all analysis were performed within method specifications and recommends that the report is to be used in its entirety: Yes

Chain of Custody included in Data Package ? Yes

Is it Complete ? Yes

Sample Collection Date	Analysis	Allowable Holding Time for Extraction	Allowable Holding Time for Analysis	Preparetion/ Analysis Date
4/27, 28/2021	Metals, EPA 6010D, 6020B	NA	180 Days	4/30, 5/01, 03, 04/2021
4/28/2021	EPA353.2/SM4500NO2B Nitrogen, Nitrate	NA	28 Days	5/04/2021
4/28/2021	EPA 353.2/LACHAT Nitrogen, Nitrate + Nitrite	NA	28 Days	5/04/2021
4/28/2021	SM4500NO2 B-11 Nitrogen, Nitrite	NA	48 Hours	4/29/2021
4/28/2021	ASTM D1498-76 Redox Potential Vs H2	NA	24 Hours	4/30/2021
4/28/2021	EPA 300/SW846 9056A Sulfate	NA	28 Days	5/04/2021
4/28/2021	SM4500H+ B-11 pH	NA	15 Minutes	4/30/2021

Sample Hold Times Met: No
Redox Potential Vs H2 and pH analyzed out of holding time. Redox Potential Vs H2 and pH results qualified "J" as estimated for samples AOC1-MW06-20210428 and NH-14S-20210428.

Sample Temperature Within QC Limits (0°C to 6°C) : Yes, 2.8°C

Surrogate Recovery
Are all % recoveries within the allowable range ? NA
If No, List sample ID where range was exceeded:

MS/MSD
Are all MS/MSD sample recoveries within the QC limits ? No
If No, list sample ID, date and compound where limit was exceeded:
AOC1-MW06-20210428 (JD24078-1), 5/04/2021, Nitrogen, Nitrate + Nitrite, recovery 89.0% (limits 90-110%). Nitrogen, Nitrate + Nitrite result qualified "J" as estimated for sample AOC1-MW06-20210428 (JD24078-1).

Laboratory Control Samples
Are all laboratory control sample recoveries within the QC limits ? Yes
If No, list sample ID where range was exceeded:

Equipment Field Blank ID (required events 1/20) **:** NA — None was needed, thus none was collected.
Trip Blank ID (required every cooler w/VOC) **:** NA

Method Blank: Analysis Method and ID:

Metals, 6010D	QC Batch ID: MP26230, MP26232
Metals, 6020B	QC Batch ID: MP26230A
Chloride	GP33508/GN17739
Nitrogen, Nitrate + Nitrite	GP33531/GN17793
Nitrogen, Nitrite	GN17645
Sulfate	GP33508/GN17739

Were any compounds identified in the method blank, field blank, or trip blank above detection limits ? No
If so, list Sample ID/Compound/Concentration/Units:

Method EPA 6010D Batch ID: MP26230
RPD(s) for Serial Dilutions for Arsenic, Beryllium, Cadmium, Lead, Vanadium, and Zinc are outside control limits for sampleJD24078-1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL) for Arsenic, Beryllium, Cadmium, Lead, and Vanadium. No qualification necessary.

Serial dilution indicates possible matrix interference for Zinc. Zinc results is qualified "J" as estimated for sample AOC1-MW06-20210428 (JD24078-1).

Method EPA 6010D Batch ID: MP26232
RPD(s) for Serial Dilutions for Cadmium, Copper, Lead, Manganese, and Vanadium are outside control limits for sampleJD23306-2. Parent sample is not from this site, no qualification necessary.

Reviewed/Validated By: Sushama S. Paranjape **Date:** 5/10/2021

Field Duplicate (FD) ID (required 1/20 per parameter/matrix/procedure/team): NH-14S-20210428/FD
Did FD samples meet RPD standard (30% AQ)? Y

Completed By: Andrea Steele **Date:** 5/12/2021

Report of Analysis

Client Sample ID:	AOC1-MW06-20210428		
Lab Sample ID:	JD24078-1	**Date Sampled:**	04/28/21
Matrix:	AQ - Ground Water	**Date Received:**	04/28/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2130	200	46	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Arsenic	8.7	3.0	2.8	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Beryllium	1.9	1.0	0.50	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Cadmium	1.0 J	3.0	1.0	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Copper	118	4.0	1.9	ug/l	2	04/30/21	05/03/21	NV	SW846 6020B [2]	SW846 3010A [4]
Iron	432	100	32	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Lead	1.8 U	3.0	1.8	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Manganese	67.5	15	1.4	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Nickel	52.6	10	1.7	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Vanadium	1.8 U	50	1.8	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Zinc	70.6 J	20	6.9	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA50462
(2) Instrument QC Batch: MA50469
(3) Prep QC Batch: MP26230
(4) Prep QC Batch: MP26230A

sp
5/10/2021

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW06-20210428		
Lab Sample ID:	JD24078-1	**Date Sampled:**	04/28/21
Matrix:	AQ - Ground Water	**Date Received:**	04/28/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate [a]	0.093 U	0.11	0.093	mg/l	1	05/04/21 15:59	BM	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite J	0.090 U	0.10	0.090	mg/l	1	05/04/21 15:59	BM	EPA 353.2/LACHAT
Nitrogen, Nitrite	0.0055 J	0.010	0.0030	mg/l	1	04/29/21 23:06	EB	SM4500NO2 B-11
Redox Potential Vs H2 J	543			mv	1	04/30/21 14:08	LM	ASTM D1498-76
Sulfate	109	2.0	0.89	mg/l	1	05/04/21 01:56	MH	EPA 300/SW846 9056A
pH [b] J	4.40			su	1	04/30/21 14:48	LM	SM4500H+ B-11

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(b) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 25. Deg. C

sp
5/10/2021

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH-14S-20210428		
Lab Sample ID:	JD24078-3	**Date Sampled:**	04/28/21
Matrix:	AQ - Ground Water	**Date Received:**	04/28/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate [a]	0.093 U	0.11	0.093	mg/l	1	05/04/21 16:00	BM	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090	mg/l	1	05/04/21 16:00	BM	EPA 353.2/LACHAT
Nitrogen, Nitrite	0.0063 J	0.010	0.0030	mg/l	1	04/29/21 23:06	EB	SM4500NO2 B-11
Redox Potential Vs H2 J	599			mv	1	04/30/21 14:09	LM	ASTM D1498-76
Sulfate	1540	20	8.9	mg/l	10	05/04/21 17:37	MH	EPA 300/SW846 9056A
pH [b] J	3.37			su	1	04/30/21 14:51	LM	SM4500H+ B-11

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(b) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 25. Deg. C

sp
5/10/2021

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

APTIM

NRG, One Manresa Island Road, Norwalk, CT

631020644.006

SGS Job Number: JD24078

Sampling Dates: 04/27/21 - 04/28/21

Report to:

APTIM
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Canton, MA 02021
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ATTN: Andrew Walker

Total number of pages in report: 54

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Michelle Jenkins 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

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SGS North America Inc.

Sample Summary

APTIM

Job No: JD24078

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631020644.006

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD24078-1	04/28/21	09:20	AM	04/28/21	AQ	Ground Water	AOC1-MW06-20210428
JD24078-1F	04/28/21	09:20	AM	04/28/21	AQ	Groundwater Filtered	AOC1-MW06-20210428
JD24078-2	04/27/21	12:30	AM	04/28/21	SO	Soil	MW06(5-9)-20210427
JD24078-3	04/28/21	13:35	AM	04/28/21	AQ	Ground Water	NH-14S-20210428
JD24078-3F	04/28/21	13:35	AM	04/28/21	AQ	Groundwater Filtered	NH-14S-20210428
JD24078-4	04/27/21	16:30	AM	04/28/21	SO	Soil	NH14S(5-7)-20210427
JD24078-5	04/28/21	13:35	AM	04/28/21	AQ	Ground Water	NH14S-20210428-FD
JD24078-5F	04/28/21	13:35	AM	04/28/21	AQ	Groundwater Filtered	NH14S-20210428-FD

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	APTIM	**Job No**	JD24078
Site:	NRG, One Manresa Island Road, Norwalk, CT	**Report Date**	5/5/2021 2:44:38 PM

On 04/28/2021, 5 Sample(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD24078 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP26230

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD24078-1MS, JD24078-1MSD, JD24078-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Beryllium, Cadmium, Lead, Vanadium are outside control limits for sample MP26230-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP26230-MB1 for Aluminum: All reported results <RL or >10x MB value.
- JD24078-3 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD24078-3F for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD24078-5F for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD24078-3F for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD24078-5 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD24078-3 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- MP26230-SD1 for Zinc: Serial dilution indicates possible matrix interference.
- JD24078-5F for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD24078-5 for Lead: Elevated detection limit due to dilution required for high interfering element.
- Only report requested metals.

Matrix: SO **Batch ID:** MP26232

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD23306-2SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Vanadium, Cadmium are outside control limits for sample MP26232-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JD24078-2 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- MP26232-SD1 for Lead: Serial dilution indicates possible matrix interference.
- MP26232-SD1 for Copper: Serial dilution indicates possible matrix interference.
- JD24078-2 for Vanadium: Elevated detection limit due to dilution required for high interfering element.
- JD24078-2 for Manganese: Elevated detection limit due to dilution required for high interfering element.
- JD24078-2 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD24078-2 for Copper: Elevated detection limit due to dilution required for high interfering element.
- MP26232-SD1 for Manganese: Serial dilution indicates possible matrix interference.

Metals Analysis By Method SW846 6010D

Matrix: SO	Batch ID: MP26232

- Only report requested metals.

Metals Analysis By Method SW846 6020B

Matrix: AQ	Batch ID: MP26230A

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD24078-1MS, JD24078-1MSD, JD24078-1SDL were used as the QC samples for metals.
- Only report requested metals.

General Chemistry By Method ASTM D1498-76

Matrix: AQ	Batch ID: GN17655

- Sample(s) JD24078-1DUP were used as the QC samples for Redox Potential Vs H2.

General Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ	Batch ID: GP33508

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 353.2/LACHAT

Matrix: AQ	Batch ID: GP33531

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD24078-1DUP, JD24078-1MS were used as the QC samples for Nitrogen, Nitrate + Nitrite.
- Matrix Spike Recovery(s) for Nitrogen, Nitrate + Nitrite are outside control limits. Spike recovery indicates possible matrix interference.

General Chemistry By Method EPA353.2/SM4500NO2B

Matrix: AQ	Batch ID: R190667

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JD24078-1 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix: AQ	Batch ID: R190668

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JD24078-3 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO	Batch ID: GN17671

- The data for SM2540 G 18TH ED MOD meets quality control requirements.

General Chemistry By Method SM4500H+ B-11

Matrix: AQ	**Batch ID:** GN17661

- Sample(s) JD24078-1DUP were used as the QC samples for pH.
- JD24078-3 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 25. Deg. C
- JD24078-1 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 25. Deg. C

General Chemistry By Method SM4500NO2 B-11

Matrix: AQ	**Batch ID:** GN17645

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD24078
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 04/27/21 thru 04/28/21

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD24078-1	**AOC1-MW06-20210428**					
Aluminum		2130	200	46	ug/l	SW846 6010D
Arsenic		8.7	3.0	2.8	ug/l	SW846 6010D
Beryllium		1.9	1.0	0.50	ug/l	SW846 6010D
Cadmium		1.0 J	3.0	1.0	ug/l	SW846 6010D
Copper		118	4.0	1.9	ug/l	SW846 6020B
Iron		432	100	32	ug/l	SW846 6010D
Manganese		67.5	15	1.4	ug/l	SW846 6010D
Nickel		52.6	10	1.7	ug/l	SW846 6010D
Zinc		70.6	20	6.9	ug/l	SW846 6010D
Nitrogen, Nitrite		0.0055 J	0.010	0.0030	mg/l	SM4500NO2 B-11
Redox Potential Vs H2		543			mv	ASTM D1498-76
Sulfate		109	2.0	0.89	mg/l	EPA 300/SW846 9056A
pH [a]		4.40			su	SM4500H+ B-11
JD24078-1F	**AOC1-MW06-20210428**					
Aluminum		1960	200	46	ug/l	SW846 6010D
Beryllium		2.0	1.0	0.50	ug/l	SW846 6010D
Cadmium		1.1 J	3.0	1.0	ug/l	SW846 6010D
Copper		115	4.0	1.9	ug/l	SW846 6020B
Iron		254	100	32	ug/l	SW846 6010D
Manganese		68.2	15	1.4	ug/l	SW846 6010D
Nickel		52.1	10	1.7	ug/l	SW846 6010D
Zinc		70.0	20	6.9	ug/l	SW846 6010D
JD24078-2	**MW06(5-9)-20210427**					
Aluminum		12300	67	11	mg/kg	SW846 6010D
Arsenic [b]		123	13	1.9	mg/kg	SW846 6010D
Beryllium		2.8	0.27	0.11	mg/kg	SW846 6010D
Cadmium		0.50 J	0.67	0.094	mg/kg	SW846 6010D
Copper [b]		40.2	17	5.7	mg/kg	SW846 6010D
Iron		51100	340	130	mg/kg	SW846 6010D
Lead [b]		17.8	13	2.8	mg/kg	SW846 6010D
Manganese [b]		48.6	10	2.8	mg/kg	SW846 6010D
Nickel		33.4	5.4	0.47	mg/kg	SW846 6010D
Vanadium [b]		60.4	34	1.3	mg/kg	SW846 6010D
Zinc		46.4	6.7	3.1	mg/kg	SW846 6010D
JD24078-3	**NH-14S-20210428**					
Aluminum		133000	200	46	ug/l	SW846 6010D
Arsenic [b]		16.5	15	14	ug/l	SW846 6010D

Summary of Hits

Job Number: JD24078
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 04/27/21 thru 04/28/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Beryllium		23.8	1.0	0.50	ug/l	SW846 6010D
Cadmium		3.1	3.0	1.0	ug/l	SW846 6010D
Copper		419	10	4.7	ug/l	SW846 6020B
Iron		60400	100	32	ug/l	SW846 6010D
Manganese		894	15	1.4	ug/l	SW846 6010D
Nickel		454	10	1.7	ug/l	SW846 6010D
Vanadium		7.1 J	50	1.8	ug/l	SW846 6010D
Zinc		325	20	6.9	ug/l	SW846 6010D
Nitrogen, Nitrite		0.0063 J	0.010	0.0030	mg/l	SM4500NO2 B-11
Redox Potential Vs H2		599			mv	ASTM D1498-76
Sulfate		1540	20	8.9	mg/l	EPA 300/SW846 9056A
pH [a]		3.37			su	SM4500H+ B-11
JD24078-3F	**NH-14S-20210428**					
Aluminum		132000	200	46	ug/l	SW846 6010D
Beryllium		23.6	1.0	0.50	ug/l	SW846 6010D
Cadmium		3.0	3.0	1.0	ug/l	SW846 6010D
Copper		430	10	4.7	ug/l	SW846 6020B
Iron		59000	100	32	ug/l	SW846 6010D
Manganese		886	15	1.4	ug/l	SW846 6010D
Nickel		451	10	1.7	ug/l	SW846 6010D
Vanadium		6.4 J	50	1.8	ug/l	SW846 6010D
Zinc		319	20	6.9	ug/l	SW846 6010D
JD24078-4	**NH14S(5-7)-20210427**					
Aluminum		10200	67	11	mg/kg	SW846 6010D
Arsenic		139	2.7	0.37	mg/kg	SW846 6010D
Beryllium		1.9	0.27	0.11	mg/kg	SW846 6010D
Cadmium		0.54 J	0.67	0.094	mg/kg	SW846 6010D
Copper		45.2	3.3	1.1	mg/kg	SW846 6010D
Iron		24500	67	26	mg/kg	SW846 6010D
Lead		18.8	2.7	0.55	mg/kg	SW846 6010D
Manganese		18.8	2.0	0.55	mg/kg	SW846 6010D
Nickel		17.8	5.4	0.47	mg/kg	SW846 6010D
Vanadium		46.0	6.7	0.25	mg/kg	SW846 6010D
Zinc		24.0	6.7	3.1	mg/kg	SW846 6010D
JD24078-5	**NH14S-20210428-FD**					
Aluminum		132000	200	46	ug/l	SW846 6010D
Arsenic [b]		16.4	15	14	ug/l	SW846 6010D
Beryllium		23.4	1.0	0.50	ug/l	SW846 6010D
Cadmium		3.2	3.0	1.0	ug/l	SW846 6010D

Summary of Hits

Job Number: JD24078
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 04/27/21 thru 04/28/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Copper		424	10	4.7	ug/l	SW846 6020B
Iron		60400	100	32	ug/l	SW846 6010D
Manganese		888	15	1.4	ug/l	SW846 6010D
Nickel		454	10	1.7	ug/l	SW846 6010D
Vanadium		7.5 J	50	1.8	ug/l	SW846 6010D
Zinc		320	20	6.9	ug/l	SW846 6010D
JD24078-5F	**NH14S-20210428-FD**					
Aluminum		128000	200	46	ug/l	SW846 6010D
Arsenic [b]		15.7	15	14	ug/l	SW846 6010D
Beryllium		22.8	1.0	0.50	ug/l	SW846 6010D
Cadmium		3.0	3.0	1.0	ug/l	SW846 6010D
Copper		419	10	4.7	ug/l	SW846 6020B
Iron		56200	100	32	ug/l	SW846 6010D
Manganese		856	15	1.4	ug/l	SW846 6010D
Nickel		432	10	1.7	ug/l	SW846 6010D
Vanadium		5.8 J	50	1.8	ug/l	SW846 6010D
Zinc		307	20	6.9	ug/l	SW846 6010D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 25. Deg. C
(b) Elevated detection limit due to dilution required for high interfering element.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	AOC1-MW06-20210428		
Lab Sample ID:	JD24078-1	**Date Sampled:**	04/28/21
Matrix:	AQ - Ground Water	**Date Received:**	04/28/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2130	200	46	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Arsenic	8.7	3.0	2.8	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Beryllium	1.9	1.0	0.50	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Cadmium	1.0 J	3.0	1.0	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Copper	118	4.0	1.9	ug/l	2	04/30/21	05/03/21	NV	SW846 6020B [2]	SW846 3010A [4]
Iron	432	100	32	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Lead	1.8 U	3.0	1.8	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Manganese	67.5	15	1.4	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Nickel	52.6	10	1.7	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Vanadium	1.8 U	50	1.8	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Zinc	70.6	20	6.9	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA50462
(2) Instrument QC Batch: MA50469
(3) Prep QC Batch: MP26230
(4) Prep QC Batch: MP26230A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW06-20210428		
Lab Sample ID:	JD24078-1	**Date Sampled:**	04/28/21
Matrix:	AQ - Ground Water	**Date Received:**	04/28/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate [a]	0.093 U	0.11	0.093	mg/l	1	05/04/21 15:59	BM	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090	mg/l	1	05/04/21 15:59	BM	EPA 353.2/LACHAT
Nitrogen, Nitrite	0.0055 J	0.010	0.0030	mg/l	1	04/29/21 23:06	EB	SM4500NO2 B-11
Redox Potential Vs H2	543			mv	1	04/30/21 14:08	LM	ASTM D1498-76
Sulfate	109	2.0	0.89	mg/l	1	05/04/21 01:56	MH	EPA 300/SW846 9056A
pH [b]	4.40			su	1	04/30/21 14:48	LM	SM4500H+ B-11

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(b) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 25. Deg. C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW06-20210428		
Lab Sample ID:	JD24078-1F	**Date Sampled:**	04/28/21
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/28/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1960	200	46	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Arsenic	2.8 U	3.0	2.8	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Beryllium	2.0	1.0	0.50	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Cadmium	1.1 J	3.0	1.0	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Copper	115	4.0	1.9	ug/l	2	04/30/21	05/03/21	NV	SW846 6020B [2]	SW846 3010A [4]
Iron	254	100	32	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Lead	1.8 U	3.0	1.8	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Manganese	68.2	15	1.4	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Nickel	52.1	10	1.7	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Vanadium	1.8 U	50	1.8	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]
Zinc	70.0	20	6.9	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA50462
(2) Instrument QC Batch: MA50469
(3) Prep QC Batch: MP26230
(4) Prep QC Batch: MP26230A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	MW06(5-9)-20210427		
Lab Sample ID:	JD24078-2	**Date Sampled:**	04/27/21
Matrix:	SO - Soil	**Date Received:**	04/28/21
		Percent Solids:	67.5
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	12300	67	11	mg/kg	1	04/30/21	05/01/21	ND	SW846 6010D [1]	SW846 3050B [3]
Arsenic [a]	123	13	1.9	mg/kg	5	04/30/21	05/04/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	2.8	0.27	0.11	mg/kg	1	04/30/21	05/01/21	ND	SW846 6010D [1]	SW846 3050B [3]
Cadmium	0.50 J	0.67	0.094	mg/kg	1	04/30/21	05/01/21	ND	SW846 6010D [1]	SW846 3050B [3]
Copper [a]	40.2	17	5.7	mg/kg	5	04/30/21	05/04/21	ND	SW846 6010D [2]	SW846 3050B [3]
Iron	51100	340	130	mg/kg	5	04/30/21	05/04/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead [a]	17.8	13	2.8	mg/kg	5	04/30/21	05/04/21	ND	SW846 6010D [2]	SW846 3050B [3]
Manganese [a]	48.6	10	2.8	mg/kg	5	04/30/21	05/04/21	ND	SW846 6010D [2]	SW846 3050B [3]
Nickel	33.4	5.4	0.47	mg/kg	1	04/30/21	05/01/21	ND	SW846 6010D [1]	SW846 3050B [3]
Vanadium [a]	60.4	34	1.3	mg/kg	5	04/30/21	05/04/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	46.4	6.7	3.1	mg/kg	1	04/30/21	05/01/21	ND	SW846 6010D [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA50466
(2) Instrument QC Batch: MA50476
(3) Prep QC Batch: MP26232

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH-14S-20210428		
Lab Sample ID:	JD24078-3	**Date Sampled:**	04/28/21
Matrix:	AQ - Ground Water	**Date Received:**	04/28/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	133000	200	46	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Arsenic [a]	16.5	15	14	ug/l	5	04/30/21	05/04/21	LL	SW846 6010D [3]	SW846 3010A [4]
Beryllium	23.8	1.0	0.50	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Cadmium	3.1	3.0	1.0	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Copper	419	10	4.7	ug/l	5	04/30/21	05/04/21	NV	SW846 6020B [2]	SW846 3010A [5]
Iron	60400	100	32	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Lead [a]	9.0 U	15	9.0	ug/l	5	04/30/21	05/04/21	LL	SW846 6010D [3]	SW846 3010A [4]
Manganese	894	15	1.4	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Nickel	454	10	1.7	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Vanadium	7.1 J	50	1.8	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Zinc	325	20	6.9	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA50462
(2) Instrument QC Batch: MA50479
(3) Instrument QC Batch: MA50481
(4) Prep QC Batch: MP26230
(5) Prep QC Batch: MP26230A

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH-14S-20210428		
Lab Sample ID:	JD24078-3	**Date Sampled:**	04/28/21
Matrix:	AQ - Ground Water	**Date Received:**	04/28/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate [a]	0.093 U	0.11	0.093	mg/l	1	05/04/21 16:00	BM	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090	mg/l	1	05/04/21 16:00	BM	EPA 353.2/LACHAT
Nitrogen, Nitrite	0.0063 J	0.010	0.0030	mg/l	1	04/29/21 23:06	EB	SM4500NO2 B-11
Redox Potential Vs H2	599			mv	1	04/30/21 14:09	LM	ASTM D1498-76
Sulfate	1540	20	8.9	mg/l	10	05/04/21 17:37	MH	EPA 300/SW846 9056A
pH [b]	3.37			su	1	04/30/21 14:51	LM	SM4500H+ B-11

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(b) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 25. Deg. C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH-14S-20210428		
Lab Sample ID:	JD24078-3F	**Date Sampled:**	04/28/21
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/28/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	132000	200	46	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Arsenic [a]	14 U	15	14	ug/l	5	04/30/21	05/04/21	LL	SW846 6010D [3]	SW846 3010A [4]
Beryllium	23.6	1.0	0.50	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Cadmium	3.0	3.0	1.0	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Copper	430	10	4.7	ug/l	5	04/30/21	05/04/21	NV	SW846 6020B [2]	SW846 3010A [5]
Iron	59000	100	32	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Lead [a]	9.0 U	15	9.0	ug/l	5	04/30/21	05/04/21	LL	SW846 6010D [3]	SW846 3010A [4]
Manganese	886	15	1.4	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Nickel	451	10	1.7	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Vanadium	6.4 J	50	1.8	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Zinc	319	20	6.9	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA50462
(2) Instrument QC Batch: MA50479
(3) Instrument QC Batch: MA50481
(4) Prep QC Batch: MP26230
(5) Prep QC Batch: MP26230A

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH14S(5-7)-20210427		
Lab Sample ID:	JD24078-4	**Date Sampled:**	04/27/21
Matrix:	SO - Soil	**Date Received:**	04/28/21
		Percent Solids:	65.5
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	10200	67	11	mg/kg	1	04/30/21	05/01/21	ND	SW846 6010D [1]	SW846 3050B [3]
Arsenic	139	2.7	0.37	mg/kg	1	04/30/21	05/01/21	ND	SW846 6010D [1]	SW846 3050B [3]
Beryllium	1.9	0.27	0.11	mg/kg	1	04/30/21	05/01/21	ND	SW846 6010D [1]	SW846 3050B [3]
Cadmium	0.54 J	0.67	0.094	mg/kg	1	04/30/21	05/01/21	ND	SW846 6010D [1]	SW846 3050B [3]
Copper	45.2	3.3	1.1	mg/kg	1	04/30/21	05/04/21	ND	SW846 6010D [2]	SW846 3050B [3]
Iron	24500	67	26	mg/kg	1	04/30/21	05/01/21	ND	SW846 6010D [1]	SW846 3050B [3]
Lead	18.8	2.7	0.55	mg/kg	1	04/30/21	05/01/21	ND	SW846 6010D [1]	SW846 3050B [3]
Manganese	18.8	2.0	0.55	mg/kg	1	04/30/21	05/04/21	ND	SW846 6010D [2]	SW846 3050B [3]
Nickel	17.8	5.4	0.47	mg/kg	1	04/30/21	05/01/21	ND	SW846 6010D [1]	SW846 3050B [3]
Vanadium	46.0	6.7	0.25	mg/kg	1	04/30/21	05/04/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	24.0	6.7	3.1	mg/kg	1	04/30/21	05/01/21	ND	SW846 6010D [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA50466
(2) Instrument QC Batch: MA50476
(3) Prep QC Batch: MP26232

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH14S-20210428-FD		
Lab Sample ID:	JD24078-5	**Date Sampled:**	04/28/21
Matrix:	AQ - Ground Water	**Date Received:**	04/28/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	132000	200	46	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Arsenic [a]	16.4	15	14	ug/l	5	04/30/21	05/04/21	LL	SW846 6010D [3]	SW846 3010A [4]
Beryllium	23.4	1.0	0.50	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Cadmium	3.2	3.0	1.0	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Copper	424	10	4.7	ug/l	5	04/30/21	05/04/21	NV	SW846 6020B [2]	SW846 3010A [5]
Iron	60400	100	32	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Lead [a]	9.0 U	15	9.0	ug/l	5	04/30/21	05/04/21	LL	SW846 6010D [3]	SW846 3010A [4]
Manganese	888	15	1.4	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Nickel	454	10	1.7	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Vanadium	7.5 J	50	1.8	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Zinc	320	20	6.9	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA50462
(2) Instrument QC Batch: MA50479
(3) Instrument QC Batch: MA50481
(4) Prep QC Batch: MP26230
(5) Prep QC Batch: MP26230A

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH14S-20210428-FD		
Lab Sample ID:	JD24078-5F	**Date Sampled:**	04/28/21
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/28/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	128000	200	46	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Arsenic [a]	15.7	15	14	ug/l	5	04/30/21	05/04/21	LL	SW846 6010D [3]	SW846 3010A [4]
Beryllium	22.8	1.0	0.50	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Cadmium	3.0	3.0	1.0	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Copper	419	10	4.7	ug/l	5	04/30/21	05/04/21	NV	SW846 6020B [2]	SW846 3010A [5]
Iron	56200	100	32	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Lead [a]	9.0 U	15	9.0	ug/l	5	04/30/21	05/04/21	LL	SW846 6010D [3]	SW846 3010A [4]
Manganese	856	15	1.4	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Nickel	432	10	1.7	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Vanadium	5.8 J	50	1.8	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]
Zinc	307	20	6.9	ug/l	1	04/30/21	04/30/21	LL	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA50462
(2) Instrument QC Batch: MA50479
(3) Instrument QC Batch: MA50481
(4) Prep QC Batch: MP26230
(5) Prep QC Batch: MP26230A

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

Parameter Certification Exceptions

Job Number: JD24078
Account: CBIMAC APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Redox Potential Vs H2		**ASTM D1498-76**	AQ	SGS is not certified for this parameter. [a]

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

SGS

GW
SO

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

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FED-EX Tracking # 9324437C 3488
SGS Quote # NRG-CT account pricing 10/2016
Bottle Order Control # TF-041621-113
SGS Job # JD24078

Client / Reporting Information

Company Name: APTIM
Street Address: 150 Royall St.
City / State / Zip: Canton, MA 02021
Project Contact / E-mail: Andrea.Steele@aptim.com
Phone #: 774-573-9090
Sampler(s) Name(s) / Phone #: Austin Magnant 774-551-6197

Project Information

Project Name: NRG-Norwalk
Street: One Manresa Island Ave.
City / State: Norwalk CT
Project #: 631020644.006
Client Purchase Order #: N/A
Project Manager: Andrew.Walker@aptim.com

Billing Information (If different from Report to)
Company Name
Street Address
City / State / Zip
Attention:

Requested Analysis

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	Total Metals (6010 - Al As Be Cd Fe Pb Ni V Zn; 6020 - Cu)	Dissolved Metals [field filtered] (6010 - Al As Be Cd Fe Pb Ni V Zn; 6020 - Cu)	pH (EPA 150.1)	ORP	Nitrate (SM21 4500 NO2 B)	Nitrite (EPA 353.2)	Sulfate (EPA 300/SW846 9056A)	Total Metals (Method 6010 - Al As Be Cd Cu Fe Pb Ni V Zn)				LAB USE ONLY
1F	AOC1-MW06-202104 28	NA	4-28-21	0920	AM	G	GW	6			2	1	3				X	X	X	X	X	X	X					A32
2	MW06(5-7)-20210427	NA	4-27-21	1230	AM	C	SO	1					1											X				M9
3F	NH-14S-20210428	NA	4-28-21	1335	AM	G	GW	6			2	1	3				X	X	X	X	X	X	X					D30
4	NH14S(5-7-202104 27	NA	4-27-21	1630	AM	C	SO	1					1											X				
5F	NH14S-202104 28-FD	NA	4-28-21	1335	AM	G	GW	2			2						X	X										

SGS-ACCUTEST MARLBOR 4/28

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

INITIAL ASSESSMENT 3B-PP
LABEL VERIFICATION

All data available via Lablink
* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [X] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [X] CT RCP Criteria SWPC, WQC, DEC
- [ ] State Forms
- [X] EDD Format EQuIS
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Dissolved metals samples are field filtered.
Report metals to MDL.
QA/QC Reporting: CT RCP and Site-Specific QAPP.
Please email EQuIS formatted EDD to catherine.joe@aptim.com and lisa.george@aptim.com.

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	04-28-21 1430	1 Scott Parsons	2 Scott Parsons	4-23-21 1830	2 FedEx
3 FedEx	4/29/2021 10:15	3 Jane Jones	4		4
5		5			

Custody Seal # 02285 [✓] Intact [ ] Not intact
Preserved where applicable: Absent [✓]
Therm. ID: IR4
On Ice [✓]
Cooler Temp. °C 3.5°C

HNO3X2

02b_NRG-NWK_SGS-Dayton_COC_bench Apr2021_PRINT 2.xlsx

JD24078: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD24078 **Client:** APTIM **Project:** NRG, ONE MANRESA ISLAND ROAD, NORWAL

Date / Time Received: 4/28/2021 5:00:00 PM **Delivery Method:** Fed Ex **Airbill #'s:** 9304 4370 3488

Cooler Temps (Raw Measured) °C: Cooler 1: (3.5);

Cooler Temps (Corrected) °C: Cooler 1: (2.8);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify) _____ _____

Comments

SM089-03
Rev. Date 12/7/17

JD24078: Chain of Custody
Page 2 of 2

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **APTIM**

Project Location: **NRG, One Manresa Island Road, Norwalk, CT** **Project Number:** **631217784.01021320 / P-CARD**

Sampling Date(s): **4/28/2021**

Laboratory Sample ID(s): JD24078-1, JD24078-2, JD24078-3, JD24078-4, JD24078-5, JD24078-1F, JD24078-3F, JD24078-5F

Methods: ASTM D1498-76, EPA 300/SW846 9056A, EPA 353.2/LACHAT, EPA353.2/SM4500NO2B, SM2540 G 18TH ED MOD, SM4500H+ B-11, SM4500NO2 B-11, SW846 6010D, SW846 6020B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☑ No ☐
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☑ No ☐

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Caitlin Brice Position: General Manager

Printed Name: Caitlin Brice Date: 5/5/2021

Internal Sample Tracking Chronicle

APTIM

Job No: JD24078

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631020644.006

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD24078-1 Collected: 28-APR-21 09:20 By: AM Received: 28-APR-21 By: JK AOC1-MW06-20210428						
JD24078-1	SM4500NO2 B-11	29-APR-21 23:06	EB			NO2
JD24078-1	ASTM D1498-76	30-APR-21 14:08	LM			EH
JD24078-1	SM4500H+ B-11	30-APR-21 14:48	LM			PHLABTEMP
JD24078-1	SW846 6010D	30-APR-21 20:01	LL	30-APR-21	MS	AL,AS,BE,CD,FE,MN,NI,PB,V,ZN
JD24078-1	SW846 6020B	03-MAY-21 23:05	NV	30-APR-21	AF	CUMS
JD24078-1	EPA 300/SW846 9056A	04-MAY-21 01:56	MH	03-MAY-21	MH	SO4
JD24078-1	EPA353.2/SM4500NO2B	04-MAY-21 15:59	BM			NO3O
JD24078-1	EPA 353.2/LACHAT	04-MAY-21 15:59	BM	04-MAY-21	BM	NO32
JD24078-2 Collected: 27-APR-21 12:30 By: AM Received: 28-APR-21 By: JK MW06(5-9)-20210427						
JD24078-2	SM2540 G 18TH ED MOD	30-APR-21 17:50	RK			SOL104
JD24078-2	SW846 6010D	01-MAY-21 02:49	ND	30-APR-21	MS	AL,BE,CD,NI,ZN
JD24078-2	SW846 6010D	04-MAY-21 13:24	ND	30-APR-21	MS	AS,CU,FE,MN,PB,V
JD24078-3 Collected: 28-APR-21 13:35 By: AM Received: 28-APR-21 By: JK NH-14S-20210428						
JD24078-3	SM4500NO2 B-11	29-APR-21 23:06	EB			NO2
JD24078-3	ASTM D1498-76	30-APR-21 14:09	LM			EH
JD24078-3	SM4500H+ B-11	30-APR-21 14:51	LM			PHLABTEMP
JD24078-3	SW846 6010D	30-APR-21 20:21	LL	30-APR-21	MS	AL,BE,CD,FE,MN,NI,V,ZN
JD24078-3	SW846 6010D	04-MAY-21 15:21	LL	30-APR-21	MS	AS,PB
JD24078-3	EPA353.2/SM4500NO2B	04-MAY-21 16:00	BM			NO3O
JD24078-3	EPA 353.2/LACHAT	04-MAY-21 16:00	BM	04-MAY-21	BM	NO32
JD24078-3	EPA 300/SW846 9056A	04-MAY-21 17:37	MH	03-MAY-21	MH	SO4
JD24078-3	SW846 6020B	04-MAY-21 19:40	NV	30-APR-21	AF	CUMS
JD24078-4 Collected: 27-APR-21 16:30 By: AM Received: 28-APR-21 By: JK NH14S(5-7)-20210427						
JD24078-4	SM2540 G 18TH ED MOD	30-APR-21 17:50	RK			SOL104
JD24078-4	SW846 6010D	01-MAY-21 02:54	ND	30-APR-21	MS	AL,AS,BE,CD,FE,NI,PB,ZN
JD24078-4	SW846 6010D	04-MAY-21 13:28	ND	30-APR-21	MS	CU,MN,V

Internal Sample Tracking Chronicle

APTIM

Job No: JD24078

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631020644.006

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD24078-5 Collected: 28-APR-21 13:35 By: AM Received: 28-APR-21 By: JK NH14S-20210428-FD						
JD24078-5	SW846 6010D	30-APR-21 20:26	LL	30-APR-21	MS	AL,BE,CD,FE,MN,NI,V,ZN
JD24078-5	SW846 6010D	04-MAY-21 15:26	LL	30-APR-21	MS	AS,PB
JD24078-5	SW846 6020B	04-MAY-21 19:46	NV	30-APR-21	AF	CUMS
JD24078-1F Collected: 28-APR-21 09:20 By: AM Received: 28-APR-21 By: JK AOC1-MW06-20210428						
JD24078-1F	SW846 6010D	30-APR-21 20:31	LL	30-APR-21	MS	AL,AS,BE,CD,FE,MN,NI,PB,V,ZN
JD24078-1F	SW846 6020B	03-MAY-21 23:26	NV	30-APR-21	AF	CUMS
JD24078-3F Collected: 28-APR-21 13:35 By: AM Received: 28-APR-21 By: JK NH-14S-20210428						
JD24078-3F	SW846 6010D	30-APR-21 20:36	LL	30-APR-21	MS	AL,BE,CD,FE,MN,NI,V,ZN
JD24078-3F	SW846 6010D	04-MAY-21 15:31	LL	30-APR-21	MS	AS,PB
JD24078-3F	SW846 6020B	04-MAY-21 19:51	NV	30-APR-21	AF	CUMS
JD24078-5F Collected: 28-APR-21 13:35 By: AM Received: 28-APR-21 By: JK NH14S-20210428-FD						
JD24078-5F	SW846 6010D	30-APR-21 20:41	LL	30-APR-21	MS	AL,BE,CD,FE,MN,NI,V,ZN
JD24078-5F	SW846 6010D	04-MAY-21 15:36	LL	30-APR-21	MS	AS,PB
JD24078-5F	SW846 6020B	04-MAY-21 19:57	NV	30-APR-21	AF	CUMS

QC Evaluation: CT RCP Limits

Job Number: JD24078
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 04/27/21 thru 04/28/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No CT RCP Limits Found.

* Sample used for QC is not from job JD24078

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26230
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/30/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	46	123	<200 (a)
Antimony	6.0	2.5	4.7		
Arsenic	3.0	2	2.8	0.70	<3.0
Barium	200	.4	13		
Beryllium	1.0	.1	.5	0.0	<1.0
Bismuth	20	3.6	4		
Boron	100	1.9	63		
Cadmium	3.0	.4	1	0.10	<3.0
Calcium	5000	5.6	99		
Cerium	100				
Chromium	10	.5	2		
Cobalt	50	.5	2.6		
Copper	10	1	5.9		
Iron	100	11	32	7.5	<100
Lead	3.0	1.2	1.8	-0.50	<3.0
Lithium	50	2.3	7.3		
Magnesium	5000	65	140		
Manganese	15	.2	1.4	0.10	<15
Molybdenum	20	.4	3.6		
Nickel	10	.3	1.7	-0.10	<10
Phosphorus	50	4.1	18		
Potassium	10000	55	200		
Selenium	10	3.5	4.9		
Silicon	200	1.6	100		
Silver	10	1.1	1.9		
Sodium	10000	11	570		
Strontium	10	.1	1		
Sulfur	50	4.4	45		
Thallium	10	2.5	1.8		
Tin	10	1	3.7		
Titanium	10	.4	2.5		
Tungsten	50	2.8	40		
Vanadium	50	.6	1.8	-0.20	<50

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26230
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/30/21

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.1	6.9	1.1	<20
Zirconium	10	.4	4.1		

Associated samples MP26230: JD24078-1, JD24078-3, JD24078-5, JD24078-1F, JD24078-3F, JD24078-5F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) All reported results <RL or >10x MB value.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26230
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/30/21

Metal	JD24078-1 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	2130	27400	25000	101.1	75-125
Antimony					
Arsenic	8.7	1900	2000	94.6	75-125
Barium					
Beryllium	1.9	2030	2000	101.4	75-125
Bismuth					
Boron					
Cadmium	1.0	2060	2000	103.0	75-125
Calcium					
Cerium					
Chromium					
Cobalt					
Copper					
Iron	432	26700	25000	105.1	75-125
Lead	1.4	1990	2000	99.4	75-125
Lithium					
Magnesium					
Manganese	67.5	2120	2000	102.6	75-125
Molybdenum					
Nickel	52.6	2030	2000	98.9	75-125
Phosphorus					
Potassium					
Selenium					
Silicon					
Silver					
Sodium					
Strontium					
Sulfur					
Thallium					
Tin					
Titanium					
Tungsten					
Vanadium	1.4	1980	2000	98.9	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26230
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/30/21

Metal	JD24078-1 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Zinc	70.6	2070	2000	100.0	75-125
Zirconium					

Associated samples MP26230: JD24078-1, JD24078-3, JD24078-5, JD24078-1F, JD24078-3F, JD24078-5F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26230
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/30/21

Metal	JD24078-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	2130	27100	25000	99.9	1.1	20
Antimony						
Arsenic	8.7	1880	2000	93.6	1.1	20
Barium						
Beryllium	1.9	2010	2000	100.4	1.0	20
Bismuth						
Boron						
Cadmium	1.0	2040	2000	102.0	1.0	20
Calcium						
Cerium						
Chromium						
Cobalt						
Copper						
Iron	432	26500	25000	104.3	0.8	20
Lead	1.4	1980	2000	98.9	0.5	20
Lithium						
Magnesium						
Manganese	67.5	2100	2000	101.6	0.9	20
Molybdenum						
Nickel	52.6	2010	2000	97.9	1.0	20
Phosphorus						
Potassium						
Selenium						
Silicon						
Silver						
Sodium						
Strontium						
Sulfur						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium	1.4	1970	2000	98.4	0.5	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26230
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/30/21

Metal	JD24078-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zinc	70.6	2050	2000	99.0	1.0	20
Zirconium						

Associated samples MP26230: JD24078-1, JD24078-3, JD24078-5, JD24078-1F, JD24078-3F, JD24078-5F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26230
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/30/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	25500	25000	102.0	80-120
Antimony				
Arsenic	1910	2000	95.5	80-120
Barium				
Beryllium	2030	2000	101.5	80-120
Bismuth				
Boron				
Cadmium	2070	2000	103.5	80-120
Calcium				
Cerium				
Chromium				
Cobalt				
Copper				
Iron	26400	25000	105.6	80-120
Lead	2020	2000	101.0	80-120
Lithium				
Magnesium				
Manganese	2060	2000	103.0	80-120
Molybdenum				
Nickel	1990	2000	99.5	80-120
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium	1990	2000	99.5	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26230
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/30/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zinc	2030	2000	101.5	80-120
Zirconium				

Associated samples MP26230: JD24078-1, JD24078-3, JD24078-5, JD24078-1F, JD24078-3F, JD24078-5F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26230
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/30/21

Metal	JD24078-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	2130	2290	7.6	0-10
Antimony				
Arsenic	8.70	0.00	100.0(a)	0-10
Barium				
Beryllium	1.90	2.10	10.5 (a)	0-10
Bismuth				
Boron				
Cadmium	1.00	0.00	100.0(a)	0-10
Calcium				
Cerium				
Chromium				
Cobalt				
Copper				
Iron	432	462	6.9	0-10
Lead	1.40	0.00	100.0(a)	0-10
Lithium				
Magnesium				
Manganese	67.5	71.2	5.5	0-10
Molybdenum				
Nickel	52.6	53.5	1.7	0-10
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium	1.40	0.00	100.0(a)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26230
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/30/21

Metal	JD24078-1 Original	SDL 1:5	%DIF	QC Limits
Zinc	70.6	103	45.9*(b)	0-10
Zirconium				

Associated samples MP26230: JD24078-1, JD24078-3, JD24078-5, JD24078-1F, JD24078-3F, JD24078-5F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26230A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 04/30/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.83	32		
Antimony	4.0	.17	1.7		
Arsenic	1.0	.05	.94		
Barium	2.0	.018	.73		
Beryllium	1.0	.01	.15		
Boron	50	1.7	14		
Cadmium	1.0	.02	.17		
Calcium	500	7.2	64		
Chromium	2.0	.036	.62		
Cobalt	1.0	.006	.17		
Copper	4.0	.048	1.9	0.041	<4.0
Iron	50	.47	19		
Lead	1.0	.016	.52		
Magnesium	500	.38	46		
Manganese	2.0	.024	.63		
Molybdenum	2.0	.034	.45		
Nickel	2.0	.034	.95		
Potassium	500	1.6	68		
Selenium	1.0	.088	.55		
Silver	1.0	.008	.16		
Sodium	500	3	140		
Strontium	10	.028	2.4		
Thallium	1.0	.004	.17		
Tin	10	.082	2.6		
Titanium	2.0	.22	1.6		
Vanadium	2.0	.026	1.8		
Zinc	10	.16	5.4		

Associated samples MP26230A: JD24078-1, JD24078-3, JD24078-5, JD24078-1F, JD24078-3F, JD24078-5F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26230A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 04/30/21

Metal	JD24078-1 Original	MS	Spikelot MP6020AQ3	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper	118	189	80	88.8	75-125
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc					

Associated samples MP26230A: JD24078-1, JD24078-3, JD24078-5, JD24078-1F, JD24078-3F, JD24078-5F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26230A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 04/30/21

Metal	JD24078-1 Original	MSD	Spikelot MP6020AQ3%	Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper	118	186	80	85.0	1.6	20
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP26230A: JD24078-1, JD24078-3, JD24078-5, JD24078-1F, JD24078-3F, JD24078-5F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26230A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 04/30/21

Metal	BSP Result	Spikelot MP6020AQ3	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	74.9	80	93.6	80-120
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP26230A: JD24078-1, JD24078-3, JD24078-5, JD24078-1F, JD24078-3F, JD24078-5F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26230A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 04/30/21

Metal	JD24078-1 Original	SDL 2:10	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	118	121	3.1	0-10
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP26230A: JD24078-1, JD24078-3, JD24078-5, JD24078-1F, JD24078-3F, JD24078-5F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26232
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 04/30/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	1.7	8.1	1.9	<50
Antimony	2.0	.17	.41		
Arsenic	2.0	.21	.28	0.16	<2.0
Barium	20	.08	1.9		
Beryllium	0.20	.03	.08	0.040	<0.20
Bismuth	2.0	.23	.52		
Boron	10	.23	1.5		
Cadmium	0.50	.03	.07	0.0	<0.50
Calcium	500	.66	44		
Chromium	1.0	.03	.37		
Cobalt	5.0	.04	.28		
Copper	2.5	.08	.84	0.29	<2.5
Iron	50	.53	19	4.5	<50
Lead	2.0	.11	.41	0.0	<2.0
Lithium	5.0	.48	.92		
Magnesium	500	3.2	14		
Manganese	1.5	.01	.41	0.15	<1.5
Molybdenum	2.0	.06	.32		
Nickel	4.0	.04	.35	0.050	<4.0
Phosphorus	20	.12	3.3		
Potassium	1000	7.7	32		
Selenium	2.0	.32	.65		
Silicon	20	.17	11		
Silver	0.50	.1	.17		
Sodium	1000	3.4	78		
Strontium	5.0	.03	.18		
Sulfur	10	.3	9.4		
Thallium	1.0	.18	.58		
Tin	20	.08	3.8		
Titanium	1.0	.05	.34		
Tungsten	5.0	.26	1.8		
Vanadium	5.0	.06	.19	0.13	<5.0
Zinc	5.0	.01	2.3	0.19	<5.0

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26232
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 04/30/21

Metal	RL	IDL	MDL	MB raw	final
Zirconium	2.0	.03	.23		

Associated samples MP26232: JD24078-2, JD24078-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26232
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 04/30/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	2510	2480	101.4	80-120
Antimony	anr			
Arsenic	191	198	96.5	80-120
Barium	anr			
Beryllium	196	198	99.0	80-120
Bismuth				
Boron				
Cadmium	196	198	99.0	80-120
Calcium				
Chromium				
Cobalt				
Copper	191	198	96.5	80-120
Iron	2420	2480	97.8	80-120
Lead	200	198	101.0	80-120
Lithium				
Magnesium				
Manganese	195	198	98.5	80-120
Molybdenum				
Nickel	192	198	97.0	80-120
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	192	198	97.0	80-120
Zinc	199	198	100.5	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26232
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 04/30/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP26232: JD24078-2, JD24078-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26232
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/30/21

Metal	JD23306-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum	106000	109000	2.5	0-10
Antimony	anr			
Arsenic	165	171	3.5	0-10
Barium	anr			
Beryllium	7.00	6.80	2.9	0-10
Bismuth				
Boron				
Cadmium	3.20	2.80	12.5 (a)	0-10
Calcium				
Chromium				
Cobalt				
Copper	534	456	14.7*(b)	0-10
Iron	279000	256000	8.5	0-10
Lead	21300	19100	10.2*(b)	0-10
Lithium				
Magnesium				
Manganese	6420	5750	10.5*(b)	0-10
Molybdenum				
Nickel	241	245	1.7	0-10
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	277	234	15.5 (a)	0-10
Zinc	591	632	6.9	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP26232
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/30/21

Metal	JD23306-2 Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP26232: JD24078-2, JD24078-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP33508/GN17739	2.0	0.0	mg/l	80	86.0	107.5	90-110%
Nitrogen, Nitrate + Nitrite	GP33531/GN17793	0.10	0.0	mg/l	2	1.93	96.5	90-110%
Nitrogen, Nitrite	GN17645	0.010	0.0	mg/l	0.04	0.040	100.0	90-110%
Sulfate	GP33508/GN17739	2.0	0.0	mg/l	80	79.6	99.5	90-110%

Associated Samples:
Batch GN17645: JD24078-1, JD24078-3
Batch GP33508: JD24078-1, JD24078-3
Batch GP33531: JD24078-1, JD24078-3
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Nitrogen, Nitrate + Nitrite	GP33531/GN17793	JD24078-1	mg/l	0.090 U	0.0	0.0	0-33%
Redox Potential Vs H2	GN17655	JD24078-1	mv	543	532	2.0	0-14%
pH	GN17661	JD24078-1	su	4.40	4.34	1.4	0-10%

Associated Samples:
Batch GN17655: JD24078-1, JD24078-3
Batch GN17661: JD24078-1, JD24078-3
Batch GP33531: JD24078-1, JD24078-3
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD24078
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Nitrogen, Nitrate + Nitrite	GP33531/GN17793	JD24078-1	mg/l	0.090 U	1	0.89	89.0N(a)	90-110%

Associated Samples:
Batch GP33531: JD24078-1, JD24078-3
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

Data Usability Worksheet

Project Name : NRG Norwalk

Job Number : 631020644.00721320

Prepared By: Sushama S. Paranjape

Reviewed Date : 9/07/2021

Matrix: Groundwater

Laboratory ID No. : SGS JD29525
Issue date 8/20/2021

Sampling Date : 8/05/2021

Analyte Group :	Metals	**Analytical Method :**	EPA 6010D
			EPA 6020B
	Nitrogen, Nitrate		EPA353.2/SM4500NO2B
	Nitrogen, Nitrate + Nitrite		EPA 353.2/LACHAT
	Nitrogen, Nitrite		SM4500NO2 B-11
	Redox Potential Vs H2		ASTM D1498-76
	Sulfate		EPA 300/SW846 9056A
	pH		SM4500H+ B-11

Completed Reasonable Confidence Protocols Certification Form included: Yes

Does the data package meet the requirements for "Reasonable Confidence"? Yes **Is it Complete ?** Yes

SGS laboratory certifies that all analysis were performed within method specifications and recommends that the report is to be used in its entirety: Yes

Chain of Custody included in Data Package ? Yes **Is it Complete ?** Yes

Sample Collection Date	Analysis	Allowable Holding Time for Extraction	Allowable Holding Time for Analysis	Preparetion/ Analysis Date
8/05/2021	Metals, EPA 6010D	NA	180 Days	8/12/2021
8/05/2021	Metals, EPA 6020B	NA	180 Days	8/17, 18/2021
8/05/2021	Nitrogen, Nitrate EPA353.2/SM4500NO2B	NA	28 Days	8/09/2021
8/05/2021	Nitrogen, Nitrate + Nitrite EPA 353.2/LACHAT	NA	28 Days	8/09/2021
8/05/2021	Nitrogen, Nitrite SM4500NO2 B-11	NA	48 Hours	8/06/2021
8/05/2021	Redox Potential Vs H2 ASTM D1498-76	NA	24 hours	8/09/2021
8/05/2021	Sulfate EPA 300/SW846 9056A	NA	28 Days	8/10/2021
8/05/2021	pH SM4500H+ B-11	NA	15 Minutes	8/09/2021

Sample Hold Times Met: No
Redox Potential Vs H2 and pH analyzed out of holding time, Redox Potential Vs H2 and pH results qualified "J" due to holding time excedeence for samples number AOC1-MW06-20210805 (JD29525-1) and NH-14S-20210805 (JD29525-2).

Sample Temperature Within QC Limits (0°C to 6°C) : Yes, 5.0°C

Surrogate Recovery
Are all % recoveries within the allowable range ? NA
If No, List sample ID where range was exceeded:

MS/MSD
Are all MS/MSD sample recoveries within the QC limits ? Yes
If No, list sample ID, date and compound where limit was exceeded:

Laboratory Control Samples
Are all laboratory control sample recoveries within the QC limits ? Yes
If No, list sample ID where range was exceeded:

Equipment Field Blank ID (required events 1/20) **:** NA None was needed, thus none was collected.
Trip Blank ID (required every cooler w/VOC) **:** NA

Method Blank: Analysis Method and ID:

Metals, 6010D	MP28007
Metals, 6020B	MP28007A
Nitrogen, Nitrate + Nitrite	GP35225/GN20667
Nitrogen, Nitrite	GN20621
Sulfate	GP35229/GN20666

Were any compounds identified in the method blank, field blank, or trip blank above detection limits ? No
If so, list Sample ID/Compound/Concentration/Units:

Method EPA 6010D Batch ID: MP28007
RPD(s) for Serial Dilutions for Arsenic, Cadmium, Lead, Nickel, and Zinc are outside control limits for sample JD29627-1.No qualification necessary, parent sample is not from this data set.

Method EPA 6020B Batch ID: MP28007A
RPD(s) for Serial Dilution for Copper is outside control limits for sample JD29627-1. No qualification necessary, parent sample is not from this data set.

Reviewed/Validated By: Sushama S. Paranjape **Date:** 9/07/2021

Field Duplicate (FD) ID (required 1/20 per parameter/matrix/procedure/team): NH-14S-20210805/FD
Did FD samples meet RPD standard (30% AQ)? Y

Completed By: Andrea Steele **Date:** 9/10/2021

Report of Analysis

Client Sample ID:	AOC1-MW06-20210805		
Lab Sample ID:	JD29525-1	**Date Sampled:**	08/05/21
Matrix:	AQ - Ground Water	**Date Received:**	08/05/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate [a]	0.093 U	0.11	0.093	mg/l	1	08/09/21 20:41	EB	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090	mg/l	1	08/09/21 20:41	EB	EPA 353.2/LACHAT
Nitrogen, Nitrite	0.0030 U	0.010	0.0030	mg/l	1	08/06/21 22:11	JJ	SM4500NO2 B-11
Redox Potential Vs H2	461 J			mv	1	08/09/21 12:42	MM	ASTM D1498-76
Sulfate	98.7	2.0	0.89	mg/l	1	08/10/21 08:13	EB	EPA 300/SW846 9056A
pH [b]	4.34 J			su	1	08/09/21 11:38	RS	SM4500H+ B-11

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(b) Sample received out of holding time for pH analysis. Temp of pH Reading: 14.1 Deg. C

sp
9/07/2021

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH-14S-20210805		
Lab Sample ID:	JD29525-2	**Date Sampled:**	08/05/21
Matrix:	AQ - Ground Water	**Date Received:**	08/05/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate [a]	0.11	0.11	0.093	mg/l	1	08/09/21 20:43	EB	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	0.11	0.10	0.090	mg/l	1	08/09/21 20:43	EB	EPA 353.2/LACHAT
Nitrogen, Nitrite	0.0030 U	0.010	0.0030	mg/l	1	08/06/21 22:11	JJ	SM4500NO2 B-11
Redox Potential Vs H2	655 J			mv	1	08/09/21 12:46	MM	ASTM D1498-76
Sulfate	1360	10	4.4	mg/l	5	08/10/21 22:34	EB	EPA 300/SW846 9056A
pH [b]	4.19 J			su	1	08/09/21 11:42	RS	SM4500H+ B-11

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(b) Sample received out of holding time for pH analysis. Temp of pH Reading: 14.6 Deg. C

sp
9/07/2021

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

APTIM

NRG, One Manresa Island Road, Norwalk, CT

631217784.01021320 / P-CARD ; Project#631020644.008

SGS Job Number: JD29525

Sampling Date: 08/05/21

Report to:

APTIM
150 Royall Street
Canton, MA 02021
Andrew.Walker@APTIM.com; Catherine.Joe@APTIM.com;
Andrea.Steele@APTIM.com
ATTN: Andrew Walker

Total number of pages in report: 38

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Michelle Jenkins 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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SGS North America Inc.

Sample Summary

APTIM

Job No: JD29525

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631217784.01021320 / P-CARD ; Project#631020644.008

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD29525-1	08/05/21	09:05 AM		08/05/21	AQ	Ground Water	AOC1-MW06-20210805
JD29525-1F	08/05/21	09:05 AM		08/05/21	AQ	Groundwater Filtered	AOC1-MW06-20210805
JD29525-2	08/05/21	13:00 AM		08/05/21	AQ	Ground Water	NH-14S-20210805
JD29525-2F	08/05/21	13:00 AM		08/05/21	AQ	Groundwater Filtered	NH-14S-20210805
JD29525-3	08/05/21	13:20 AM		08/05/21	AQ	Ground Water	NH-14S-20210805_FD

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	APTIM	**Job No**	JD29525
Site:	NRG, One Manresa Island Road, Norwalk, CT	**Report Date**	8/19/2021 2:22:57 PM

On 08/05/2021, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 5 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD29525 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP28007

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29627-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Cadmium, Lead, Nickel, Zinc are outside control limits for sample MP28007-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JD29525-2F for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD29525-1 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD29525-1 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD29525-2 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD29525-2 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD29525-3 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD29525-2F for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD29525-3 for Lead: Elevated detection limit due to dilution required for high interfering element.
- Only report requested metals.

Metals Analysis By Method SW846 6020B

Matrix: AQ **Batch ID:** MP28007A

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29627-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Copper are outside control limits for sample MP28007A-SD1. Serial dilution indicates possible matrix interference.
- Only report requested metals.

General Chemistry By Method ASTM D1498-76

Matrix: AQ **Batch ID:** GN20649

- Sample(s) JD29525-1DUP were used as the QC samples for Redox Potential Vs H2.

General Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ	Batch ID: GP35229

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29525-1DUP, JD29525-1MS were used as the QC samples for Sulfate.

General Chemistry By Method EPA 353.2/LACHAT

Matrix: AQ	Batch ID: GP35225

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA353.2/SM4500NO2B

Matrix: AQ	Batch ID: R192298

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JD29525-1 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix: AQ	Batch ID: R192299

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JD29525-2 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

General Chemistry By Method SM4500H+ B-11

Matrix: AQ	Batch ID: R192278

- The data for SM4500H+ B-11 meets quality control requirements.
- JD29525-2 for pH: Sample received out of holding time for pH analysis. Temp of pH Reading: 14.6 Deg. C
- JD29525-1 for pH: Sample received out of holding time for pH analysis. Temp of pH Reading: 14.1 Deg. C

General Chemistry By Method SM4500NO2 B-11

Matrix: AQ	Batch ID: GN20621

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29525-1MS, JD29525-1MSD were used as the QC samples for Nitrogen, Nitrite.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD29525
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 08/05/21

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Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29525-1	**AOC1-MW06-20210805**					
Aluminum		1030	200	46	ug/l	SW846 6010D
Arsenic [a]		15.7	15	14	ug/l	SW846 6010D
Beryllium		1.8	1.0	0.50	ug/l	SW846 6010D
Cadmium		2.3 J	3.0	1.0	ug/l	SW846 6010D
Copper		58.3	4.0	1.9	ug/l	SW846 6020B
Iron		2020	100	32	ug/l	SW846 6010D
Manganese		104	15	1.4	ug/l	SW846 6010D
Nickel		61.2	10	1.7	ug/l	SW846 6010D
Zinc		87.2	20	6.9	ug/l	SW846 6010D
Redox Potential Vs H2		461			mv	ASTM D1498-76
Sulfate		98.7	2.0	0.89	mg/l	EPA 300/SW846 9056A
pH [b]		4.34			su	SM4500H+ B-11
JD29525-1F	**AOC1-MW06-20210805**					
Aluminum		634	200	46	ug/l	SW846 6010D
Arsenic		11.0	3.0	2.8	ug/l	SW846 6010D
Beryllium		1.4	1.0	0.50	ug/l	SW846 6010D
Cadmium		2.0 J	3.0	1.0	ug/l	SW846 6010D
Copper		45.7	4.0	1.9	ug/l	SW846 6020B
Iron		1980	100	32	ug/l	SW846 6010D
Manganese		102	15	1.4	ug/l	SW846 6010D
Nickel		58.8	10	1.7	ug/l	SW846 6010D
Zinc		74.3	20	6.9	ug/l	SW846 6010D
JD29525-2	**NH-14S-20210805**					
Aluminum		83000	200	46	ug/l	SW846 6010D
Beryllium		15.0	1.0	0.50	ug/l	SW846 6010D
Cadmium		1.8 J	3.0	1.0	ug/l	SW846 6010D
Copper		251	10	4.7	ug/l	SW846 6020B
Iron		68300	100	32	ug/l	SW846 6010D
Manganese		757	15	1.4	ug/l	SW846 6010D
Nickel		328	10	1.7	ug/l	SW846 6010D
Vanadium		5.7 J	50	1.8	ug/l	SW846 6010D
Zinc		262	20	6.9	ug/l	SW846 6010D
Nitrogen, Nitrate [c]		0.11	0.11	0.093	mg/l	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite		0.11	0.10	0.090	mg/l	EPA 353.2/LACHAT
Redox Potential Vs H2		655			mv	ASTM D1498-76
Sulfate		1360	10	4.4	mg/l	EPA 300/SW846 9056A
pH [d]		4.19			su	SM4500H+ B-11

Summary of Hits

Job Number: JD29525
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 08/05/21

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29525-2F	**NH-14S-20210805**					
Aluminum		81100	200	46	ug/l	SW846 6010D
Arsenic [a]		14.3 J	15	14	ug/l	SW846 6010D
Beryllium		14.6	1.0	0.50	ug/l	SW846 6010D
Cadmium		1.8 J	3.0	1.0	ug/l	SW846 6010D
Copper		250	10	4.7	ug/l	SW846 6020B
Iron		66400	100	32	ug/l	SW846 6010D
Manganese		735	15	1.4	ug/l	SW846 6010D
Nickel		322	10	1.7	ug/l	SW846 6010D
Vanadium		5.4 J	50	1.8	ug/l	SW846 6010D
Zinc		257	20	6.9	ug/l	SW846 6010D
JD29525-3	**NH-14S-20210805_FD**					
Aluminum		81400	200	46	ug/l	SW846 6010D
Beryllium		14.6	1.0	0.50	ug/l	SW846 6010D
Cadmium		1.7 J	3.0	1.0	ug/l	SW846 6010D
Copper		248	10	4.7	ug/l	SW846 6020B
Iron		67600	100	32	ug/l	SW846 6010D
Manganese		745	15	1.4	ug/l	SW846 6010D
Nickel		323	10	1.7	ug/l	SW846 6010D
Vanadium		5.5 J	50	1.8	ug/l	SW846 6010D
Zinc		259	20	6.9	ug/l	SW846 6010D

(a) Elevated detection limit due to dilution required for high interfering element.
(b) Sample received out of holding time for pH analysis. Temp of pH Reading: 14.1 Deg. C
(c) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(d) Sample received out of holding time for pH analysis. Temp of pH Reading: 14.6 Deg. C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	AOC1-MW06-20210805		
Lab Sample ID:	JD29525-1	**Date Sampled:**	08/05/21
Matrix:	AQ - Ground Water	**Date Received:**	08/05/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1030	200	46	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Arsenic [a]	15.7	15	14	ug/l	5	08/11/21	08/12/21	ND	SW846 6010D [2]	SW846 3010A [4]
Beryllium	1.8	1.0	0.50	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Cadmium	2.3 J	3.0	1.0	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Copper	58.3	4.0	1.9	ug/l	2	08/11/21	08/17/21	NV	SW846 6020B [3]	SW846 3010A [5]
Iron	2020	100	32	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Lead [a]	9.0 U	15	9.0	ug/l	5	08/11/21	08/12/21	ND	SW846 6010D [2]	SW846 3010A [4]
Manganese	104	15	1.4	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Nickel	61.2	10	1.7	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Vanadium	1.8 U	50	1.8	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Zinc	87.2	20	6.9	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA50971
(2) Instrument QC Batch: MA50973
(3) Instrument QC Batch: MA50985
(4) Prep QC Batch: MP28007
(5) Prep QC Batch: MP28007A

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW06-20210805		
Lab Sample ID:	JD29525-1	**Date Sampled:**	08/05/21
Matrix:	AQ - Ground Water	**Date Received:**	08/05/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate [a]	0.093 U	0.11	0.093	mg/l	1	08/09/21 20:41	EB	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090	mg/l	1	08/09/21 20:41	EB	EPA 353.2/LACHAT
Nitrogen, Nitrite	0.0030 U	0.010	0.0030	mg/l	1	08/06/21 22:11	JJ	SM4500NO2 B-11
Redox Potential Vs H2	461			mv	1	08/09/21 12:42	MM	ASTM D1498-76
Sulfate	98.7	2.0	0.89	mg/l	1	08/10/21 08:13	EB	EPA 300/SW846 9056A
pH [b]	4.34			su	1	08/09/21 11:38	RS	SM4500H+ B-11

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(b) Sample received out of holding time for pH analysis. Temp of pH Reading: 14.1 Deg. C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC1-MW06-20210805		
Lab Sample ID:	JD29525-1F	**Date Sampled:**	08/05/21
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/05/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	634	200	46	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Arsenic	11.0	3.0	2.8	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [2]	SW846 3010A [4]
Beryllium	1.4	1.0	0.50	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Cadmium	2.0 J	3.0	1.0	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Copper	45.7	4.0	1.9	ug/l	2	08/11/21	08/17/21	NV	SW846 6020B [3]	SW846 3010A [5]
Iron	1980	100	32	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [2]	SW846 3010A [4]
Lead	1.8 U	3.0	1.8	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [2]	SW846 3010A [4]
Manganese	102	15	1.4	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Nickel	58.8	10	1.7	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Vanadium	1.8 U	50	1.8	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Zinc	74.3	20	6.9	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA50971
(2) Instrument QC Batch: MA50973
(3) Instrument QC Batch: MA50985
(4) Prep QC Batch: MP28007
(5) Prep QC Batch: MP28007A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH-14S-20210805		
Lab Sample ID:	JD29525-2	**Date Sampled:**	08/05/21
Matrix:	AQ - Ground Water	**Date Received:**	08/05/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	83000	200	46	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Arsenic [a]	14 U	15	14	ug/l	5	08/11/21	08/12/21	ND	SW846 6010D [2]	SW846 3010A [4]
Beryllium	15.0	1.0	0.50	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Cadmium	1.8 J	3.0	1.0	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Copper	251	10	4.7	ug/l	5	08/11/21	08/18/21	NV	SW846 6020B [3]	SW846 3010A [5]
Iron	68300	100	32	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [2]	SW846 3010A [4]
Lead [a]	9.0 U	15	9.0	ug/l	5	08/11/21	08/12/21	ND	SW846 6010D [2]	SW846 3010A [4]
Manganese	757	15	1.4	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Nickel	328	10	1.7	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Vanadium	5.7 J	50	1.8	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Zinc	262	20	6.9	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA50971
(2) Instrument QC Batch: MA50973
(3) Instrument QC Batch: MA50997
(4) Prep QC Batch: MP28007
(5) Prep QC Batch: MP28007A

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH-14S-20210805		
Lab Sample ID:	JD29525-2	**Date Sampled:**	08/05/21
Matrix:	AQ - Ground Water	**Date Received:**	08/05/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate [a]	0.11	0.11	0.093	mg/l	1	08/09/21 20:43	EB	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	0.11	0.10	0.090	mg/l	1	08/09/21 20:43	EB	EPA 353.2/LACHAT
Nitrogen, Nitrite	0.0030 U	0.010	0.0030	mg/l	1	08/06/21 22:11	JJ	SM4500NO2 B-11
Redox Potential Vs H2	655			mv	1	08/09/21 12:46	MM	ASTM D1498-76
Sulfate	1360	10	4.4	mg/l	5	08/10/21 22:34	EB	EPA 300/SW846 9056A
pH [b]	4.19			su	1	08/09/21 11:42	RS	SM4500H+ B-11

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
(b) Sample received out of holding time for pH analysis. Temp of pH Reading: 14.6 Deg. C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH-14S-20210805		
Lab Sample ID:	JD29525-2F	**Date Sampled:**	08/05/21
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/05/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	81100	200	46	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Arsenic [a]	14.3 J	15	14	ug/l	5	08/11/21	08/12/21	ND	SW846 6010D [2]	SW846 3010A [4]
Beryllium	14.6	1.0	0.50	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Cadmium	1.8 J	3.0	1.0	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Copper	250	10	4.7	ug/l	5	08/11/21	08/18/21	NV	SW846 6020B [3]	SW846 3010A [5]
Iron	66400	100	32	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [2]	SW846 3010A [4]
Lead [a]	9.0 U	15	9.0	ug/l	5	08/11/21	08/12/21	ND	SW846 6010D [2]	SW846 3010A [4]
Manganese	735	15	1.4	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Nickel	322	10	1.7	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Vanadium	5.4 J	50	1.8	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Zinc	257	20	6.9	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA50971
(2) Instrument QC Batch: MA50973
(3) Instrument QC Batch: MA50997
(4) Prep QC Batch: MP28007
(5) Prep QC Batch: MP28007A

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH-14S-20210805_FD		
Lab Sample ID:	JD29525-3	**Date Sampled:**	08/05/21
Matrix:	AQ - Ground Water	**Date Received:**	08/05/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	81400	200	46	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Arsenic [a]	14 U	15	14	ug/l	5	08/11/21	08/12/21	ND	SW846 6010D [2]	SW846 3010A [4]
Beryllium	14.6	1.0	0.50	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Cadmium	1.7 J	3.0	1.0	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Copper	248	10	4.7	ug/l	5	08/11/21	08/18/21	NV	SW846 6020B [3]	SW846 3010A [5]
Iron	67600	100	32	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [2]	SW846 3010A [4]
Lead [a]	9.0 U	15	9.0	ug/l	5	08/11/21	08/12/21	ND	SW846 6010D [2]	SW846 3010A [4]
Manganese	745	15	1.4	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Nickel	323	10	1.7	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Vanadium	5.5 J	50	1.8	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]
Zinc	259	20	6.9	ug/l	1	08/11/21	08/12/21	ND	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA50971
(2) Instrument QC Batch: MA50973
(3) Instrument QC Batch: MA50997
(4) Prep QC Batch: MP28007
(5) Prep QC Batch: MP28007A

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

Parameter Certification Exceptions

Job Number: JD29525
Account: CBIMAC APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Redox Potential Vs H2		**ASTM D1498-76**	AQ	SGS is not certified for this parameter. [a]

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

SGS GW

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

Page 1 of 1 E

FED-EX Tracking # 9504 4370 8983
SGS Quote # NRG-CT account pricing 10/2016
Bottle Order Contr MJ-072821-193
SGS Job # JD 29525

Client / Reporting Information

Company Name: APTIM
Street Address: 150 Royall St.
City / State / Zip: Canton, MA 02021
Project Contact / E-mail: Andrea.Steele@aptim.com
Phone #: 774-573-9090
Sampler(s) Name(s) / Phone #: Austin Magnant 774-551-6197

Project Information

Project Name: NRG-Norwalk
Street: One Manresa Island Ave.
City / State: Norwalk CT
Project #: 631020644.008
Client Purchase Order #: N/A
Project Manager: Andrew.Walker@aptim.com

Billing Information (if different from Report to)
Company Name
Street Address
City / State / Zip
Attention:

Requested Analysis

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	Total Metals (6010 - Al As Be Cd Fe Pb Mn Ni V Zn; 6020 - Cu)	Dissolved Metals [field filtered] (6010 - Al As Be Cd Fe Pb Mn Ni V Zn; 6020 - Cu)	pH (EPA 150.1)	ORP	Nitrate (SM21 4500 NO2 B)	Nitrite (EPA 353.2)	Sulfate (EPA 300/SW846 9056A)					LAB USE ONLY
1F	AOC1-MW06-20210805	NA	08/05/21	0905	AM	G	GW	6			2	1	3				X	X	X	X	X	X	X					A8
2F	NH-14S-20210805	NA	08/05/21	1300	AM	G	GW	6			2	1	3				X	X	X	X	X	X	X					C28
3F	NH-14S-20210805-FD	NA	8/05/21	1320	AM	G	GW	2			2						X	X										

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS-ACCUTEST MARLBOR 8/5

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other
- All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [X] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [X] CT RCP Criteria SWPC, WQC
- [ ] State Forms
- [X] EDD Format EQuIS
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Dissolved metals samples are field filtered.
Report metals to MDL.
QA/QC Reporting: CT RCP and Site-Specific QAPP.
Please email EQuIS formatted EDD to catherine.joe@aptim.com and lisa.george@aptim.com.

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	8/05/21 1335	1	2 BC	8-5-21 1345	2
3	8/5/21 1900	3 Fed Ex	4 Fedex	8/6/21 10:00	4
5		5			

INITIAL ASESSMENT

Custody Seal # 02644 ☐ Intact ☐ Not intact | Preserved where applicable ☐ Absent | On Ice ☐ | Cooler Temp. °C 2.5 | Therm. ID:

LABEL VERIFICATION

IR-J

02c_NRG-NWK_SGS-Dayton_COC_MEP Aug2021_PRINT 2 -THUR.xlsx

5.2 5

JD29525: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD29525 **Client:** APTIM **Project:** NRG, ONE MANRESA ISLAND ROAD, NORWA

Date / Time Received: 8/5/2021 6:00:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (5.0);

Cooler Temps (Corrected) °C: Cooler 1: (5.0);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify) _____ _____

Comments

SM089-03
Rev. Date 12/7/17

JD29525: Chain of Custody
Page 2 of 2

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **APTIM**

Project Location: **NRG, One Manresa Island Road, Norwalk, CT** **Project Number:** **631217784.01021320 / P-CARD**

Sampling Date(s): **8/5/2021**

Laboratory Sample ID(s): JD29525-1, JD29525-2, JD29525-3, JD29525-1F, JD29525-2F

Methods: ASTM D1498-76, EPA 300/SW846 9056A, EPA 353.2/LACHAT, EPA353.2/SM4500NO2B, SM4500H+ B-11, SM4500NO2 B-11, SW846 6010D, SW846 6020B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☑ No ☐
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☑ No ☐

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Position: General Manager

Printed Name: Mike Earp Date: 8/19/2021

Internal Sample Tracking Chronicle

APTIM

Job No: JD29525

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631217784.01021320 / P-CARD ; Project#631020644.008

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29525-1 Collected: 05-AUG-21 09:05 By: AM Received: 05-AUG-21 By: MK AOC1-MW06-20210805						
JD29525-1	SM4500NO2 B-11	06-AUG-21 22:11	JJ			NO2
JD29525-1	SM4500H+ B-11	09-AUG-21 11:38	RS			PHTEMP
JD29525-1	ASTM D1498-76	09-AUG-21 12:42	MM			EH
JD29525-1	EPA353.2/SM4500NO2B	09-AUG-21 20:41	EB			NO3O
JD29525-1	EPA 353.2/LACHAT	09-AUG-21 20:41	EB	09-AUG-21	EB	NO32
JD29525-1	EPA 300/SW846 9056A	10-AUG-21 08:13	EB	09-AUG-21	EB	SO4
JD29525-1	SW846 6010D	12-AUG-21 02:47	ND	11-AUG-21	AK	AL,BE,CD,FE,MN,NI,V,ZN
JD29525-1	SW846 6010D	12-AUG-21 14:10	ND	11-AUG-21	AK	AS,PB
JD29525-1	SW846 6020B	17-AUG-21 21:43	NV	11-AUG-21	ND	CUMS
JD29525-2 Collected: 05-AUG-21 13:00 By: AM Received: 05-AUG-21 By: MK NH-14S-20210805						
JD29525-2	SM4500NO2 B-11	06-AUG-21 22:11	JJ			NO2
JD29525-2	SM4500H+ B-11	09-AUG-21 11:42	RS			PHTEMP
JD29525-2	ASTM D1498-76	09-AUG-21 12:46	MM			EH
JD29525-2	EPA353.2/SM4500NO2B	09-AUG-21 20:43	EB			NO3O
JD29525-2	EPA 353.2/LACHAT	09-AUG-21 20:43	EB	09-AUG-21	EB	NO32
JD29525-2	EPA 300/SW846 9056A	10-AUG-21 22:34	EB	09-AUG-21	EB	SO4
JD29525-2	SW846 6010D	12-AUG-21 03:01	ND	11-AUG-21	AK	AL,BE,CD,MN,NI,V,ZN
JD29525-2	SW846 6010D	12-AUG-21 14:39	ND	11-AUG-21	AK	FE
JD29525-2	SW846 6010D	12-AUG-21 14:43	ND	11-AUG-21	AK	AS,PB
JD29525-2	SW846 6020B	18-AUG-21 14:36	NV	11-AUG-21	ND	CUMS
JD29525-3 Collected: 05-AUG-21 13:20 By: AM Received: 05-AUG-21 By: MK NH-14S-20210805_FD						
JD29525-3	SW846 6010D	12-AUG-21 03:06	ND	11-AUG-21	AK	AL,BE,CD,MN,NI,V,ZN
JD29525-3	SW846 6010D	12-AUG-21 14:48	ND	11-AUG-21	AK	FE
JD29525-3	SW846 6010D	12-AUG-21 14:53	ND	11-AUG-21	AK	AS,PB
JD29525-3	SW846 6020B	18-AUG-21 14:40	NV	11-AUG-21	ND	CUMS
JD29525-1F Collected: 05-AUG-21 09:05 By: AM Received: 05-AUG-21 By: MK AOC1-MW06-20210805						
JD29525-1F	SW846 6010D	12-AUG-21 03:11	ND	11-AUG-21	AK	AL,BE,CD,MN,NI,V,ZN
JD29525-1F	SW846 6010D	12-AUG-21 14:57	ND	11-AUG-21	AK	AS,FE,PB

Internal Sample Tracking Chronicle

APTIM

Job No: JD29525

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631217784.01021320 / P-CARD ; Project#631020644.008

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29525-1F	SW846 6020B	17-AUG-21 21:57	NV	11-AUG-21	ND	CUMS
JD29525-2F	Collected: 05-AUG-21 13:00 By: AM		Received: 05-AUG-21 By: MK			
NH-14S-20210805						
JD29525-2F	SW846 6010D	12-AUG-21 03:15	ND	11-AUG-21	AK	AL,BE,CD,MN,NI,V,ZN
JD29525-2F	SW846 6010D	12-AUG-21 15:07	ND	11-AUG-21	AK	FE
JD29525-2F	SW846 6010D	12-AUG-21 15:12	ND	11-AUG-21	AK	AS,PB
JD29525-2F	SW846 6020B	18-AUG-21 14:45	NV	11-AUG-21	ND	CUMS

QC Evaluation: CT RCP Limits

Job Number: JD29525
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 08/05/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No CT RCP Limits Found.

* Sample used for QC is not from job JD29525

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29525
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP28007
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 08/11/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	27	46	-37	<200
Antimony	6.0	2.2	4.7		
Arsenic	3.0	1.3	2.8	0.40	<3.0
Barium	200	1	13		
Beryllium	1.0	.2	.5	-0.10	<1.0
Bismuth	20	2.1	4		
Boron	100	1	63		
Cadmium	3.0	.2	1	0.0	<3.0
Calcium	5000	7.7	99		
Cerium	100				
Chromium	10	.5	2		
Cobalt	50	.4	2.6		
Copper	10	6.8	5.9		
Iron	100	15	32	8.1	<100
Lead	3.0	1.6	1.8	-0.70	<3.0
Lithium	50	3.7	7.3		
Magnesium	5000	54	140		
Manganese	15	.1	1.4	0.10	<15
Molybdenum	20	.5	3.6		
Nickel	10	.3	1.7	-0.20	<10
Phosphorus	50	1.8	18		
Potassium	10000	77	200		
Selenium	10	2	4.9		
Silicon	200	1.3	100		
Silver	10	.9	1.9		
Sodium	10000	23	570		
Strontium	10	.4	1		
Sulfur	50	4.1	45		
Thallium	10	1.6	1.8		
Tin	10	.9	3.7		
Titanium	10	.9	2.5		
Tungsten	50	2	40		
Vanadium	50	.8	1.8	-0.10	<50

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29525
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP28007
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 08/11/21

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.2	6.9	-0.20	<20
Zirconium	10	.5	4.1		

Associated samples MP28007: JD29525-1, JD29525-2, JD29525-3, JD29525-1F, JD29525-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29525
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP28007
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 08/11/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	25000	25000	100.0	80-120
Antimony	anr			
Arsenic	1900	2000	95.0	80-120
Barium	anr			
Beryllium	1900	2000	95.0	80-120
Bismuth				
Boron				
Cadmium	1930	2000	96.5	80-120
Calcium	anr			
Cerium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	23700	25000	94.8	80-120
Lead	1960	2000	98.0	80-120
Lithium				
Magnesium	anr			
Manganese	1990	2000	99.5	80-120
Molybdenum				
Nickel	1960	2000	98.0	80-120
Phosphorus				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium	1920	2000	96.0	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29525
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP28007
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 08/11/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zinc	1960	2000	98.0	80-120
Zirconium				

Associated samples MP28007: JD29525-1, JD29525-2, JD29525-3, JD29525-1F, JD29525-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD29525
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP28007
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 08/11/21

Metal	JD29627-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	0.00	0.00	NC	0-10
Antimony	anr			
Arsenic	2.40	0.00	100.0(a)	0-10
Barium	anr			
Beryllium	0.00	0.00	NC	0-10
Bismuth				
Boron				
Cadmium	0.300	0.00	100.0(a)	0-10
Calcium	anr			
Cerium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	2010	2160	7.3	0-10
Lead	1.60	0.00	100.0(a)	0-10
Lithium				
Magnesium	anr			
Manganese	269	285	6.0	0-10
Molybdenum				
Nickel	1.20	0.00	100.0(a)	0-10
Phosphorus				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium	0.00	0.00	NC	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD29525
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP28007
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 08/11/21

Metal	JD29627-1 Original	SDL 1:5	%DIF	QC Limits
Zinc	6.70	16.7	149.3(a)	0-10
Zirconium				

Associated samples MP28007: JD29525-1, JD29525-2, JD29525-3, JD29525-1F, JD29525-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29525
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP28007A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 08/11/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.54	32		
Antimony	4.0	.044	1.7		
Arsenic	1.0	.018	.39		
Barium	2.0	.018	.73		
Beryllium	1.0	.006	.15		
Boron	50	1.7	14		
Cadmium	1.0	.014	.17		
Calcium	500	15	200		
Chromium	2.0	.03	.62		
Cobalt	1.0	.004	.17		
Copper	4.0	.024	1.9	-0.44	<4.0
Iron	50	1.1	19		
Lead	1.0	.014	.52		
Magnesium	500	.74	46		
Manganese	2.0	.018	.63		
Molybdenum	2.0	.054	.45		
Nickel	2.0	.016	.95		
Potassium	500	2.4	68		
Selenium	1.0	.7	.55		
Silver	1.0	.004	.16		
Sodium	500	1.1	470		
Strontium	10	.032	2.4		
Thallium	1.0	.018	.17		
Tin	10	.07	2.6		
Titanium	2.0	.09	1.6		
Vanadium	2.0	.034	1.8		
Zinc	10	.096	5.4		

Associated samples MP28007A: JD29525-1, JD29525-2, JD29525-3, JD29525-1F, JD29525-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29525
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP28007A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 08/11/21

Metal	BSP Result	Spikelot MP6020AQ3	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	79.1	80	98.9	80-120
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28007A: JD29525-1, JD29525-2, JD29525-3, JD29525-1F, JD29525-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD29525
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP28007A
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 08/11/21

Metal	JD29627-1 Original	SDL 2:10	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	1.74	0.00	100.0*(a	0-10
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28007A: JD29525-1, JD29525-2, JD29525-3, JD29525-1F, JD29525-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD29525
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Nitrogen, Nitrate + Nitrite	GP35225/GN20667	0.10	0.0	mg/l	2	2.03	101.5	90-110%
Nitrogen, Nitrite	GN20621	0.010	0.0	mg/l	0.04	0.039	97.5	90-110%
Sulfate	GP35229/GN20666	2.0	0.0	mg/l	80	82.6	103.3	90-110%

Associated Samples:
Batch GN20621: JD29525-1, JD29525-2
Batch GP35225: JD29525-1, JD29525-2
Batch GP35229: JD29525-1, JD29525-2
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD29525
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Redox Potential Vs H2	GN20649	JD29525-1	mv	461	449	2.6	0-14%
Sulfate	GP35229/GN20666	JD29525-1	mg/l	98.7	90.4	8.8	0-20%

Associated Samples:
Batch GN20649: JD29525-1, JD29525-2
Batch GP35229: JD29525-1, JD29525-2
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD29525
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Nitrogen, Nitrite	GN20621	JD29525-1	mg/l	0.0030 U	0.04	0.040	100.0	22-140%
Sulfate	GP35229/GN20666	JD29525-1	mg/l	98.7	80	164	81.6	80-120%

Associated Samples:
Batch GN20621: JD29525-1, JD29525-2
Batch GP35229: JD29525-1, JD29525-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD29525
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Nitrogen, Nitrite	GN20621	JD29525-1	mg/l	0.0030 U	0.04	0.041	2.5	20%

Associated Samples:
Batch GN20621: JD29525-1, JD29525-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

APPENDIX C

DATA VALIDATION WORKSHEET AND LABORATORY ANALYTICAL REPORT FOR RCRA GROUNDWATER – JUNE 2021

Data Usability Worksheet

Project Name : NRG Norwalk

Job Number : 631012814.00321320

Prepared By: Sushama S. Paranjape

Reviewed Date : 8/07/2021

Matrix: Groundwater

Laboratory ID No. : SGS JD27376
Issue date 7/09/2021

Sampling Date : 6/23, 24/2021

Analyte Group : Metals

Analytical Method : EPA 200.7
EPA 200.8
EPA 245.1

Completed Reasonable Confidence Protocols Certification Form included: Yes

Does the data package meet the requirements for "Reasonable Confidence"? Yes

Is it Complete ? Yes

SGS laboratory certifies that all analysis were performed within method specifications and recommends that the report is to be used in its entirety: Yes

Chain of Custody included in Data Package ? Yes

Is it Complete ? Yes

Sample Collection Date	Analysis	Allowable Holding Time for Extraction	Allowable Holding Time for Analysis	Preparetion/ Analysis Date
6/23, 24/2021	Metals, EPA 200.7	NA	180 Days	7/02, 03, 06//2021
6/23, 24/2021	Metals, EPA 200.8	NA	180 Days	7/06, 07/2021
6/23, 24/2021	Metals, EPA 245.1	NA	28 Days	6/29/2021

Sample Hold Times Met: Yes

Sample Temperature Within QC Limits (0°C to 6°C) : Yes, 1.8°C

Surrogate Recovery
Are all % recoveries within the allowable range ? NA
If No, List sample ID where range was exceeded:

MS/MSD
Are all MS/MSD sample recoveries within the QC limits ? No
If No, list sample ID, date and compound where limit was exceeded:

JD27376-4 (NH-05S-20210623), 7/07/2021 silver MS/MSD percent RPD out for silver 16.3% (limits 10%), since MS and MSD recoveries are within limits, data does not need to be qualified. No qualification necessary.
JD27376-1 (NH-02S-20210623), 7/02/2021 iron MS recovery (68.0%) below limits 70-130%, sample concentration greater than four times the spike concentration. No qualification necessary.

Laboratory Control Samples
Are all laboratory control sample recoveries within the QC limits ? Yes
If No, list sample ID where range was exceeded:

Equipment Field Blank ID (required events 1/20) **:** NA — None was needed, thus none was collected.
Trip Blank ID (required every cooler w/VOC) **:** NA

Method Blank: Analysis Method and ID:

Metals, 200.7	MP27274
Metals, 200.8	MP27224
Metals, 245.1	MP27232

Were any compounds identified in the method blank, field blank, or trip blank above detection limits ? No
If so, list Sample ID/Compound/Concentration/Units:

Method EPA 200.7 Batch ID: MP27274
RPD(s) for Serial Dilutions for Aluminum, Antimony, Arsenic, Beryllium, Cadmium, Lead, Selenium, Thallium, and Vanadium are outside control limits for sample JD27376-1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL). No qualification necessary.

Reviewed/Validated By: Sushama S. Paranjape **Date:** 8/07/2021

Field Duplicate (FD) ID (required 1/20 per parameter/matrix/procedure/team): NH-02S-20210623/FD
Did FD samples meet RPD standard (30% AQ)? Y

Completed By: Andrea Steele **Date:** 8/10/2021

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

APTIM

NRG, One Manresa Island Road, Norwalk, CT

631012814.002

SGS Job Number: JD27376

Sampling Dates: 06/23/21 - 06/24/21

Report to:

APTIM
150 Royall Street
Canton, MA 02021
Andrew.Walker@APTIM.com; Catherine.Joe@APTIM.com;
Andrea.Steele@APTIM.com
ATTN: Andrew Walker

Total number of pages in report: 42

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Michelle Jenkins 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

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SGS North America Inc.

Sample Summary

APTIM

Job No: JD27376

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631012814.002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD27376-1	06/23/21	09:35 AM		06/25/21	AQ	Ground Water	NH-02S-20210623
JD27376-2	06/23/21	09:40 AM		06/25/21	AQ	Ground Water	NH-02S-20210623_FD
JD27376-3	06/23/21	10:40 AM		06/25/21	AQ	Ground Water	NH-10S-20210623
JD27376-4	06/23/21	11:35 AM		06/25/21	AQ	Ground Water	NH-05S-20210623
JD27376-5	06/23/21	13:50 AM		06/25/21	AQ	Ground Water	NH-13S-20210623
JD27376-6	06/23/21	15:05 AM		06/25/21	AQ	Ground Water	NH-03S-20210623
JD27376-7	06/24/21	09:00 AM		06/25/21	AQ	Ground Water	NH-08S-20210624

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	APTIM	**Job No**	JD27376
Site:	NRG, One Manresa Island Road, Norwalk, CT	**Report Date**	7/9/2021 2:06:17 PM

On 06/25/2021, 7 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD27376 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

Metals Analysis By Method EPA 200.7

Matrix: AQ **Batch ID:** MP27274

- All method blanks for this batch meet method specific criteria.
- Sample(s) JD27376-1MS, JD27376-1MSD, JD27376-1SDL were used as the QC samples for metals.
- All samples were digested within the recommended method holding time.
- Matrix Spike Recovery(s) for Iron are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Lead, Aluminum, Antimony, Arsenic, Beryllium, Cadmium, Selenium, Thallium, Vanadium are outside control limits for sample MP27274-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JD27376-7 for Antimony: Elevated detection limit due to dilution required for high interfering element.
- JD27376-2 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD27376-1 for Lead: Elevated detection limit due to dilution required for high interfering element.

Metals Analysis By Method EPA 200.8

Matrix: AQ **Batch ID:** MP27224

- All method blanks for this batch meet method specific criteria.
- Sample(s) JD27376-4MS, JD27376-4MSD were used as the QC samples for metals.
- All samples were digested within the recommended method holding time.
- RPD(s) for MSD for Silver are outside control limits for sample MP27224-S2. High rpd due to possible sample nonhomogeneity.
- JD27376-7 for Silver: Elevated detection limit due to dilution required for matrix interference.
- JD27376-7 for Copper: Elevated detection limit due to dilution required for matrix interference.

Metals Analysis By Method EPA 245.1

Matrix: AQ **Batch ID:** MP27232

- All method blanks for this batch meet method specific criteria.
- Sample(s) JD27376-1MS, JD27376-1MSD were used as the QC samples for metals.
- All samples were digested within the recommended method holding time.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD27376
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 06/23/21 thru 06/24/21

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD27376-1	**NH-02S-20210623**					
Aluminum		397	200	77	ug/l	EPA 200.7
Arsenic		7.4	3.0	2.5	ug/l	EPA 200.7
Beryllium		1.2	1.0	0.50	ug/l	EPA 200.7
Cobalt		10.5 J	50	2.5	ug/l	EPA 200.7
Iron		119000	100	30	ug/l	EPA 200.7
Manganese		1230	15	2.0	ug/l	EPA 200.7
Nickel		68.3	10	1.8	ug/l	EPA 200.7
Sodium		69100	10000	900	ug/l	EPA 200.7
Thallium		9.7 J	10	1.9	ug/l	EPA 200.7
Zinc		333	20	8.5	ug/l	EPA 200.7
JD27376-2	**NH-02S-20210623_FD**					
Aluminum		369	200	77	ug/l	EPA 200.7
Arsenic		6.5	3.0	2.5	ug/l	EPA 200.7
Beryllium		0.80 J	1.0	0.50	ug/l	EPA 200.7
Cobalt		9.2 J	50	2.5	ug/l	EPA 200.7
Iron		106000	100	30	ug/l	EPA 200.7
Manganese		1090	15	2.0	ug/l	EPA 200.7
Nickel		61.5	10	1.8	ug/l	EPA 200.7
Sodium		66600	10000	900	ug/l	EPA 200.7
Thallium		8.9 J	10	1.9	ug/l	EPA 200.7
Zinc		294	20	8.5	ug/l	EPA 200.7
JD27376-3	**NH-10S-20210623**					
Arsenic		3.1	3.0	2.5	ug/l	EPA 200.7
Barium		35.3 J	200	17	ug/l	EPA 200.7
Cobalt		5.7 J	50	2.5	ug/l	EPA 200.7
Iron		1110	100	30	ug/l	EPA 200.7
Manganese		106	15	2.0	ug/l	EPA 200.7
Nickel		8.9 J	10	1.8	ug/l	EPA 200.7
Sodium		17300	10000	900	ug/l	EPA 200.7
Thallium		6.5 J	10	1.9	ug/l	EPA 200.7
Vanadium		7.6 J	50	2.3	ug/l	EPA 200.7
Zinc		42.7	20	8.5	ug/l	EPA 200.7
JD27376-4	**NH-05S-20210623**					
Aluminum		1520	200	77	ug/l	EPA 200.7
Arsenic		4.6	3.0	2.5	ug/l	EPA 200.7
Barium		22.1 J	200	17	ug/l	EPA 200.7
Beryllium		1.2	1.0	0.50	ug/l	EPA 200.7

Summary of Hits

Job Number: JD27376
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 06/23/21 thru 06/24/21

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Cobalt		5.3 J	50	2.5	ug/l	EPA 200.7
Copper		10.0	4.0	2.1	ug/l	EPA 200.8
Iron		982	100	30	ug/l	EPA 200.7
Manganese		250	15	2.0	ug/l	EPA 200.7
Nickel		34.1	10	1.8	ug/l	EPA 200.7
Sodium		6710 J	10000	900	ug/l	EPA 200.7
Thallium		8.7 J	10	1.9	ug/l	EPA 200.7
Zinc		28.8	20	8.5	ug/l	EPA 200.7
JD27376-5	**NH-13S-20210623**					
Arsenic		4.7	3.0	2.5	ug/l	EPA 200.7
Barium		47.7 J	200	17	ug/l	EPA 200.7
Cobalt		6.9 J	50	2.5	ug/l	EPA 200.7
Iron		127	100	30	ug/l	EPA 200.7
Lead		2.7 J	3.0	2.4	ug/l	EPA 200.7
Manganese		20.7	15	2.0	ug/l	EPA 200.7
Nickel		83.4	10	1.8	ug/l	EPA 200.7
Selenium		13.2	10	5.5	ug/l	EPA 200.7
Sodium		5570 J	10000	900	ug/l	EPA 200.7
Thallium		6.3 J	10	1.9	ug/l	EPA 200.7
Vanadium		4.0 J	50	2.3	ug/l	EPA 200.7
Zinc		129	20	8.5	ug/l	EPA 200.7
JD27376-6	**NH-03S-20210623**					
Aluminum		125 J	200	77	ug/l	EPA 200.7
Arsenic		8.0	3.0	2.5	ug/l	EPA 200.7
Barium		43.8 J	200	17	ug/l	EPA 200.7
Cobalt		54.6	50	2.5	ug/l	EPA 200.7
Iron		297	100	30	ug/l	EPA 200.7
Manganese		349	15	2.0	ug/l	EPA 200.7
Nickel		196	10	1.8	ug/l	EPA 200.7
Selenium		11.8	10	5.5	ug/l	EPA 200.7
Sodium		11000	10000	900	ug/l	EPA 200.7
Thallium		10.5	10	1.9	ug/l	EPA 200.7
Vanadium		13.2 J	50	2.3	ug/l	EPA 200.7
Zinc		208	20	8.5	ug/l	EPA 200.7
JD27376-7	**NH-08S-20210624**					
Aluminum		3500	200	77	ug/l	EPA 200.7
Arsenic		21.9	3.0	2.5	ug/l	EPA 200.7
Barium		36.9 J	200	17	ug/l	EPA 200.7
Beryllium		1.1	1.0	0.50	ug/l	EPA 200.7

Summary of Hits

Job Number: JD27376
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 06/23/21 thru 06/24/21

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Cobalt		9.5 J	50	2.5	ug/l	EPA 200.7
Iron		33900	100	30	ug/l	EPA 200.7
Manganese		291	15	2.0	ug/l	EPA 200.7
Nickel		36.4	10	1.8	ug/l	EPA 200.7
Sodium		3470000	250000	22000	ug/l	EPA 200.7
Zinc		43.5	20	8.5	ug/l	EPA 200.7

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	NH-02S-20210623		
Lab Sample ID:	JD27376-1	**Date Sampled:**	06/23/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	397	200	77	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Antimony	4.1 U	6.0	4.1	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Arsenic	7.4	3.0	2.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Barium	17 U	200	17	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Beryllium	1.2	1.0	0.50	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Cadmium	1.2 U	3.0	1.2	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Chromium	1.5 U	10	1.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Cobalt	10.5 J	50	2.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Copper	2.1 U	4.0	2.1	ug/l	1	06/30/21	07/07/21	NV	EPA 200.8 [4]	EPA 200.8 [5]
Iron	119000	100	30	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Lead [a]	12 U	15	12	ug/l	5	07/02/21	07/03/21	ND	EPA 200.7 [3]	EPA 200.7 [7]
Manganese	1230	15	2.0	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Mercury	0.092 U	0.20	0.092	ug/l	1	06/29/21	06/29/21	MS	EPA 245.1 [1]	EPA 245.1 [6]
Nickel	68.3	10	1.8	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Selenium	5.5 U	10	5.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Silver	0.067 U	2.0	0.067	ug/l	1	06/30/21	07/07/21	NV	EPA 200.8 [4]	EPA 200.8 [5]
Sodium	69100	10000	900	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Thallium	9.7 J	10	1.9	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Vanadium	2.3 U	50	2.3	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Zinc	333	20	8.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]

(1) Instrument QC Batch: MA50754
(2) Instrument QC Batch: MA50786
(3) Instrument QC Batch: MA50788
(4) Instrument QC Batch: MA50804
(5) Prep QC Batch: MP27224
(6) Prep QC Batch: MP27232
(7) Prep QC Batch: MP27274

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH-02S-20210623_FD		
Lab Sample ID:	JD27376-2	**Date Sampled:**	06/23/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	369	200	77	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Antimony	4.1 U	6.0	4.1	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Arsenic	6.5	3.0	2.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Barium	17 U	200	17	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Beryllium	0.80 J	1.0	0.50	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Cadmium	1.2 U	3.0	1.2	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Chromium	1.5 U	10	1.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Cobalt	9.2 J	50	2.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Copper	2.1 U	4.0	2.1	ug/l	1	06/30/21	07/07/21	NV	EPA 200.8 [4]	EPA 200.8 [5]
Iron	106000	100	30	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Lead [a]	12 U	15	12	ug/l	5	07/02/21	07/03/21	ND	EPA 200.7 [3]	EPA 200.7 [7]
Manganese	1090	15	2.0	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Mercury	0.092 U	0.20	0.092	ug/l	1	06/29/21	06/29/21	MS	EPA 245.1 [1]	EPA 245.1 [6]
Nickel	61.5	10	1.8	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Selenium	5.5 U	10	5.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Silver	0.067 U	2.0	0.067	ug/l	1	06/30/21	07/07/21	NV	EPA 200.8 [4]	EPA 200.8 [5]
Sodium	66600	10000	900	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Thallium	8.9 J	10	1.9	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Vanadium	2.3 U	50	2.3	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]
Zinc	294	20	8.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [7]

(1) Instrument QC Batch: MA50754
(2) Instrument QC Batch: MA50786
(3) Instrument QC Batch: MA50788
(4) Instrument QC Batch: MA50804
(5) Prep QC Batch: MP27224
(6) Prep QC Batch: MP27232
(7) Prep QC Batch: MP27274

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH-10S-20210623		
Lab Sample ID:	JD27376-3	**Date Sampled:**	06/23/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	77 U	200	77	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Antimony	4.1 U	6.0	4.1	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Arsenic	3.1	3.0	2.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Barium	35.3 J	200	17	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Beryllium	0.50 U	1.0	0.50	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Cadmium	1.2 U	3.0	1.2	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Chromium	1.5 U	10	1.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Cobalt	5.7 J	50	2.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Copper	2.1 U	4.0	2.1	ug/l	1	06/30/21	07/07/21	NV	EPA 200.8 [3]	EPA 200.8 [4]
Iron	1110	100	30	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Lead	2.4 U	3.0	2.4	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Manganese	106	15	2.0	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Mercury	0.092 U	0.20	0.092	ug/l	1	06/29/21	06/29/21	MS	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	8.9 J	10	1.8	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Selenium	5.5 U	10	5.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Silver	0.067 U	2.0	0.067	ug/l	1	06/30/21	07/07/21	NV	EPA 200.8 [3]	EPA 200.8 [4]
Sodium	17300	10000	900	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Thallium	6.5 J	10	1.9	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Vanadium	7.6 J	50	2.3	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Zinc	42.7	20	8.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]

(1) Instrument QC Batch: MA50754
(2) Instrument QC Batch: MA50786
(3) Instrument QC Batch: MA50804
(4) Prep QC Batch: MP27224
(5) Prep QC Batch: MP27232
(6) Prep QC Batch: MP27274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

SGS North America Inc.

Report of Analysis

Client Sample ID:	NH-05S-20210623		
Lab Sample ID:	JD27376-4	**Date Sampled:**	06/23/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1520	200	77	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Antimony	4.1 U	6.0	4.1	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Arsenic	4.6	3.0	2.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Barium	22.1 J	200	17	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Beryllium	1.2	1.0	0.50	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Cadmium	1.2 U	3.0	1.2	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Chromium	1.5 U	10	1.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Cobalt	5.3 J	50	2.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Copper	10.0	4.0	2.1	ug/l	1	06/30/21	07/07/21	NV	EPA 200.8 [3]	EPA 200.8 [4]
Iron	982	100	30	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Lead	2.4 U	3.0	2.4	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Manganese	250	15	2.0	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Mercury	0.092 U	0.20	0.092	ug/l	1	06/29/21	06/29/21	MS	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	34.1	10	1.8	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Selenium	5.5 U	10	5.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Silver	0.067 U	2.0	0.067	ug/l	1	06/30/21	07/07/21	NV	EPA 200.8 [3]	EPA 200.8 [4]
Sodium	6710 J	10000	900	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Thallium	8.7 J	10	1.9	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Vanadium	2.3 U	50	2.3	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Zinc	28.8	20	8.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]

(1) Instrument QC Batch: MA50754
(2) Instrument QC Batch: MA50786
(3) Instrument QC Batch: MA50804
(4) Prep QC Batch: MP27224
(5) Prep QC Batch: MP27232
(6) Prep QC Batch: MP27274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH-13S-20210623		
Lab Sample ID:	JD27376-5	**Date Sampled:**	06/23/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	77 U	200	77	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Antimony	4.1 U	6.0	4.1	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Arsenic	4.7	3.0	2.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Barium	47.7 J	200	17	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Beryllium	0.50 U	1.0	0.50	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Cadmium	1.2 U	3.0	1.2	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Chromium	1.5 U	10	1.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Cobalt	6.9 J	50	2.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Copper	2.1 U	4.0	2.1	ug/l	1	06/30/21	07/07/21	NV	EPA 200.8 [3]	EPA 200.8 [4]
Iron	127	100	30	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Lead	2.7 J	3.0	2.4	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Manganese	20.7	15	2.0	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Mercury	0.092 U	0.20	0.092	ug/l	1	06/29/21	06/29/21	MS	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	83.4	10	1.8	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Selenium	13.2	10	5.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Silver	0.067 U	2.0	0.067	ug/l	1	06/30/21	07/07/21	NV	EPA 200.8 [3]	EPA 200.8 [4]
Sodium	5570 J	10000	900	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Thallium	6.3 J	10	1.9	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Vanadium	4.0 J	50	2.3	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Zinc	129	20	8.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]

(1) Instrument QC Batch: MA50754
(2) Instrument QC Batch: MA50786
(3) Instrument QC Batch: MA50804
(4) Prep QC Batch: MP27224
(5) Prep QC Batch: MP27232
(6) Prep QC Batch: MP27274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH-03S-20210623		
Lab Sample ID:	JD27376-6	**Date Sampled:**	06/23/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	125 J	200	77	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Antimony	4.1 U	6.0	4.1	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Arsenic	8.0	3.0	2.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Barium	43.8 J	200	17	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Beryllium	0.50 U	1.0	0.50	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Cadmium	1.2 U	3.0	1.2	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Chromium	1.5 U	10	1.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Cobalt	54.6	50	2.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Copper	2.1 U	4.0	2.1	ug/l	1	06/30/21	07/07/21	NV	EPA 200.8 [3]	EPA 200.8 [4]
Iron	297	100	30	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Lead	2.4 U	3.0	2.4	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Manganese	349	15	2.0	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Mercury	0.092 U	0.20	0.092	ug/l	1	06/29/21	06/29/21	MS	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	196	10	1.8	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Selenium	11.8	10	5.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Silver	0.067 U	2.0	0.067	ug/l	1	06/30/21	07/07/21	NV	EPA 200.8 [3]	EPA 200.8 [4]
Sodium	11000	10000	900	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Thallium	10.5	10	1.9	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Vanadium	13.2 J	50	2.3	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]
Zinc	208	20	8.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [6]

(1) Instrument QC Batch: MA50754
(2) Instrument QC Batch: MA50786
(3) Instrument QC Batch: MA50804
(4) Prep QC Batch: MP27224
(5) Prep QC Batch: MP27232
(6) Prep QC Batch: MP27274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	NH-08S-20210624		
Lab Sample ID:	JD27376-7	**Date Sampled:**	06/24/21
Matrix:	AQ - Ground Water	**Date Received:**	06/25/21
		Percent Solids:	n/a
Project:	NRG, One Manresa Island Road, Norwalk, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	3500	200	77	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [8]
Antimony [a]	21 U	30	21	ug/l	5	07/02/21	07/03/21	ND	EPA 200.7 [3]	EPA 200.7 [8]
Arsenic	21.9	3.0	2.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [8]
Barium	36.9 J	200	17	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [8]
Beryllium	1.1	1.0	0.50	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [8]
Cadmium	1.2 U	3.0	1.2	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [8]
Chromium	1.5 U	10	1.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [8]
Cobalt	9.5 J	50	2.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [8]
Copper [b]	21 U	40	21	ug/l	10	06/30/21	07/08/21	NV	EPA 200.8 [5]	EPA 200.8 [6]
Iron	33900	100	30	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [8]
Lead [a]	12 U	15	12	ug/l	5	07/02/21	07/03/21	ND	EPA 200.7 [3]	EPA 200.7 [8]
Manganese	291	15	2.0	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [8]
Mercury	0.092 U	0.20	0.092	ug/l	1	06/29/21	06/29/21	MS	EPA 245.1 [1]	EPA 245.1 [7]
Nickel	36.4	10	1.8	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [8]
Selenium [a]	28 U	50	28	ug/l	5	07/02/21	07/03/21	ND	EPA 200.7 [3]	EPA 200.7 [8]
Silver [b]	0.67 U	20	0.67	ug/l	10	06/30/21	07/08/21	NV	EPA 200.8 [5]	EPA 200.8 [6]
Sodium	3470000	250000	22000	ug/l	25	07/02/21	07/06/21	ND	EPA 200.7 [4]	EPA 200.7 [8]
Thallium [a]	9.5 U	50	9.5	ug/l	5	07/02/21	07/03/21	ND	EPA 200.7 [3]	EPA 200.7 [8]
Vanadium	2.3 U	50	2.3	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [8]
Zinc	43.5	20	8.5	ug/l	1	07/02/21	07/02/21	ND	EPA 200.7 [2]	EPA 200.7 [8]

(1) Instrument QC Batch: MA50754
(2) Instrument QC Batch: MA50786
(3) Instrument QC Batch: MA50788
(4) Instrument QC Batch: MA50794
(5) Instrument QC Batch: MA50808
(6) Prep QC Batch: MP27224
(7) Prep QC Batch: MP27232
(8) Prep QC Batch: MP27274

(a) Elevated detection limit due to dilution required for high interfering element.
(b) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result >= MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

SGS

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

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FED-EX Tracking # 9304 9370 6888
Bottle Order Control # none ~~TE-06121-203~~
SGS Quote # NRG-CT account pricing 10/2016
SGS Job # JD 27376

Client / Reporting Information

Company Name: APTIM
Street Address: 150 Royall St.
City / State / Zip: Canton, MA 02021
Project Contact / E-mail: Andrea.Steele@aptim.com
Phone #: 774-573-9090
Sampler(s) Name(s) / Phone #: Austin Magnant 774-551-6197

Project Information

Project Name: NRG-Norwalk
Street: One Manresa Island Rd.
City / State: South Norwalk CT
Project #: 631012814.002
Client Purchase Order #: N/A
Project Manager: Andrew.Walker@aptim.com

Billing Information (if different from Report to)
Company Name
Street Address
City / State / Zip
Attention:

Requested Analysis

Total Al As Ba Be Cd Co Cr Fe Mn Ni Pb Sb Se Tl V Zn (Method 200.7)
Total Ag Cu (Method 200.8)
Total mercury (EPA 245.1)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	Total Al As Ba Be Cd Co Cr Fe Mn Ni Pb Sb Se Tl V Zn (Method 200.7)	Total Ag Cu (Method 200.8)	Total mercury (EPA 245.1)	LAB USE ONLY
1	NH-02S-20210623	NA	6/23/21	0935	AM	G	GW	1			1						X	X	X	
2	NH-02S-20210623_FD	NA	6/23/21	940	AM	G	GW	1			1						X	X	X	
3	NH-05S-20210623	NA	6/23/21	1040	AM	G	GW	1			1						X	X	X	A30
4	NH-05S-20210623	NA	6/23/21	1135	AM	G	GW	1			1						X	X	X	
5	NH-13S-20210623	NA	6/23/21	1350	AM	G	GW	1			1						X	X	X	
6	NH-03S-20210623	NA	6/23/21	1505	AM	G	GW	1			1						X	X	X	
7	NH-08S-20210624	NA	6/24/21	0900	AM	G	GW	1			1						X	X	X	

SGS-ACCUTEST MARLBORO 6/25

Turn Around Time (Business Days)

Approved By (SGS PM): / Date: 6/28/21

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

INITIAL ASSESSMENT
LABEL VERIFICATION

All data available via Lablink
* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [X] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [X] CT RCP Criteria CT SWPC and CT WQC
- [ ] State Forms
- [X] EDD Format EQuIS
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Report metals to MDL.
QA/QC Reporting: CT RCP and Site-Specific QAPP.
Please email EQuIS formatted EDD to catherine.joe@aptim.com.

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 APTIM	6/23/21 1650	1 Scott Parrick	2 Scott Parrick	6/25/21 18:30	2 FedEx
3 Fedex	6/26/21 930	3	4		4
5		5			

Custody Seal # 02482 [ ] Intact [ ] Not intact
Preserved where applicable: Absent [ ] Therm. ID:
On Ice: (A) Cooler Temp. °C: 2.5°C

NRG-NWK_SGS-Dayton COC_annual RCRA GW_PRINT 2.xlsx

JD27376: Chain of Customy
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD27376 **Client:** _____ **Project:** _____

Date / Time Received: 6/25/2021 4:50:00 PM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (2.5);

Cooler Temps (Corrected) °C: Cooler 1: (1.8);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	IR Gun
3. Cooler media:	Ice (Bag)
4. No. Coolers:	1

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify) _____ _____

Comments

SM089-03
Rev. Date 12/7/17

JD27376: Chain of Custody
Page 2 of 2

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **APTIM**

Project Location: **NRG, One Manresa Island Road, Norwalk, CT** **Project Number:** **631217784.01021320 / P-CARD**

Sampling Date(s): **6/23/2021**

Laboratory Sample ID(s): JD27376-1, JD27376-2, JD27376-3, JD27376-4, JD27376-5, JD27376-6, JD27376-7

Methods: EPA 200.7, EPA 200.8, EPA 245.1

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☑ No ☐
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☑ No ☐
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☑ No ☐

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Caitlin Brice Position: General Manager

Printed Name: Caitlin Brice Date: 7/9/2021

Internal Sample Tracking Chronicle

APTIM

Job No: JD27376

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631012814.002

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD27376-1 Collected: 23-JUN-21 09:35 By: AM Received: 25-JUN-21 By: DDH NH-02S-20210623						
JD27376-1	EPA 245.1	29-JUN-21 15:51	MS	29-JUN-21	MS	HG
JD27376-1	EPA 200.7	02-JUL-21 21:23	ND	02-JUL-21	SF	AL,AS,BA,BE,CD,CO,CR,FE,MN, NA,NI,SB,SE,TL,V,ZN
JD27376-1	EPA 200.7	03-JUL-21 15:52	ND	02-JUL-21	SF	PB
JD27376-1	EPA 200.8	07-JUL-21 21:34	NV	30-JUN-21	SF	AGMS,CUMS
JD27376-2 Collected: 23-JUN-21 09:40 By: AM Received: 25-JUN-21 By: DDH NH-02S-20210623_FD						
JD27376-2	EPA 245.1	29-JUN-21 15:55	MS	29-JUN-21	MS	HG
JD27376-2	EPA 200.7	02-JUL-21 21:49	ND	02-JUL-21	SF	AL,AS,BA,BE,CD,CO,CR,FE,MN, NA,NI,SB,SE,TL,V,ZN
JD27376-2	EPA 200.7	03-JUL-21 16:01	ND	02-JUL-21	SF	PB
JD27376-2	EPA 200.8	07-JUL-21 21:41	NV	30-JUN-21	SF	AGMS,CUMS
JD27376-3 Collected: 23-JUN-21 10:40 By: AM Received: 25-JUN-21 By: DDH NH-10S-20210623						
JD27376-3	EPA 245.1	29-JUN-21 15:58	MS	29-JUN-21	MS	HG
JD27376-3	EPA 200.7	02-JUL-21 21:54	ND	02-JUL-21	SF	AL,AS,BA,BE,CD,CO,CR,FE,MN, NA,NI,PB,SB,SE,TL,V,ZN
JD27376-3	EPA 200.8	07-JUL-21 21:47	NV	30-JUN-21	SF	AGMS,CUMS
JD27376-4 Collected: 23-JUN-21 11:35 By: AM Received: 25-JUN-21 By: DDH NH-05S-20210623						
JD27376-4	EPA 245.1	29-JUN-21 16:00	MS	29-JUN-21	MS	HG
JD27376-4	EPA 200.7	02-JUL-21 22:09	ND	02-JUL-21	SF	AL,AS,BA,BE,CD,CO,CR,FE,MN, NA,NI,PB,SB,SE,TL,V,ZN
JD27376-4	EPA 200.8	07-JUL-21 21:28	NV	30-JUN-21	SF	AGMS,CUMS
JD27376-5 Collected: 23-JUN-21 13:50 By: AM Received: 25-JUN-21 By: DDH NH-13S-20210623						
JD27376-5	EPA 245.1	29-JUN-21 16:03	MS	29-JUN-21	MS	HG
JD27376-5	EPA 200.7	02-JUL-21 22:14	ND	02-JUL-21	SF	AL,AS,BA,BE,CD,CO,CR,FE,MN, NA,NI,PB,SB,SE,TL,V,ZN

Internal Sample Tracking Chronicle

APTIM

Job No: JD27376

NRG, One Manresa Island Road, Norwalk, CT
Project No: 631012814.002

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD27376-5	EPA 200.8	07-JUL-21 21:53	NV	30-JUN-21	SF	AGMS,CUMS
JD27376-6	Collected: 23-JUN-21 15:05 By: AM		Received: 25-JUN-21 By: DDH			
NH-03S-20210623						
JD27376-6	EPA 245.1	29-JUN-21 16:05	MS	29-JUN-21	MS	HG
JD27376-6	EPA 200.7	02-JUL-21 22:19	ND	02-JUL-21	SF	AL,AS,BA,BE,CD,CO,CR,FE,MN, NA,NI,PB,SB,SE,TL,V,ZN
JD27376-6	EPA 200.8	07-JUL-21 21:59	NV	30-JUN-21	SF	AGMS,CUMS
JD27376-7	Collected: 24-JUN-21 09:00 By: AM		Received: 25-JUN-21 By: DDH			
NH-08S-20210624						
JD27376-7	EPA 245.1	29-JUN-21 16:07	MS	29-JUN-21	MS	HG
JD27376-7	EPA 200.7	02-JUL-21 22:25	ND	02-JUL-21	SF	AL,AS,BA,BE,CD,CO,CR,FE,MN, NI,V,ZN
JD27376-7	EPA 200.7	03-JUL-21 16:06	ND	02-JUL-21	SF	PB,SB,SE,TL
JD27376-7	EPA 200.7	06-JUL-21 15:30	ND	02-JUL-21	SF	NA
JD27376-7	EPA 200.8	08-JUL-21 15:55	NV	30-JUN-21	SF	AGMS,CUMS

QC Evaluation: CT RCP Limits

Job Number: JD27376
Account: APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT
Collected: 06/23/21 thru 06/24/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No CT RCP Limits Found.

* Sample used for QC is not from job JD27376

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27224
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 06/30/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.42	12		
Antimony	2.0	.085	.88		
Arsenic	1.0	.025	.25		
Barium	1.0	.009	.36		
Beryllium	0.50	.005	.065		
Boron	50	.85	18		
Cadmium	0.50	.01	.099		
Calcium	250	3.6	35		
Chromium	4.0	.018	.33		
Cobalt	0.50	.003	.06		
Copper	4.0	.024	2.1	0.080	<4.0
Iron	50	.24	12		
Lead	0.50	.008	.14		
Magnesium	250	.19	43		
Manganese	1.0	.012	.38		
Molybdenum	1.0	.017	.18		
Nickel	4.0	.017	1.3		
Potassium	250	.78	43		
Selenium	1.0	.044	.65		
Silver	2.0	.004	.067	0.016	<2.0
Sodium	250	1.5	50		
Strontium	5.0	.014	.65		
Thallium	0.50	.002	.085		
Tin	5.0	.041	.62		
Titanium	1.0	.11	.63		
Vanadium	4.0	.013	.48		
Zinc	10	.078	3.7		

Associated samples MP27224: JD27376-1, JD27376-2, JD27376-3, JD27376-4, JD27376-5, JD27376-6, JD27376-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27224
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 06/30/21

Metal	JD27376-4 Original	MS	Spikelot MPX200.8B	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	anr				
Beryllium					
Boron					
Cadmium					
Chromium					
Cobalt					
Copper	10.0	85.5	80	94.4	70-130
Iron					
Lead					
Magnesium					
Molybdenum					
Potassium					
Selenium					
Silver	0.061	73.2	80	91.4	70-130
Sodium					
Thallium	anr				
Tin					
Titanium					
Vanadium					

Associated samples MP27224: JD27376-1, JD27376-2, JD27376-3, JD27376-4, JD27376-5, JD27376-6, JD27376-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27224
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 06/30/21

Metal	JD27376-4 Original	MSD	Spikelot MPX200.8B	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Beryllium						
Boron						
Cadmium						
Chromium						
Cobalt						
Copper	10.0	88.1	80	97.6	3.0	10
Iron						
Lead						
Magnesium						
Molybdenum						
Potassium						
Selenium						
Silver	0.061	86.2	80	107.7	16.3 (a)	10
Sodium						
Thallium	anr					
Tin						
Titanium						
Vanadium						

Associated samples MP27224: JD27376-1, JD27376-2, JD27376-3, JD27376-4, JD27376-5, JD27376-6, JD27376-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) High rpd due to possible sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27224
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 06/30/21

Metal	BSP Result	Spikelot MPX200.8B	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	80.4	80	100.5	85-115
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver	77.0	80	96.3	85-115
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP27224: JD27376-1, JD27376-2, JD27376-3, JD27376-4, JD27376-5, JD27376-6, JD27376-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27232
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 06/29/21

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.036	.092	-0.012	<0.20

Associated samples MP27232: JD27376-1, JD27376-2, JD27376-3, JD27376-4, JD27376-5, JD27376-6, JD27376-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27232
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 06/29/21

Metal	JD27376-1 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0	1.8	2	90.0	70-130

Associated samples MP27232: JD27376-1, JD27376-2, JD27376-3, JD27376-4, JD27376-5, JD27376-6, JD27376-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27232 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/29/21

Metal	JD27376-1 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	1.8	2	90.0	0.0	19

Associated samples MP27232: JD27376-1, JD27376-2, JD27376-3, JD27376-4, JD27376-5, JD27376-6, JD27376-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27232
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 06/29/21

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	1.9	2	95.0	85-115

Associated samples MP27232: JD27376-1, JD27376-2, JD27376-3, JD27376-4, JD27376-5, JD27376-6, JD27376-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27274
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/02/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	9.2	77	-1.3	<200
Antimony	6.0	2.8	4.1	-0.30	<6.0
Arsenic	3.0	2.6	2.5	1.6	<3.0
Barium	200	.2	17	0.40	<200
Beryllium	1.0	.2	.5	0.20	<1.0
Bismuth	20	2.5	4.8		
Boron	100	1.8	85		
Cadmium	3.0	.4	1.2	-0.10	<3.0
Calcium	5000	13	130		
Cerium	100				
Chromium	10	.7	1.5	0.0	<10
Cobalt	50	.6	2.5	0.40	<50
Copper	10	.7	4.1		
Iron	100	3.3	30	24.9	<100
Lead	3.0	2	2.4	-0.70	<3.0
Lithium	50	1.5	9.1		
Magnesium	5000	25	200		
Manganese	15	.1	2	0.30	<15
Molybdenum	20	.6	4.5		
Nickel	10	.8	1.8	0.70	<10
Phosphorus	50	7	14		
Potassium	10000	35	200		
Selenium	10	3.6	5.5	1.5	<10
Silicon	200	2.2	130		
Silver	10	.6	2.4		
Sodium	10000	14	900	-32	<10000
Strontium	10	.1	1.6		
Sulfur	50	3.7	18		
Thallium	10	5.2	1.9	5.4	<10
Tin	50	1.4	4.7		
Titanium	10	.8	1.9		
Tungsten	50	1.3	19		
Vanadium	50	.5	2.3	0.30	<50

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27274
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/02/21

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.3	8.5	4.7	<20
Zirconium	10	.5	4.9		

Associated samples MP27274: JD27376-1, JD27376-2, JD27376-3, JD27376-4, JD27376-5, JD27376-6, JD27376-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27274
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/02/21

Metal	JD27376-1 Original	MS	Spikelot MP200.7A	% Rec	QC Limits
Aluminum	397	25200	25000	99.2	70-130
Antimony	3.1	1830	2000	91.3	70-130
Arsenic	7.4	1830	2000	91.1	70-130
Barium	15.5	1880	2000	93.2	70-130
Beryllium	1.2	1850	2000	92.4	70-130
Bismuth					
Boron					
Cadmium	0.80	1840	2000	92.0	70-130
Calcium					
Cerium					
Chromium	0.0	1810	2000	90.5	70-130
Cobalt	10.5	1890	2000	94.0	70-130
Copper					
Iron	119000	136000	25000	68.0 (a)	70-130
Lead	6.8	1860	2000	92.7	70-130
Lithium					
Magnesium					
Manganese	1230	3000	2000	88.5	70-130
Molybdenum					
Nickel	68.3	1970	2000	95.1	70-130
Phosphorus					
Potassium					
Selenium	4.6	1930	2000	96.3	70-130
Silicon					
Silver					
Sodium	69100	89700	25000	82.4	70-130
Strontium					
Sulfur					
Thallium	9.7	1920	2000	95.5	70-130
Tin					
Titanium					
Tungsten					
Vanadium	1.5	1820	2000	90.9	70-130

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27274 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 07/02/21

Metal	JD27376-1 Original	MS	Spikelot MP200.7A	% Rec	QC Limits
Zinc	333	2170	2000	91.9	70-130
Zirconium					

Associated samples MP27274: JD27376-1, JD27376-2, JD27376-3, JD27376-4, JD27376-5, JD27376-6, JD27376-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27274
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/02/21

Metal	JD27376-1 Original	MSD	Spikelot MP200.7A	% Rec	MSD RPD	QC Limit
Aluminum	397	25300	25000	99.6	0.4	10
Antimony	3.1	1870	2000	93.3	2.2	10
Arsenic	7.4	1860	2000	92.6	1.6	10
Barium	15.5	1900	2000	94.2	1.1	10
Beryllium	1.2	1860	2000	92.9	0.5	10
Bismuth						
Boron						
Cadmium	0.80	1880	2000	94.0	2.2	10
Calcium						
Cerium						
Chromium	0.0	1820	2000	91.0	0.6	10
Cobalt	10.5	1910	2000	95.0	1.1	10
Copper						
Iron	119000	138000	25000	76.0	1.5	10
Lead	6.8	1800	2000	89.7	3.3	10
Lithium						
Magnesium						
Manganese	1230	3030	2000	90.0	1.0	10
Molybdenum						
Nickel	68.3	1990	2000	96.1	1.0	10
Phosphorus						
Potassium						
Selenium	4.6	1970	2000	98.3	2.1	10
Silicon						
Silver						
Sodium	69100	91700	25000	90.4	2.2	17
Strontium						
Sulfur						
Thallium	9.7	1950	2000	97.0	1.6	10
Tin						
Titanium						
Tungsten						
Vanadium	1.5	1830	2000	91.4	0.5	10

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27274
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/02/21

Metal	JD27376-1 Original	MSD	Spikelot MP200.7A	% Rec	MSD RPD	QC Limit
Zinc	333	2180	2000	92.4	0.5	10
Zirconium						

Associated samples MP27274: JD27376-1, JD27376-2, JD27376-3, JD27376-4, JD27376-5, JD27376-6, JD27376-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27274
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/02/21

Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits
Aluminum	25500	25000	102.0	85-115
Antimony	1890	2000	94.5	85-115
Arsenic	1890	2000	94.5	85-115
Barium	1890	2000	94.5	85-115
Beryllium	1870	2000	93.5	85-115
Bismuth				
Boron				
Cadmium	1930	2000	96.5	85-115
Calcium				
Cerium				
Chromium	1850	2000	92.5	85-115
Cobalt	1970	2000	98.5	85-115
Copper				
Iron	25500	25000	102.0	85-115
Lead	2000	2000	100.0	85-115
Lithium				
Magnesium				
Manganese	1880	2000	94.0	85-115
Molybdenum				
Nickel	1990	2000	99.5	85-115
Phosphorus				
Potassium				
Selenium	1990	2000	99.5	85-115
Silicon				
Silver				
Sodium	25600	25000	102.4	85-115
Strontium				
Sulfur				
Thallium	2010	2000	100.5	85-115
Tin				
Titanium				
Tungsten				
Vanadium	1840	2000	92.0	85-115

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27274
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/02/21

Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits
Zinc	1970	2000	98.5	85-115
Zirconium				

Associated samples MP27274: JD27376-1, JD27376-2, JD27376-3, JD27376-4, JD27376-5, JD27376-6, JD27376-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27274
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/02/21

Metal	JD27376-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	397	343	13.5 (a)	0-10
Antimony	3.10	0.00	100.0(a)	0-10
Arsenic	7.40	0.00	100.0(a)	0-10
Barium	15.5	16.1	3.9	0-10
Beryllium	1.20	1.00	16.7 (a)	0-10
Bismuth				
Boron				
Cadmium	0.800	2.30	187.5(a)	0-10
Calcium				
Cerium				
Chromium	0.00	0.00	NC	0-10
Cobalt	10.5	10.4	1.0	0-10
Copper				
Iron	119000	126000	5.2	0-10
Lead	6.80	36.1	430.9(a)	0-10
Lithium				
Magnesium				
Manganese	1230	1270	3.4	0-10
Molybdenum				
Nickel	68.3	70.6	3.4	0-10
Phosphorus				
Potassium				
Selenium	4.60	19.6	326.1(a)	0-10
Silicon				
Silver				
Sodium	69100	70200	1.5	0-10
Strontium				
Sulfur				
Thallium	9.70	0.00	100.0(a)	0-10
Tin				
Titanium				
Tungsten				
Vanadium	1.50	0.00	100.0(a)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD27376
Account: CBIMAC - APTIM
Project: NRG, One Manresa Island Road, Norwalk, CT

QC Batch ID: MP27274
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/02/21

Metal	JD27376-1 Original	SDL 1:5	%DIF	QC Limits
Zinc	333	349	4.6	0-10
Zirconium				

Associated samples MP27274: JD27376-1, JD27376-2, JD27376-3, JD27376-4, JD27376-5, JD27376-6, JD27376-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

APPENDIX D

EC INSPECTION CHECKLIST FOR AOC 10 LOW PERMEABILITY CAP, APRIL 5, 2021

INSPECTION CHECK LIST

Form 2

NORWALK HARBOR STATION

EB2 LANDFILL CAP

Inspector: Robert Spooner		
Date: ~~4/5/20~~	Page:	of:

correction 4/5/2021
per RES 11/3/2021

See Inspection Procedures for Landfill Cap for Instructions

Part 1: Landfill Cap

	Pass:	Problem:	Resolved / Date / Initials		
Settlement or Subsidence:	☑	☐	☐	4/5	RES
Roots or Overgrowth :	☑	☐	☐	4/5	RES
Deep Surface Cracks:	☑	☐	☐	4/5	RES
Erosion or Gullies:	☑	☐	☐	4/5	RES
Burrow Holes or Penetrations:	☑	☐	☐	4/5	RES