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August 17, 2018

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Section C
Remedial Bureau B
625 Broadway 12th Floor
Albany, New York 112233-7013

Attention: Mr. John Grathwol

Re: Site Status Update Report
April through June 2018
Former Pratt Oil Works
Long Island City, New York
Consent Order Case No. D2-1002-12-07AM-2
NYSDEC Site No. S241115

Dear Mr. Grathwol:

Enclosed is the Site Status Update Report (SSUR) for the Former Pratt Oil Works site located in Long Island City, New York. This report summarizes the quarterly progress completed during the period from April through June 2018. This report has been prepared in accordance with the Investigation Consent Order between the State of New York and ExxonMobil, filed on July 15, 2008 (D2-1002-12-07AM), and the Remedial Consent Order between the State of New York and ExxonMobil, filed on April 12, 2016 (D2-1002-12-07AM-2). This report has been prepared by Roux Environmental Engineering and Geology, D.P.C. on behalf of ExxonMobil.

Should there be any questions or comments on this submission, please do not hesitate to contact me at (718) 404- 0652.

Sincerely,

Frank J. Messina
Project Manager

Attachment

cc: Livio Forte, A&L Cesspool Ser./Co. (Electronic File Only)
Donald Goebel, DG Properties, LLC (Electronic File Only)
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Site Status Update Report

April through June 2018

ExxonMobil Former Pratt Oil Works (FPOW)
Long Island City, Queens, New York

August 17, 2018

Consent Order Case No. D2-1002-12-07AM-2

NYSDEC Site No. S241115

Parcel	NYSDEC Case Number
A	07-07418
B	08-13060
C	07-07417
D	09-04539
E	09-03356
F	12-02509
G	09-03488
H	09-03616
I	09-03287

Prepared for:

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List of Acronyms

AST	Aboveground Storage Tank
AWQSGVs	Ambient Water Quality Standards and Guidance Values
CVOC	Chlorinated Volatile Organic Compound
EDD	Electronic Data Deliverable
FPOW	Former Pratt Oil Works
GWE	Groundwater Elevation
IRM	Interim Remedial Measure
LNAPL	Light Non-Aqueous Phase Liquid
µg/L	Micrograms Per Liter
NYSDEC	New York State Department of Environmental Conservation
O&M	Operations and Maintenance
PAH	Polyaromatic Hydrocarbon
PVC	Polyvinyl Chloride
SSUR	Site Status Update Report
SVOC	Semivolatile Organic Compound
TCL	Target Compound List
VOC	Volatile Organic Compound

1. Introduction

This Site Status Update Report (SSUR) presents a summary of activities performed by Roux Environmental Engineering and Geology, D.P.C. (Roux) for ExxonMobil Environmental Services Company, on behalf of ExxonMobil Oil Corporation (collectively, ExxonMobil), as part of the ExxonMobil Former Pratt Oil Works (FPOW) Project during the months of April, May, and June 2018. The site, as defined in the Remedial Consent Order (Case No. D2-1002-12-07AM-2) between the State of New York and ExxonMobil filed on April 12, 2016 (Remedial Consent Order), is shown on Figure 1 (Site). Previously, ExxonMobil voluntarily entered into an Investigation Consent Order with the State of New York on July 15, 2008 (Case No. D2-1002-12-07AM) to complete investigation activities within the Upland and Waterfront project areas, known as Tracts I and II, respectively (hereby referred to in this SSUR as the "Former Site boundary"), and to perform interim remedial measures (IRMs), as necessary, based on the results of the investigations. The activities described in this SSUR were conducted in accordance with the Remedial Consent Order and the Investigation Consent Order.

This SSUR describes the IRMs, operations and maintenance (O&M) activities, and groundwater monitoring and sampling activities completed from April 1, 2018 through June 30, 2018 at the Site, as well as anticipated goals and activities planned for the next reporting period. This SSUR is separated into the following sections:

- Section 2.0: Provides a description of the Site and IRMs;
- Section 3.0: Provides a summary of the IRM light non-aqueous phase liquid (LNAPL) recovery and O&M activities;
- Section 4.0: Provides a summary of the groundwater monitoring activities;
- Section 5.0: Provides a summary of non-Consent Order related activities; and
- Section 6.0: Provides a summary of the activities completed during this reporting period and presents a summary of goals and potential activities that are anticipated for the next reporting period.

Tables, figures, appendices, and plates documenting and summarizing the activities are attached at the end of this SSUR.

2. Site and IRM Descriptions

The following sections describe the FPOW Site and IRMs operating within the Site.

2.1 Site Description

The Site is a former wax refinery that was operated by a predecessor of ExxonMobil from approximately 1892 to 1949, in the Long Island City section of Queens, New York (Figure 1). The Site covers an area of approximately 18 acres and is located within a major industrial sector. The Site currently consists of 13 lots along Review Avenue and Railroad Avenue, and is divided into 10 parcels (designated "A" through "K") based on property owner (Plate 1). Please note that the property located at 38-40 Railroad Avenue (Parcel A – Block 312, Lot 1367) was sold to Forte Brothers Realty LLC by Waste Management of New York, LLC on September 26, 2016, and, therefore, does not have its own, separate parcel designation. Although Parcel J, as identified in Plate 1, was included in the Former Site boundary, it is not included in the Site boundary as defined by the Remedial Consent Order. In addition, the Long Island Rail Road, which runs through the Site and was previously excluded from the Former Site boundary, is now incorporated into the Site as defined by the Remedial Consent Order. ExxonMobil has not owned any of the properties within the Site for approximately 65 years. The Site is bordered by Review Avenue and First Calvary Cemetery (north); Newtown Creek (south); Parcel J (currently being used as a warehouse) and Quanta Resources State Superfund Site (northwest); asphalt recycling and manufacturing facility (southwest); and a former concrete facility (east).

Current uses of the properties within the Site include, but are not limited to, the following: The City of New York Department of Sanitation waste transfer station, warehouse and/or office space, vehicle storage, cesspool services, valve manufacturing, lumber and building materials distributer, commercial refrigeration supply distributer, and cleaning products manufacturing. The current parcel addresses and Block/Lot numbers are as follows:

Parcel	Address	Block/Lot
Parcel A	38-34 Review Avenue 38-40 Railroad Avenue	312 / 300 312 / 1367
Parcel B	38-42 Review Avenue 39-14 Review Avenue	312 / 309 312 / 315
Parcel C	38-70 Review Avenue	312 / 348
Parcel D	38-84 Railroad Avenue	312 / 1362
Parcel E	38-50 Review Avenue 38-54 Railroad Avenue	312 / 362 312 / 500
Parcel F	38-98 Review Avenue	312 / 343
Parcel G	38-78 Review Avenue	312 / 349
Parcel H	39-30 Review Avenue	312 / 330
Parcel I	38-20 Review Avenue	312 / 89
Parcel K	38-60 Review Avenue	312 / 350

2.2 IRM Descriptions

This section provides a description of the IRMs currently being conducted at the Site. A summary of the O&M and performance of these IRMs is provided in Section 3.0.

Spill Buster™ Systems

There are currently four LNAPL recovery IRM systems. These IRM systems are located at monitoring wells MW-5 (Parcel A), MW-9 (Parcel B), MW-14 (Parcel D), and MW-24 (Parcel D). They each consist of an LNAPL skimmer system (Clean Earth Magnum Spill Buster™), 250-gallon above-ground LNAPL storage tank (Lube Cube AST), and auto-dialer. The location of each LNAPL IRM is shown on Plate 1.

Additional LNAPL Recovery Methods

Representative monitoring wells within the Site were gauged on a weekly basis and LNAPL observed at a thickness greater than approximately one foot was removed using a hand-held, portable LNAPL skimming tool (Clean Earth Spill Buddy). Absorbent socks were installed in monitoring wells observed with LNAPL thicknesses too low to be recovered using the Spill Buddy.

Bulkhead Sheen Area

In response to a sheen observed on Newtown Creek in the vicinity of Parcels A and B on April 7, 2011, approximately 85 feet of 24-inch high polyvinyl chloride (PVC) belted black boom (hard boom) and 30 feet of absorbent boom were voluntarily installed. The absorbent boom continues to be inspected on a weekly basis and replaced, as necessary. The source of the sheen is unclear.

The approximate location of PVC hard boom within the vicinity of Parcel A and Parcel B is shown on Plate 1. Photographic documentation of the inspections completed during this reporting period is provided in Appendix A.

3. Remedial and O&M Activities Summary

The following section summarizes and describes IRM operations, maintenance, and monitoring activities completed during this reporting period. In addition, a summary of the on-going feasibility study, pre-design, and remedial planning for the project is provided.

3.1 IRM System Performance and LNAPL Recovery

As part of the O&M activities, the Spill Buster™ IRM performance is monitored on a continual basis. The combined volume of LNAPL recovered from the Spill Buster™ IRMs during the reporting period is approximately 3,194 gallons, as shown in Table 1 below. A brief summary of the system performance and LNAPL recovery for each IRM follows.

MW-5 IRM

The Spill Buster™ IRM located at MW-5 was operational during the reporting period, with the exception of three days to reconcile electrical issues. The IRM located at MW-5 recovered a total of approximately 1,529 gallons of LNAPL (average 17 gallons per day).

MW-9 IRM

The Spill Buster™ IRM located at MW-9 was operational during the reporting period. The IRM located at MW-9 recovered a total of approximately 1,602 gallons of LNAPL (average 18 gallons per day).

MW-14 IRM

The Spill Buster™ IRM located at MW-14 was operational during the reporting period, with the exception of five days to facilitate transmissivity testing, as discussed in the previous SSUR, and 14 days due to total LNAPL thickness being less than the minimum thickness required for Spill Buster™ recovery. During this time LNAPL was recovered with absorbent socks. The IRM located at MW-14 recovered a total of approximately 60 gallons of LNAPL (average less than one gallon per day).

MW-24 IRM

The Spill Buster™ IRM located at MW-24 was operational during the reporting period, with the exception of five days to facilitate transmissivity testing, as discussed in the previous SSUR, and 21 days due to total LNAPL thickness being less than the minimum thickness required for Spill Buster™ recovery. During this time LNAPL was recovered with absorbent socks. The IRM located at MW-24 recovered a total of approximately three gallons of LNAPL (average less than one gallon per day).

The combined volume of LNAPL recovered from the Spill Buster™ IRMs since start-up in 2012 is approximately 101,652 gallons.

TABLE 1: SUMMARY OF IRM LNAPL RECOVERY

Monitoring Well ID	April to June LNAPL Recovery (gallons)	Cumulative LNAPL Recovery (gallons)
MW-5	1,529	26,689
MW-9	1,602	46,850
MW-14	60	918

TABLE 1: SUMMARY OF IRM LNAPL RECOVERY		
Monitoring Well ID	**April to June LNAPL Recovery (gallons)**	**Cumulative LNAPL Recovery (gallons)**
MW-24	3	27,196
IRM Total	**3,194**	**101,652**

Recovered LNAPL was temporarily stored in ASTs within the IRM compounds, and then transported off-Site by Auchter Industrial Vac Services, Inc. (Auchter) of Linden, New Jersey, via vacuum truck, to 400 Kingsland Avenue prior to being transported to New Jersey for recycling. Auchter conducted pump-outs on April 9, April 18, April 30, May 7, May 14, May 23, May 29, June 4, June 11, June 18, and June 25. Documentation from the LNAPL transport by Auchter is provided in Appendix B.

3.2 Monitoring Well LNAPL Recovery

As previously discussed, select monitoring wells within the Site were gauged on a weekly basis and LNAPL observed greater than approximately one foot was removed using a hand-held, portable LNAPL skimming tool (Clean Earth Spill Buddy) or peristaltic pump fitted with polyethylene tubing. As shown below on Table 2, a total of approximately 997 gallons of LNAPL was recovered from monitoring wells MW-42, MW-48D, MW-49S, MW-49M, MW-50, MW-55, MW-57, MW-61, and MW-65 using the Spill Buddy during this reporting period.

TABLE 2: SUMMARY OF SPILL BUDDY RECOVERY		
Monitoring Well ID	**April to June 2018 LNAPL Recovery (gallons)**	**Cumulative LNAPL Recovery (gallons)**
MW-42	236	3,636
MW-48D	236	2,772
MW-49S	3	57
MW-49M	158	2,102
MW-50	106	1,605
MW-55	18	499
MW-57	17	420
MW-61	3	98
MW-65	220	366
Total	**997**	**11,565**

Hydrographs were prepared for the five monitoring wells that account for approximately 96 percent of this reporting period's recovery and more than half of the cumulative LNAPL recovery at the Site (not including the IRMs). These figures (2 through 6) show historic groundwater elevations (GWE), apparent LNAPL thicknesses, and cumulative LNAPL recovery for monitoring wells MW-42, MW-48D, MW-49M, MW-50, and MW-65. LNAPL recovery at these wells remains generally consistent since recovery efforts began in 2012,

with the exception of MW-65 where recovery efforts ceased from April 2015 until March 2018 due to unsafe working conditions and access issues within Parcel E.

Recovered LNAPL from monitoring wells was temporarily stored within the IRM compounds in 55-gallon drums, and then transported off-Site by Auchter, via vacuum truck, to 400 Kingsland Avenue for recycling in concurrence with pump-out events performed from the ASTs in the IRM compounds as noted above. Documentation from the LNAPL transport by Auchter is provided in Appendix B. Absorbent socks were installed in a portion of the monitoring wells observed with LNAPL thicknesses too low to be recovered using the Spill Buddy. The socks were inspected on a regular basis and replaced as necessary. Absorbent socks were placed in the following monitoring wells during this reporting period: MW-2, MW-12R, MW-16, MW-17, MW-19, MW-22, MW-23, MW-27, MW-30, MW-33, MW-48S, MW-54, MW-56, MW-58, MW-60S, MW-66, and MW-67. Approximately 22 gallons of LNAPL was recovered from these monitoring wells with absorbent socks during this reporting period.

A summary of monitoring well LNAPL recovery to date is provided in Table 3. The total cumulative LNAPL recovery for all monitoring wells, since recovery efforts began in 2009, is approximately 114,847 gallons.

3.3 Remedial Activities

In addition to the on-going O&M and monitoring activities, ExxonMobil is progressing the overall plans for the remedial approach to the Site and intends to implement remedial measures upon approval from the New York State Department of Environmental Conservation (NYSDEC). ExxonMobil submitted the draft Remedial Work Plan: Feasibility Study Report to the NYSDEC on July 21, 2017 to address NYSDEC comments previously provided and awaits further direction from the NYSDEC. The NYSDEC accepted written comments from the public on the Remedial Work Plan: Feasibility Study Report from July 21, 2017 through September 5, 2017. The Decision Document is anticipated to be submitted by the NYSDEC during the third quarter of 2018.

In accordance with the Roux Associates, Inc. 2016 Pre-Design Work Plan, a Pre-Design Investigation (PDI) was completed between November 2016 and May 2018, concluding with an LNAPL Transmissivity Assessment.

In accordance with NYSDEC approval received on January 25, 2018 via email correspondence, LNAPL transmissivity testing was conducted in an effort to further identify and define areas potentially suitable for additional LNAPL recovery efforts and to supplement and update existing transmissivity data. According to the Interstate Technology and Regulatory Council[1], LNAPL transmissivity is proportional to LNAPL recoverability. LNAPL transmissivity testing and sampling was performed at monitoring MW-42, MW-48D, MW-49M, MW50, and MW-65, during the first week of April.

A summary of the PDI findings was requested by the NYSDEC via e-mail correspondence and was submitted in the third quarter of 2018; further details will be provided in the next reporting period.

[1] The Interstate Technology and Regulatory Council is a public and private organization that produces documents and trainings to broaden and deepen technical knowledge on environmental issues while expediting regulatory acceptance of innovative technologies and methods.

3.4 Boom Maintenance

The absorbent boom voluntarily installed in the vicinity of Parcels A and B along Newtown Creek in April 2011, as described above and in Section 2.2, was inspected on a weekly basis and replaced bi-weekly during this reporting period, with a few exceptions due to inaccessibility caused by adverse weather conditions. Photographic documentation of these inspections is provided in Appendix A. There were minimal sheens observed within this area during the inspections for this reporting period. Although the source of the sheen is unclear, the boom area appears to be providing containment and recovery. The boom area will continue to be inspected on a weekly basis.

4. Groundwater Monitoring

This section provides a description of Site-wide groundwater monitoring performed during this reporting period. This work included monitoring well gauging for water level and LNAPL thickness.

The methods and results of these activities are described below.

4.1 Groundwater Monitoring

Roux collected Site-wide, fluid-level measurements on June 18, 2018 using an electronic interface probe in an attempt to characterize groundwater flow and potential LNAPL conditions. Fluid-level data collected on June 18, 2018 are provided in Table 4. These data were used to update the GWE contour map (Plate 2). As proposed in the last SSUR, GWE contour maps will no longer display bulkhead well gauging results as they are not representative of regional aquifer groundwater elevations.

A total of 58 of the 62 on-Site monitoring wells, and all 12 bulkhead wells were gauged for groundwater elevation and LNAPL thickness. Note that all of these wells are on third-party owned properties. Monitoring well MW-18 was covered by a temporary truck maintenance area. Monitoring wells MW-31 and MW-54 were each covered by a truck. Parcel F has no current access agreement during this reporting period and, as such, MW-68 could not be gauged; access negotiations are on-going with the Parcel F property owner. A summary of the monitoring wells that were not accessible is provided in Table 4.

Each quarter, measurements are taken to assess any potential changes in average GWE and apparent LNAPL thickness. GWE was calculated using the monitoring well top of casing elevation and depth to water detected in the monitoring well. For monitoring wells with LNAPL, the GWE was corrected using the apparent LNAPL thickness and specific gravity. Below is an evaluation of the fluid levels across the Site during the reporting period.

Based on a review of the existing soil boring logs, fluid elevations, and historic tidal surveys, a distinct low permeability hydrogeologic layer has been identified that is located along the shoreline extending into Parcels A and B. The areal extent of this layer is assumed to be associated with an intertidal zone that historically existed along Newtown Creek prior to industrial development. There are many monitoring wells that are screened above the intertidal deposits and, therefore, the water elevation measured in these monitoring wells is indicative of shallow unconfined conditions and not the regional unconfined/semi-confined aquifer. GWEs obtained from monitoring wells that are not screened in the regional aquifer were not considered for purposes of illustrating the regional groundwater flow field presented on Plate 2. The shallow water-bearing zone demonstrates higher GWEs and typically has relatively thinner apparent LNAPL thicknesses. The general groundwater flow direction within the regional aquifer is towards the south. A more detailed summary of these hydrogeologic conditions is provided in the Remedial Work Plan: Feasibility Study Report submitted to the NYSDEC on July 21, 2017.

Of the 58 monitoring wells gauged during this reporting period, 27 had detections of LNAPL, with the apparent LNAPL thicknesses ranging from approximately 0.02 feet (MW-58) to approximately 12.19 feet (MW-48D). It should be noted that some monitoring wells (e.g., MW-42 and MW-49M) are under semi-confined conditions and, as such, the LNAPL thicknesses observed in those monitoring wells may be exaggerated and are not representative of thickness in the surrounding formation. In addition, LNAPL was identified in monitoring well MW-64, but groundwater was not detected. Regional aquifer GWE ranged from

approximately -0.83 feet to approximately 8.10 feet relative to North American Vertical Datum of 1988 in monitoring wells MW-49D and MW-20, respectively. Monitoring wells that do not correspond to the regional aquifer were not considered. As shown on Plate 2, while there may be subtle variations, groundwater flow across the Site is generally south.

4.2 Groundwater Sampling

The Site-wide groundwater sampling activities were completed from June 18 through June 22. In an effort to characterize groundwater quality, groundwater samples were collected from all accessible monitoring wells with no LNAPL detected. A total of 14 monitoring wells out of the 62 monitoring wells on-Site were sampled during this reporting period. Further details on the wells that could not be sampled are provided below.

Monitoring wells MW-4S, MW-5S, MW-6S, MW-15, MW-15R, MW-28, MW-28D, MW-29, MW-33, MW-37, MW-44, MW-48S, MW-49S, MW-49D, MW-51, MW-55, MW-63, and MW-67 had sheen observed or LNAPL detected with the probe during sampling preparations, and, therefore, were not sampled during the groundwater sampling event. As mentioned above, Parcel F has no current access agreement and, as such, MW-68 could not be gauged or sampled. Monitoring wells that had detections of LNAPL, and, therefore, were not sampled during the groundwater sampling event, are shown in green on Plates 3 through 5.

Groundwater samples were collected using the methods described in Low Stress Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells (United States Environmental Protection Agency, 2010), and in accordance with correspondence from the NYSDEC, dated April 8, 2010 (sampling analysis reduction) and February 22, 2012 (sampling frequency reduction).

During groundwater sampling, an in-line, water quality measurement device was used in an effort to monitor water quality indicator parameters such as pH, hydraulic conductivity, dissolved oxygen, oxygen reduction potential, temperature, and turbidity. The field parameters were recorded on well sampling data forms, which are included as Appendix C.

Groundwater samples were submitted to Eurofins Lancaster Laboratories Environmental, LLC of Lancaster, Pennsylvania for analyses of volatile organic compounds (VOCs) Target Compound List (TCL) using Method 8260C, semivolatile organic compounds (SVOCs) TCL using Method 8270D, and Target Analyte List metals using Method 6010C and 7470A (mercury). The groundwater laboratory analytical data reports are provided in Appendix D. Laboratory analytical data packages for all data collected during groundwater monitoring have been provided to the NYSDEC in the electronic data deliverable (EDD) format.

As an additional quality assurance method, one blind duplicate sample was collected. The duplicate sample was collected from monitoring well MW-1. The duplicate sample was collected from the monitoring well immediately following collection of the original sample. The analytical results for blind duplicate and all samples collected are discussed later in this SSUR, and presented in Tables 5 through 7. The summary of the frequency of exceedances is presented in Table 8.

4.3 Groundwater Sampling Results

The following sections summarize the groundwater quality based on groundwater samples that were collected during this reporting period. Laboratory analytical data packages are provided to the NYSDEC in the EDD format, and summary analytical data tables are provided in Tables 5 through 7. Analytical data were compared to NYSDEC Ambient Water Quality Standards and Guidance Values (AWQSGVs), where

available. These criteria are for protection of groundwater as a potential drinking water supply (Class GA). Plates 3 through 5 provide a summary of the most recent groundwater quality exceedances within the Site, as well as historic groundwater sample results from the previous two sampling rounds. Generally, groundwater sampling results during this reporting period were consistent with previous sampling periods.

The discussion of groundwater quality is divided into the following sections:

- Petroleum-related dissolved contaminants;
- Metals; and
- Chlorinated volatile organic compounds (CVOCs).

4.3.1 Petroleum-Related Dissolved Contaminants

Although monitoring wells with LNAPL detections were not sampled, analytical data collected from monitoring wells screened across the water table indicate that groundwater immediately beneath the potential LNAPL accumulations contains dissolved petroleum constituents at concentrations exceeding NYSDEC AWQSGVs for Class GA groundwater. A summary of the results is provided below.

A summary of laboratory analytical data for VOCs in groundwater is presented in Table 5. The distribution of VOC exceedances in groundwater is summarized in Plate 3. Table 8 summarizes the frequency of exceedances for each compound, as well as minimum and maximum concentrations.

As summarized in Table 5, only two petroleum-related VOCs exceeded the AWQSGVs. Benzene exceedances were present in two samples, with the highest concentration of 5 micrograms per liter (µg/L), at MW-1.

The laboratory analytical data for SVOCs are provided in Table 6 and are summarized on Plate 4. Analytical data for SVOCs indicate detections exceeding NYSDEC AWQSGVs were polyaromatic hydrocarbons (PAHs). Table 8 summarizes the frequency of exceedances for each compound, as well as minimum and maximum concentrations.

As summarized in Table 6, the SVOCs exceeding the AWQSGVs consisted of four different PAH compounds. Benzo(a)anthracene exceedances were present in three monitoring wells, with a maximum concentration of 0.2 J µg/L, at MW-1 and MW-46. There were three exceedances of benzo(a)pyrene, with a maximum concentration of 0.3 J µg/L and a minimum concentration of 0.1 J µg/L at monitoring wells MW-46 and MW-1, respectively. A Benzo(b)fluoranthene exceedance occurred in one monitoring well, with a concentration of 0.2 J µg/L at monitoring well MW-46. There were two exceedances of chrysene, with a maximum concentration of 0.5 µg/L at monitoring well MW-1 and a minimum concentration of 0.5 J µg/L at monitoring wells MW-46. The “J” qualifier on the concentration signifies the concentration is an estimated value. Samples collected from MW-46 had the most frequent number, and highest concentrations, of SVOC exceedances during this sampling round.

4.3.2 Metals

A summary of laboratory analytical data for metals in groundwater is presented in Table 7. A summary of frequency of metals data exceeding NYSDEC criteria is presented in Table 8 and is shown on Plate 5. Samples collected from monitoring wells with field turbidity measurements exceeding 50 Nephelometric Turbidity Unit during groundwater sampling are filtered by the laboratory prior to metals analysis to remove

particulates, and analyzed for dissolved metals. There were no lab-filtered samples for dissolved metals collected during this reporting period.

Review of Table 7 suggests the majority of metals detections exceeding NYSDEC AWQSGVs are limited to four compounds (sodium, iron, magnesium, and manganese), which naturally occur in an environment next to a body of salt water. The metals and concentrations detected are consistent with the groundwater sampling results from the previous two sampling events.

In addition, arsenic, cadmium, and lead were each detected in concentrations exceeding the AWQSGVs.

4.3.3 Chlorinated Volatile Organic Compounds

A summary of laboratory analytical data for CVOCs in groundwater is presented in Table 5. The distribution of CVOC exceedances in groundwater is summarized in Plate 3. Table 8 summarizes the frequency of exceedances for each compound, as well as minimum and maximum concentrations.

CVOCs exceeded criteria at monitoring well MW-46, located in Parcel A, which consists of Lot 300, and monitoring well MW-69, located in Parcel H, which consists of Lot 330. As summarized in Table 5, the CVOCs exceeding the AWQSGVs consisted of one CVOC compound, chloroform. Chloroform exceedances were present in two samples, with the highest concentration of 40 micrograms per liter (µg/L), at MW-69.

Please note that, as stated in the Remedial Consent Order: “Nothing contained in this [Remedial Consent] Order shall be construed as requiring [ExxonMobil] to conduct any investigation and/or remedial action(s) relating to chlorinated volatile organic compounds including any daughter compound-related contaminants, in, on, or emanating from Lot 300 within the Site, which is currently owned and operated by Waste Management of New York, LLC.”

4.3.4 Groundwater Data Validation Summary

As part of the quality assurance procedures outlined in the Quality Assurance Project Plan, a number of quality assurance and control samples were collected as a part of the field sampling activities. One blind field duplicate and one matrix spike/matrix spike duplicate sample were collected during groundwater sampling activities. Sample analyses were found generally compliant with the method requirements, except as noted above.

5. Other Non-Consent Order Related Activities

On November 12, 2016, a separate and unconnected sheen was observed emanating from the timber bulkhead along Parcel A, west of the original sheen identified above. ExxonMobil became aware of this on November 14, 2016 and initiated an immediate, voluntary, and proactive response to contain and address the sheen with plastic temporary boom and absorbent boom. ExxonMobil voluntarily addressed the sheen in a good faith effort to mitigate its potential effect, if any. The source of the sheen is unclear. The plastic temporary boom was replaced with approximately 300 feet of 24-inch PVC hard boom on February 6, 2017.

The absorbent boom voluntarily installed along Parcel A in February 2017, associated with the sheen initially observed on November 12, 2016, was inspected and replaced weekly during this reporting period, with a few exceptions due to inaccessibility caused by adverse weather conditions. Updates on this area, including photographs, were provided, and will continue to be provided, to the NYSDEC via email on a bi-weekly basis. Inspections and absorbent boom replacement will continue as needed. Although the source of the sheen remains unclear and is observed sporadically, the hard boom and absorbent boom appears to be providing containment and recovery. During the third and fourth quarters of 2018, a section of steel sheet bulkhead is anticipated to be installed along Parcel A. This new section of the bulkhead will connect the existing steel bulkhead that exists along Parcel A and Parcel B, so that there will be steel bulkhead present along the entire shoreline of the Site. This work is being conducted outside of the Investigation Consent Order and Remedial Consent Order.

The approximate location of both PVC hard boom areas within the vicinity of Parcel A and Parcel B are shown on Plate 1. Photographic documentation of the inspections completed during this reporting period is provided in Appendix A.

6. Summary of Activities for This Reporting Period and Anticipated Site-Wide Activities for the Next Reporting Period

The following section summarizes the key IRM, O&M, and groundwater monitoring activities completed from April 1 through June 30, 2018 at the Site, as well as anticipated activities planned for the next reporting period (July 1, 2018 through September 30, 2018).

The following items were completed during this reporting period:

- Continued O&M activities at the IRMs, including, but not limited to, tracking and optimization of Spill Buster™ LNAPL recovery, and adjustment and maintenance of associated equipment;
- Manual LNAPL recovery at monitoring wells on a weekly basis using a hand-held Spill Buddy and traditional bailers;
- Inspection and re-installation of absorbent socks (if necessary) in monitoring wells with LNAPL thicknesses too low to recover with the Spill Buddy;
- Bulkhead absorbent boom inspections and replacement, to the extent necessary;
- LNAPL transmissivity tests at select wells across the Site;
- Collection of fluid-level measurements from the Site monitoring wells; and
- Groundwater sampling of the Site monitoring wells for VOCs, SVOCs, and metals.

The following items are on-going, Site-wide activities that are anticipated to occur during the next reporting period:

- Continued O&M activities at the IRMs, including, but not limited to, tracking and optimization of Spill Buster™ LNAPL recovery, and adjustment and maintenance of associated equipment;
- Manual LNAPL recovery at monitoring wells on a weekly basis using a hand-held Spill Buddy and traditional bailers;
- Inspection and re-installation of absorbent socks (if necessary) in monitoring wells with LNAPL thicknesses too low to recover with the Spill Buddy;
- Bulkhead absorbent boom inspections and replacement, to the extent necessary; and
- Collection of fluid-level measurements from the Site monitoring wells.

On behalf of ExxonMobil, Roux will continue to pursue the overall project goals of the Site and inform the NYSDEC of completed and upcoming activities pursuant to the requirements of the Remedial Consent Order and Investigation Consent Order.

Respectfully submitted,

ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C.



Dana Hignell
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TABLES

1. Summary of IRM LNAPL Recovery *(embedded)*
2. Summary of Spill Buddy LNAPL Recovery *(embedded*)
3. LNAPL Recovery for All Monitoring Wells
4. Monitoring Well Gauging Data
5. Summary of Volatile Organic Compounds in Groundwater
6. Summary of Semivolatile Organic Compounds in Groundwater
7. Summary of Metals in Groundwater
8. Summary of the Frequency of Exceedances in Groundwater

Notes Utilized Throughout Tables	
Groundwater Tables	
NYSDEC -	New York State Department of Environmental Conservation
AWQSGVs -	Ambient Water-Quality Standards and Guidance Values
J -	Estimated Value
U -	Compound was analyzed for but not detected
FD -	Duplicate
--	No NYSDEC AWQSGV available
NA -	Compound was not analyzed for by laboratory
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs	
µg/L -	Micrograms per liter

Table 3

LNAPL Recovery for All Monitoring Wells
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	Cumulative Recovery (gallons)
MW-2	24
MW-4S	430
MW-5	26,688
MW-6	71
MW-7	19
MW-9	46,850
MW-12R	2
MW-14	918
MW-16	83
MW-17	238
MW-18	19
MW-19	28
MW-22	4
MW-23	222
MW-24	27,196
MW-27	5
MW-28	7
MW-29	1
MW-30	67
MW-31	1
MW-32	2
MW-33	80
MW-42	3,636
MW-48S	3
MW-48D	2,772
MW-49S	57
MW-49M	2,102
MW-49D	12
MW-50	1,605
MW-54	43
MW-55	499
MW-56	15
MW-57	420
MW-58	1
MW-61	98
MW-64	131
MW-65	366
MW-66	119
MW-67	4
MW-68	9

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-1	7-Apr-09	ND	9.51	--	13.49	3.98	
MW-1	17-Apr-09	ND	9.43	--	13.49	4.06	
MW-1	29-Jul-09	ND	8.56	--	13.49	4.93	
MW-1	26-Oct-09	ND	8.08	--	13.49	5.41	
MW-1	22-Jan-10	ND	8.36	--	13.49	5.13	
MW-1	21-Apr-10	ND	8.3	--	13.49	5.19	
MW-1	19-Jul-10	ND	8.11	--	13.49	5.38	
MW-1	15-Oct-10	ND	7.69	--	13.49	5.80	
MW-1	11-Jan-11	ND	10.74	--	13.49	2.75	
MW-1	25-Apr-11	ND	9.81	--	13.49	3.68	
MW-1	22-Jul-11	ND	10.55	--	13.49	2.94	
MW-1	18-Oct-11	ND	10.03	--	13.49	3.46	
MW-1	16-Jan-12	ND	10.42	--	13.49	3.07	
MW-1	12-Apr-12	ND	11.11	--	13.49	2.38	
MW-1	11-Jul-12	ND	10.26	--	13.49	3.23	
MW-1	23-Oct-12	ND	10.6	--	13.49	2.89	
MW-1	18-Jan-13	ND	10.86	--	13.49	2.63	
MW-1	18-Apr-13	ND	10.88	--	13.49	2.61	
MW-1	15-Jul-13	ND	10.49	--	13.49	3.00	
MW-1	28-Oct-13	NM	NM	NM	13.49	NM	Well inaccessible
MW-1	27-Jan-14	NM	NM	NM	13.49	NM	Well inaccessible
MW-1	7-Apr-14	NM	NM	NM	13.49	NM	Unable to locate
MW-1	18-Jul-14	NM	NM	NM	13.49	NM	Well inaccessible
MW-1	15-Oct-14	NM	NM	NM	13.49	NM	Under asphalt
MW-1	4-Feb-15	NM	NM	NM	13.49	NM	Unable to locate
MW-1	29-Apr-15	NM	NM	NM	13.49	NM	Unable to locate
MW-1	14-Jul-15	NM	NM	NM	12.54	NM	Unable to locate
MW-1	13-Oct-15	ND	8.9	--	12.54	3.64	
MW-1	9-Nov-15	ND	9.97	--	12.54	2.57	
MW-1	4-Feb-16	ND	9.68	--	12.54	2.86	
MW-1	11-May-16	ND	9.78	--	12.54	2.76	
MW-1	23-Aug-16	ND	9.91	--	12.54	2.63	
MW-1	10-Nov-16	ND	9.52	--	12.54	3.02	
MW-1	24-Feb-17	ND	9.73	--	12.54	2.81	
MW-1	1-May-17	ND	9.27	--	12.54	3.27	
MW-1	14-Aug-17	ND	9.15	--	12.54	3.39	
MW-1	14-Nov-17	ND	9.76	--	12.54	2.78	
MW-1	27-Feb-18	NM	NM	NM	12.54	NM	Flooded
MW-1	18-Jun-18	ND	9.58	--	12.54	2.96	
MW-2	7-Apr-09	ND	5.45	--	6.56	1.11	
MW-2	17-Apr-09	7.72	7.81	0.09	6.56	-1.17	
MW-2	29-Jul-09	7.78	8.88	1.10	6.56	-1.32	
MW-2	26-Oct-09	6.72	8.09	1.37	6.56	-0.29	
MW-2	22-Jan-10	8.19	9.93	1.74	6.56	-1.80	
MW-2	21-Apr-10	7.54	8.04	0.50	6.56	-1.03	
MW-2	19-Jul-10	7.49	7.73	0.24	6.56	-0.95	
MW-2	15-Oct-10	7.13	7.57	0.44	6.56	-0.61	
MW-2	11-Jan-11	6.86	7.18	0.32	6.56	-0.33	
MW-2	25-Apr-11	7.90	8.1	0.20	6.56	-1.36	
MW-2	22-Jul-11	7.84	7.99	0.15	6.56	-1.29	
MW-2	18-Oct-11	7.05	7.19	0.14	6.56	-0.50	
MW-2	16-Jan-12	7.88	8	0.12	6.56	-1.33	
MW-2	12-Apr-12	7.80	7.87	0.07	6.56	-1.25	
MW-2	11-Jul-12	7.75	8.05	0.30	6.56	-1.22	
MW-2	23-Oct-12	6.55	6.69	0.14	6.56	0.00	
MW-2	18-Jan-13	7.70	7.8	0.10	6.56	-1.15	
MW-2	18-Apr-13	7.84	8.02	0.18	6.56	-1.30	
MW-2	15-Jul-13	8.12	8.31	0.19	6.56	-1.58	
MW-2	28-Oct-13	7.38	7.58	0.20	6.56	-0.84	
MW-2	27-Jan-14	NM	NM	NM	6.56	NM	Well inaccessible
MW-2	7-Apr-14	7.65	7.84	0.19	6.56	-1.11	
MW-2	18-Jul-14	8.20	8.4	0.20	6.56	-1.66	
MW-2	15-Oct-14	NM	NM	NM	6.56	NM	Under asphalt
MW-2	4-Feb-15	NM	NM	NM	6.56	NM	Unable to locate
MW-2	29-Apr-15	11.01	11.5	0.49	NM	NM	Top of casing not measured
MW-2	14-Jul-15	11.12	11.57	0.45	10.24	-0.92	Well damaged
MW-2	13-Oct-15	NM	NM	NM	10.24	NM	Under asphalt
MW-2	9-Nov-15	NM	NM	NM	10.24	NM	Under asphalt
MW-2	4-Feb-16	NM	NM	NM	10.24	NM	Flooded

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-2	11-May-16	12.71	12.72	0.01	10.24	-2.47	
MW-2	23-Aug-16	14.19	15.35	1.16	10.24	-4.06	
MW-2	10-Nov-16	12.49	14.55	2.06	10.24	-2.45	
MW-2	24-Feb-17	11.88	13	1.12	10.24	-1.75	
MW-2	1-May-17	13.78	14.56	0.78	10.24	-3.61	
MW-2	14-Aug-17	12.69	13.61	0.92	10.24	-2.54	
MW-2	14-Nov-17	10.95	12.6	1.65	10.24	-0.87	
MW-2	27-Feb-18	11.13	11.19	0.06	10.24	-0.90	
MW-2	18-Jun-18	11.55	11.71	0.16	10.24	-1.33	
MW-3	7-Apr-09	NM	NM	NM	7.95	NM	
MW-3	17-Apr-09	NM	NM	NM	7.95	NM	
MW-3	29-Jul-09	NM	NM	NM	7.95	NM	
MW-3	26-Oct-09	8.15	9.7	1.55	7.95	-0.27	
MW-3	22-Jan-10	8.20	8.22	0.02	7.95	-0.25	
MW-3	21-Apr-10	8.95	9.05	0.10	7.95	-1.00	
MW-3	19-Jul-10	8.80	9.55	0.75	7.95	-0.88	
MW-3	15-Oct-10	7.55	11.04	3.49	7.95	0.25	
MW-3	11-Jan-11	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	25-Apr-11	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	22-Jul-11	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	18-Oct-11	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	16-Jan-12	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	12-Apr-12	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	11-Jul-12	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	23-Oct-12	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	18-Jan-13	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	18-Apr-13	NM	NM	NM	7.95	NM	Unable to open
MW-3	15-Jul-13	5.60	8.75	3.15	7.95	2.22	
MW-3	28-Oct-13	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	27-Jan-14	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	7-Apr-14	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	18-Jul-14	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	15-Oct-14	NM	NM	NM	7.95	NM	Under asphalt
MW-3	4-Feb-15	NM	NM	NM	7.95	NM	Well removed by WM
MW-4	7-Apr-09	6.59	9.65	3.06	8.87	1.92	
MW-4	17-Apr-09	6.52	11.55	5.03	8.87	1.76	
MW-4	29-Jul-09	6.00	10.95	4.95	8.87	2.29	Well abandoned
MW-4D	26-Oct-09	ND	6.95	--	8.57	1.62	
MW-4D	22-Jan-10	ND	7.72	--	8.57	0.85	
MW-4D	21-Apr-10	ND	6.71	--	8.57	1.86	
MW-4D	19-Jul-10	ND	7.09	--	8.57	1.48	
MW-4D	15-Oct-10	ND	6.41	--	8.57	2.16	
MW-4D	11-Jan-11	ND	8.42	--	8.57	0.15	
MW-4D	25-Apr-11	ND	7.51	--	8.57	1.06	
MW-4D	22-Jul-11	ND	7.68	--	8.57	0.89	
MW-4D	18-Oct-11	ND	6.5	--	8.57	2.07	
MW-4D	16-Jan-12	ND	7.85	--	8.57	0.72	
MW-4D	12-Apr-12	ND	8.46	--	8.57	0.11	
MW-4D	11-Jul-12	ND	7.66	--	8.57	0.91	
MW-4D	23-Oct-12	ND	7.7	--	8.57	0.87	
MW-4D	18-Jan-13	ND	8.43	--	8.57	0.14	
MW-4D	18-Apr-13	ND	8.36	--	8.57	0.21	
MW-4D	15-Jul-13	ND	7.88	--	8.57	0.69	
MW-4D	28-Oct-13	ND	8.89	--	8.57	-0.32	
MW-4D	27-Jan-14	ND	8.19	--	8.57	0.38	
MW-4D	7-Apr-14	ND	7.85	--	8.57	0.72	
MW-4D	18-Jul-14	ND	7.4	--	8.57	1.17	
MW-4D	15-Oct-14	ND	8.1	--	8.57	0.47	
MW-4D	4-Feb-15	NM	NM	NM	8.57	NM	Submerged in water
MW-4D	29-Apr-15	ND	7.61	--	8.57	0.96	
MW-4D	14-Jul-15	ND	9.32	--	11.32	2.00	
MW-4D	13-Oct-15	NM	NM	NM	11.32	NM	Under vehicle
MW-4D	9-Nov-15	ND	10.88	--	11.32	0.44	
MW-4D	5-Feb-16	ND	10.39	--	11.32	0.93	
MW-4D	11-May-16	ND	11.75	--	11.32	-0.43	
MW-4D	23-Aug-16	ND	10.83	--	11.32	0.49	
MW-4D	10-Nov-16	ND	10.58	--	11.32	0.74	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-4D	24-Feb-17	NM	NM	NM	11.32	NM	Under vehicle
MW-4D	1-May-17	ND	10.25	--	11.32	1.07	
MW-4D	14-Aug-17	ND	9.69	--	11.32	1.63	
MW-4D	14-Nov-17	ND	10.48	--	11.32	0.84	
MW-4D	27-Feb-18	ND	10.09	--	11.32	1.23	
MW-4D	18-Jun-18	ND	9.56	--	11.32	1.76	
MW-4S	26-Oct-09	6.31	7.2	0.89	8.81	2.41	
MW-4S	22-Jan-10	6.50	7.27	0.77	8.81	2.23	
MW-4S	21-Apr-10	5.81	6.43	0.62	8.81	2.93	
MW-4S	19-Jul-10	6.34	7.22	0.88	8.81	2.38	
MW-4S	15-Oct-10	6.34	7.42	1.08	8.81	2.36	
MW-4S	11-Jan-11	7.41	8.15	0.74	8.81	1.32	
MW-4S	25-Apr-11	6.50	7.27	0.77	8.81	2.23	
MW-4S	22-Jul-11	6.39	7.05	0.66	8.81	2.35	
MW-4S	18-Oct-11	5.92	6.4	0.48	8.81	2.84	
MW-4S	16-Jan-12	7.18	7.9	0.72	8.81	1.55	
MW-4S	12-Apr-12	7.30	7.95	0.65	8.81	1.44	
MW-4S	11-Jul-12	6.72	7.4	0.68	8.81	2.02	
MW-4S	23-Oct-12	7.12	7.75	0.63	8.81	1.62	
MW-4S	18-Jan-13	7.00	7.42	0.42	8.81	1.77	
MW-4S	18-Apr-13	7.18	7.7	0.52	8.81	1.58	
MW-4S	15-Jul-13	6.92	7.6	0.68	8.81	1.82	
MW-4S	28-Oct-13	7.20	7.81	0.61	8.81	1.55	
MW-4S	27-Jan-14	7.28	7.6	0.32	8.81	1.50	
MW-4S	7-Apr-14	6.80	7.14	0.34	8.81	1.97	
MW-4S	18-Jul-14	6.59	7.08	0.49	8.81	2.17	
MW-4S	15-Oct-14	6.84	7.35	0.51	8.81	1.92	
MW-4S	4-Feb-15	NM	NM	NM	8.81	NM	Submerged in water
MW-4S	29-Apr-15	5.34	5.83	0.49	8.81	3.42	
MW-4S	14-Jul-15	7.81	7.86	0.05	11.28	3.46	
MW-4S	13-Oct-15	ND	9.7	--	11.28	1.58	
MW-4S	9-Nov-15	8.11	8.19	0.08	11.28	3.16	
MW-4S	4-Feb-16	ND	7.43	--	11.28	3.85	
MW-4S	11-May-16	ND	7.35	--	11.28	3.93	
MW-4S	23-Aug-16	7.43	7.44	0.01	11.28	3.85	
MW-4S	10-Nov-16	ND	7.11	--	11.28	4.17	
MW-4S	24-Feb-17	ND	7.19	--	11.28	4.09	
MW-4S	1-May-17	ND	6.8	--	11.28	4.48	
MW-4S	14-Aug-17	ND	6.74	--	11.28	4.54	
MW-4S	14-Nov-17	ND	7.5	--	11.28	3.78	
MW-4S	27-Feb-18	ND	6.68	--	11.28	4.60	
MW-4S	18-Jun-18	ND	7.04	--	11.28	4.24	
MW-5	7-Apr-09	7.14	18.82	11.68	9.62	1.31	
MW-5	17-Apr-09	7.32	18.66	11.34	9.62	1.16	
MW-5	29-Jul-09	6.99	20	13.01	9.62	1.33	
MW-5	26-Oct-09	7.69	18.05	10.36	9.62	0.89	
MW-5	22-Jan-10	NM	NM	NM	9.62	NM	
MW-5	21-Apr-10	7.11	19.6	12.49	9.62	1.26	
MW-5	19-Jul-10	6.94	19.6	12.66	9.62	1.41	
MW-5	15-Oct-10	7.30	20.02	12.72	9.62	1.04	
MW-5	11-Jan-11	9.47	19.48	10.01	9.62	-0.85	
MW-5	25-Apr-11	8.69	20.11	11.42	9.62	-0.22	
MW-5	22-Jul-11	8.09	19.11	11.02	9.62	0.42	
MW-5	18-Oct-11	6.95	18.72	11.77	9.62	1.49	
MW-5	16-Jan-12	8.23	18.9	10.67	9.62	0.32	
MW-5	12-Apr-12	8.70	19.6	10.90	9.62	-0.17	
MW-5	11-Jul-12	8.30	19.35	11.05	9.62	0.21	
MW-5	23-Oct-12	11.00	22.1	11.10	11.44	-0.67	
MW-5	18-Jan-13	10.60	21.8	11.20	11.44	-0.28	
MW-5	18-Apr-13	11.70	14.24	2.54	11.44	-0.51	
MW-5	15-Jul-13	NM	NM	NM	11.44	NM	
MW-5	28-Oct-13	11.15	19.3	8.15	11.44	-0.53	
MW-5	27-Jan-14	NM	NM	NM	11.44	NM	
MW-5	7-Apr-14	11.90	12	0.10	11.44	-0.47	
MW-5	18-Jul-14	10.14	21	10.86	11.44	0.21	
MW-5	15-Oct-14	14.06	25.4	11.34	11.44	-3.76	
MW-5	4-Feb-15	NM	NM	NM	NM	NM	Well inaccessible
MW-5	30-Apr-15	9.02	20.68	11.66	11.44	1.25	System off

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-5	14-Jul-15	5.96	20.9	14.94	10.12	2.66	System off
MW-5	13-Oct-15	8.21	20.9	12.69	10.12	0.64	System off
MW-5	10-Nov-15	8.67	20.9	12.23	10.12	0.22	System off
MW-5	4-Feb-16	9.42	20.72	11.30	10.12	-0.43	System off
MW-5	11-May-16	10.06	13.52	3.46	10.12	-0.29	System on
MW-5	23-Aug-16	10.32	15.38	5.06	10.12	-0.71	System on
MW-5	10-Nov-16	10.32	15.38	5.06	10.12	-0.71	System on
MW-5	24-Feb-17	11.07	11.26	0.19	10.12	-0.97	System on
MW-5	1-May-17	10.03	17.92	7.89	10.12	-0.70	System on
MW-5	14-Aug-17	9.76	13.28	3.52	10.12	0.01	System on
MW-5	14-Nov-17	9.38	15.11	5.73	10.12	0.17	System on
MW-5	27-Feb-18	10.21	13.98	3.77	10.12	-0.47	System on
MW-5	18-Jun-18	9.03	15.48	6.45	10.12	0.44	System on
MW-5S	11-Jul-12	ND	5.9	--	8.44	2.54	
MW-5S	23-Oct-12	ND	6.69	--	8.44	1.75	
MW-5S	18-Jan-13	ND	6.61	--	8.44	1.83	
MW-5S	18-Apr-13	ND	6.88	--	8.44	1.56	
MW-5S	15-Jul-13	6.00	6.01	0.01	8.44	2.44	
MW-5S	28-Oct-13	ND	7.38	--	8.44	1.06	
MW-5S	27-Jan-14	ND	6.4	--	8.44	2.04	
MW-5S	7-Apr-14	ND	6.07	--	8.44	2.37	
MW-5S	18-Jul-14	5.82	5.84	0.02	8.44	2.62	
MW-5S	4-Feb-15	NM	NM	NM	8.44	NM	Unable to locate
MW-5S	30-Apr-15	ND	6.43	--	8.44	2.01	
MW-5S	14-Jul-15	ND	6.3	--	10.19	3.89	
MW-5S	13-Oct-15	ND	6.33	--	10.19	3.86	
MW-5S	9-Nov-15	7.66	7.67	0.01	10.19	2.53	
MW-5S	4-Feb-16	ND	5.62	--	10.19	4.57	
MW-5S	11-May-16	ND	6.98	--	10.19	3.21	
MW-5S	23-Aug-16	ND	5.91	--	10.19	4.28	
MW-5S	10-Nov-16	ND	5.46	--	10.19	4.73	
MW-5S	24-Feb-17	ND	5.42	--	10.19	4.77	
MW-5S	2-May-17	ND	5.38	--	10.19	4.81	
MW-5S	14-Aug-17	ND	4.6	--	10.19	5.59	
MW-5S	14-Nov-17	ND	5.93	--	10.19	4.26	
MW-5S	27-Feb-18	ND	4.33	--	10.19	5.86	
MW-5S	18-Jun-18	ND	4.86	--	10.19	5.33	Trace product
MW-6	7-Apr-09	9.09	12.18	3.09	11.8	2.38	
MW-6	17-Apr-09	9.35	12.55	3.20	11.8	2.11	
MW-6	29-Jul-09	8.79	12.82	4.03	11.8	2.59	
MW-6	26-Oct-09	9.08	15.55	6.47	11.8	2.04	
MW-6	22-Jan-10	9.22	18	8.78	11.8	1.66	
MW-6	21-Apr-10	8.62	9.25	0.63	11.8	3.11	
MW-6	19-Jul-10	8.73	10.34	1.61	11.8	2.90	
MW-6	15-Oct-10	ND	9.29	--	11.8	2.51	
MW-6	11-Jan-11	11.20	11.63	0.43	11.8	0.55	
MW-6	25-Apr-11	10.28	11	0.72	11.8	1.44	
MW-6	22-Jul-11	9.91	11.05	1.14	11.8	1.77	
MW-6	18-Oct-11	8.40	8.85	0.45	11.8	3.35	
MW-6	16-Jan-12	9.85	10.5	0.65	11.8	1.88	
MW-6	12-Apr-12	10.21	10.65	0.44	11.8	1.54	
MW-6	11-Jul-12	10.10	11.09	0.99	11.8	1.60	
MW-6	23-Oct-12	10.48	10.75	0.27	11.8	1.29	
MW-6	18-Jan-13	11.08	11.8	0.72	11.8	0.64	
MW-6	18-Apr-13	10.94	11.83	0.89	11.8	0.77	
MW-6	15-Jul-13	10.58	10.68	0.10	11.8	1.21	
MW-6	28-Oct-13	10.80	11.16	0.36	11.8	0.96	
MW-6	27-Jan-14	10.79	12.59	1.80	11.8	0.82	
MW-6	7-Apr-14	10.77	11.7	0.93	11.8	0.93	
MW-6	18-Jul-14	10.00	10.18	0.18	11.8	1.78	
MW-6	15-Oct-14	NM	NM	NM	11.8	NM	Well inaccessible
MW-6	4-Feb-15	NM	NM	NM	11.8	NM	Unable to locate
MW-6	29-Apr-15	NM	NM	NM	11.8	NM	Unable to locate
MW-6	14-Jul-15	NM	NM	NM	11.8	NM	Destroyed during WM Construction
MW-6S	11-Jul-12	9.20	9.68	0.48	12.15	2.90	
MW-6S	23-Oct-12	9.09	9.65	0.56	12.15	3.01	
MW-6S	18-Jan-13	9.80	10.4	0.60	12.15	2.29	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-6S	18-Apr-13	9.75	10.8	1.05	12.15	2.30	
MW-6S	15-Jul-13	9.40	10.12	0.72	12.15	2.68	
MW-6S	28-Oct-13	10.09	12.2	2.11	12.15	1.86	
MW-6S	27-Jan-14	9.60	10.3	0.70	12.15	2.48	
MW-6S	7-Apr-14	9.42	9.98	0.56	12.15	2.68	
MW-6S	18-Jul-14	9.19	9.97	0.78	12.15	2.89	
MW-6S	15-Oct-14	NM	NM	NM	12.15	NM	Well inaccessible
MW-6S	4-Feb-15	NM	NM	NM	12.15	NM	Unable to locate
MW-6S	29-Apr-15	NM	NM	NM	12.15	NM	Covered
MW-6S	14-Jul-15	7.84	7.99	0.15	10.39	2.54	
MW-6S	13-Oct-15	7.20	7.75	0.55	10.39	3.14	
MW-6S	9-Nov-15	ND	7.49	--	10.39	2.90	
MW-6S	4-Feb-16	7.00	7.23	0.23	10.39	3.37	
MW-6S	11-May-16	7.34	7.6	0.26	10.39	3.03	
MW-6S	23-Aug-16	ND	8.16	--	10.39	2.23	
MW-6S	10-Nov-16	7.78	8.05	0.27	10.39	2.58	
MW-6S	24-Feb-17	ND	6.5	--	10.39	3.89	
MW-6S	1-May-17	ND	6.51	--	10.39	3.88	
MW-6S	14-Aug-17	ND	4.89	--	10.39	5.50	
MW-6S	14-Nov-17	ND	6.12	--	10.39	4.27	
MW-6S	27-Feb-18	ND	4.87	--	10.39	5.52	
MW-6S	18-Jun-18	ND	5.41	--	10.39	4.98	
MW-7	7-Apr-09	4.82	5.18	0.36	6.54	1.69	
MW-7	17-Apr-09	7.74	8.42	0.68	6.54	-1.26	
MW-7	29-Jul-09	7.80	9.3	1.50	6.54	-1.39	
MW-7	26-Oct-09	7.07	7.7	0.63	6.54	-0.58	
MW-7	22-Jan-10	6.04	7.62	1.58	6.54	0.36	
MW-7	21-Apr-10	8.05	8.1	0.05	6.54	-1.51	
MW-7	19-Jul-10	8.00	9.66	1.66	6.54	-1.60	
MW-7	15-Oct-10	6.34	7.59	1.25	6.54	0.09	
MW-7	11-Jan-11	7.59	8.71	1.12	6.54	-1.15	
MW-7	25-Apr-11	5.16	5.21	0.05	6.54	1.38	
MW-7	22-Jul-11	7.95	8.97	1.02	6.54	-1.50	
MW-7	18-Oct-11	7.22	8.42	1.20	6.54	-0.78	
MW-7	16-Jan-12	7.85	8	0.15	6.54	-1.32	
MW-7	12-Apr-12	8.15	8.3	0.15	6.54	-1.62	
MW-7	11-Jul-12	7.90	9	1.10	6.54	-1.46	
MW-7	23-Oct-12	7.99	8.1	0.11	6.54	-1.46	
MW-7	18-Jan-13	7.80	7.92	0.12	6.54	-1.27	
MW-7	18-Apr-13	8.10	8.23	0.13	6.54	-1.57	
MW-7	15-Jul-13	7.95	8.6	0.65	6.54	-1.47	
MW-7	28-Oct-13	NM	NM	NM	6.54	NM	Well inaccessible
MW-7	27-Jan-14	NM	NM	NM	6.54	NM	Well inaccessible
MW-7	7-Apr-14	7.75	7.95	0.20	6.54	-1.23	
MW-7	18-Jul-14	NM	NM	NM	6.54	NM	LNAPL too viscous
MW-7	15-Oct-14	7.00	7.18	0.18	6.54	-0.48	
MW-7	4-Feb-15	NM	NM	NM	6.54	NM	Under ice
MW-7	29-Apr-15	NM	NM	NM	6.54	NM	Covered
MW-7	14-Jul-15	10.85	12.08	1.23	9.62	-1.34	
MW-7	13-Oct-15	7.25	7.75	0.50	9.62	2.33	
MW-7	10-Nov-15	7.61	7.65	0.04	9.62	2.01	
MW-7	4-Feb-16	11.59	11.97	0.38	9.62	-2.00	
MW-7	11-May-16	12.88	13.6	0.72	9.62	-3.32	
MW-7	23-Aug-16	11.58	13.31	1.73	9.62	-2.11	
MW-7	10-Nov-16	10.55	11.8	1.25	9.62	-1.04	
MW-7	24-Feb-17	11.62	12.66	1.04	9.62	-2.09	
MW-7	1-May-17	11.25	12.1	0.85	9.62	-1.70	
MW-7	14-Aug-17	11.36	12.71	1.35	9.62	-1.86	
MW-7	14-Nov-17	10.85	11.14	0.29	9.62	-1.26	
MW-7	27-Feb-18	12.07	12.57	0.50	9.62	-2.49	
MW-7	18-Jun-18	11.66	12.41	0.75	9.62	-2.11	
MW-8	7-Apr-09	ND	4.09	--	5.8	1.71	
MW-8	17-Apr-09	ND	7.54	--	5.8	-1.74	
MW-8	29-Jul-09	ND	7.5	--	5.8	-1.70	
MW-8	26-Oct-09	ND	6.83	--	5.8	-1.03	
MW-8	22-Jan-10	ND	6.59	--	5.8	-0.79	
MW-8	21-Apr-10	ND	7.66	--	5.8	-1.86	
MW-8	19-Jul-10	ND	7.42	--	5.8	-1.62	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-8	15-Oct-10	ND	6.87	--	5.8	-1.07	
MW-8	11-Jan-11	ND	6.19	--	5.8	-0.39	
MW-8	25-Apr-11	ND	7.77	--	5.8	-1.97	
MW-8	22-Jul-11	ND	7.79	--	5.8	-1.99	
MW-8	18-Oct-11	ND	6.59	--	5.8	-0.79	
MW-8	16-Jan-12	ND	7.2	--	5.8	-1.40	
MW-8	12-Apr-12	ND	8.42	--	5.8	-2.62	
MW-8	11-Jul-12	ND	7.94	--	5.8	-2.14	
MW-8	23-Oct-12	ND	7.69	--	5.8	-1.89	
MW-8	18-Jan-13	ND	6.81	--	5.8	-1.01	
MW-8	18-Apr-13	ND	7.92	--	5.8	-2.12	
MW-8	15-Jul-13	ND	7.6	--	5.8	-1.80	
MW-8	28-Oct-13	ND	7.09	--	5.8	-1.29	
MW-8	27-Jan-14	ND	8.27	--	5.8	-2.47	
MW-8	7-Apr-14	ND	8.08	--	5.8	-2.28	
MW-8	18-Jul-14	ND	7.51	--	5.8	-1.71	
MW-8	15-Oct-14	ND	5.8	--	5.8	0.00	
MW-8	4-Feb-15	NM	NM	NM	5.8	NM	Unable to locate
MW-8	29-Apr-15	ND	7.84	--	5.8	-2.04	
MW-8	14-Jul-15	ND	7.69	--	6.54	-1.15	
MW-8	13-Oct-15	ND	3.4	--	6.54	3.14	
MW-8	9-Nov-15	ND	8.53	--	6.54	-1.99	
MW-8	4-Feb-16	ND	8.31	--	6.54	-1.77	
MW-8	11-May-16	ND	8.28	--	6.54	-1.74	
MW-8	23-Aug-16	ND	8.76	--	6.54	-2.22	
MW-8	10-Nov-16	ND	7.45	--	6.54	-0.91	
MW-8	24-Feb-17	ND	8.54	--	6.54	-2.00	
MW-8	1-May-17	ND	8.52	--	6.54	-1.98	
MW-8	14-Aug-17	ND	8.02	--	6.54	-1.48	
MW-8	14-Nov-17	ND	7.74	--	6.54	-1.20	
MW-8	27-Feb-18	ND	9.34	--	6.54	-2.80	
MW-8	18-Jun-18	ND	8.41	--	6.54	-1.87	
MW-9	7-Apr-09	8.40	17.7	9.30	9.76	0.42	
MW-9	17-Apr-09	8.28	17.51	9.23	9.76	0.54	
MW-9	29-Jul-09	8.35	17.9	9.55	9.76	0.44	
MW-9	26-Oct-09	8.84	17.9	9.06	9.76	0.00	
MW-9	22-Jan-10	9.85	18.2	8.35	9.76	-0.94	
MW-9	21-Apr-10	8.86	14.99	6.13	9.76	0.28	
MW-9	19-Jul-10	8.50	17.99	9.49	9.76	0.30	
MW-9	15-Oct-10	8.60	13.83	5.23	9.76	0.63	
MW-9	11-Jan-11	10.52	18.16	7.64	9.76	-1.54	
MW-9	25-Apr-11	9.94	17.85	7.91	9.76	-0.98	
MW-9	22-Jul-11	9.46	17.8	8.34	9.76	-0.55	
MW-9	18-Oct-11	8.71	16.85	8.14	9.76	0.22	
MW-9	16-Jan-12	11.40	19.45	8.05	11.37	-0.85	
MW-9	12-Apr-12	11.95	19.3	7.35	11.37	-1.33	
MW-9	11-Jul-12	11.35	19.2	7.85	11.37	-0.78	
MW-9	23-Oct-12	11.65	19.5	7.85	11.37	-1.08	
MW-9	18-Jan-13	NM	NM	NM	11.37	NM	
MW-9	18-Apr-13	13.80	16.3	2.50	11.37	-2.68	
MW-9	15-Jul-13	NM	NM	NM	11.37	NM	
MW-9	28-Oct-13	12.24	19.5	7.26	11.37	-1.61	
MW-9	27-Jan-14	12.75	18.4	5.65	11.37	-1.95	
MW-9	7-Apr-14	12.40	14.2	1.80	11.37	-1.21	
MW-9	18-Jul-14	11.20	19.4	8.20	11.37	-0.66	
MW-9	15-Oct-14	11.44	19.5	8.06	11.37	-0.89	
MW-9	4-Feb-15	11.40	19.5	8.10	11.37	-0.85	System off
MW-9	29-Apr-15	12.14	15.08	2.94	11.37	-1.07	System on
MW-9	14-Jul-15	11.80	19.57	7.77	11.37	-1.22	System on
MW-9	13-Oct-15	11.86	12.44	0.58	11.37	-0.55	System on
MW-9	9-Nov-15	11.79	18.35	6.56	11.37	-1.09	System on
MW-9	4-Feb-16	12.54	12.91	0.37	11.37	-1.21	System on
MW-9	11-May-16	13.27	18.92	5.65	11.37	-2.47	System on
MW-9	23-Aug-16	11.90	19.38	7.48	11.37	-1.29	System on
MW-9	10-Nov-16	12.50	15.12	2.62	11.37	-1.40	System on
MW-9	24-Feb-17	12.68	17.89	5.21	11.37	-1.84	System on
MW-9	1-May-17	12.54	15.4	2.86	11.37	-1.46	System on
MW-9	14-Aug-17	12.18	13.01	0.83	11.37	-0.89	System on
MW-9	14-Nov-17	12.14	12.83	0.69	11.37	-0.84	System on

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-9	27-Feb-18	12.07	17.31	5.24	11.37	-1.23	System on
MW-9	18-Jun-18	11.98	13.22	1.24	11.37	-0.74	System on
MW-10	7-Apr-09	ND	8.74	--	10.56	1.82	
MW-10	17-Apr-09	ND	8.64	--	10.56	1.92	
MW-10	29-Jul-09	ND	8.1	--	10.56	2.46	
MW-10	26-Oct-09	ND	8.2	--	10.56	2.36	
MW-10	22-Jan-10	ND	8.63	--	10.56	1.93	
MW-10	21-Apr-10	ND	8.28	--	10.56	2.28	
MW-10	19-Jul-10	ND	8.47	--	10.56	2.09	
MW-10	15-Oct-10	ND	8.25	--	10.56	2.31	
MW-10	11-Jan-11	ND	8.68	--	10.56	1.88	
MW-10	25-Apr-11	ND	8.27	--	10.56	2.29	
MW-10	22-Jul-11	ND	8.68	--	10.56	1.88	
MW-10	18-Oct-11	ND	8.21	--	10.56	2.35	
MW-10	16-Jan-12	ND	8.39	--	10.56	2.17	
MW-10	12-Apr-12	ND	8.54	--	10.56	2.02	
MW-10	11-Jul-12	ND	8.4	--	10.56	2.16	
MW-10	23-Oct-12	ND	8.5	--	10.56	2.06	
MW-10	18-Jan-13	ND	8.55	--	10.56	2.01	
MW-10	18-Apr-13	8.82	8.83	0.01	10.56	1.74	
MW-10	15-Jul-13	ND	8.76	--	10.56	1.80	
MW-10	28-Oct-13	ND	8.97	--	10.56	1.59	
MW-10	27-Jan-14	ND	8.75	--	10.56	1.81	
MW-10	7-Apr-14	ND	8.4	--	10.56	2.16	
MW-10	18-Jul-14	ND	8.4	--	10.56	2.16	
MW-10	15-Oct-14	ND	8.58	--	10.56	1.98	
MW-10	4-Feb-15	ND	8.59	--	10.56	1.97	
MW-10	29-Apr-15	ND	8.62	--	10.56	1.94	
MW-10	14-Jul-15	ND	8.57	--	10.56	1.99	
MW-10	13-Oct-15	ND	8.41	--	10.56	2.15	
MW-10	9-Nov-15	ND	8.81	--	10.56	1.75	
MW-10	4-Feb-16	ND	8.33	--	10.56	2.23	
MW-10	11-May-16	ND	8.55	--	10.56	2.01	
MW-10	23-Aug-16	ND	8.8	--	10.56	1.76	
MW-10	10-Nov-16	ND	8.68	--	10.56	1.88	
MW-10	24-Feb-17	ND	8.8	--	10.56	1.76	
MW-10	1-May-17	ND	8.38	--	10.56	2.18	
MW-10	14-Aug-17	ND	8.46	--	10.56	2.10	
MW-10	14-Nov-17	ND	8.46	--	10.56	2.10	
MW-10	27-Feb-18	ND	8.44	--	10.56	2.12	
MW-10	18-Jun-18	ND	8.52	--	10.56	2.04	
MW-11	7-Apr-09	ND	5.73	--	6.98	1.25	
MW-11	17-Apr-09	ND	8.72	--	6.98	-1.74	
MW-11	29-Jul-09	ND	7.98	--	6.98	-1.00	
MW-11	26-Oct-09	ND	8.15	--	6.98	-1.17	
MW-11	21-Jan-10	ND	5.33	--	6.98	1.65	
MW-11	21-Apr-10	NM	NM	NM	6.98	NM	Well destroyed
MW-11R	25-Apr-11	ND	8.44	--	6.7	-1.74	
MW-11R	22-Jul-11	ND	8.46	--	6.7	-1.76	
MW-11R	18-Oct-11	ND	7.32	--	6.7	-0.62	
MW-11R	16-Jan-12	ND	8.58	--	6.7	-1.88	
MW-11R	12-Apr-12	ND	8.76	--	6.7	-2.06	
MW-11R	11-Jul-12	ND	8.19	--	6.7	-1.49	
MW-11R	23-Oct-12	ND	8.08	--	6.7	-1.38	
MW-11R	18-Jan-13	ND	7.25	--	6.7	-0.55	
MW-11R	18-Apr-13	ND	8.4	--	6.7	-1.70	
MW-11R	15-Jul-13	ND	8.11	--	6.7	-1.41	
MW-11R	28-Oct-13	ND	8.05	--	6.7	-1.35	
MW-11R	27-Jan-14	NM	NM	NM	6.7	NM	Well inaccessible
MW-11R	7-Apr-14	ND	8.51	--	6.7	-1.81	
MW-11R	18-Jul-14	ND	8.34	--	6.7	-1.64	
MW-11R	15-Oct-14	ND	7.8	--	6.7	-1.10	
MW-11R	4-Feb-15	ND	5.3	--	6.7	1.40	
MW-11R	29-Apr-15	ND	8.3	--	6.7	-1.60	
MW-11R	14-Jul-15	ND	7.58	--	6.7	-0.88	
MW-11R	13-Oct-15	ND	3.77	--	6.7	2.93	
MW-11R	9-Nov-15	ND	8.51	--	6.7	-1.81	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-11R	4-Feb-16	ND	8.66	--	6.7	-1.96	
MW-11R	11-May-16	ND	9.11	--	6.7	-2.41	
MW-11R	23-Aug-16	ND	8.44	--	6.7	-1.74	
MW-11R	10-Nov-16	ND	7.58	--	6.7	-0.88	
MW-11R	24-Feb-17	ND	8.49	--	6.7	-1.79	
MW-11R	1-May-17	ND	8.32	--	6.7	-1.62	
MW-11R	14-Aug-17	ND	8.23	--	6.7	-1.53	
MW-11R	14-Nov-17	ND	7.65	--	6.7	-0.95	
MW-11R	27-Feb-18	ND	8.79	--	6.7	-2.09	
MW-11R	18-Jun-18	ND	8.72	--	6.7	-2.02	Trace product on probe
MW-12	7-Apr-09	ND	8.26	--	6.67	-1.59	
MW-12	17-Apr-09	8.40	8.41	0.01	6.67	-1.73	
MW-12	29-Jul-09	NM	NM	NM	6.67	NM	
MW-12	26-Oct-09	7.81	7.95	0.14	6.67	-1.15	
MW-12	21-Apr-10	ND	7.96	--	6.67	-1.29	
MW-12	19-Jul-10	NM	NM	NM	6.67	NM	Well destroyed
MW-12R	25-Apr-11	ND	8.49	--	6.69	-1.80	
MW-12R	22-Jul-11	8.45	8.46	0.01	6.69	-1.76	
MW-12R	18-Oct-11	7.02	7.03	0.01	6.69	-0.33	
MW-12R	16-Jan-12	8.45	8.46	0.01	6.69	-1.76	
MW-12R	12-Apr-12	8.80	8.82	0.02	6.69	-2.11	
MW-12R	11-Jul-12	8.36	8.37	0.01	6.69	-1.67	
MW-12R	23-Oct-12	9.00	9.02	0.02	6.69	-2.31	
MW-12R	18-Jan-13	ND	7.7	--	6.69	-1.01	
MW-12R	18-Apr-13	8.28	8.3	0.02	6.69	-1.59	
MW-12R	15-Jul-13	8.36	8.37	0.01	6.69	-1.67	
MW-12R	28-Oct-13	7.12	7.14	0.02	6.69	-0.43	
MW-12R	27-Jan-14	8.35	8.37	0.02	6.69	-1.66	
MW-12R	7-Apr-14	ND	11.8	--	6.69	-5.11	
MW-12R	18-Jul-14	8.36	8.4	0.04	6.69	-1.67	
MW-12R	15-Oct-14	7.60	7.62	0.02	6.69	-0.91	
MW-12R	4-Feb-15	NM	NM	NM	6.69	NM	Unable to locate
MW-12R	29-Apr-15	8.30	9.35	1.05	6.69	-1.71	
MW-12R	14-Jul-15	NM	NM	NM	6.69	NM	LNAPL too viscous
MW-12R	13-Oct-15	3.90	4.3	0.40	6.69	2.75	
MW-12R	9-Nov-15	NM	NM	NM	6.69	NM	LNAPL too viscous
MW-12R	4-Feb-16	ND	8.59	--	6.69	-1.90	
MW-12R	11-May-16	9.28	9.69	0.41	6.69	-2.63	
MW-12R	23-Aug-16	8.55	8.97	0.42	6.69	-1.90	
MW-12R	10-Nov-16	7.74	7.79	0.05	6.69	-1.05	
MW-12R	24-Feb-17	ND	8.44	--	6.69	-1.75	
MW-12R	1-May-17	ND	8.44	--	6.69	-1.75	
MW-12R	14-Aug-17	ND	8.54	--	6.69	-1.85	
MW-12R	14-Nov-17	ND	7.68	--	6.69	-0.99	
MW-12R	27-Feb-18	8.88	8.89	0.01	6.69	-2.19	
MW-12R	18-Jun-18	ND	8.59	--	6.69	-1.90	Trace product
MW-13	7-Apr-09	NM	NM	NM	7.82	NM	
MW-13	17-Apr-09	ND	3.64	--	7.82	4.18	
MW-13	29-Jul-09	ND	3.51	--	7.82	4.31	
MW-13	26-Oct-09	ND	3.59	--	7.82	4.23	
MW-13	21-Apr-10	ND	3.7	--	7.82	4.12	
MW-13	19-Jul-10	NM	NM	NM	7.82	NM	Well inaccessible
MW-13	15-Oct-10	ND	3.89	--	7.82	3.93	
MW-13	11-Jan-11	ND	4.16	--	7.82	3.66	
MW-13	25-Apr-11	ND	4.31	--	7.82	3.51	
MW-13	22-Jul-11	ND	4.4	--	7.82	3.42	
MW-13	18-Oct-11	ND	3.55	--	7.82	4.27	
MW-13	16-Jan-12	ND	3.95	--	7.82	3.87	
MW-13	12-Apr-12	ND	4.18	--	7.82	3.64	
MW-13	11-Jul-12	ND	3.92	--	7.82	3.90	
MW-13	23-Oct-12	ND	3.7	--	7.82	4.12	
MW-13	18-Jan-13	ND	3.4	--	7.82	4.42	
MW-13	18-Apr-13	ND	3.48	--	7.82	4.34	
MW-13	15-Jul-13	ND	3.24	--	7.82	4.58	
MW-13	28-Oct-13	ND	3.54	--	7.82	4.28	
MW-13	27-Jan-14	NM	NM	NM	7.82	NM	Well inaccessible
MW-13	7-Apr-14	ND	2.78	--	7.82	5.04	

Table 4
Monitoring Well Gauging Data
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MW-13	18-Jul-14	ND	2.61	--	7.82	5.21	
MW-13	15-Oct-14	ND	2.88	--	7.82	4.94	
MW-13	4-Feb-15	ND	3.48	--	7.82	4.34	
MW-13	29-Apr-15	ND	3.29	--	7.82	4.53	
MW-13	14-Jul-15	ND	3.25	--	7.82	4.57	
MW-13	13-Oct-15	ND	3.26	--	7.82	4.56	
MW-13	9-Nov-15	ND	3.6	--	7.82	4.22	
MW-13	4-Feb-16	NM	NM	NM	7.82	NM	Covered by container
MW-13	12-May-16	ND	3.5	--	7.82	4.32	
MW-13	23-Aug-16	ND	3.59	--	7.82	4.23	
MW-13	10-Nov-16	ND	3.65	--	7.82	4.17	
MW-13	24-Feb-17	ND	3.22	--	7.82	4.60	
MW-13	1-May-17	ND	3.01	--	7.82	4.81	
MW-13	14-Aug-17	ND	2.82	--	7.82	5.00	
MW-13	14-Nov-17	ND	3.1	--	7.82	4.72	
MW-13	27-Feb-18	ND	2.55	--	7.82	5.27	
MW-13	18-Jun-18	ND	2.55	--	7.82	5.27	
MW-14	29-Jul-09	20.65	26.8	6.15	22.92	1.63	
MW-14	26-Oct-09	21.31	26.5	5.19	22.92	1.07	
MW-14	21-Apr-10	20.67	23.33	2.66	22.92	1.97	
MW-14	19-Jul-10	20.91	26.81	5.90	22.92	1.39	
MW-14	15-Oct-10	21.12	26.59	5.47	22.92	1.23	
MW-14	11-Jan-11	22.81	26.53	3.72	22.92	-0.28	
MW-14	25-Apr-11	22.01	25.1	3.09	22.92	0.59	
MW-14	22-Jul-11	21.92	24.63	2.71	22.92	0.72	
MW-14	18-Oct-11	20.65	25.45	4.80	22.92	1.77	
MW-14	16-Jan-12	18.60	25.05	6.45	21.81	2.54	
MW-14	12-Apr-12	21.40	22.18	0.78	21.81	0.33	
MW-14	11-Jul-12	21.22	22.05	0.83	21.81	0.50	
MW-14	23-Oct-12	NM	NM	NM	21.81	NM	Well inaccessible
MW-14	18-Jan-13	22.20	22.4	0.20	21.81	-0.41	
MW-14	18-Apr-13	17.30	18.1	0.80	21.81	4.43	
MW-14	15-Jul-13	21.42	22.32	0.90	21.81	0.30	
MW-14	28-Oct-13	21.70	22.6	0.90	21.81	0.02	
MW-14	27-Jan-14	21.60	24.1	2.50	21.81	-0.05	
MW-14	7-Apr-14	21.60	21.63	0.03	21.81	0.21	
MW-14	18-Jul-14	21.12	21.22	0.10	21.81	0.68	
MW-14	15-Oct-14	21.50	21.92	0.42	21.81	0.27	
MW-14	4-Feb-15	21.43	22.6	1.17	21.81	0.26	System off
MW-14	29-Apr-15	21.20	22.3	1.10	21.81	0.50	System on
MW-14	14-Jul-15	20.43	21.23	0.80	21.81	1.30	System on
MW-14	14-Jul-15	20.43	21.23	0.80	21.81	1.30	System on
MW-14	13-Oct-15	20.60	21.61	1.01	21.81	1.10	System off
MW-14	10-Nov-15	22.14	22.6	0.46	21.81	-0.38	System on
MW-14	4-Feb-16	21.66	21.81	0.15	21.81	0.13	System on
MW-14	11-May-16	21.49	22.54	1.05	21.81	0.21	System on
MW-14	23-Aug-16	21.46	22.97	1.51	21.81	0.19	System on
MW-14	10-Nov-16	21.33	24.85	3.52	21.81	0.11	System on
MW-14	24-Feb-17	21.84	25.27	3.43	21.81	-0.39	System on
MW-14	1-May-17	21.71	22.52	0.81	21.81	0.02	System on
MW-14	14-Aug-17	NM	NM	NM	21.81	NM	Covered by vehicle
MW-14	14-Nov-17	21.17	22.27	1.10	21.81	0.53	System on
MW-14	27-Feb-18	21.65	22.74	1.09	21.81	0.05	System on
MW-14	18-Jun-18	20.77	22.94	2.17	21.81	0.81	System on
MW-15	29-Jul-09	ND	10.59	--	13.05	2.46	
MW-15	26-Oct-09	ND	11.32	--	13.05	1.73	
MW-15	21-Apr-10	ND	10.79	--	13.05	2.26	
MW-15	19-Jul-10	ND	11.02	--	13.05	2.03	
MW-15	15-Oct-10	ND	10.89	--	13.05	2.16	
MW-15	11-Jan-11	ND	12.48	--	13.05	0.57	
MW-15	25-Apr-11	ND	11.5	--	13.05	1.55	
MW-15	22-Jul-11	ND	11.62	--	13.05	1.43	
MW-15	18-Oct-11	ND	11.16	--	13.05	1.89	
MW-15	16-Jan-12	ND	13.58	--	13.05	-0.53	
MW-15	12-Apr-12	ND	12.49	--	13.05	0.56	
MW-15	18-Apr-13	ND	12.56	--	13.05	0.49	
MW-15	15-Jul-13	ND	11.9	--	13.05	1.15	
MW-15	28-Oct-13	ND	12.88	--	13.05	0.17	

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MW-15	27-Jan-14	NM	NM	NM	13.05	NM	Well inaccessible
MW-15	7-Apr-14	ND	11.97	--	13.05	1.08	
MW-15	18-Jul-14	NM	NM	NM	13.05	NM	Well inaccessible
MW-15	15-Oct-14	ND	12.52	--	13.05	0.53	
MW-15	4-Feb-15	ND	11.61	--	13.05	1.44	
MW-15	29-Apr-15	ND	11.83	--	13.05	1.22	
MW-15	14-Jul-15	ND	10.95	--	12.92	1.97	
MW-15	13-Oct-15	ND	11.2	--	12.92	1.72	
MW-15	9-Nov-15	ND	13	--	12.92	-0.08	
MW-15	4-Feb-16	ND	11.89	--	12.92	1.03	
MW-15	11-May-16	ND	13.07	--	12.92	-0.15	
MW-15	23-Aug-16	NM	NM	NM	12.92	NM	Under vehicle
MW-15	10-Nov-16	ND	12.17	--	12.92	0.75	
MW-15	24-Feb-17	ND	12.47	--	12.92	0.45	
MW-15	1-May-17	ND	11.55	--	12.92	1.37	
MW-15	14-Aug-17	NM	NM	NM	12.92	NM	
MW-15	14-Nov-17	NM	NM	NM	12.92	NM	Covered by vehicle
MW-15	27-Feb-18	ND	11.4	--	12.92	1.52	
MW-15	18-Jun-18	ND	11.18	--	12.92	1.74	
MW-15R	11-Jul-12	ND	11.73	--	13.3	1.57	
MW-15R	23-Oct-12	ND	12	--	13.3	1.30	
MW-15R	18-Jan-13	ND	12.58	--	13.3	0.72	
MW-15R	18-Apr-13	ND	12.75	--	13.3	0.55	
MW-15R	15-Jul-13	NM	NM	NM	13.3	NM	Well inaccessible
MW-15R	28-Oct-13	ND	13.1	--	13.3	0.20	
MW-15R	27-Jan-14	NM	NM	NM	13.3	NM	Well inaccessible
MW-15R	7-Apr-14	ND	12.11	--	13.3	1.19	
MW-15R	18-Jul-14	NM	NM	NM	13.3	NM	Well inaccessible
MW-15R	15-Oct-14	NM	NM	NM	13.3	NM	Unable to locate
MW-15R	4-Feb-15	NM	NM	NM	13.3	NM	Unable to locate
MW-15R	29-Apr-15	ND	12.11	--	13.3	1.19	
MW-15R	14-Jul-15	10.91	10.92	0.01	13.3	2.39	
MW-15R	13-Oct-15	11.50	11.51	0.01	13.3	1.80	
MW-15R	9-Nov-15	ND	12.45	--	13.3	0.85	
MW-15R	4-Feb-16	ND	12.13	--	13.3	1.17	
MW-15R	11-May-16	ND	12.36	--	13.3	0.94	
MW-15R	23-Aug-16	NM	NM	NM	13.3	NM	
MW-15R	23-Aug-16	NM	NM	NM	13.3	NM	Under vehicle
MW-15R	11-Nov-16	ND	11.83	--	13.3	1.47	
MW-15R	24-Feb-17	ND	12.64	--	13.3	0.66	
MW-15R	1-May-17	ND	11.9	--	13.3	1.40	
MW-15R	14-Aug-17	NM	NM	NM	13.3	NM	
MW-15R	14-Nov-17	12.07	12.15	0.08	13.3	1.22	
MW-15R	27-Feb-18	ND	11.49	--	13.3	1.81	
MW-15R	18-Jun-18	ND	11.5	--	13.3	1.80	
MW-16	29-Jul-09	20.91	21	0.09	24.12	3.20	
MW-16	26-Oct-09	21.25	21.27	0.02	24.12	2.87	
MW-16	21-Apr-10	20.06	20.07	0.01	24.12	4.06	
MW-16	19-Jul-10	ND	20.7	--	24.12	3.42	
MW-16	15-Oct-10	ND	20.98	--	24.12	3.14	
MW-16	11-Jan-11	21.95	22.42	0.47	24.12	2.13	
MW-16	25-Apr-11	21.46	22.65	1.19	24.12	2.55	
MW-16	22-Jul-11	21.25	21.49	0.24	24.12	2.85	
MW-16	18-Oct-11	20.15	20.14	-0.01	24.12	3.97	
MW-16	16-Jan-12	21.05	21.07	0.02	24.12	3.07	
MW-16	12-Apr-12	21.36	21.37	0.01	24.12	2.76	
MW-16	11-Jul-12	21.22	21.8	0.58	24.12	2.84	
MW-16	23-Oct-12	21.50	22.51	1.01	24.12	2.52	
MW-16	18-Jan-13	22.03	23.1	1.07	24.12	1.99	
MW-16	18-Apr-13	21.90	23.1	1.20	24.12	2.11	
MW-16	15-Jul-13	21.52	22.65	1.13	24.12	2.49	
MW-16	28-Oct-13	21.90	22.76	0.86	24.12	2.14	
MW-16	27-Jan-14	22.40	23.65	1.25	24.12	1.60	
MW-16	7-Apr-14	22.07	23.35	1.28	24.12	1.93	
MW-16	18-Jul-14	21.23	21.35	0.12	24.12	2.88	
MW-16	15-Oct-14	21.58	22.18	0.60	24.12	2.48	
MW-16	4-Feb-15	21.83	23.08	1.25	24.12	2.17	
MW-16	29-Apr-15	21.32	22.76	1.44	24.12	2.66	

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MW-16	14-Jul-15	21.09	22.35	1.26	24.12	2.91	
MW-16	13-Oct-15	21.31	22.8	1.49	24.12	2.67	
MW-16	9-Nov-15	21.62	22.95	1.33	24.12	2.37	
MW-16	4-Feb-16	22.21	22.65	0.44	24.12	1.87	
MW-16	11-May-16	22.18	22.55	0.37	24.12	1.90	
MW-16	23-Aug-16	22.30	22.46	0.16	24.12	1.80	
MW-16	10-Nov-16	22.27	22.57	0.30	24.12	1.82	
MW-16	24-Feb-17	22.56	23.21	0.65	24.12	1.50	
MW-16	1-May-17	22.08	22.27	0.19	24.12	2.02	
MW-16	14-Aug-17	21.40	22.95	1.55	24.12	2.57	
MW-16	14-Nov-17	21.85	22.4	0.55	24.12	2.22	
MW-16	27-Feb-18	22.29	22.65	0.36	24.12	1.80	
MW-16	18-Jun-18	21.25	22.12	0.87	24.12	2.79	
MW-17	29-Jul-09	14.76	22.2	7.44	16.81	1.27	
MW-17	26-Oct-09	15.44	23	7.56	16.81	0.58	
MW-17	21-Apr-10	15.53	17.22	1.69	16.81	1.10	
MW-17	19-Jul-10	15.03	20.91	5.88	16.81	1.16	
MW-17	15-Oct-10	15.24	19.39	4.15	16.81	1.13	
MW-17	11-Jan-11	16.85	20.97	4.12	16.81	-0.47	
MW-17	25-Apr-11	16.94	17.83	0.89	16.81	-0.22	
MW-17	22-Jul-11	16.19	18.81	2.62	16.81	0.34	
MW-17	18-Oct-11	15.29	22.1	6.81	16.81	0.80	
MW-17	16-Jan-12	16.00	20.37	4.37	16.81	0.35	
MW-17	12-Apr-12	16.35	22.5	6.15	16.81	-0.19	
MW-17	11-Jul-12	15.21	22.5	7.29	16.81	0.83	
MW-17	23-Oct-12	16.20	23.4	7.20	16.81	-0.15	
MW-17	18-Jan-13	16.85	21.5	4.65	16.81	-0.53	
MW-17	18-Apr-13	16.94	21	4.06	16.81	-0.56	
MW-17	15-Jul-13	16.55	21.2	4.65	16.81	-0.23	
MW-17	28-Oct-13	16.70	21.8	5.10	16.81	-0.43	
MW-17	27-Jan-14	16.86	21.4	4.54	16.81	-0.53	
MW-17	7-Apr-14	16.90	17.8	0.90	16.81	-0.18	
MW-17	18-Jul-14	16.24	18.4	2.16	16.81	0.34	
MW-17	15-Oct-14	16.30	21.06	4.76	16.81	0.01	
MW-17	4-Feb-15	NM	NM	NM	16.81	NM	Under septic tanks
MW-17	29-Apr-15	NM	NM	NM	16.81	NM	Under septic tanks
MW-17	14-Jul-15	NM	NM	NM	16.81	NM	Under septic tanks
MW-17	13-Oct-15	NM	NM	NM	16.81	NM	Under septic tanks
MW-17	9-Nov-15	NM	NM	NM	16.81	NM	Under septic tanks
MW-17	4-Feb-16	NM	NM	NM	16.81	NM	Under septic tanks
MW-17	11-May-16	16.52	21.04	4.52	16.81	-0.19	
MW-17	23-Aug-16	15.81	20.58	4.77	16.81	0.50	
MW-17	10-Nov-16	16.53	21.06	4.53	16.81	-0.20	
MW-17	24-Feb-17	17.21	19.3	2.09	16.81	-0.62	
MW-17	1-May-17	16.75	19.39	2.64	16.81	-0.22	
MW-17	14-Aug-17	16.01	21.01	5.00	16.81	0.27	
MW-17	14-Nov-17	16.24	21.04	4.80	16.81	0.07	Flooded
MW-17	27-Feb-18	16.79	18.9	2.11	16.81	-0.20	
MW-17	18-Jun-18	15.96	21.05	5.09	16.81	0.32	
MW-18	24-Sep-09	ND	20.92	--	23.55	2.63	
MW-18	26-Oct-09	ND	21.32	--	23.55	2.23	
MW-18	21-Apr-10	ND	19.97	--	23.55	3.58	
MW-18	19-Jul-10	20.62	20.67	0.05	23.55	2.93	
MW-18	15-Oct-10	20.50	20.51	0.01	23.55	3.05	
MW-18	11-Jan-11	NM	NM	NM	23.55	NM	Well inaccessible
MW-18	25-Apr-11	21.22	22	0.78	23.55	2.26	
MW-18	22-Jul-11	20.95	21	0.05	23.55	2.60	
MW-18	18-Oct-11	20.19	20.49	0.30	23.55	3.33	
MW-18	16-Jan-12	15.00	NM	NM	23.55	NM	LNAPL too viscous
MW-18	12-Apr-12	21.20	22.11	0.91	23.55	2.26	
MW-18	11-Jul-12	21.00	22.71	1.71	23.55	2.39	
MW-18	23-Oct-12	21.35	22.97	1.62	23.55	2.05	
MW-18	18-Jan-13	NM	NM	NM	23.55	NM	Well inaccessible
MW-18	18-Apr-13	NM	NM	NM	23.55	NM	Under vehicle
MW-18	15-Jul-13	20.97	24.3	3.33	23.55	2.26	
MW-18	28-Oct-13	21.44	24.6	3.16	23.55	1.81	
MW-18	27-Jan-14	21.69	24.2	2.51	23.55	1.62	
MW-18	7-Apr-14	21.65	24.6	2.95	23.55	1.62	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-18	18-Jul-14	ND	21.8	--	23.55	1.75	
MW-18	15-Oct-14	20.78	24.2	3.42	23.55	2.45	
MW-18	4-Feb-15	21.38	25.25	3.87	23.55	1.80	
MW-18	29-Apr-15	20.74	25.33	4.59	23.55	2.37	
MW-18	14-Jul-15	20.28	24.77	4.49	23.55	2.84	
MW-18	13-Oct-15	20.32	24.75	4.43	23.55	2.81	
MW-18	9-Nov-15	21.60	23.77	2.17	23.55	1.74	
MW-18	4-Feb-16	21.52	22.17	0.65	23.55	1.97	
MW-18	11-May-16	21.75	23.09	1.34	23.55	1.67	
MW-18	23-Aug-16	22.00	22.91	0.91	23.55	1.46	
MW-18	10-Nov-16	21.79	22.14	0.35	23.55	1.73	
MW-18	24-Feb-17	22.02	23.34	1.32	23.55	1.40	
MW-18	1-May-17	21.39	23.36	1.97	23.55	1.97	
MW-18	14-Aug-17	21.21	22.46	1.25	23.55	2.22	
MW-18	14-Nov-17	21.45	21.99	0.54	23.55	2.05	
MW-18	27-Feb-18	22.34	23.05	0.71	23.55	1.14	
MW-18	18-Jun-18	NM	NM	NM	23.55	NM	Could not locate
MW-19	24-Sep-09	21.95	22.55	0.60	24.85	2.84	
MW-19	26-Oct-09	22.00	23.05	1.05	24.85	2.74	
MW-19	21-Apr-10	20.86	21.55	0.69	24.85	3.92	
MW-19	19-Jul-10	21.42	22.01	0.59	24.85	3.37	
MW-19	15-Oct-10	21.70	22.58	0.88	24.85	3.06	
MW-19	11-Jan-11	22.86	24.35	1.49	24.85	1.84	
MW-19	25-Apr-11	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	22-Jul-11	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	18-Oct-11	20.95	21.6	0.65	24.85	3.83	
MW-19	16-Jan-12	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	12-Apr-12	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	11-Jul-12	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	23-Oct-12	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	18-Jan-13	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	18-Apr-13	NM	NM	NM	24.85	NM	Under vehicle
MW-19	18-Apr-13	NM	NM	NM	24.85	NM	Under vehicle
MW-19	15-Jul-13	NM	NM	NM	24.85	NM	Under vehicle
MW-19	28-Oct-13	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	27-Jan-14	23.07	24.66	1.59	24.85	1.62	
MW-19	7-Apr-14	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	18-Jul-14	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	15-Oct-14	22.18	23.53	1.35	24.85	2.53	
MW-19	4-Feb-15	22.62	23.88	1.26	24.85	2.10	
MW-19	29-Apr-15	NM	NM	NM	24.85	NM	Under vehicle
MW-19	14-Jul-15	NM	NM	NM	24.85	NM	Under vehicle
MW-19	13-Oct-15	NM	NM	NM	24.85	NM	Under vehicle
MW-19	9-Nov-15	NM	NM	NM	24.85	NM	Under vehicle
MW-19	4-Feb-16	NM	NM	NM	24.85	NM	Under vehicle
MW-19	11-May-16	22.84	23.98	1.14	24.85	1.89	
MW-19	23-Aug-16	NM	NM	NM	24.85	NM	Under vehicle
MW-19	10-Nov-16	NM	NM	NM	24.85	NM	Under vehicle
MW-19	24-Feb-17	NM	NM	NM	24.85	NM	Under vehicle
MW-19	1-May-17	22.65	23.6	0.95	24.85	2.10	
MW-19	14-Aug-17	22.29	23.38	1.09	24.85	2.45	
MW-19	14-Nov-17	22.40	23.47	1.07	24.85	2.34	
MW-19	27-Feb-18	22.83	23.75	0.92	24.85	1.93	
MW-19	18-Jun-18	22.10	22.53	0.43	24.85	2.71	
MW-20	29-Jul-09	ND	21.03	--	28.63	7.60	
MW-20	26-Oct-09	ND	21.61	--	28.63	7.02	
MW-20	21-Apr-10	ND	18.07	--	28.63	10.56	
MW-20	19-Jul-10	ND	16.53	--	28.63	12.10	
MW-20	15-Oct-10	ND	22.01	--	28.63	6.62	
MW-20	11-Jan-11	ND	23.15	--	28.63	5.48	
MW-20	25-Apr-11	ND	23.55	--	28.63	5.08	
MW-20	22-Jul-11	ND	23	--	28.63	5.63	
MW-20	18-Oct-11	ND	20.89	--	28.63	7.74	
MW-20	16-Jan-12	ND	22.41	--	28.63	6.22	
MW-20	12-Apr-12	ND	23.3	--	28.63	5.33	
MW-20	11-Jul-12	ND	24.02	--	28.63	4.61	
MW-20	23-Oct-12	ND	24.56	--	28.63	4.07	
MW-20	18-Jan-13	ND	25.25	--	28.63	3.38	

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Monitoring Well Gauging Data
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MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-20	18-Apr-13	ND	24.52	--	28.63	4.11	
MW-20	15-Jul-13	ND	23.65	--	28.63	4.98	
MW-20	28-Oct-13	ND	24.3	--	28.63	4.33	
MW-20	27-Jan-14	ND	25.43	--	28.63	3.20	
MW-20	7-Apr-14	ND	25.3	--	28.63	3.33	
MW-20	18-Jul-14	ND	23	--	28.63	5.63	
MW-20	15-Oct-14	ND	23.92	--	28.63	4.71	
MW-20	4-Feb-15	ND	23.2	--	28.63	5.43	
MW-20	29-Apr-15	ND	23.2	--	28.63	5.43	
MW-20	14-Jul-15	ND	23.28	--	28.63	5.35	
MW-20	13-Oct-15	ND	24.2	--	28.63	4.43	
MW-20	9-Nov-15	ND	24.75	--	28.63	3.88	
MW-20	4-Feb-16	ND	25.34	--	28.63	3.29	
MW-20	11-May-16	ND	25.15	--	28.63	3.48	
MW-20	23-Aug-16	ND	25.27	--	28.63	3.36	
MW-20	10-Nov-16	ND	25.72	--	28.63	2.91	
MW-20	24-Feb-17	ND	26.05	--	28.63	2.58	
MW-20	1-May-17	ND	25.03	--	28.63	3.60	
MW-20	14-Aug-17	ND	23.74	--	28.63	4.89	
MW-20	14-Nov-17	ND	24.63	--	28.63	4.00	
MW-20	27-Feb-18	ND	25.39	--	28.63	3.24	
MW-20	18-Jun-18	ND	20.53	--	28.63	8.10	
MW-21	29-Jul-09	ND	14.37	--	16.63	2.26	
MW-21	26-Oct-09	ND	14.1	--	16.63	2.53	
MW-21	21-Apr-10	ND	13.79	--	16.63	2.84	
MW-21	19-Jul-10	ND	14.19	--	16.63	2.44	
MW-21	15-Oct-10	ND	14.33	--	16.63	2.30	
MW-21	11-Jan-11	ND	15.04	--	16.63	1.59	
MW-21	25-Apr-11	ND	14.84	--	16.63	1.79	
MW-21	22-Jul-11	ND	18.61	--	16.63	-1.98	
MW-21	18-Oct-11	ND	13.6	--	16.63	3.03	
MW-21	16-Jan-12	ND	14.58	--	16.63	2.05	
MW-21	12-Apr-12	ND	14.62	--	16.63	2.01	
MW-21	11-Jul-12	ND	14.65	--	16.63	1.98	
MW-21	23-Oct-12	ND	14.85	--	16.63	1.78	
MW-21	18-Jan-13	ND	15.07	--	16.63	1.56	
MW-21	18-Apr-13	ND	15.14	--	16.63	1.49	
MW-21	15-Jul-13	ND	14.67	--	16.63	1.96	
MW-21	28-Oct-13	ND	15.12	--	16.63	1.51	
MW-21	27-Jan-14	ND	15.52	--	16.63	1.11	
MW-21	7-Apr-14	ND	15.37	--	16.63	1.26	
MW-21	18-Jul-14	ND	14.6	--	16.63	2.03	
MW-21	15-Oct-14	ND	14.78	--	16.63	1.85	
MW-21	4-Feb-15	ND	14.91	--	16.63	1.72	
MW-21	29-Apr-15	ND	14.33	--	16.63	2.30	
MW-21	14-Jul-15	ND	14.11	--	16.63	2.52	
MW-21	13-Oct-15	ND	14.35	--	16.63	2.28	
MW-21	9-Nov-15	ND	14.73	--	16.63	1.90	
MW-21	4-Feb-16	ND	14.88	--	16.63	1.75	
MW-21	11-May-16	ND	15.11	--	16.63	1.52	
MW-21	23-Aug-16	ND	15.11	--	16.63	1.52	
MW-21	10-Nov-16	ND	14.74	--	16.63	1.89	
MW-21	24-Feb-17	ND	15.11	--	16.63	1.52	
MW-21	1-May-17	ND	14.97	--	16.63	1.66	
MW-21	14-Aug-17	ND	14.73	--	16.63	1.90	
MW-21	14-Nov-17	ND	14.5	--	16.63	2.13	
MW-21	27-Feb-18	ND	14.78	--	16.63	1.85	
MW-21	18-Jun-18	ND	14.5	--	16.63	2.13	
MW-22	29-Jul-09	25.79	27.2	1.41	29.36	3.42	
MW-22	26-Oct-09	26.15	28.4	2.25	29.36	2.97	
MW-22	21-Apr-10	NM	NM	NM	29.36	NM	Well inaccessible
MW-22	19-Jul-10	25.47	26.97	1.50	29.36	3.73	
MW-22	15-Oct-10	25.87	27.41	1.54	29.36	3.33	
MW-22	11-Jan-11	26.93	29.7	2.77	29.36	2.14	
MW-22	25-Apr-11	26.49	28.04	1.55	29.36	2.71	
MW-22	22-Jul-11	26.12	27.52	1.40	29.36	3.09	
MW-22	18-Oct-11	24.89	25.91	1.02	29.36	4.36	
MW-22	16-Jan-12	25.91	27.53	1.62	29.36	3.28	

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MW-22	12-Apr-12	26.20	28.05	1.85	29.36	2.97	
MW-22	11-Jul-12	26.35	28.95	2.60	29.36	2.74	
MW-22	23-Oct-12	26.51	28.93	2.42	29.36	2.59	
MW-22	18-Jan-13	27.40	29.5	2.10	29.36	1.74	
MW-22	18-Apr-13	27.00	28.8	1.80	29.36	2.17	
MW-22	15-Jul-13	26.50	28	1.50	29.36	2.70	
MW-22	28-Oct-13	26.71	29.05	2.34	29.36	2.40	
MW-22	27-Jan-14	22.25	30.04	7.79	29.36	6.29	
MW-22	7-Apr-14	27.12	29.02	1.90	29.36	2.04	
MW-22	18-Jul-14	26.12	27.6	1.48	29.36	3.08	
MW-22	15-Oct-14	26.52	28.4	1.88	29.36	2.64	
MW-22	4-Feb-15	26.80	29.13	2.33	29.36	2.31	
MW-22	29-Apr-15	26.54	27.1	0.56	29.36	2.76	
MW-22	14-Jul-15	26.19	28.26	2.07	29.36	2.95	
MW-22	13-Oct-15	26.57	27.32	0.75	29.36	2.71	
MW-22	9-Nov-15	26.95	28.48	1.53	29.36	2.25	
MW-22	4-Feb-16	27.37	28.25	0.88	29.36	1.90	
MW-22	11-May-16	ND	28.35	--	29.36	1.01	
MW-22	23-Aug-16	27.31	28.46	1.15	29.36	1.93	
MW-22	10-Nov-16	27.45	28.15	0.70	29.36	1.84	
MW-22	24-Feb-17	27.63	29.5	1.87	29.36	1.53	
MW-22	1-May-17	27.36	27.78	0.42	29.36	1.96	
MW-22	14-Aug-17	27.11	27.66	0.55	29.36	2.19	
MW-22	14-Nov-17	27.24	27.74	0.50	29.36	2.07	
MW-22	27-Feb-18	27.62	28.4	0.78	29.36	1.66	
MW-22	18-Jun-18	26.32	27.55	1.23	29.36	2.91	
MW-23	29-Jul-09	17.09	23.85	6.76	19.05	1.25	
MW-23	26-Oct-09	17.76	23.82	6.06	19.05	0.65	
MW-23	21-Apr-10	17.57	22.36	4.79	19.05	0.98	
MW-23	19-Jul-10	17.40	23.81	6.41	19.05	0.98	
MW-23	15-Oct-10	17.58	23.13	5.55	19.05	0.89	
MW-23	11-Jan-11	19.26	23.93	4.67	19.05	-0.70	
MW-23	25-Apr-11	18.86	23.7	4.84	19.05	-0.32	
MW-23	22-Jul-11	18.36	23.54	5.18	19.05	0.15	
MW-23	18-Oct-11	17.59	23.56	5.97	19.05	0.83	
MW-23	16-Jan-12	19.03	22.13	3.10	19.05	-0.31	
MW-23	12-Apr-12	18.82	23.4	4.58	19.05	-0.25	
MW-23	11-Jul-12	17.76	22.1	4.34	19.05	0.83	
MW-23	23-Oct-12	17.75	22.05	4.30	19.05	0.85	
MW-23	18-Jan-13	19.20	23.4	4.20	19.05	-0.59	
MW-23	18-Apr-13	19.34	23.5	4.16	19.05	-0.73	
MW-23	15-Jul-13	18.91	23.4	4.49	19.05	-0.33	
MW-23	28-Oct-13	19.16	23.44	4.28	19.05	-0.56	
MW-23	27-Jan-14	19.28	23.5	4.22	19.05	-0.67	
MW-23	7-Apr-14	18.40	23.36	4.96	19.05	0.13	
MW-23	18-Jul-14	18.35	23.4	5.05	19.05	0.17	
MW-23	15-Oct-14	18.72	23.4	4.68	19.05	-0.16	
MW-23	4-Feb-15	18.78	23.37	4.59	19.05	-0.21	
MW-23	29-Apr-15	18.65	23.35	4.70	19.05	-0.09	
MW-23	14-Jul-15	17.73	23.02	5.29	19.05	0.77	
MW-23	13-Oct-15	18.06	23.4	5.34	19.05	0.43	
MW-23	9-Nov-15	18.69	23.41	4.72	19.05	-0.14	
MW-23	4-Feb-16	18.94	23.03	4.09	19.05	-0.32	
MW-23	11-May-16	19.95	23.27	3.32	19.05	-1.25	
MW-23	23-Aug-16	19.05	23.43	4.38	19.05	-0.46	
MW-23	10-Nov-16	18.92	23.48	4.56	19.05	-0.35	
MW-23	24-Feb-17	19.42	23.55	4.13	19.05	-0.80	
MW-23	1-May-17	19.00	23.1	4.10	19.05	-0.38	
MW-23	14-Aug-17	18.45	23.39	4.94	19.05	0.08	
MW-23	14-Nov-17	18.61	23.42	4.81	19.05	-0.06	
MW-23	27-Feb-18	18.90	23.4	4.50	19.05	-0.32	
MW-23	18-Jun-18	18.32	23.44	5.12	19.05	0.19	
MW-24	29-Jul-09	15.20	24.1	8.90	17.56	1.43	
MW-24	26-Oct-09	15.79	24.25	8.46	17.56	0.88	
MW-24	21-Apr-10	15.10	22.6	7.50	17.56	1.67	
MW-24	19-Jul-10	15.12	24.03	8.91	17.56	1.51	
MW-24	15-Oct-10	15.55	24.46	8.91	17.56	1.08	
MW-24	11-Jan-11	17.31	24.79	7.48	17.56	-0.53	

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Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-24	25-Apr-11	16.66	24.1	7.44	17.56	0.12	
MW-24	22-Jul-11	16.11	23.85	7.74	17.56	0.64	
MW-24	18-Oct-11	15.10	23.31	8.21	17.56	1.60	
MW-24	16-Jan-12	14.70	22.68	7.98	15.94	0.40	
MW-24	12-Apr-12	15.00	22.31	7.31	15.94	0.17	
MW-24	11-Jul-12	14.92	21.5	6.58	15.94	0.33	
MW-24	23-Oct-12	15.00	22.6	7.60	15.94	0.14	
MW-24	18-Jan-13	14.53	23	8.47	15.94	0.52	
MW-24	18-Apr-13	16.10	17.97	1.87	15.94	-0.36	
MW-24	15-Jul-13	15.35	19.7	4.35	15.94	0.13	
MW-24	28-Oct-13	15.60	22.45	6.85	15.94	-0.38	
MW-24	27-Jan-14	15.65	23	7.35	15.94	-0.48	
MW-24	7-Apr-14	15.45	22.07	6.62	15.94	-0.20	
MW-24	18-Jul-14	14.60	22	7.40	15.94	0.56	
MW-24	15-Oct-14	15.60	19	3.40	15.94	-0.02	
MW-24	4-Feb-15	15.25	22.5	7.25	15.94	-0.07	System off
MW-24	29-Apr-15	15.68	16.74	1.06	15.94	0.15	System on
MW-24	14-Jul-15	14.25	21.61	7.36	15.94	0.92	System off
MW-24	13-Oct-15	14.63	21.92	7.29	15.94	0.55	System off
MW-24	10-Nov-15	14.99	22.48	7.49	15.94	0.16	System off
MW-24	4-Feb-16	15.65	19.73	4.08	15.94	-0.14	System on
MW-24	11-May-16	15.59	20.94	5.35	15.94	-0.21	System on
MW-24	23-Aug-16	16.08	16.89	0.81	15.94	-0.22	System on
MW-24	10-Nov-16	15.32	20.4	5.08	15.94	0.09	System on
MW-24	24-Feb-17	16.05	20.4	4.35	15.94	-0.57	System on
MW-24	1-May-17	15.66	18.78	3.12	15.94	-0.05	System on
MW-24	14-Aug-17	15.01	17.63	2.62	15.94	0.66	System on
MW-24	14-Nov-17	15.38	17.21	1.83	15.94	0.37	System on
MW-24	27-Feb-18	15.46	15.64	0.18	15.94	0.46	System on
MW-24	18-Jun-18	14.69	15.03	0.34	15.94	1.21	System on
MW-25	22-Jul-11	ND	6.88	--	5.85	-1.03	
MW-25	18-Oct-11	ND	5.7	--	5.85	0.15	
MW-25	16-Jan-12	ND	6.3	--	5.85	-0.45	
MW-25	12-Apr-12	ND	6.72	--	5.85	-0.87	
MW-25	11-Jul-12	ND	6.65	--	5.85	-0.80	
MW-25	23-Oct-12	ND	6.61	--	5.85	-0.76	
MW-25	18-Jan-13	ND	6.16	--	5.85	-0.31	
MW-25	18-Apr-13	ND	6.74	--	5.85	-0.89	
MW-25	15-Jul-13	ND	6.52	--	5.85	-0.67	
MW-25	28-Oct-13	ND	6.19	--	5.85	-0.34	
MW-25	27-Jan-14	ND	6.75	--	5.85	-0.90	
MW-25	7-Apr-14	ND	6.78	--	5.85	-0.93	
MW-25	18-Jul-14	ND	6.32	--	5.85	-0.47	
MW-25	15-Oct-14	ND	5.42	--	5.85	0.43	
MW-25	4-Feb-15	ND	5.35	--	5.85	0.50	
MW-25	29-Apr-15	ND	5.45	--	5.85	0.40	
MW-25	14-Jul-15	ND	3.55	--	5.55	2.00	
MW-25	13-Oct-15	ND	3.55	--	5.55	2.00	
MW-25	9-Nov-15	ND	6.25	--	5.55	-0.70	
MW-25	4-Feb-16	ND	5.63	--	5.55	-0.08	
MW-25	11-May-16	NM	NM	NM	5.55	NM	Well abandoned
MW-26	22-Jul-11	ND	8.27	--	6.34	-1.93	
MW-26	18-Oct-11	ND	7.2	--	6.34	-0.86	
MW-26	16-Jan-12	ND	6.54	--	6.34	-0.20	
MW-26	12-Apr-12	ND	8.21	--	6.34	-1.87	
MW-26	11-Jul-12	ND	7.71	--	6.34	-1.37	
MW-26	23-Oct-12	ND	7.7	--	6.34	-1.36	
MW-26	18-Jan-13	ND	7.42	--	6.34	-1.08	
MW-26	18-Apr-13	ND	8	--	6.34	-1.66	
MW-26	15-Jul-13	ND	8.01	--	6.34	-1.67	
MW-26	28-Oct-13	ND	7.13	--	6.34	-0.79	
MW-26	27-Jan-14	ND	7.58	--	6.34	-1.24	
MW-26	7-Apr-14	ND	7.94	--	6.34	-1.60	
MW-26	18-Jul-14	ND	7.92	--	6.34	-1.58	
MW-26	15-Oct-14	ND	6.64	--	6.34	-0.30	
MW-26	4-Feb-15	ND	6.04	--	6.34	0.30	
MW-26	29-Apr-15	ND	5.81	--	6.34	0.53	
MW-26	14-Jul-15	ND	5.1	--	6.34	1.24	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-26	13-Oct-15	ND	4.4	--	6.34	1.94	
MW-26	9-Nov-15	ND	5.93	--	6.34	0.41	
MW-26	4-Feb-16	ND	4.45	--	6.34	1.89	
MW-26	11-May-16	NM	NM	NM	6.34	NM	Well abandoned
MW-27	22-Jul-11	ND	8.11	--	6.17	-1.94	
MW-27	18-Oct-11	ND	6.94	--	6.17	-0.77	
MW-27	16-Jan-12	ND	7.78	--	6.17	-1.61	
MW-27	12-Apr-12	8.40	8.42	0.02	6.17	-2.23	
MW-27	11-Jul-12	8.10	8.12	0.02	6.17	-1.93	
MW-27	23-Oct-12	ND	8.12	--	6.17	-1.95	
MW-27	18-Jan-13	7.97	7.98	0.01	6.17	-1.80	
MW-27	18-Apr-13	8.02	8.15	0.13	6.17	-1.86	
MW-27	15-Jul-13	7.80	7.81	0.01	6.17	-1.63	
MW-27	28-Oct-13	7.20	7.23	0.03	6.17	-1.03	
MW-27	27-Jan-14	8.05	8.35	0.30	6.17	-1.91	
MW-27	7-Apr-14	8.10	8.58	0.48	6.17	-1.98	
MW-27	18-Jul-14	7.76	7.78	0.02	6.17	-1.59	
MW-27	15-Oct-14	ND	6.52	--	6.17	-0.35	
MW-27	4-Feb-15	NM	NM	NM	6.17	NM	Unable to locate
MW-27	29-Apr-15	ND	7.84	--	6.17	-1.67	
MW-27	14-Jul-15	7.50	8.41	0.91	6.17	-1.42	
MW-27	13-Oct-15	ND	3.47	--	6.17	2.70	
MW-27	9-Nov-15	8.17	8.41	0.24	6.17	-2.02	
MW-27	4-Feb-16	8.16	8.33	0.17	6.17	-2.01	
MW-27	11-May-16	8.76	8.83	0.07	6.17	-2.60	
MW-27	23-Aug-16	8.27	8.41	0.14	6.17	-2.11	
MW-27	10-Nov-16	7.20	7.22	0.02	6.17	-1.03	
MW-27	24-Feb-17	8.05	8.48	0.43	6.17	-1.92	
MW-27	1-May-17	8.18	8.25	0.07	6.17	-2.02	
MW-27	14-Aug-17	8.00	8.01	0.01	6.17	-1.83	
MW-27	14-Nov-17	7.32	7.34	0.02	6.17	-1.15	
MW-27	27-Feb-18	8.54	8.55	0.01	6.17	-2.37	
MW-27	18-Jun-18	8.20	8.23	0.03	6.17	-2.03	
MW-28	22-Jul-11	6.30	6.32	0.02	8.52	2.22	
MW-28	18-Oct-11	5.97	6.07	0.10	8.52	2.54	
MW-28	16-Jan-12	7.15	7.2	0.05	8.52	1.37	
MW-28	12-Apr-12	7.26	7.28	0.02	8.52	1.26	
MW-28	11-Jul-12	6.41	8.8	2.39	8.52	1.88	
MW-28	23-Oct-12	7.02	7.19	0.17	8.52	1.48	
MW-28	18-Jan-13	6.81	6.98	0.17	8.52	1.69	
MW-28	18-Apr-13	6.98	7.1	0.12	8.52	1.53	
MW-28	15-Jul-13	6.75	6.78	0.03	8.52	1.77	
MW-28	28-Oct-13	7.30	7.49	0.19	8.52	1.20	
MW-28	27-Jan-14	7.08	8.05	0.97	8.52	1.35	
MW-28	7-Apr-14	6.58	7.25	0.67	8.52	1.88	
MW-28	18-Jul-14	6.46	6.55	0.09	8.52	2.05	
MW-28	15-Oct-14	ND	6.74	--	8.52	1.78	
MW-28	4-Feb-15	NM	NM	NM	8.52	NM	Under road plate
MW-28	29-Apr-15	NM	NM	NM	8.52	NM	Under container
MW-28	14-Jul-15	ND	6.67	--	10.92	4.25	
MW-28	13-Oct-15	7.20	7.3	0.10	10.92	3.71	
MW-28	9-Nov-15	7.95	8.04	0.09	10.92	2.96	
MW-28	4-Feb-16	ND	7.31	--	10.92	3.61	
MW-28	11-May-16	ND	7.13	--	10.92	3.79	
MW-28	23-Aug-16	ND	7.14	--	10.92	3.78	
MW-28	10-Nov-16	ND	6.98	--	10.92	3.94	
MW-28	24-Feb-17	ND	7.01	--	10.92	3.91	
MW-28	1-May-17	ND	6.64	--	10.92	4.28	
MW-28	14-Aug-17	ND	6.68	--	10.92	4.24	
MW-28	14-Nov-17	ND	7.39	--	10.92	3.53	
MW-28	27-Feb-18	ND	6.63	--	10.92	4.29	
MW-28	18-Jun-18	ND	6.93	--	10.92	3.99	
MW-28D	11-Jul-12	ND	8.11	--	8.92	0.81	
MW-28D	23-Oct-12	ND	10.23	--	8.92	-1.31	
MW-28D	18-Jan-13	ND	8.94	--	8.92	-0.02	
MW-28D	18-Apr-13	ND	8.7	--	8.92	0.22	
MW-28D	15-Jul-13	ND	8.34	--	8.92	0.58	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-28D	28-Oct-13	7.30	7.49	0.19	8.92	1.60	
MW-28D	27-Jan-14	ND	8.53	--	8.92	0.39	
MW-28D	7-Apr-14	ND	8.27	--	8.92	0.65	
MW-28D	18-Jul-14	ND	7.85	--	8.92	1.07	
MW-28D	15-Oct-14	ND	8.54	--	8.92	0.38	
MW-28D	4-Feb-15	ND	8.11	--	8.92	0.81	
MW-28D	29-Apr-15	ND	8.1	--	8.92	0.82	
MW-28D	14-Jul-15	ND	8.97	--	11.13	2.16	
MW-28D	13-Oct-15	ND	9.4	--	11.13	1.73	
MW-28D	9-Nov-15	ND	10.5	--	11.13	0.63	
MW-28D	4-Feb-16	ND	1.46	--	11.13	9.67	
MW-28D	11-May-16	ND	2.03	--	11.13	9.10	
MW-28D	23-Aug-16	ND	9.19	--	11.13	1.94	
MW-28D	10-Nov-16	ND	7.63	--	11.13	3.50	
MW-28D	24-Feb-17	ND	10.4	--	11.13	0.73	
MW-28D	1-May-17	ND	1.96	--	11.13	9.17	
MW-28D	14-Aug-17	ND	6.05	--	11.13	5.08	
MW-28D	14-Nov-17	ND	9.5	--	11.13	1.63	
MW-28D	27-Feb-18	ND	1.7	--	11.13	9.43	
MW-28D	18-Jun-18	ND	7.25	--	11.13	3.88	
MW-29	22-Jul-11	ND	5.94	--	8.95	3.01	
MW-29	18-Oct-11	ND	5.7	--	8.95	3.25	
MW-29	16-Jan-12	ND	6.52	--	8.95	2.43	
MW-29	12-Apr-12	ND	6.65	--	8.95	2.30	
MW-29	11-Jul-12	ND	6.2	--	8.95	2.75	
MW-29	23-Oct-12	ND	6.26	--	8.95	2.69	
MW-29	18-Jan-13	ND	6.51	--	8.95	2.44	
MW-29	18-Apr-13	NM	NM	NM	8.95	NM	Under vehicle
MW-29	15-Jul-13	ND	6.29	--	8.95	2.66	
MW-29	28-Oct-13	NM	NM	NM	8.95	NM	Well inaccessible
MW-29	27-Jan-14	NM	NM	NM	8.95	NM	Well inaccessible
MW-29	7-Apr-14	ND	6.27	--	8.95	2.68	
MW-29	18-Jul-14	ND	6.07	--	8.95	2.88	
MW-29	4-Feb-15	ND	5.79	--	8.95	3.16	
MW-29	29-Apr-15	ND	5.44	--	8.95	3.51	
MW-29	14-Jul-15	ND	4.71	--	8.95	4.24	
MW-29	13-Oct-15	ND	5.15	--	8.95	3.80	
MW-29	9-Nov-15	ND	5.65	--	8.95	3.30	
MW-29	4-Feb-16	ND	5.06	--	8.95	3.89	
MW-29	11-May-16	ND	5.17	--	8.95	3.78	
MW-29	23-Aug-16	ND	5.05	--	8.95	3.90	
MW-29	24-Feb-17	ND	5.11	--	8.95	3.84	
MW-29	1-May-17	ND	4.8	--	8.95	4.15	
MW-29	14-Aug-17	ND	4.83	--	8.95	4.12	
MW-29	14-Nov-17	ND	5.41	--	8.95	3.54	
MW-29	27-Feb-18	ND	4.77	--	8.95	4.18	
MW-29	18-Jun-18	ND	5.02	--	8.95	3.93	
MW-30	22-Jul-11	5.37	6.27	0.90	7.16	1.71	
MW-30	18-Oct-11	4.85	5.82	0.97	7.16	2.23	
MW-30	16-Jan-12	6.04	6.9	0.86	7.16	1.05	
MW-30	12-Apr-12	6.20	6.24	0.04	7.16	0.96	
MW-30	11-Jul-12	5.70	6.6	0.90	7.16	1.38	
MW-30	23-Oct-12	6.00	6.55	0.55	7.16	1.11	
MW-30	18-Jan-13	5.70	6.05	0.35	7.16	1.43	
MW-30	18-Apr-13	5.94	6.35	0.41	7.16	1.19	
MW-30	15-Jul-13	5.72	5.85	0.13	7.16	1.43	
MW-30	28-Oct-13	6.05	6.98	0.93	7.16	1.03	
MW-30	27-Jan-14	6.18	7.77	1.59	7.16	0.85	
MW-30	7-Apr-14	5.87	6.58	0.71	7.16	1.23	
MW-30	18-Jul-14	5.70	5.71	0.01	7.16	1.46	
MW-30	15-Oct-14	6.22	6.35	0.13	7.16	0.93	
MW-30	4-Feb-15	NM	NM	NM	7.16	NM	Under pallet
MW-30	29-Apr-15	ND	5.2	--	7.16	1.96	
MW-30	14-Jul-15	3.87	4.49	0.62	7.16	3.24	
MW-30	13-Oct-15	4.80	5.13	0.33	7.16	2.33	
MW-30	9-Nov-15	ND	5.46	--	7.16	1.70	
MW-30	4-Feb-16	ND	4.31	--	7.16	2.85	
MW-30	11-May-16	4.16	4.47	0.31	7.16	2.97	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-30	23-Aug-16	4.27	4.79	0.52	7.16	2.85	
MW-30	10-Nov-16	4.21	4.41	0.20	7.16	2.93	
MW-30	24-Feb-17	3.88	4.72	0.84	7.16	3.21	
MW-30	1-May-17	3.59	4.02	0.43	7.16	3.53	
MW-30	14-Aug-17	3.87	5	1.13	7.16	3.19	
MW-30	14-Nov-17	4.57	5.45	0.88	7.16	2.52	
MW-30	27-Feb-18	4.01	4.9	0.89	7.16	3.07	
MW-30	18-Jun-18	4.01	4.15	0.14	7.16	3.14	
MW-31	22-Jul-11	ND	1.86	--	4.42	2.56	
MW-31	18-Oct-11	ND	1.71	--	4.42	2.71	
MW-31	19-Jan-12	ND	2.29	--	4.42	2.13	Inaccessible 1/16/12
MW-31	12-Apr-12	NM	NM	NM	4.42	NM	Well inaccessible
MW-31	12-Jul-12	ND	2.07	--	4.42	2.35	
MW-31	23-Oct-12	ND	2.92	--	4.42	1.50	
MW-31	18-Jan-13	ND	1.7	--	4.42	2.72	
MW-31	18-Apr-13	4.64	5.03	0.39	4.42	-0.26	
MW-31	15-Jul-13	ND	2.03	--	4.42	2.39	
MW-31	28-Oct-13	ND	2.72	--	4.42	1.70	
MW-31	27-Jan-14	ND	2.17	--	4.42	2.25	
MW-31	7-Apr-14	NM	NM	NM	4.42	NM	Well inaccessible
MW-31	18-Jul-14	ND	2.04	--	4.42	2.38	
MW-31	4-Feb-15	ND	1.61	--	4.42	2.81	
MW-31	29-Apr-15	NM	NM	NM	4.42	NM	Under vehicle
MW-31	14-Jul-15	ND	0.81	--	4.42	3.61	
MW-31	13-Oct-15	NM	NM	NM	4.42	NM	Under vehicle
MW-31	9-Nov-15	ND	1.55	--	4.42	2.87	
MW-31	4-Feb-16	NM	NM	NM	4.42	NM	Under warehouse supplies
MW-31	11-May-16	ND	1.46	--	4.42	2.96	
MW-31	23-Aug-16	ND	0.98	--	4.42	3.44	
MW-31	10-Nov-16	ND	1.2	--	4.42	3.22	
MW-31	24-Feb-17	ND	0.86	--	4.42	3.56	
MW-31	1-May-17	ND	0.83	--	4.42	3.59	
MW-31	14-Aug-17	ND	0.76	--	4.42	3.66	
MW-31	14-Nov-17	ND	1.86	--	4.42	2.56	
MW-31	27-Feb-18	NM	NM	NM	4.42	NM	Covered
MW-31	18-Jun-18	NM	NM	NM	4.42	NM	Covered
MW-32	22-Jul-11	6.92	6.93	0.01	5.84	-1.08	
MW-32	18-Oct-11	6.04	6.07	0.03	5.84	-0.20	
MW-32	16-Jan-12	6.60	6.8	0.20	5.84	-0.78	
MW-32	12-Apr-12	6.90	6.92	0.02	5.84	-1.06	
MW-32	11-Jul-12	6.35	6.6	0.25	5.84	-0.53	
MW-32	23-Oct-12	6.41	6.51	0.10	5.84	-0.58	
MW-32	18-Jan-13	6.47	6.49	0.02	5.84	-0.63	
MW-32	18-Apr-13	6.92	6.96	0.04	5.84	-1.08	
MW-32	15-Jul-13	7.46	7.49	0.03	5.84	-1.62	
MW-32	28-Oct-13	6.20	6.95	0.75	5.84	-0.43	
MW-32	27-Jan-14	6.90	7.7	0.80	5.84	-1.14	
MW-32	7-Apr-14	7.03	7.25	0.22	5.84	-1.21	
MW-32	18-Jul-14	ND	6.85	--	5.84	-1.01	
MW-32	15-Oct-14	ND	6.42	--	5.84	-0.58	
MW-32	4-Feb-15	NM	NM	NM	5.84	NM	Unable to locate
MW-32	29-Apr-15	ND	6.9	--	5.84	-1.06	
MW-32	14-Jul-15	ND	5.52	--	6	0.48	
MW-32	13-Oct-15	ND	3.91	--	6	2.09	
MW-32	9-Nov-15	ND	6.76	--	6	-0.76	
MW-32	4-Feb-16	ND	6.01	--	6	-0.01	
MW-32	11-May-16	NM	NM	NM	6	NM	Well abandoned
MW-33	22-Jul-11	4.24	4.98	0.74	5.7	1.39	
MW-33	18-Oct-11	3.79	5.97	2.18	5.7	1.70	
MW-33	16-Jan-12	4.79	7	2.21	5.7	0.70	
MW-33	12-Apr-12	4.93	5.4	0.47	5.7	0.73	
MW-33	11-Jul-12	4.48	6	1.52	5.7	1.08	
MW-33	23-Oct-12	4.87	5.5	0.63	5.7	0.77	
MW-33	18-Jan-13	4.50	4.69	0.19	5.7	1.18	
MW-33	18-Apr-13	4.71	4.9	0.19	5.7	0.97	
MW-33	15-Jul-13	4.48	4.8	0.32	5.7	1.19	
MW-33	28-Oct-13	4.86	5.57	0.71	5.7	0.77	

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ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-33	27-Jan-14	4.87	5.8	0.93	5.7	0.74	
MW-33	7-Apr-14	4.65	5.03	0.38	5.7	1.01	
MW-33	18-Jul-14	ND	4.35	--	5.7	1.35	
MW-33	15-Oct-14	4.42	4.45	0.03	5.7	1.28	
MW-33	4-Feb-15	4.19	4.9	0.71	5.7	1.44	
MW-33	29-Apr-15	3.71	3.9	0.19	5.7	1.97	
MW-33	14-Jul-15	2.67	2.97	0.30	5.65	2.95	
MW-33	13-Oct-15	2.70	3.3	0.60	5.65	2.89	
MW-33	10-Nov-15	3.33	3.9	0.57	5.65	2.27	
MW-33	4-Feb-16	ND	4.2	--	5.65	1.45	
MW-33	11-May-16	3.85	3.97	0.12	5.65	1.79	
MW-33	23-Aug-16	4.85	6.33	1.48	5.65	0.66	
MW-33	10-Nov-16	2.77	4.21	1.44	5.65	2.74	
MW-33	24-Feb-17	2.62	3.34	0.72	5.65	2.96	
MW-33	1-May-17	2.39	3.4	1.01	5.65	3.16	
MW-33	14-Aug-17	2.90	4.15	1.25	5.65	2.63	
MW-33	14-Nov-17	2.95	4.39	1.44	5.65	2.56	
MW-33	27-Feb-18	2.64	2.79	0.15	5.65	3.00	
MW-33	18-Jun-18	ND	2.76	--	5.65	2.89	
MW-34	11-Jul-12	8.00	8.19	0.19	7	-1.02	
MW-34	23-Oct-12	7.11	7.6	0.49	7	-0.16	
MW-34	18-Jan-13	7.77	8.1	0.33	7	-0.80	
MW-34	18-Apr-13	7.62	7.7	0.08	7	-0.63	
MW-34	15-Jul-13	7.85	7.9	0.05	7	-0.85	
MW-34	28-Oct-13	7.30	7.59	0.29	7	-0.33	
MW-34	27-Jan-14	NM	NM	NM	7	NM	Well inaccessible
MW-34	7-Apr-14	7.20	7.33	0.13	7	-0.21	
MW-34	18-Jul-14	7.26	7.55	0.29	7	-0.29	
MW-34	15-Oct-14	NM	NM	NM	7	NM	Under asphalt
MW-34	4-Feb-15	NM	NM	NM	7	NM	Unable to locate
MW-34	29-Apr-15	NM	NM	NM	7	NM	Unable to locate
MW-34	14-Jul-15	NM	NM	NM	7	NM	Destroyed during WM Construction
MW-35	11-Jul-12	7.45	7.47	0.02	6.95	-0.50	
MW-35	23-Oct-12	NM	NM	NM	6.95	NM	Well inaccessible
MW-35	18-Jan-13	7.36	7.37	0.01	6.95	-0.41	
MW-35	18-Apr-13	ND	6.84	--	6.95	0.11	
MW-35	15-Jul-13	ND	7.64	--	6.95	-0.69	Trace NAPL
MW-35	28-Oct-13	NM	NM	NM	6.95	NM	Well inaccessible
MW-35	27-Jan-14	NM	NM	NM	6.95	NM	Well inaccessible
MW-35	7-Apr-14	NM	NM	NM	6.95	NM	Well inaccessible
MW-35	18-Jul-14	NM	NM	NM	6.95	NM	Well inaccessible
MW-35	15-Oct-14	ND	9.2	--	6.95	-2.25	
MW-35	4-Feb-15	NM	NM	NM	6.95	NM	Unable to locate
MW-35	29-Apr-15	NM	NM	NM	6.95	NM	Unable to locate
MW-35	14-Jul-15	NM	NM	NM	6.95	NM	Unable to locate
MW-35	13-Oct-15	NM	NM	NM	6.95	NM	Unable to locate
MW-35	9-Nov-15	NM	NM	NM	6.95	NM	Unable to locate
MW-35	4-Feb-16	NM	NM	NM	6.95	NM	Unable to locate
MW-35	11-May-16	NM	NM	NM	6.95	NM	Covered during WM Construction
MW-36	11-Jul-12	ND	7.9	--	8.99	1.09	
MW-36	23-Oct-12	5.93	6.11	0.18	8.99	3.04	
MW-36	18-Jan-13	NM	NM	NM	8.99	NM	Well inaccessible
MW-36	18-Apr-13	NM	NM	NM	8.99	NM	Unable to locate
MW-36	15-Jul-13	ND	8.14	--	8.99	0.85	
MW-36	28-Oct-13	8.20	8.24	0.04	8.99	0.79	
MW-36	27-Jan-14	ND	8.44	--	8.99	0.55	
MW-36	7-Apr-14	ND	8.22	--	8.99	0.77	
MW-36	18-Jul-14	ND	7.55	--	8.99	1.44	
MW-36	15-Oct-14	NM	NM	NM	8.99	NM	Under asphalt
MW-36	4-Feb-15	NM	NM	NM	8.99	NM	Unable to locate
MW-36	29-Apr-15	NM	NM	NM	8.99	NM	Unable to locate
MW-36	14-Jul-15	NM	NM	NM	8.99	NM	Destroyed during WM Construction
MW-37	11-Jul-12	NM	NM	NM	13.95	NM	Unable to locate
MW-37	23-Oct-12	ND	11.04	--	13.95	2.91	
MW-37	18-Jan-13	ND	11.08	--	13.95	2.87	
MW-37	18-Apr-13	ND	11.62	--	13.95	2.33	

Table 4
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MW-37	15-Jul-13	ND	11.34	--	13.95	2.61	
MW-37	28-Oct-13	ND	12	--	13.95	1.95	
MW-37	27-Jan-14	ND	11.49	--	13.95	2.46	
MW-37	7-Apr-14	ND	11.28	--	13.95	2.67	
MW-37	18-Jul-14	NM	NM	NM	13.95	NM	Unable to locate
MW-37	15-Oct-14	ND	11.6	--	13.95	2.35	
MW-37	4-Feb-15	NM	NM	NM	13.95	NM	Unable to locate
MW-37	29-Apr-15	ND	11.15	--	13.95	2.80	
MW-37	14-Jul-15	9.39	9.4	0.01	12.43	3.04	
MW-37	13-Oct-15	ND	8.99	--	12.43	3.44	
MW-37	10-Nov-15	9.72	9.84	0.12	12.43	2.70	
MW-37	4-Feb-16	8.97	8.98	0.01	12.43	3.46	
MW-37	11-May-16	ND	9.34	--	12.43	3.09	
MW-37	23-Aug-16	9.81	9.83	0.02	12.43	2.62	
MW-37	10-Nov-16	9.18	9.19	0.01	12.43	3.25	
MW-37	24-Feb-17	ND	9.47	--	12.43	2.96	
MW-37	1-May-17	ND	8.79	--	12.43	3.64	
MW-37	14-Aug-17	ND	8.5	--	12.43	3.93	
MW-37	14-Nov-17	ND	9.32	--	12.43	3.11	
MW-37	27-Feb-18	ND	8.16	--	12.43	4.27	
MW-37	18-Jun-18	ND	9.49	--	12.43	2.94	
MW-38	11-Jul-12	ND	10.17	--	13.97	3.80	
MW-38	23-Oct-12	ND	10.41	--	13.97	3.56	
MW-38	18-Jan-13	ND	10.7	--	13.97	3.27	
MW-38	18-Apr-13	NM	NM	NM	13.97	NM	Under truck
MW-38	15-Jul-13	ND	10.45	--	13.97	3.52	
MW-38	28-Oct-13	NM	NM	NM	13.97	NM	Well inaccessible
MW-38	27-Jan-14	NM	NM	NM	13.97	NM	Well inaccessible
MW-38	7-Apr-14	NM	NM	NM	13.97	NM	Well inaccessible
MW-38	18-Jul-14	NM	NM	NM	13.97	NM	Well inaccessible
MW-38	15-Oct-14	NM	NM	NM	13.97	NM	Under asphalt
MW-38	4-Feb-15	NM	NM	NM	13.97	NM	Unable to locate
MW-38	29-Apr-15	NM	NM	NM	13.97	NM	Unable to locate
MW-38	29-Apr-15	NM	NM	NM	13.97	NM	Unable to locate
MW-38	14-Jul-15	NM	NM	NM	13.97	NM	Unable to locate
MW-38	13-Oct-15	NM	NM	NM	13.97	NM	Unable to locate
MW-38	9-Nov-15	NM	NM	NM	13.97	NM	Unable to locate
MW-38	4-Feb-16	NM	NM	NM	13.97	NM	Unable to locate
MW-38	11-May-16	NM	NM	NM	13.97	NM	Destroyed during WM Construction
MW-39	11-Jul-12	ND	10.26	--	10.26	0.00	
MW-39	23-Oct-12	ND	8.03	--	10.26	2.23	
MW-39	18-Jan-13	6.41	6.42	0.01	10.26	3.85	
MW-39	18-Apr-13	ND	8.32	--	10.26	1.94	
MW-39	15-Jul-13	8.00	8.02	0.02	10.26	2.26	
MW-39	28-Oct-13	8.60	8.65	0.05	10.26	1.66	
MW-39	27-Jan-14	8.16	8.17	0.01	10.26	2.10	
MW-39	7-Apr-14	8.00	8.01	0.01	10.26	2.26	
MW-39	18-Jul-14	ND	7.73	--	10.26	2.53	
MW-39	4-Feb-15	NM	NM	NM	10.26	NM	Unable to locate
MW-39	29-Apr-15	6.49	6.5	0.01	10.26	3.77	
MW-39	14-Jul-15	NM	NM	NM	10.26	NM	Destroyed during WM Construction
MW-40D	11-Jul-12	ND	10.3	--	10.76	0.46	
MW-40D	23-Oct-12	ND	11	--	10.76	-0.24	
MW-40D	18-Jan-13	ND	11.45	--	10.76	-0.69	
MW-40D	18-Apr-13	ND	11.28	--	10.76	-0.52	
MW-40D	15-Jul-13	ND	6.95	--	10.76	3.81	
MW-40D	28-Oct-13	ND	7.4	--	10.76	3.36	
MW-40D	27-Jan-14	ND	11.37	--	10.76	-0.61	
MW-40D	7-Apr-14	ND	11.13	--	10.76	-0.37	
MW-40D	18-Jul-14	ND	10.95	--	10.76	-0.19	
MW-40D	15-Oct-14	NM	NM	NM	10.76	NM	Well inaccessible
MW-40D	4-Feb-15	NM	NM	NM	10.76	NM	Unable to locate
MW-40D	29-Apr-15	NM	NM	NM	10.76	NM	Covered
MW-40D	14-Jul-15	NM	NM	NM	10.76	NM	Destroyed during WM Construction
MW-40S	11-Jul-12	ND	7.59	--	10.78	3.19	
MW-40S	23-Oct-12	5.30	5.32	0.02	10.78	5.48	

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MW-40S	18-Jan-13	8.19	8.2	0.01	10.78	2.59	
MW-40S	18-Apr-13	ND	8.1	--	10.78	2.68	
MW-40S	15-Jul-13	4.74	4.78	0.04	10.78	6.04	
MW-40S	28-Oct-13	ND	7.6	--	10.78	3.18	
MW-40S	27-Jan-14	ND	8.5	--	10.78	2.28	
MW-40S	7-Apr-14	ND	8.49	--	10.78	2.29	
MW-40S	18-Jul-14	ND	8.2	--	10.78	2.58	
MW-40S	15-Oct-14	NM	NM	NM	10.78	NM	Well inaccessible
MW-40S	4-Feb-15	NM	NM	NM	10.78	NM	Unable to locate
MW-40S	29-Apr-15	NM	NM	NM	10.78	NM	Covered
MW-40S	14-Jul-15	NM	NM	NM	10.78	NM	Damaged during WM Construction
MW-41D	11-Jul-12	ND	6.74	--	6.36	-0.38	
MW-41D	23-Oct-12	ND	7.29	--	6.36	-0.93	
MW-41D	18-Jan-13	ND	7.7	--	6.36	-1.34	
MW-41D	18-Apr-13	ND	7.5	--	6.36	-1.14	
MW-41D	15-Jul-13	ND	10.92	--	6.36	-4.56	
MW-41D	28-Oct-13	ND	11.3	--	6.36	-4.94	
MW-41D	27-Jan-14	ND	7.32	--	6.36	-0.96	
MW-41D	7-Apr-14	ND	7.1	--	6.36	-0.74	
MW-41D	18-Jul-14	ND	6.77	--	6.36	-0.41	
MW-41D	15-Oct-14	NM	NM	NM	6.36	NM	Well abandoned
MW-41S	11-Jul-12	ND	3.95	--	6.84	2.89	
MW-41S	23-Oct-12	ND	4.9	--	6.84	1.94	
MW-41S	18-Jan-13	NM	NM	NM	6.84	NM	LNAPL too viscous
MW-41S	18-Apr-13	ND	6.24	--	6.84	0.60	
MW-41S	15-Jul-13	ND	8.02	--	6.84	-1.18	
MW-41S	28-Oct-13	8.25	8.27	0.02	6.84	-1.41	
MW-41S	27-Jan-14	ND	7.52	--	6.84	-0.68	
MW-41S	7-Apr-14	ND	7.28	--	6.84	-0.44	
MW-41S	18-Jul-14	ND	6.6	--	6.84	0.24	
MW-41S	15-Oct-14	NM	NM	NM	6.84	NM	Well removed by WM
MW-42	11-Jul-12	7.55	22	14.45	9.1	0.18	
MW-42	23-Oct-12	7.97	17.03	9.06	9.1	0.27	
MW-42	18-Jan-13	8.70	21.45	12.75	9.1	-0.81	
MW-42	18-Apr-13	8.65	13	4.35	9.1	0.04	
MW-42	15-Jul-13	8.00	23	15.00	9.1	-0.32	
MW-42	28-Oct-13	8.60	22.5	13.90	9.1	-0.82	
MW-42	27-Jan-14	8.33	23	14.67	9.1	-0.62	
MW-42	7-Apr-14	8.20	21.47	13.27	9.1	-0.36	
MW-42	18-Jul-14	7.66	21.2	13.54	9.1	0.15	
MW-42	15-Oct-14	8.03	22.1	14.07	9.1	-0.27	
MW-42	4-Feb-15	12.71	24.22	11.51	13.92	0.12	
MW-42	29-Apr-15	12.61	26.51	13.90	13.92	-0.01	
MW-42	14-Jul-15	11.55	26.39	14.84	13.92	0.96	
MW-42	13-Oct-15	11.90	24.64	12.74	13.92	0.81	
MW-42	9-Nov-15	12.92	25.37	12.45	13.92	-0.18	
MW-42	4-Feb-16	12.94	23.51	10.57	13.92	-0.02	
MW-42	11-May-16	13.30	23.88	10.58	13.92	-0.39	
MW-42	23-Aug-16	13.39	22.28	8.89	13.92	-0.31	
MW-42	10-Nov-16	13.06	22.37	9.31	13.92	-0.02	
MW-42	24-Feb-17	13.76	24.5	10.74	13.92	-0.86	
MW-42	1-May-17	12.97	22.83	9.86	13.92	0.01	
MW-42	14-Aug-17	12.44	24.03	11.59	13.92	0.38	
MW-42	14-Nov-17	12.71	26.23	13.52	13.92	-0.07	
MW-42	27-Feb-18	12.45	24.03	11.58	13.92	0.37	
MW-42	18-Jun-18	12.17	22.73	10.56	13.92	0.75	
MW-43	11-Jul-12	ND	4.58	--	7.98	3.40	
MW-43	23-Oct-12	ND	5.4	--	7.98	2.58	
MW-43	18-Jan-13	ND	6.44	--	7.98	1.54	
MW-43	18-Apr-13	ND	5.55	--	7.98	2.43	
MW-43	15-Jul-13	ND	4.84	--	7.98	3.14	
MW-43	28-Oct-13	ND	6.2	--	7.98	1.78	
MW-43	27-Jan-14	ND	5.06	--	7.98	2.92	
MW-43	7-Apr-14	ND	5.65	--	7.98	2.33	
MW-43	18-Jul-14	ND	5.08	--	7.98	2.90	
MW-43	15-Oct-14	NM	NM	NM	7.98	NM	Under asphalt
MW-43	4-Feb-15	NM	NM	NM	7.98	NM	Unable to locate

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MW-43	29-Apr-15	NM	NM	NM	7.98	NM	Unable to locate
MW-43	14-Jul-15	NM	NM	NM	7.98	NM	Destroyed during WM Construction
MW-44	11-Jul-12	ND	3.61	--	8.31	4.70	
MW-44	23-Oct-12	ND	3.5	--	8.31	4.81	
MW-44	18-Jan-13	ND	5.34	--	8.31	2.97	
MW-44	18-Apr-13	ND	4	--	8.31	4.31	
MW-44	15-Jul-13	ND	3.5	--	8.31	4.81	
MW-44	28-Oct-13	5.12	5.13	0.01	8.31	3.19	
MW-44	27-Jan-14	ND	4	--	8.31	4.31	
MW-44	7-Apr-14	ND	3.77	--	8.31	4.54	
MW-44	18-Jul-14	ND	3.44	--	8.31	4.87	
MW-44	4-Feb-15	ND	5.13	--	8.31	3.18	
MW-44	29-Apr-15	ND	5.18	--	8.31	3.13	
MW-44	14-Jul-15	ND	5.21	--	10.44	5.23	
MW-44	13-Oct-15	ND	5.15	--	10.44	5.29	
MW-44	9-Nov-15	ND	6.32	--	10.44	4.12	
MW-44	4-Feb-16	ND	5.03	--	10.44	5.41	
MW-44	11-May-16	ND	5.29	--	10.44	5.15	
MW-44	23-Aug-16	ND	4.09	--	10.44	6.35	
MW-44	10-Nov-16	3.99	4.01	0.02	10.44	6.45	
MW-44	24-Feb-17	ND	4.02	--	10.44	6.42	
MW-44	1-May-17	ND	3.2	--	10.44	7.24	
MW-44	14-Aug-17	ND	3.04	--	10.44	7.40	
MW-44	14-Nov-17	ND	6.11	--	10.44	4.33	Trace Product
MW-44	27-Feb-18	ND	3.79	--	10.44	6.65	
MW-44	18-Jun-18	ND	3.72	--	10.44	6.72	
MW-45	11-Jul-12	ND	7.23	--	6.33	-0.90	
MW-45	23-Oct-12	6.74	7.6	0.86	6.33	-0.49	
MW-45	18-Jan-13	7.06	7.07	0.01	6.33	-0.73	
MW-45	18-Apr-13	7.40	7.42	0.02	6.33	-1.07	
MW-45	15-Jul-13	7.32	7.99	0.67	6.33	-1.05	
MW-45	28-Oct-13	6.85	6.95	0.10	6.33	-0.53	
MW-45	27-Jan-14	6.40	6.42	0.02	6.33	-0.07	
MW-45	7-Apr-14	7.18	7.2	0.02	6.33	-0.85	
MW-45	18-Jul-14	7.50	7.51	0.01	6.33	-1.17	
MW-45	15-Oct-14	NM	NM	NM	6.33	NM	Under asphalt
MW-45	4-Feb-15	NM	NM	NM	6.33	NM	Unable to locate
MW-45	29-Apr-15	NM	NM	NM	6.33	NM	Unable to locate
MW-45	14-Jul-15	NM	NM	NM	6.33	NM	Removed during WM Construction
MW-46	11-Jul-12	ND	10.32	--	8.88	-1.44	
MW-46	23-Oct-12	ND	10.15	--	8.88	-1.27	
MW-46	18-Jan-13	ND	9.61	--	8.88	-0.73	
MW-46	18-Apr-13	ND	9.3	--	8.88	-0.42	
MW-46	15-Jul-13	ND	9.97	--	8.88	-1.09	
MW-46	28-Oct-13	ND	9.99	--	8.88	-1.11	
MW-46	27-Jan-14	NM	NM	NM	8.88	NM	LNAPL too viscous
MW-46	7-Apr-14	ND	8.8	--	8.88	0.08	
MW-46	18-Jul-14	ND	9.55	--	8.88	-0.67	
MW-46	15-Oct-14	ND	8.68	--	8.88	0.20	
MW-46	4-Feb-15	NM	NM	NM	8.88	NM	Under beam
MW-46	29-Apr-15	NM	NM	NM	8.88	NM	Unable to locate
MW-46	14-Jul-15	ND	8.65	--	8.52	-0.13	
MW-46	13-Oct-15	ND	6.44	--	8.52	2.08	
MW-46	9-Nov-15	ND	9.79	--	8.52	-1.27	
MW-46	4-Feb-16	ND	9.71	--	8.52	-1.19	
MW-46	11-May-16	ND	10.68	--	8.52	-2.16	
MW-46	23-Aug-16	ND	9.43	--	8.52	-0.91	
MW-46	10-Nov-16	ND	8	--	8.52	0.52	
MW-46	24-Feb-17	ND	13.91	--	8.52	-5.39	
MW-46	1-May-17	ND	9	--	8.52	-0.48	
MW-46	14-Aug-17	ND	8.42	--	8.52	0.10	
MW-46	14-Nov-17	ND	8.85	--	8.52	-0.33	
MW-46	27-Feb-18	ND	10.22	--	8.52	-1.70	
MW-46	18-Jun-18	ND	8.92	--	8.52	-0.40	
MW-47	11-Jul-12	4.65	4.7	0.05	8.37	3.72	
MW-47	23-Oct-12	5.00	5.18	0.18	8.37	3.35	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-47	18-Jan-13	4.75	NM	NM	8.37	NM	LNAPL too viscous
MW-47	18-Apr-13	5.00	NM	NM	8.37	NM	LNAPL too viscous
MW-47	15-Jul-13	4.80	4.95	0.15	8.37	3.56	
MW-47	28-Oct-13	5.12	5.2	0.08	8.37	3.24	
MW-47	27-Jan-14	NM	NM	NM	8.37	NM	Well inaccessible
MW-47	7-Apr-14	NM	NM	NM	8.37	NM	LNAPL too viscous
MW-47	18-Jul-14	4.65	4.67	0.02	8.37	3.72	
MW-47	15-Oct-14	NM	NM	NM	8.37	NM	Well removed by WM
MW-48D	11-Jul-12	9.61	22.73	13.12	9.83	-1.03	
MW-48D	23-Oct-12	9.91	22.03	12.12	9.83	-1.23	
MW-48D	18-Jan-13	10.55	21.48	10.93	9.83	-1.76	
MW-48D	18-Apr-13	10.70	21.8	11.10	9.83	-1.92	
MW-48D	15-Jul-13	10.00	22.15	12.15	9.83	-1.32	
MW-48D	28-Oct-13	10.50	21.8	11.30	9.83	-1.74	
MW-48D	27-Jan-14	10.45	21.85	11.40	9.83	-1.70	
MW-48D	7-Apr-14	10.24	21.55	11.31	9.83	-1.48	
MW-48D	18-Jul-14	9.72	21.47	11.75	9.83	-1.01	
MW-48D	15-Oct-14	10.12	21.8	11.68	9.83	-1.40	
MW-48D	4-Feb-15	NM	NM	NM	9.83	NM	Under debris pile
MW-48D	29-Apr-15	9.78	22.29	12.51	9.83	-1.14	
MW-48D	14-Jul-15	8.47	21.86	13.39	9.83	0.09	
MW-48D	13-Oct-15	8.92	21.73	12.81	9.83	-0.31	
MW-48D	9-Nov-15	9.87	21.7	11.83	9.83	-1.16	
MW-48D	4-Feb-16	NM	NM	NM	9.83	NM	Under vehicle
MW-48D	11-May-16	10.03	21.89	11.86	9.83	-1.33	
MW-48D	23-Aug-16	10.33	20.97	10.64	9.83	-1.51	
MW-48D	10-Nov-16	9.94	22.24	12.30	9.83	-1.28	
MW-48D	24-Feb-17	10.80	22.12	11.32	9.83	-2.05	
MW-48D	1-May-17	10.19	21.95	11.76	9.83	-1.48	
MW-48D	14-Aug-17	10.74	22.02	11.28	9.83	-1.98	
MW-48D	14-Nov-17	10.09	17.21	7.12	9.83	-0.94	
MW-48D	27-Feb-18	NM	NM	NM	9.83	NM	Covered
MW-48D	18-Jun-18	9.44	21.63	12.19	9.83	-0.77	
MW-48S	11-Jul-12	9.20	9.23	0.03	9.81	0.61	
MW-48S	23-Oct-12	NM	NM	NM	9.81	NM	Well inaccessible
MW-48S	18-Jan-13	NM	NM	NM	9.81	NM	Well inaccessible
MW-48S	18-Apr-13	NM	NM	NM	9.81	NM	Under vehicle
MW-48S	15-Jul-13	NM	NM	NM	9.81	NM	Under vehicle
MW-48S	28-Oct-13	NM	NM	NM	9.81	NM	Well inaccessible
MW-48S	27-Jan-14	NM	NM	NM	9.81	NM	Well inaccessible
MW-48S	7-Apr-14	NM	NM	NM	9.81	NM	Well inaccessible
MW-48S	18-Jul-14	NM	NM	NM	9.81	NM	Well inaccessible
MW-48S	15-Oct-14	9.55	10.9	1.35	9.81	0.13	
MW-48S	4-Feb-15	NM	NM	NM	9.81	NM	Under debris pile
MW-48S	29-Apr-15	ND	9.53	--	9.81	0.28	
MW-48S	14-Jul-15	7.03	7.05	0.02	9.81	2.78	
MW-48S	13-Oct-15	ND	8.49	--	9.81	1.32	
MW-48S	9-Nov-15	9.51	9.55	0.04	9.81	0.30	
MW-48S	4-Feb-16	8.87	9.46	0.59	9.81	0.88	
MW-48S	11-May-16	9.28	11.15	1.87	9.81	0.35	
MW-48S	23-Aug-16	ND	9.24	--	9.81	0.57	
MW-48S	10-Nov-16	8.83	8.94	0.11	9.81	0.97	
MW-48S	24-Feb-17	ND	8.95	--	9.81	0.86	
MW-48S	1-May-17	ND	7.65	--	9.81	2.16	
MW-48S	14-Aug-17	ND	7.46	--	9.81	2.35	
MW-48S	14-Nov-17	9.19	9.2	9.20	9.81	8.94	
MW-48S	27-Feb-18	NM	NM	NM	9.81	NM	Covered
MW-48S	18-Jun-18	ND	8.42	NM	9.81	1.39	
MW-49D	11-Jul-12	11.52	11.8	0.28	10.55	-0.99	
MW-49D	23-Oct-12	11.92	12.15	0.23	10.55	-1.39	
MW-49D	13-Jan-13	NM	NM	NM	10.55	NM	Well inaccessible
MW-49D	18-Apr-13	12.50	13	0.50	10.55	-1.99	
MW-49D	15-Jul-13	12.17	12.5	0.33	10.55	-1.65	
MW-49D	28-Oct-13	12.36	12.42	0.06	10.55	-1.82	
MW-49D	27-Jan-14	12.17	12.2	0.03	10.55	-1.62	
MW-49D	7-Apr-14	NM	NM	NM	10.55	NM	Well inaccessible
MW-49D	18-Jul-14	11.55	11.61	0.06	10.55	-1.01	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-49D	15-Oct-14	11.88	11.9	0.02	10.55	-1.33	
MW-49D	4-Feb-15	ND	11.92	--	10.55	-1.37	
MW-49D	29-Apr-15	ND	11.73	--	10.55	-1.18	
MW-49D	14-Jul-15	ND	10.46	--	10.55	0.09	
MW-49D	13-Oct-15	ND	10.87	--	10.55	-0.32	
MW-49D	9-Nov-15	ND	11.77	--	10.55	-1.22	
MW-49D	4-Feb-16	ND	11.78	--	10.55	-1.23	
MW-49D	11-May-16	ND	13.13	--	10.55	-2.58	
MW-49D	23-Aug-16	ND	12.12	--	10.55	-1.57	
MW-49D	10-Nov-16	ND	11.72	--	10.55	-1.17	
MW-49D	24-Feb-17	ND	12.38	--	10.55	-1.83	
MW-49D	1-May-17	ND	12.01	--	10.55	-1.46	
MW-49D	14-Aug-17	ND	11.47	--	10.55	-0.92	
MW-49D	14-Nov-17	ND	11.47	--	10.55	-0.92	
MW-49D	27-Feb-18	ND	11.8	--	10.55	-1.25	
MW-49D	18-Jun-18	ND	11.38	--	10.55	-0.83	
MW-49M	11-Jul-12	10.30	22.6	12.30	10.93	-0.42	
MW-49M	23-Oct-12	NM	NM	NM	10.93	NM	Well inaccessible
MW-49M	18-Jan-13	11.42	22.2	10.78	10.93	-1.41	
MW-49M	18-Apr-13	NM	NM	NM	10.93	NM	Under vehicle
MW-49M	15-Jul-13	NM	NM	NM	10.93	NM	Under vehicle
MW-49M	28-Oct-13	11.42	13.2	1.78	10.93	-0.64	
MW-49M	27-Jan-14	11.25	22.1	10.85	10.93	-1.24	
MW-49M	7-Apr-14	NM	NM	NM	10.93	NM	Well inaccessible
MW-49M	18-Jul-14	NM	NM	NM	10.93	NM	Well inaccessible
MW-49M	15-Oct-14	NM	NM	NM	10.93	NM	Well inaccessible
MW-49M	4-Feb-15	11.04	22.3	11.26	10.93	-1.07	
MW-49M	29-Apr-15	10.65	22.34	11.69	10.93	-0.71	
MW-49M	14-Jul-15	9.62	20.51	10.89	10.93	0.38	
MW-49M	13-Oct-15	10.00	21.18	11.18	10.93	-0.02	
MW-49M	9-Nov-15	10.93	21.31	10.38	10.93	-0.88	
MW-49M	4-Feb-16	10.91	21.88	10.97	10.93	-0.91	
MW-49M	11-May-16	10.98	21.85	10.87	10.93	-0.98	
MW-49M	23-Aug-16	11.32	21.74	10.42	10.93	-1.28	
MW-49M	10-Nov-16	10.96	20.38	9.42	10.93	-0.83	
MW-49M	24-Feb-17	11.60	22.28	10.68	10.93	-1.58	
MW-49M	1-May-17	11.16	22.17	11.01	10.93	-1.17	
MW-49M	14-Aug-17	10.80	21.6	10.80	10.93	-0.79	
MW-49M	14-Nov-17	10.53	23.1	12.57	10.93	-0.67	
MW-49M	27-Feb-18	11.55	15.9	4.35	10.93	-0.99	
MW-49M	18-Jun-18	10.54	21.2	10.66	10.93	-0.52	
MW-49S	11-Jul-12	10.85	11.5	0.65	10.68	-0.23	
MW-49S	23-Oct-12	NM	NM	NM	10.68	NM	Well inaccessible
MW-49S	18-Jan-13	11.35	12.8	1.45	10.68	-0.79	
MW-49S	18-Apr-13	NM	NM	NM	10.68	NM	Under vehicle
MW-49S	15-Jul-13	11.32	12.84	1.52	10.68	-0.77	
MW-49S	28-Oct-13	NM	NM	NM	10.68	NM	Well inaccessible
MW-49S	27-Jan-14	NM	NM	NM	10.68	NM	Well inaccessible
MW-49S	7-Apr-14	11.25	11.55	0.30	10.68	-0.60	
MW-49S	18-Jul-14	10.70	10.9	0.20	10.68	-0.04	
MW-49S	15-Oct-14	NM	NM	NM	10.68	NM	Well inaccessible
MW-49S	4-Feb-15	NM	NM	NM	10.68	NM	Under vehicle
MW-49S	29-Apr-15	NM	NM	NM	10.68	NM	Under vehicle
MW-49S	14-Jul-15	9.93	12.86	2.93	10.68	0.50	
MW-49S	13-Oct-15	10.21	13.2	2.99	10.68	0.22	
MW-49S	9-Nov-15	11.08	13.3	2.22	10.68	-0.59	
MW-49S	4-Feb-16	11.03	13.29	2.26	10.68	-0.54	
MW-49S	11-May-16	11.26	13.21	1.95	10.68	-0.75	
MW-49S	23-Aug-16	11.12	13.13	2.01	10.68	-0.61	
MW-49S	10-Nov-16	11.05	13.32	2.27	10.68	-0.56	
MW-49S	24-Feb-17	NM	NM	NM	10.68	NM	Under vehicle
MW-49S	1-May-17	11.19	12.96	1.77	10.68	-0.66	
MW-49S	14-Aug-17	10.74	12.85	2.11	10.68	-0.24	
MW-49S	14-Nov-17	10.84	13.04	2.20	10.68	-0.35	
MW-49S	27-Feb-18	11.10	12.85	1.75	10.68	-0.57	
MW-49S	18-Jun-18	10.51	13.17	2.66	10.68	-0.06	
MW-50	11-Jul-12	10.73	17.07	6.34	10.71	-0.62	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
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MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-50	23-Oct-12	10.90	19.2	8.30	10.71	-0.98	
MW-50	18-Jan-13	11.40	19.2	7.80	10.71	-1.43	
MW-50	18-Apr-13	11.52	19.1	7.58	10.71	-1.53	
MW-50	15-Jul-13	11.10	18.3	7.20	10.71	-1.07	
MW-50	28-Oct-13	11.40	19	7.60	10.71	-1.41	
MW-50	27-Jan-14	11.23	17.5	6.27	10.71	-1.12	
MW-50	7-Apr-14	11.00	16.96	5.96	10.71	-0.86	
MW-50	18-Jul-14	10.35	16.1	5.75	10.71	-0.19	
MW-50	15-Oct-14	10.75	18.2	7.45	10.71	-0.75	
MW-50	4-Feb-15	11.02	17.33	6.31	10.71	-0.91	
MW-50	29-Apr-15	10.62	16.18	5.56	10.71	-0.44	
MW-50	14-Jul-15	8.90	14.07	5.17	10.71	1.32	
MW-50	13-Oct-15	10.14	15.5	5.36	10.71	0.06	
MW-50	9-Nov-15	10.92	18.27	7.35	10.71	-0.91	
MW-50	4-Feb-16	11.09	16.79	5.70	10.71	-0.92	
MW-50	11-May-16	11.10	19.04	7.94	10.71	-1.14	
MW-50	23-Aug-16	11.03	17.56	6.53	10.71	-0.94	
MW-50	10-Nov-16	10.92	17.73	6.81	10.71	-0.86	
MW-50	24-Feb-17	11.36	18.88	7.52	10.71	-1.36	
MW-50	1-May-17	11.06	18.42	7.36	10.71	-1.05	
MW-50	14-Aug-17	10.44	16.76	6.32	10.71	-0.33	
MW-50	14-Nov-17	10.57	15.9	5.33	10.71	-0.37	
MW-50	27-Feb-18	10.91	17.65	6.74	10.71	-0.84	
MW-50	18-Jun-18	10.44	16.34	5.90	10.71	-0.29	
MW-51	11-Jul-12	10.20	10.27	0.07	9.83	-0.38	
MW-51	23-Oct-12	10.50	10.54	0.04	9.83	-0.67	
MW-51	18-Jan-13	11.04	11.05	0.01	9.83	-1.21	
MW-51	18-Apr-13	11.02	11.05	0.03	9.83	-1.19	
MW-51	15-Jul-13	10.48	10.95	0.47	9.83	-0.69	
MW-51	28-Oct-13	10.92	10.96	0.04	9.83	-1.09	
MW-51	27-Jan-14	11.00	11.01	0.01	9.83	-1.17	
MW-51	7-Apr-14	10.37	10.41	0.04	9.83	-0.54	
MW-51	18-Jul-14	10.60	10.65	0.05	9.83	-0.77	
MW-51	15-Oct-14	10.52	10.8	0.28	9.83	-0.72	
MW-51	4-Feb-15	NM	NM	NM	9.83	NM	Under ice/snow
MW-51	29-Apr-15	ND	10.2	--	9.83	-0.37	
MW-51	14-Jul-15	9.05	9.06	0.01	9.83	0.78	
MW-51	13-Oct-15	9.37	9.38	0.01	9.83	0.46	
MW-51	9-Nov-15	ND	10.3	--	9.83	-0.47	
MW-51	8-Feb-16	ND	8.95	--	9.83	0.88	
MW-51	11-May-16	ND	10.41	--	9.83	-0.58	
MW-51	23-Aug-16	ND	9.77	--	9.83	0.06	
MW-51	10-Nov-16	ND	8.55	--	9.83	1.28	
MW-51	24-Feb-17	ND	10.81	--	9.83	-0.98	
MW-51	1-May-17	10.40	10.41	0.01	9.83	-0.57	
MW-51	14-Aug-17	ND	9.42	--	9.83	0.41	
MW-51	14-Nov-17	ND	6.99	--	9.83	2.84	
MW-51	27-Feb-18	ND	8.35	--	9.83	1.48	
MW-51	18-Jun-18	ND	8.35	--	9.83	1.48	
MW-52	11-Jul-12	ND	7.86	--	6.31	-1.55	
MW-52	23-Oct-12	ND	7.7	--	6.31	-1.39	
MW-52	18-Jan-13	ND	6.96	--	6.31	-0.65	
MW-52	18-Apr-13	ND	7.96	--	6.31	-1.65	
MW-52	15-Jul-13	ND	7.64	--	6.31	-1.33	
MW-52	28-Oct-13	ND	7.62	--	6.31	-1.31	
MW-52	27-Jan-14	ND	8.02	--	6.31	-1.71	
MW-52	7-Apr-14	ND	8.05	--	6.31	-1.74	
MW-52	18-Jul-14	ND	7.97	--	6.31	-1.66	
MW-52	15-Oct-14	ND	7.38	--	6.31	-1.07	
MW-52	4-Feb-15	ND	4.8	--	6.31	1.51	
MW-52	29-Apr-15	ND	7.83	--	6.31	-1.52	
MW-52	14-Jul-15	ND	7.27	--	6.31	-0.96	
MW-52	13-Oct-15	ND	3.36	--	6.31	2.95	
MW-52	9-Nov-15	ND	8.05	--	6.31	-1.74	
MW-52	4-Feb-16	ND	8.18	--	6.31	-1.87	
MW-52	11-May-16	ND	8.6	--	6.31	-2.29	
MW-52	23-Aug-16	ND	7.95	--	6.31	-1.64	
MW-52	10-Nov-16	ND	7.19	--	6.31	-0.88	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-52	24-Feb-17	ND	7.95	--	6.31	-1.64	
MW-52	1-May-17	ND	7.8	--	6.31	-1.49	
MW-52	14-Aug-17	ND	7.71	--	6.31	-1.40	
MW-52	14-Nov-17	ND	7.2	--	6.31	-0.89	
MW-52	27-Feb-18	ND	8.21	--	6.31	-1.90	
MW-52	18-Jun-18	ND	8.57	--	6.31	-2.26	
MW-54	11-Jul-12	9.45	11.2	1.75	11.06	1.44	
MW-54	23-Oct-12	9.62	10.5	0.88	11.06	1.36	
MW-54	18-Jan-13	10.06	12.17	2.11	11.06	0.80	
MW-54	18-Apr-13	10.00	11.1	1.10	11.06	0.96	
MW-54	15-Jul-13	9.55	10.6	1.05	11.06	1.41	
MW-54	28-Oct-13	NM	NM	NM	11.06	NM	Well inaccessible
MW-54	27-Jan-14	9.97	11.65	1.68	11.06	0.93	
MW-54	7-Apr-14	9.94	11.35	1.41	11.06	0.99	
MW-54	18-Jul-14	9.28	9.4	0.12	11.06	1.77	
MW-54	15-Oct-14	9.48	10.43	0.95	11.06	1.49	
MW-54	4-Feb-15	9.58	11.05	1.47	11.06	1.34	
MW-54	29-Apr-15	9.60	11.4	1.80	11.06	1.29	
MW-54	14-Jul-15	8.79	9.14	0.35	11.06	2.24	
MW-54	13-Oct-15	9.47	10.21	0.74	11.06	1.52	
MW-54	9-Nov-15	9.85	11	1.15	11.06	1.10	
MW-54	4-Feb-16	9.96	11.79	1.83	11.06	0.93	
MW-54	4-Feb-16	9.96	11.79	1.83	11.06	0.93	
MW-54	23-Aug-16	10.24	11.17	0.93	11.06	0.73	
MW-54	10-Nov-16	10.00	11.55	1.55	11.06	0.91	
MW-54	24-Feb-17	10.49	12.55	2.06	11.06	0.37	
MW-54	1-May-17	9.99	11.12	1.13	11.06	0.96	
MW-54	14-Aug-17	11.02	11.58	0.56	11.06	-0.01	
MW-54	14-Nov-17	NM	NM	NM	11.06	NM	Under Car
MW-54	27-Feb-18	12.06	12.11	0.05	11.06	-1.00	
MW-54	18-Jun-18	NM	NM	NM	11.06	NM	under vehicle
MW-55	11-Jul-12	8.90	21.3	12.40	11.06	0.98	
MW-55	23-Oct-12	9.50	15.9	6.40	11.06	0.95	
MW-55	18-Jan-13	10.20	16.38	6.18	11.06	0.27	
MW-55	18-Apr-13	10.24	16.1	5.86	11.06	0.26	
MW-55	15-Jul-13	9.75	15.28	5.53	11.06	0.78	
MW-55	28-Oct-13	10.05	16	5.95	11.06	0.44	
MW-55	27-Jan-14	10.25	16.07	5.82	11.06	0.26	
MW-55	7-Apr-14	10.02	15.4	5.38	11.06	0.53	
MW-55	18-Jul-14	9.35	14.85	5.50	11.06	1.19	
MW-55	15-Oct-14	9.64	15.12	5.48	11.06	0.90	
MW-55	4-Feb-15	9.82	15.14	5.32	11.06	0.73	
MW-55	29-Apr-15	9.54	14.8	5.26	11.06	1.02	
MW-55	14-Jul-15	8.88	13.83	4.95	11.06	1.71	
MW-55	13-Oct-15	9.25	14.48	5.23	11.06	1.31	
MW-55	9-Nov-15	8.89	15.35	6.46	11.06	1.55	
MW-55	4-Feb-16	10.14	15.48	5.34	11.06	0.41	
MW-55	11-May-16	10.17	15.5	5.33	11.06	0.38	
MW-55	23-Aug-16	10.32	15.61	5.29	11.06	0.24	
MW-55	10-Nov-16	10.18	15.48	5.30	11.06	0.37	
MW-55	24-Feb-17	10.83	16.4	5.57	11.06	-0.30	
MW-55	1-May-17	10.15	15.43	5.28	11.06	0.41	
MW-55	14-Aug-17	9.55	14.87	5.32	11.06	1.00	
MW-55	14-Nov-17	9.81	14.9	5.09	11.06	0.76	
MW-55	27-Feb-18	10.21	15.44	5.23	11.06	0.35	
MW-55	18-Jun-18	9.33	14.25	4.92	11.06	1.26	
MW-56	11-Jul-12	14.25	14.7	0.45	15.22	0.93	
MW-56	23-Oct-12	14.15	20.8	6.65	15.22	0.44	
MW-56	18-Jan-13	9.68	10.2	0.52	15.22	5.49	
MW-56	18-Apr-13	NM	NM	NM	15.22	NM	No access to building
MW-56	15-Jul-13	12.89	14.85	1.96	15.22	2.14	
MW-56	28-Oct-13	10.80	13.4	2.60	15.22	4.17	
MW-56	27-Jan-14	10.02	10.06	0.04	15.22	5.20	
MW-56	7-Apr-14	9.66	9.7	0.04	15.22	5.56	
MW-56	18-Jul-14	NM	NM	NM	15.22	NM	Well inaccessible
MW-56	15-Oct-14	12.58	15.08	2.50	15.22	2.40	
MW-56	4-Feb-15	9.56	11.69	2.13	15.22	5.46	

Table 4
Monitoring Well Gauging Data
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MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-56	29-Apr-15	7.58	10.33	2.75	15.22	7.38	
MW-56	14-Jul-15	9.36	11.84	2.48	15.22	5.62	
MW-56	13-Oct-15	9.27	11.95	2.68	15.22	5.70	
MW-56	9-Nov-15	9.05	14.5	5.45	15.22	5.65	
MW-56	4-Feb-16	8.71	11.62	2.91	15.22	6.23	
MW-56	11-May-16	14.99	16.45	1.46	15.22	0.09	
MW-56	23-Aug-16	16.89	20.41	3.52	15.22	-2.00	
MW-56	10-Nov-16	13.24	16.42	3.18	15.22	1.68	
MW-56	24-Feb-17	8.65	9.9	1.25	15.22	6.45	
MW-56	1-May-17	8.14	9.18	1.04	15.22	6.98	
MW-56	14-Aug-17	7.00	7.82	0.82	15.22	8.14	
MW-56	14-Nov-17	5.84	5.95	0.11	15.22	9.37	
MW-56	27-Feb-18	6.52	6.67	0.15	15.22	8.69	
MW-56	18-Jun-18	14.25	14.3	0.05	15.22	0.97	
MW-57	11-Jul-12	9.23	14.85	5.62	11.12	1.36	
MW-57	23-Oct-12	8.90	10.85	1.95	11.12	2.03	
MW-57	18-Jan-13	10.58	13.2	2.62	11.12	0.29	
MW-57	18-Apr-13	10.45	16	5.55	11.12	0.14	
MW-57	15-Jul-13	9.87	15.88	6.01	11.12	0.68	
MW-57	28-Oct-13	10.32	15.7	5.38	11.12	0.29	
MW-57	27-Jan-14	10.40	15.96	5.56	11.12	0.19	
MW-57	7-Apr-14	10.50	15.7	5.20	11.12	0.13	
MW-57	18-Jul-14	9.52	15.6	6.08	11.12	1.02	
MW-57	15-Oct-14	9.82	15.82	6.00	11.12	0.73	
MW-57	4-Feb-15	9.90	15.59	5.69	11.12	0.68	
MW-57	29-Apr-15	9.56	15.81	6.25	11.12	0.97	
MW-57	14-Jul-15	8.86	15.28	6.42	11.12	1.65	
MW-57	13-Oct-15	9.28	15.05	5.77	11.12	1.29	
MW-57	9-Nov-15	10.00	14.75	4.75	11.12	0.67	
MW-57	4-Feb-16	10.22	15.83	5.61	11.12	0.37	
MW-57	11-May-16	10.27	16.01	5.74	11.12	0.30	
MW-57	23-Aug-16	10.15	16.37	6.22	11.12	0.38	
MW-57	10-Nov-16	10.24	16.52	6.28	11.12	0.28	
MW-57	24-Feb-17	10.94	16.71	5.77	11.12	-0.37	
MW-57	1-May-17	10.18	16.54	6.36	11.12	0.34	
MW-57	14-Aug-17	9.59	16.28	6.69	11.12	0.89	
MW-57	14-Nov-17	9.85	16	6.15	11.12	0.69	
MW-57	27-Feb-18	10.25	16.37	6.12	11.12	0.29	
MW-57	18-Jun-18	9.41	15.87	6.46	11.12	1.10	
MW-58	11-Jul-12	13.87	14.72	0.85	15.33	1.38	
MW-58	23-Oct-12	14.05	14.9	0.85	15.33	1.20	
MW-58	18-Jan-13	14.60	14.9	0.30	15.33	0.70	
MW-58	18-Apr-13	NM	NM	NM	15.33	NM	No access to building
MW-58	15-Jul-13	14.05	14.83	0.78	15.33	1.21	
MW-58	28-Oct-13	10.20	14.4	4.20	15.33	4.73	
MW-58	27-Jan-14	14.64	15.3	0.66	15.33	0.63	
MW-58	7-Apr-14	14.32	14.65	0.33	15.33	0.98	
MW-58	18-Jul-14	13.58	14.82	1.24	15.33	1.63	
MW-58	15-Oct-14	14.18	14.73	0.55	15.33	1.10	
MW-58	4-Feb-15	14.09	14.79	0.70	15.33	1.17	
MW-58	29-Apr-15	14.51	15.31	0.80	15.33	0.74	
MW-58	14-Jul-15	13.12	14.76	1.64	15.33	2.05	
MW-58	13-Oct-15	13.55	14.86	1.31	15.33	1.66	
MW-58	9-Nov-15	14.23	14.7	0.47	15.33	1.06	
MW-58	4-Feb-16	14.43	14.73	0.30	15.33	0.87	
MW-58	11-May-16	14.56	14.76	0.20	15.33	0.75	
MW-58	23-Aug-16	14.62	14.86	0.24	15.33	0.69	
MW-58	16-Nov-16	14.40	14.48	0.08	15.33	0.92	
MW-58	24-Feb-17	ND	14.94	--	15.33	0.39	
MW-58	1-May-17	ND	14.36	--	15.33	0.97	
MW-58	14-Aug-17	ND	13.76	--	15.33	1.57	
MW-58	14-Nov-17	14.15	14.29	0.14	15.33	1.17	
MW-58	27-Feb-18	13.37	15.22	1.85	15.33	1.78	
MW-58	18-Jun-18	14.01	14.03	0.02	15.33	1.32	
MW-59	11-Jul-12	ND	22.03	--	29.2	7.17	
MW-59	23-Oct-12	ND	22.56	--	29.2	6.64	
MW-59	18-Jan-13	ND	23.24	--	29.2	5.96	

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MW-59	18-Apr-13	ND	22.1	--	29.2	7.10	
MW-59	15-Jul-13	ND	21.2	--	29.2	8.00	
MW-59	28-Oct-13	ND	21.9	--	29.2	7.30	
MW-59	27-Jan-14	ND	23.06	--	29.2	6.14	
MW-59	7-Apr-14	ND	23.1	--	29.2	6.10	
MW-59	18-Jul-14	ND	20.51	--	29.2	8.69	
MW-59	15-Oct-14	ND	21.63	--	29.2	7.57	
MW-59	4-Feb-15	NM	NM	NM	29.2	NM	Submerged in water
MW-59	29-Apr-15	ND	20.98	--	29.2	8.22	
MW-59	14-Jul-15	ND	21.33	--	29.2	7.87	
MW-59	13-Oct-15	ND	22.34	--	29.2	6.86	
MW-59	9-Nov-15	ND	22.65	--	29.2	6.55	
MW-59	4-Feb-16	ND	23.44	--	29.2	5.76	
MW-59	11-May-16	ND	22.93	--	29.2	6.27	
MW-59	23-Aug-16	ND	23.12	--	29.2	6.08	
MW-59	16-Nov-16	ND	23.54	--	29.2	5.66	
MW-59	24-Feb-17	NM	NM	NM	29.2	NM	Well dry
MW-59	1-May-17	ND	22.46	--	29.2	6.74	
MW-59	14-Aug-17	ND	21.12	--	29.2	8.08	
MW-59	14-Nov-17	ND	22.11	--	29.2	7.09	
MW-59	27-Feb-18	ND	22.46	--	29.2	6.74	
MW-59	18-Jun-18	ND	23.18	--	29.2	6.02	level troll
MW-60D	11-Jul-12	NM	NM	NM	23.48	NM	Well inaccessible
MW-60D	23-Oct-12	NM	NM	NM	23.48	NM	Well inaccessible
MW-60D	18-Jan-13	NM	NM	NM	23.48	NM	Well inaccessible
MW-60D	18-Apr-13	NM	NM	NM	23.48	NM	Under vehicle
MW-60D	15-Jul-13	NM	NM	NM	23.48	NM	Under vehicle
MW-60D	28-Oct-13	NM	NM	NM	23.48	NM	Well inaccessible
MW-60D	27-Jan-14	NM	NM	NM	23.48	NM	Well inaccessible
MW-60D	7-Apr-14	NM	NM	NM	23.48	NM	Well inaccessible
MW-60D	18-Jul-14	NM	NM	NM	23.48	NM	Well inaccessible
MW-60D	15-Oct-14	NM	NM	NM	23.48	NM	Well inaccessible
MW-60D	4-Feb-15	NM	NM	NM	23.48	NM	Under vehicle
MW-60D	30-Apr-15	ND	20.44	--	23.48	3.04	
MW-60D	15-Jul-15	ND	20.21	--	23.48	3.27	
MW-60D	13-Oct-15	NM	NM	NM	23.48	NM	Under vehicle
MW-60D	9-Nov-15	22.35	22.8	0.45	23.48	1.09	
MW-60D	4-Feb-16	ND	21.22	--	23.48	2.26	
MW-60D	11-May-16	22.65	22.68	0.03	23.48	0.83	
MW-60D	23-Aug-16	ND	21.29	--	23.48	2.19	
MW-60D	10-Nov-16	ND	21.27	--	23.48	2.21	
MW-60D	24-Feb-17	ND	21.64	--	23.48	1.84	
MW-60D	1-May-17	ND	21.05	--	23.48	2.43	
MW-60D	14-Aug-17	ND	20.55	--	23.48	2.93	
MW-60D	14-Nov-17	ND	20.88	--	23.48	2.60	
MW-60D	27-Feb-18	ND	21.33	--	23.48	2.15	
MW-60D	18-Jun-18	ND	20.27	--	23.48	3.21	
MW-60S	11-Jul-12	ND	20.22	--	23.08	2.86	
MW-60S	23-Oct-12	22.20	22.22	0.02	23.08	0.88	
MW-60S	18-Jan-13	NM	NM	NM	23.08	NM	Well inaccessible
MW-60S	18-Apr-13	22.60	23	0.40	23.08	0.44	
MW-60S	15-Jul-13	NM	NM	NM	23.08	NM	Under vehicle
MW-60S	28-Oct-13	NM	NM	NM	23.08	NM	Well inaccessible
MW-60S	27-Jan-14	NM	NM	NM	23.08	NM	Well inaccessible
MW-60S	7-Apr-14	NM	NM	NM	23.08	NM	Well inaccessible
MW-60S	18-Jul-14	NM	NM	NM	23.08	NM	Well inaccessible
MW-60S	15-Oct-14	NM	NM	NM	23.08	NM	Well inaccessible
MW-60S	4-Feb-15	22.24	22.8	0.56	23.08	0.79	
MW-60S	30-Apr-15	21.96	22.15	0.19	23.08	1.10	
MW-60S	15-Jul-15	21.50	21.61	0.11	23.08	1.57	
MW-60S	13-Oct-15	21.73	22.02	0.29	23.08	1.32	
MW-60S	10-Nov-15	NM	NM	NM	23.08	NM	Well inaccessible
MW-60S	4-Feb-16	22.56	22.73	0.17	23.08	0.50	
MW-60S	11-May-16	ND	21.25	--	23.08	1.83	
MW-60S	23-Aug-16	22.39	22.96	0.57	23.08	0.64	
MW-60S	10-Nov-16	NM	NM	NM	23.08	NM	Well dry
MW-60S	24-Feb-17	NM	NM	NM	23.08	NM	Well dry
MW-60S	1-May-17	22.45	22.76	0.31	23.08	0.60	

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MW-60S	14-Aug-17	21.93	22.15	0.22	23.08	1.13	
MW-60S	14-Nov-17	22.16	22.59	0.43	23.08	0.88	
MW-60S	27-Feb-18	22.50	NM	NM	23.08	NM	Well dry
MW-60S	18-Jun-18	21.67	21.85	0.18	23.08	1.39	
MW-61	11-Jul-12	14.00	17.45	3.45	15.36	1.00	
MW-61	23-Oct-12	14.22	16.6	2.38	15.36	0.89	
MW-61	18-Jan-13	NM	NM	NM	15.36	NM	Well Inaccessible
MW-61	18-Apr-13	14.80	18	3.20	15.36	0.22	
MW-61	15-Jul-13	14.50	17.98	3.48	15.36	0.49	
MW-61	27-Jan-14	NM	NM	NM	15.36	NM	Well inaccessible
MW-61	7-Apr-14	14.60	17.94	3.34	15.36	0.41	
MW-61	18-Jul-14	13.82	17.3	3.48	15.36	1.17	
MW-61	15-Oct-14	14.20	18	3.80	15.36	0.76	
MW-61	4-Feb-15	NM	NM	NM	15.36	NM	Unable to locate
MW-61	29-Apr-15	14.09	18	3.91	15.36	0.86	
MW-61	14-Jul-15	13.25	17.97	4.72	15.37	1.62	
MW-61	13-Oct-15	NM	NM	NM	15.37	NM	Under vehicle
MW-61	9-Nov-15	14.35	17.95	3.60	15.37	0.64	
MW-61	4-Feb-16	14.52	17.88	3.36	15.37	0.50	
MW-61	11-May-16	14.66	17.99	3.33	15.37	0.36	
MW-61	23-Aug-16	14.64	18.03	3.39	15.37	0.37	
MW-61	10-Nov-16	14.78	16.23	1.45	15.37	0.44	
MW-61	24-Feb-17	15.16	18.02	2.86	15.37	-0.09	
MW-61	1-May-17	14.68	18.05	3.37	15.37	0.34	
MW-61	14-Aug-17	13.96	17.9	3.94	15.37	1.00	
MW-61	14-Nov-17	14.20	18.01	3.81	15.37	0.77	
MW-61	27-Feb-18	14.64	17.07	2.43	15.37	0.48	
MW-61	18-Jun-18	13.80	17.35	3.55	15.37	1.20	
MW-62	11-Jul-12	ND	7.21	--	13.12	5.91	
MW-62	23-Oct-12	NM	NM	NM	13.12	NM	Well Inaccessible
MW-62	18-Jan-13	ND	7.62	--	13.12	5.50	
MW-62	18-Apr-13	ND	10.65	--	13.12	2.47	
MW-62	15-Jul-13	ND	10.47	--	13.12	2.65	
MW-62	28-Oct-13	ND	13.05	--	13.12	0.07	
MW-62	27-Jan-14	ND	9.67	--	13.12	3.45	
MW-62	7-Apr-14	ND	6.34	--	13.12	6.78	
MW-62	18-Jul-14	ND	8.14	--	13.12	4.98	
MW-62	15-Oct-14	ND	12.33	--	13.12	0.79	
MW-62	4-Feb-15	NM	NM	NM	13.12	NM	Unable to locate
MW-62	29-Apr-15	ND	11	--	13.12	2.12	
MW-62	14-Jul-15	ND	8.75	--	13.12	4.37	
MW-62	13-Oct-15	ND	8.11	--	13.12	5.01	
MW-62	10-Nov-15	ND	11.66	--	13.12	1.46	
MW-62	4-Feb-16	ND	6.57	--	13.12	6.55	
MW-62	11-May-16	ND	9.87	--	13.12	3.25	
MW-62	23-Aug-16	ND	10.6	--	13.12	2.52	
MW-62	10-Nov-16	ND	7.17	--	13.12	5.95	
MW-62	24-Feb-17	ND	8.87	--	13.12	4.25	
MW-62	2-May-17	ND	6.31	--	13.12	6.81	
MW-62	14-Aug-17	ND	7.97	--	13.12	5.15	
MW-62	14-Nov-17	ND	7.71	--	13.12	5.41	
MW-62	27-Feb-18	ND	4.33	--	13.12	8.79	
MW-62	18-Jun-18	ND	9.7	--	13.12	3.42	
MW-63	11-Jul-12	21.95	22.1	0.15	23.55	1.59	
MW-63	23-Oct-12	ND	22.21	--	23.55	1.34	
MW-63	18-Jan-13	ND	23	--	23.55	0.55	
MW-63	18-Apr-13	ND	22.92	--	23.55	0.63	
MW-63	15-Jul-13	ND	22.61	--	23.55	0.94	
MW-63	28-Oct-13	ND	23.04	--	23.55	0.51	
MW-63	27-Jan-14	ND	22.87	--	23.55	0.68	
MW-63	7-Apr-14	ND	22.37	--	23.55	1.18	
MW-63	18-Jul-14	ND	21.63	--	23.55	1.92	
MW-63	15-Oct-14	ND	22.28	--	23.55	1.27	
MW-63	4-Feb-15	ND	22.35	--	23.55	1.20	
MW-63	29-Apr-15	ND	21.75	--	23.55	1.80	
MW-63	14-Jul-15	ND	21.44	--	23.55	2.11	
MW-63	13-Oct-15	ND	21.88	--	23.55	1.67	

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MW-63	10-Nov-15	ND	22.31	--	23.55	1.24	
MW-63	4-Feb-16	NM	NM	NM	23.55	NM	Covered by metal sheets
MW-63	11-May-16	ND	22.41	--	23.55	1.14	
MW-63	23-Aug-16	ND	22.43	--	23.55	1.12	
MW-63	10-Nov-16	ND	22.52	--	23.55	1.03	
MW-63	24-Feb-17	NM	NM	NM	23.55	NM	Covered by lumber
MW-63	1-May-17	ND	22.15	--	23.55	1.40	
MW-63	14-Aug-17	ND	21.78	--	23.55	1.77	
MW-63	14-Nov-17	ND	22.05	--	23.55	1.50	
MW-63	27-Feb-18	ND	22.4	--	23.55	1.15	
MW-63	18-Jun-18	ND	21.35	--	23.55	2.20	
MW-64	11-Jul-12	14.90	18.55	3.65	15.4	0.15	
MW-64	23-Oct-12	14.90	23.24	8.34	15.4	-0.29	
MW-64	18-Jan-13	15.55	23.3	7.75	15.4	-0.89	
MW-64	18-Apr-13	15.70	23	7.30	15.4	-0.99	
MW-64	15-Jul-13	15.19	23.2	8.01	15.4	-0.55	
MW-64	28-Oct-13	15.55	23.08	7.53	15.4	-0.87	
MW-64	27-Jan-14	NM	NM	NM	15.4	NM	Flooded
MW-64	7-Apr-14	15.35	23.54	8.19	15.4	-0.73	
MW-64	18-Jul-14	14.80	22	7.20	15.4	-0.08	
MW-64	15-Oct-14	14.95	23.32	8.37	15.4	-0.35	
MW-64	4-Feb-15	15.08	23.3	8.22	15.4	-0.46	
MW-64	29-Apr-15	14.80	23.42	8.62	15.4	-0.22	
MW-64	14-Jul-15	13.71	23.21	9.50	15.4	0.79	
MW-64	13-Oct-15	NM	NM	NM	15.4	NM	Overhead hazard
MW-64	10-Nov-15	14.51	21.9	7.39	15.4	0.19	
MW-64	4-Feb-16	14.77	22.43	7.66	15.4	-0.10	
MW-64	11-May-16	15.20	23.33	8.13	15.4	-0.57	
MW-64	23-Aug-16	15.63	23.42	7.79	15.4	-0.97	
MW-64	10-Nov-16	15.13	23.41	8.28	15.4	-0.52	
MW-64	24-Feb-17	15.72	23.36	7.64	15.4	-1.05	
MW-64	1-May-17	15.14	23.3	8.16	15.4	-0.52	
MW-64	14-Aug-17	NM	NM	NM	15.4	NM	Covered by debris
MW-64	14-Nov-17	NM	NM	NM	15.4	NM	Covered by debris
MW-64	27-Feb-18	15.01	22.81	7.80	15.4	-0.35	
MW-64	18-Jun-18	14.45	ND	8.95	15.4	ND	installed sock
MW-65	11-Jul-12	14.20	24.55	10.35	14.55	-0.66	
MW-65	23-Oct-12	NM	NM	NM	14.55	NM	Well Inaccessible
MW-65	18-Jan-13	NM	NM	NM	14.55	NM	Well Inaccessible
MW-65	18-Apr-13	NM	NM	NM	14.55	NM	Under vehicle
MW-65	15-Jul-13	14.85	24.75	9.90	14.55	-1.26	
MW-65	28-Oct-13	15.06	24.8	9.74	14.55	-1.46	
MW-65	27-Jan-14	NM	NM	NM	14.55	NM	Well inaccessible
MW-65	7-Apr-14	14.57	24.48	9.91	14.55	-0.99	
MW-65	18-Jul-14	14.12	24.8	10.68	14.55	-0.61	
MW-65	15-Oct-14	14.43	23.85	9.42	14.55	-0.80	
MW-65	4-Feb-15	NM	NM	NM	14.55	NM	Under pallet
MW-65	29-Apr-15	14.20	23.87	9.67	14.55	-0.59	
MW-65	14-Jul-15	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	13-Oct-15	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	10-Nov-15	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	4-Feb-16	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	11-May-16	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	23-Aug-16	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	10-Nov-16	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	24-Feb-17	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	1-May-17	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	14-Aug-17	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	14-Nov-17	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	27-Feb-18	14.52	23.8	9.28	14.55	-0.87	
MW-65	18-Jun-18	13.96	24	10.04	14.55	-0.39	bailer in well
MW-66	11-Jul-12	NM	NM	NM	22.65	NM	
MW-66	23-Oct-12	20.01	20.78	0.77	22.65	2.57	
MW-66	18-Jan-13	20.45	22.3	1.85	22.65	2.02	
MW-66	18-Apr-13	20.30	22	1.70	22.65	2.19	
MW-66	15-Jul-13	NM	NM	NM	22.65	NM	Under vehicle
MW-66	28-Oct-13	20.30	21.88	1.58	22.65	2.20	

Table 4
Monitoring Well Gauging Data
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MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-66	27-Jan-14	20.80	22.7	1.90	22.65	1.67	
MW-66	7-Apr-14	20.28	22.18	1.90	22.65	2.19	
MW-66	18-Jul-14	19.55	20.9	1.35	22.65	2.97	
MW-66	15-Oct-14	19.92	21.48	1.56	22.65	2.58	
MW-66	4-Feb-15	20.24	21.84	1.60	22.65	2.26	
MW-66	29-Apr-15	19.75	20.7	0.95	22.65	2.81	
MW-66	14-Jul-15	19.57	20.84	1.27	22.65	2.96	
MW-66	13-Oct-15	19.80	21.29	1.49	22.65	2.71	
MW-66	10-Nov-15	20.20	21.85	1.65	22.65	2.29	
MW-66	4-Feb-16	20.58	22.79	2.21	22.65	1.86	
MW-66	11-May-16	20.46	22.08	1.62	22.65	2.04	
MW-66	23-Aug-16	20.58	22.41	1.83	22.65	1.90	
MW-66	10-Nov-16	20.39	21.98	1.59	22.65	2.11	
MW-66	24-Feb-17	20.86	22.55	1.69	22.65	1.63	
MW-66	1-May-17	20.41	21.86	1.45	22.65	2.10	
MW-66	14-Aug-17	NM	NM	NM	22.65	NM	Covered by scrap metal
MW-66	14-Nov-17	21.00	21.65	0.65	22.65	1.59	
MW-66	27-Feb-18	20.51	22.17	1.66	22.65	1.98	
MW-66	18-Jun-18	19.69	21.01	1.32	22.65	2.83	
MW-67	11-Jul-12	ND	12.99	--	15.6	2.61	
MW-67	23-Oct-12	ND	13.27	--	15.6	2.33	
MW-67	18-Jan-13	ND	13.73	--	15.6	1.87	
MW-67	18-Apr-13	ND	13.54	--	15.6	2.06	
MW-67	15-Jul-13	ND	13.35	--	15.6	2.25	
MW-67	28-Oct-13	13.45	13.85	0.40	15.6	2.11	
MW-67	27-Jan-14	13.90	14.28	0.38	15.6	1.66	
MW-67	7-Apr-14	13.72	13.92	0.20	15.6	1.86	
MW-67	18-Jul-14	12.72	13.7	0.98	15.6	2.79	
MW-67	15-Oct-14	12.98	14.23	1.25	15.6	2.50	
MW-67	4-Feb-15	13.35	14.8	1.45	15.6	2.11	
MW-67	29-Apr-15	12.92	13.31	0.39	15.6	2.64	
MW-67	14-Jul-15	12.64	13.27	0.63	15.6	2.90	
MW-67	13-Oct-15	12.85	13.95	1.10	15.6	2.65	
MW-67	9-Nov-15	13.35	14.53	1.18	15.6	2.14	
MW-67	4-Feb-16	13.47	14.88	1.41	15.6	2.00	
MW-67	11-May-16	13.53	15.08	1.55	15.6	1.92	
MW-67	23-Aug-16	13.66	14.17	0.51	15.6	1.89	
MW-67	10-Nov-16	ND	13.7	--	15.6	1.90	
MW-67	24-Feb-17	14.19	14.2	0.01	15.6	1.41	
MW-67	1-May-17	ND	13.52	--	15.6	2.08	
MW-67	14-Aug-17	13.03	13.22	0.19	15.6	2.55	
MW-67	14-Nov-17	ND	13.32	--	15.6	2.28	
MW-67	27-Feb-18	ND	13.74	--	15.6	1.86	
MW-67	18-Jun-18	ND	12.85	--	15.6	2.75	
MW-68	11-Jul-12	21.29	21.7	0.41	23.78	2.45	
MW-68	23-Oct-12	21.45	21.93	0.48	23.78	2.28	
MW-68	18-Jan-13	21.80	21.85	0.05	23.78	1.98	
MW-68	18-Apr-13	21.68	22.4	0.72	23.78	2.03	
MW-68	15-Jul-13	21.35	22.29	0.94	23.78	2.34	
MW-68	28-Oct-13	21.70	22.58	0.88	23.78	2.00	
MW-68	27-Jan-14	22.16	23.52	1.36	23.78	1.49	
MW-68	7-Apr-14	21.85	22.96	1.11	23.78	1.82	
MW-68	18-Jul-14	20.96	22.15	1.19	23.78	2.71	
MW-68	15-Oct-14	21.30	22.4	1.10	23.78	2.38	
MW-68	4-Feb-15	NM	NM	NM	23.78	NM	No access
MW-68	29-Apr-15	21.07	21.6	0.53	23.78	2.66	
MW-68	14-Jul-15	NM	NM	NM	23.78	NM	No access
MW-68	13-Oct-15	NM	NM	NM	23.78	NM	No access
MW-68	9-Nov-15	NM	NM	NM	23.78	NM	No access
MW-68	4-Feb-16	NM	NM	NM	23.78	NM	No access
MW-68	11-May-16	NM	NM	NM	23.78	NM	No access
MW-68	23-Aug-16	21.78	22.26	0.48	23.78	1.95	
MW-68	10-Nov-16	21.71	22.72	1.01	23.78	1.97	
MW-68	24-Feb-17	22.03	23.52	1.49	23.78	1.61	
MW-68	1-May-17	21.69	22.84	1.15	23.78	1.98	
MW-68	14-Aug-17	NM	NM	NM	23.78	NM	No access
MW-68	27-Feb-18	NM	NM	NM	23.78	NM	No access
MW-68	18-Jun-18	NM	NM	NM	23.78	NM	No access

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MW-69	23-Oct-12	ND	19.27	--	21.58	2.31	
MW-69	24-Jan-13	ND	19.65	--	21.58	1.93	
MW-69	18-Apr-13	ND	19.62	--	21.58	1.96	
MW-69	15-Jul-13	ND	19.1	--	21.58	2.48	
MW-69	28-Oct-13	ND	19.5	--	21.58	2.08	
MW-69	27-Jan-14	ND	20	--	21.58	1.58	
MW-69	7-Apr-14	ND	19.72	--	21.58	1.86	
MW-69	18-Jul-14	NM	NM	NM	21.58	NM	Well inaccessible
MW-69	15-Oct-14	ND	19.18	--	21.58	2.40	
MW-69	4-Feb-15	ND	19.44	--	21.58	2.14	
MW-69	29-Apr-15	ND	18.78	--	21.58	2.80	
MW-69	14-Jul-15	ND	18.66	--	21.58	2.92	
MW-69	13-Oct-15	ND	18.9	--	21.58	2.68	
MW-69	9-Nov-15	ND	19.31	--	21.58	2.27	
MW-69	4-Feb-16	ND	19.39	--	21.58	2.19	
MW-69	11-May-16	ND	19.62	--	21.58	1.96	
MW-69	23-Aug-16	ND	19.59	--	21.58	1.99	
MW-69	10-Nov-16	ND	19.37	--	21.58	2.21	
MW-69	24-Feb-17	ND	19.71	--	21.58	1.87	
MW-69	1-May-17	ND	19.4	--	21.58	2.18	
MW-69	14-Aug-17	ND	19.13	--	21.58	2.45	
MW-69	14-Nov-17	ND	19.11	--	21.58	2.47	
MW-69	27-Feb-18	ND	19.5	--	21.58	2.08	
MW-69	18-Jun-18	ND	18.93	--	21.58	2.65	
BW-1	25-Apr-11	ND	8.27	--	6.34	-1.93	
BW-1	22-Jul-11	ND	8.05	--	6.34	-1.71	
BW-1	18-Oct-11	ND	6.96	--	6.34	-0.62	
BW-1	16-Jan-12	ND	8	--	6.34	-1.66	
BW-1	12-Apr-12	ND	6.14	--	6.34	0.20	
BW-1	12-Jul-12	ND	4.45	--	6.34	1.89	
BW-1	23-Oct-12	ND	6.52	--	6.34	-0.18	
BW-1	18-Jan-13	ND	5.5	--	6.34	0.84	
BW-1	18-Apr-13	ND	8.2	--	6.34	-1.86	
BW-1	15-Jul-13	ND	7.9	--	6.34	-1.56	
BW-1	28-Oct-13	ND	7.49	--	6.34	-1.15	
BW-1	27-Jan-14	NM	NM	NM	6.34	NM	Well inaccessible
BW-1	7-Apr-14	ND	8.31	--	6.34	-1.97	
BW-1	18-Jul-14	ND	6.6	--	6.34	-0.26	
BW-1	15-Oct-14	ND	6.95	--	6.34	-0.61	
BW-1	4-Feb-15	ND	4.81	--	6.34	1.53	
BW-1	29-Apr-15	ND	7.81	--	6.34	-1.47	
BW-1	14-Jul-15	ND	7.56	--	6.34	-1.22	
BW-1	13-Oct-15	ND	3.64	--	6.34	2.70	
BW-1	10-Nov-15	ND	7.85	--	6.34	-1.51	
BW-1	4-Feb-16	ND	8.34	--	6.34	-2.00	
BW-1	11-May-16	ND	9.03	--	6.34	-2.69	
BW-1	23-Aug-16	ND	8.62	--	6.34	-2.28	
BW-1	10-Nov-16	ND	7.45	--	6.34	-1.11	
BW-1	24-Feb-17	ND	8.13	--	6.34	-1.79	
BW-1	1-May-17	ND	8.37	--	6.34	-2.03	
BW-1	14-Aug-17	ND	8.05	--	6.34	-1.71	
BW-1	14-Nov-17	ND	7.57	--	6.34	-1.23	
BW-1	27-Feb-18	ND	8.89	--	6.34	-2.55	
BW-1	18-Jun-18	ND	8.42	--	6.34	-2.08	
BW-2	25-Apr-11	ND	7.94	--	5.69	-2.25	
BW-2	22-Jul-11	ND	7.36	--	5.69	-1.67	
BW-2	18-Oct-11	ND	9.09	--	5.69	-3.40	
BW-2	16-Jan-12	ND	7.8	--	5.69	-2.11	
BW-2	12-Apr-12	ND	5.62	--	5.69	0.07	
BW-2	12-Jul-12	ND	3.78	--	5.69	1.91	
BW-2	23-Oct-12	ND	6.69	--	5.69	-1.00	
BW-2	18-Jan-13	ND	5.6	--	5.69	0.09	
BW-2	18-Apr-13	ND	7.5	--	5.69	-1.81	
BW-2	15-Jul-13	ND	8.4	--	5.69	-2.71	
BW-2	28-Oct-13	ND	6.84	--	5.69	-1.15	
BW-2	27-Jan-14	NM	NM	NM	5.69	NM	Well inaccessible
BW-2	7-Apr-14	NM	NM	NM	5.69	NM	Well inaccessible

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BW-2	18-Jul-14	ND	5.82	--	5.69	-0.13	
BW-2	15-Oct-14	ND	6.35	--	5.69	-0.66	
BW-2	4-Feb-15	ND	4.06	--	5.69	1.63	
BW-2	29-Apr-15	ND	7.22	--	5.69	-1.53	
BW-2	14-Jul-15	ND	6.51	--	5.69	-0.82	
BW-2	13-Oct-15	ND	2.92	--	5.69	2.77	
BW-2	10-Nov-15	ND	6.97	--	5.69	-1.28	
BW-2	4-Feb-16	ND	7.58	--	5.69	-1.89	
BW-2	11-May-16	ND	8.28	--	5.69	-2.59	
BW-2	23-Aug-16	ND	7.79	--	5.69	-2.10	
BW-2	10-Nov-16	ND	6.7	--	5.69	-1.01	
BW-2	24-Feb-17	ND	7.44	--	5.69	-1.75	
BW-2	1-May-17	ND	7.41	--	5.69	-1.72	
BW-2	14-Aug-17	ND	7.14	--	5.69	-1.45	
BW-2	14-Nov-17	ND	6.73	--	5.69	-1.04	
BW-2	27-Feb-18	ND	7.9	--	5.69	-2.21	
BW-2	18-Jun-18	ND	7.53	--	5.69	-1.84	
BW-3	25-Apr-11	ND	7.84	--	6.02	-1.82	
BW-3	22-Jul-11	ND	7.77	--	6.02	-1.75	
BW-3	18-Oct-11	ND	6.6	--	6.02	-0.58	
BW-3	16-Jan-12	ND	7.8	--	6.02	-1.78	
BW-3	12-Apr-12	ND	5.14	--	6.02	0.88	
BW-3	12-Jul-12	ND	4.1	--	6.02	1.92	
BW-3	23-Oct-12	ND	6.42	--	6.02	-0.40	
BW-3	18-Jan-13	ND	6.04	--	6.02	-0.02	
BW-3	18-Apr-13	ND	7.83	--	6.02	-1.81	
BW-3	15-Jul-13	ND	7.5	--	6.02	-1.48	
BW-3	28-Oct-13	ND	7.27	--	6.02	-1.25	
BW-3	27-Jan-14	NM	NM	NM	6.02	NM	Well inaccessible
BW-3	7-Apr-14	ND	7.95	--	6.02	-1.93	
BW-3	18-Jul-14	ND	6	--	6.02	0.02	
BW-3	15-Oct-14	ND	6.97	--	6.02	-0.95	
BW-3	4-Feb-15	ND	4.5	--	6.02	1.52	
BW-3	29-Apr-15	ND	7.52	--	6.02	-1.50	
BW-3	14-Jul-15	ND	7.13	--	6.02	-1.11	
BW-3	13-Oct-15	ND	3.2	--	6.02	2.82	
BW-3	10-Nov-15	ND	7.1	--	6.02	-1.08	
BW-3	4-Feb-16	ND	7.9	--	6.02	-1.88	
BW-3	11-May-16	ND	8.45	--	6.02	-2.43	
BW-3	23-Aug-16	ND	7.82	--	6.02	-1.80	
BW-3	10-Nov-16	ND	6.88	--	6.02	-0.86	
BW-3	24-Feb-17	ND	7.34	--	6.02	-1.32	
BW-3	1-May-17	ND	7.62	--	6.02	-1.60	
BW-3	14-Aug-17	ND	7.47	--	6.02	-1.45	
BW-3	14-Nov-17	ND	6.97	--	6.02	-0.95	
BW-3	27-Feb-18	ND	8.08	--	6.02	-2.06	
BW-3	18-Jun-18	ND	7.77	--	6.02	-1.75	
BW-4	25-Apr-11	ND	7.77	--	5.94	-1.83	
BW-4	22-Jul-11	ND	7.63	--	5.94	-1.69	
BW-4	18-Oct-11	ND	6.3	--	5.94	-0.36	
BW-4	16-Jan-12	ND	7.61	--	5.94	-1.67	
BW-4	12-Apr-12	ND	6.11	--	5.94	-0.17	
BW-4	12-Jul-12	ND	3.86	--	5.94	2.08	
BW-4	23-Oct-12	ND	6.4	--	5.94	-0.46	
BW-4	18-Jan-13	ND	5.77	--	5.94	0.17	
BW-4	18-Apr-13	ND	7.54	--	5.94	-1.60	
BW-4	15-Jul-13	ND	7.21	--	5.94	-1.27	
BW-4	28-Oct-13	ND	7	--	5.94	-1.06	
BW-4	27-Jan-14	NM	NM	NM	5.94	NM	Well inaccessible
BW-4	7-Apr-14	ND	7.55	--	5.94	-1.61	
BW-4	18-Jul-14	ND	5.62	--	5.94	0.32	
BW-4	15-Oct-14	ND	6.78	--	5.94	-0.84	
BW-4	4-Feb-15	ND	4.15	--	5.94	1.79	
BW-4	29-Apr-15	ND	7.2	--	5.94	-1.26	
BW-4	14-Jul-15	ND	6.7	--	5.94	-0.76	
BW-4	13-Oct-15	ND	2.8	--	5.94	3.14	
BW-4	10-Nov-15	ND	6.7	--	5.94	-0.76	
BW-4	4-Feb-16	ND	7.44	--	5.94	-1.50	

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BW-4	11-May-16	ND	8.08	--	5.94	-2.14	
BW-4	23-Aug-16	ND	7.35	--	5.94	-1.41	
BW-4	10-Nov-16	ND	6.51	--	5.94	-0.57	
BW-4	24-Feb-17	ND	7.34	--	5.94	-1.40	
BW-4	1-May-17	ND	7.15	--	5.94	-1.21	
BW-4	14-Aug-17	ND	4.45	--	5.94	1.49	
BW-4	14-Nov-17	ND	6.58	--	5.94	-0.64	
BW-4	27-Feb-18	ND	7.52	--	5.94	-1.58	
BW-4	18-Jun-18	ND	7.31	--	5.94	-1.37	
BW-5	25-Apr-11	ND	7.8	--	6.04	-1.76	
BW-5	22-Jul-11	ND	7.75	--	6.04	-1.71	
BW-5	18-Oct-11	ND	6.47	--	6.04	-0.43	
BW-5	16-Jan-12	ND	7.55	--	6.04	-1.51	
BW-5	12-Apr-12	ND	6.24	--	6.04	-0.20	
BW-5	12-Jul-12	ND	4.09	--	6.04	1.95	
BW-5	23-Oct-12	ND	6.5	--	6.04	-0.46	
BW-5	18-Jan-13	ND	6.08	--	6.04	-0.04	
BW-5	18-Apr-13	ND	7.72	--	6.04	-1.68	
BW-5	15-Jul-13	ND	7.37	--	6.04	-1.33	
BW-5	28-Oct-13	ND	7.38	--	6.04	-1.34	
BW-5	27-Jan-14	NM	NM	NM	6.04	NM	Well inaccessible
BW-5	7-Apr-14	ND	7.75	--	6.04	-1.71	
BW-5	18-Jul-14	ND	6.14	--	6.04	-0.10	
BW-5	15-Oct-14	ND	7.18	--	6.04	-1.14	
BW-5	4-Feb-15	ND	4.55	--	6.04	1.49	
BW-5	29-Apr-15	ND	7.46	--	6.04	-1.42	
BW-5	14-Jul-15	ND	6.95	--	6.04	-0.91	
BW-5	13-Oct-15	ND	3.2	--	6.04	2.84	
BW-5	10-Nov-15	ND	6.98	--	6.04	-0.94	
BW-5	4-Feb-16	ND	7.69	--	6.04	-1.65	
BW-5	11-May-16	ND	8.13	--	6.04	-2.09	
BW-5	23-Aug-16	ND	7.51	--	6.04	-1.47	
BW-5	10-Nov-16	ND	6.83	--	6.04	-0.79	
BW-5	24-Feb-17	ND	7.34	--	6.04	-1.30	
BW-5	1-May-17	ND	7.26	--	6.04	-1.22	
BW-5	14-Aug-17	ND	7.32	--	6.04	-1.28	
BW-5	14-Nov-17	ND	6.8	--	6.04	-0.76	
BW-5	27-Feb-18	ND	7.65	--	6.04	-1.61	
BW-5	18-Jun-18	ND	7.57	--	6.04	-1.53	
BW-6	25-Apr-11	ND	7.7	--	5.94	-1.76	
BW-6	22-Jul-11	ND	7.65	--	5.94	-1.71	
BW-6	18-Oct-11	ND	6.46	--	5.94	-0.52	
BW-6	16-Jan-12	ND	7.62	--	5.94	-1.68	
BW-6	12-Apr-12	ND	6.04	--	5.94	-0.10	
BW-6	12-Jul-12	ND	3.88	--	5.94	2.06	
BW-6	23-Oct-12	ND	6.62	--	5.94	-0.68	
BW-6	18-Jan-13	ND	5.97	--	5.94	-0.03	
BW-6	18-Apr-13	ND	7.56	--	5.94	-1.62	
BW-6	15-Jul-13	ND	7.15	--	5.94	-1.21	
BW-6	28-Oct-13	ND	7.13	--	5.94	-1.19	
BW-6	27-Jan-14	NM	NM	NM	5.94	NM	Well inaccessible
BW-6	7-Apr-14	ND	7.54	--	5.94	-1.60	
BW-6	18-Jul-14	ND	5.85	--	5.94	0.09	
BW-6	15-Oct-14	ND	6.88	--	5.94	-0.94	
BW-6	4-Feb-15	NM	NM	NM	5.94	NM	Frozen Jplug
BW-6	29-Apr-15	ND	7.4	--	5.94	-1.46	
BW-6	14-Jul-15	ND	6.72	--	5.94	-0.78	
BW-6	13-Oct-15	ND	2.88	--	5.94	3.06	
BW-6	10-Nov-15	ND	6.76	--	5.94	-0.82	
BW-6	4-Feb-16	ND	7.7	--	5.94	-1.76	
BW-6	11-May-16	ND	8.24	--	5.94	-2.30	
BW-6	23-Aug-16	ND	7.48	--	5.94	-1.54	
BW-6	10-Nov-16	ND	6.59	--	5.94	-0.65	
BW-6	24-Feb-17	ND	7.57	--	5.94	-1.63	
BW-6	1-May-17	ND	7.25	--	5.94	-1.31	
BW-6	14-Aug-17	ND	7.22	--	5.94	-1.28	
BW-6	14-Nov-17	ND	6.6	--	5.94	-0.66	
BW-6	27-Feb-18	ND	7.76	--	5.94	-1.82	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
BW-6	18-Jun-18	ND	7.65	--	5.94	-1.71	
BW-7	25-Apr-11	ND	7.92	--	6.08	-1.84	
BW-7	22-Jul-11	ND	7.71	--	6.08	-1.63	
BW-7	18-Oct-11	ND	6.47	--	6.08	-0.39	
BW-7	16-Jan-12	ND	7.6	--	6.08	-1.52	
BW-7	12-Apr-12	ND	6.1	--	6.08	-0.02	
BW-7	12-Jul-12	ND	4.85	--	6.08	1.23	
BW-7	23-Oct-12	ND	6.6	--	6.08	-0.52	
BW-7	18-Jan-13	ND	5.96	--	6.08	0.12	
BW-7	18-Apr-13	ND	7.68	--	6.08	-1.60	
BW-7	15-Jul-13	ND	7.3	--	6.08	-1.22	
BW-7	28-Oct-13	ND	7.38	--	6.08	-1.30	
BW-7	27-Jan-14	NM	NM	NM	6.08	NM	Well inaccessible
BW-7	7-Apr-14	ND	7.75	--	6.08	-1.67	
BW-7	18-Jul-14	ND	6.12	--	6.08	-0.04	
BW-7	15-Oct-14	ND	7.1	--	6.08	-1.02	
BW-7	4-Feb-15	ND	4.5	--	6.08	1.58	
BW-7	29-Apr-15	ND	7.46	--	6.08	-1.38	
BW-7	14-Jul-15	ND	6.88	--	6.08	-0.80	
BW-7	13-Oct-15	ND	2.92	--	6.08	3.16	
BW-7	10-Nov-15	ND	6.94	--	6.08	-0.86	
BW-7	4-Feb-16	ND	7.83	--	6.08	-1.75	
BW-7	11-May-16	ND	8.31	--	6.08	-2.23	
BW-7	23-Aug-16	ND	7.61	--	6.08	-1.53	
BW-7	10-Nov-16	ND	6.76	--	6.08	-0.68	
BW-7	24-Feb-17	ND	7.69	--	6.08	-1.61	
BW-7	1-May-17	ND	7.43	--	6.08	-1.35	
BW-7	14-Aug-17	ND	7.33	--	6.08	-1.25	
BW-7	14-Nov-17	ND	6.79	--	6.08	-0.71	
BW-7	27-Feb-18	ND	7.88	--	6.08	-1.80	
BW-7	18-Jun-18	ND	7.79	--	6.08	-1.71	
BW-8	25-Apr-11	ND	7.8	--	5.88	-1.92	
BW-8	22-Jul-11	ND	7.69	--	5.88	-1.81	
BW-8	18-Oct-11	ND	6.55	--	5.88	-0.67	
BW-8	16-Jan-12	ND	7.66	--	5.88	-1.78	
BW-8	12-Apr-12	ND	6.12	--	5.88	-0.24	
BW-8	12-Jul-12	ND	3.85	--	5.88	2.03	
BW-8	23-Oct-12	ND	6.85	--	5.88	-0.97	
BW-8	18-Jan-13	ND	5.5	--	5.88	0.38	
BW-8	18-Apr-13	ND	7.25	--	5.88	-1.37	
BW-8	15-Jul-13	ND	7.12	--	5.88	-1.24	
BW-8	28-Oct-13	ND	7	--	5.88	-1.12	
BW-8	27-Jan-14	NM	NM	NM	5.88	NM	Well inaccessible
BW-8	7-Apr-14	ND	7.55	--	5.88	-1.67	
BW-8	18-Jul-14	ND	6.15	--	5.88	-0.27	
BW-8	15-Oct-14	ND	6.75	--	5.88	-0.87	
BW-8	4-Feb-15	ND	4.17	--	5.88	1.71	
BW-8	29-Apr-15	ND	7.16	--	5.88	-1.28	
BW-8	14-Jul-15	ND	7.48	--	5.88	-1.60	
BW-8	13-Oct-15	ND	2.59	--	5.88	3.29	
BW-8	10-Nov-15	ND	6.54	--	5.88	-0.66	
BW-8	4-Feb-16	ND	7.48	--	5.88	-1.60	
BW-8	11-May-16	ND	7.94	--	5.88	-2.06	
BW-8	23-Aug-16	ND	7.22	--	5.88	-1.34	
BW-8	10-Nov-16	ND	6.35	--	5.88	-0.47	
BW-8	24-Feb-17	ND	7.28	--	5.88	-1.40	
BW-8	1-May-17	ND	6.97	--	5.88	-1.09	
BW-8	14-Aug-17	ND	6.91	--	5.88	-1.03	
BW-8	14-Nov-17	ND	6.35	--	5.88	-0.47	
BW-8	27-Feb-18	ND	7.51	--	5.88	-1.63	
BW-8	18-Jun-18	ND	7.34	--	5.88	-1.46	
BW-9	25-Apr-11	ND	8.05	--	6.3	-1.75	
BW-9	22-Jul-11	ND	7.91	--	6.3	-1.61	
BW-9	18-Oct-11	ND	6.58	--	6.3	-0.28	
BW-9	16-Jan-12	ND	8.06	--	6.3	-1.76	
BW-9	12-Apr-12	ND	6.26	--	6.3	0.04	
BW-9	12-Jul-12	ND	4.26	--	6.3	2.04	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
BW-9	23-Oct-12	ND	7.03	--	6.3	-0.73	
BW-9	18-Jan-13	ND	6.31	--	6.3	-0.01	
BW-9	18-Apr-13	ND	8.8	--	6.3	-2.50	
BW-9	15-Jul-13	ND	7.3	--	6.3	-1.00	
BW-9	28-Oct-13	ND	7.48	--	6.3	-1.18	
BW-9	27-Jan-14	NM	NM	NM	6.3	NM	Well inaccessible
BW-9	7-Apr-14	ND	7.65	--	6.3	-1.35	
BW-9	18-Jul-14	ND	5.85	--	6.3	0.45	
BW-9	15-Oct-14	ND	7.38	--	6.3	-1.08	
BW-9	4-Feb-15	ND	4.69	--	6.3	1.61	
BW-9	29-Apr-15	ND	7.64	--	6.3	-1.34	
BW-9	14-Jul-15	ND	6.68	--	6.3	-0.38	
BW-9	13-Oct-15	ND	3.15	--	6.3	3.15	
BW-9	10-Nov-15	ND	7.11	--	6.3	-0.81	
BW-9	4-Feb-16	ND	7.9	--	6.3	-1.60	
BW-9	11-May-16	ND	8.58	--	6.3	-2.28	
BW-9	23-Aug-16	ND	7.75	--	6.3	-1.45	
BW-9	10-Nov-16	ND	6.91	--	6.3	-0.61	
BW-9	24-Feb-17	ND	7.81	--	6.3	-1.51	
BW-9	1-May-17	ND	7.6	--	6.3	-1.30	
BW-9	14-Aug-17	ND	7.52	--	6.3	-1.22	
BW-9	14-Nov-17	ND	6.94	--	6.3	-0.64	
BW-9	27-Feb-18	ND	8.09	--	6.3	-1.79	
BW-9	18-Jun-18	ND	8.03	--	6.3	-1.73	
BW-10	25-Apr-11	ND	7.95	--	6.13	-1.82	
BW-10	22-Jul-11	ND	7.75	--	6.13	-1.62	
BW-10	18-Oct-11	ND	6.39	--	6.13	-0.26	
BW-10	16-Jan-12	ND	8.04	--	6.13	-1.91	
BW-10	12-Apr-12	ND	6.24	--	6.13	-0.11	
BW-10	12-Jul-12	ND	4.25	--	6.13	1.88	
BW-10	23-Oct-12	ND	7.02	--	6.13	-0.89	
BW-10	18-Jan-13	ND	6.12	--	6.13	0.01	
BW-10	18-Apr-13	ND	7.88	--	6.13	-1.75	
BW-10	15-Jul-13	ND	7.41	--	6.13	-1.28	
BW-10	28-Oct-13	ND	7.53	--	6.13	-1.40	
BW-10	27-Jan-14	NM	NM	NM	6.13	NM	Well inaccessible
BW-10	7-Apr-14	ND	8.05	--	6.13	-1.92	
BW-10	18-Jul-14	ND	6.4	--	6.13	-0.27	
BW-10	15-Oct-14	ND	7.45	--	6.13	-1.32	
BW-10	4-Feb-15	ND	4.81	--	6.13	1.32	
BW-10	29-Apr-15	ND	7.81	--	6.13	-1.68	
BW-10	14-Jul-15	ND	7.22	--	6.13	-1.09	
BW-10	13-Oct-15	ND	3.22	--	6.13	2.91	
BW-10	10-Nov-15	ND	7.41	--	6.13	-1.28	
BW-10	4-Feb-16	ND	8.22	--	6.13	-2.09	
BW-10	11-May-16	ND	8.76	--	6.13	-2.63	
BW-10	23-Aug-16	ND	8.04	--	6.13	-1.91	
BW-10	10-Nov-16	ND	7.19	--	6.13	-1.06	
BW-10	24-Feb-17	ND	8.11	--	6.13	-1.98	
BW-10	1-May-17	ND	7.88	--	6.13	-1.75	
BW-10	14-Aug-17	ND	7.76	--	6.13	-1.63	
BW-10	14-Nov-17	ND	7.3	--	6.13	-1.17	
BW-10	27-Feb-18	ND	8.6	--	6.13	-2.47	
BW-10	18-Jun-18	ND	8.34	--	6.13	-2.21	
BW-11	25-Apr-11	ND	8.14	--	6.28	-1.86	
BW-11	22-Jul-11	ND	7.84	--	6.28	-1.56	
BW-11	18-Oct-11	ND	6.41	--	6.28	-0.13	
BW-11	16-Jan-12	ND	8.18	--	6.28	-1.90	
BW-11	12-Apr-12	ND	6.48	--	6.28	-0.20	
BW-11	12-Jul-12	ND	4.25	--	6.28	2.03	
BW-11	23-Oct-12	ND	7	--	6.28	-0.72	
BW-11	18-Jan-13	ND	6.4	--	6.28	-0.12	
BW-11	18-Apr-13	ND	8	--	6.28	-1.72	
BW-11	15-Jul-13	ND	7.15	--	6.28	-0.87	
BW-11	28-Oct-13	ND	7.75	--	6.28	-1.47	
BW-11	27-Jan-14	NM	NM	NM	6.28	NM	Well inaccessible
BW-11	7-Apr-14	ND	8.18	--	6.28	-1.90	
BW-11	18-Jul-14	ND	6.55	--	6.28	-0.27	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
BW-11	15-Oct-14	ND	7.6	--	6.28	-1.32	
BW-11	4-Feb-15	ND	4.91	--	6.28	1.37	
BW-11	29-Apr-15	ND	7.93	--	6.28	-1.65	
BW-11	14-Jul-15	ND	7.42	--	6.28	-1.14	
BW-11	13-Oct-15	ND	3.34	--	6.28	2.94	
BW-11	10-Nov-15	ND	7.56	--	6.28	-1.28	
BW-11	4-Feb-16	ND	8.48	--	6.28	-2.20	
BW-11	11-May-16	ND	8.99	--	6.28	-2.71	
BW-11	23-Aug-16	ND	8.27	--	6.28	-1.99	
BW-11	10-Nov-16	ND	7.37	--	6.28	-1.09	
BW-11	24-Feb-17	ND	8.26	--	6.28	-1.98	
BW-11	1-May-17	ND	8.1	--	6.28	-1.82	
BW-11	14-Aug-17	ND	7.6	--	6.28	-1.32	
BW-11	14-Nov-17	ND	7.53	--	6.28	-1.25	
BW-11	27-Feb-18	ND	8.91	--	6.28	-2.63	
BW-11	18-Jun-18	ND	8.54	--	6.28	-2.26	
BW-12	25-Apr-11	ND	8.32	--	6.41	-1.91	
BW-12	22-Jul-11	ND	7.96	--	6.41	-1.55	
BW-12	18-Oct-11	ND	6.3	--	6.41	0.11	
BW-12	16-Jan-12	ND	8.27	--	6.41	-1.86	
BW-12	12-Apr-12	ND	6.59	--	6.41	-0.18	
BW-12	12-Jul-12	ND	4.4	--	6.41	2.01	
BW-12	23-Oct-12	ND	7.24	--	6.41	-0.83	
BW-12	18-Jan-13	ND	6.42	--	6.41	-0.01	
BW-12	18-Apr-13	ND	8.19	--	6.41	-1.78	
BW-12	15-Jul-13	ND	7.38	--	6.41	-0.97	
BW-12	28-Oct-13	ND	7.84	--	6.41	-1.43	
BW-12	27-Jan-14	NM	NM	NM	6.41	NM	Well inaccessible
BW-12	7-Apr-14	ND	8.28	--	6.41	-1.87	
BW-12	18-Jul-14	ND	6.78	--	6.41	-0.37	
BW-12	15-Oct-14	ND	7.66	--	6.41	-1.25	
BW-12	4-Feb-15	ND	5.14	--	6.41	1.27	
BW-12	29-Apr-15	ND	8.06	--	6.41	-1.65	
BW-12	14-Jul-15	ND	7.65	--	6.41	-1.24	
BW-12	13-Oct-15	ND	3.35	--	6.41	3.06	
BW-12	10-Nov-15	ND	7.83	--	6.41	-1.42	
BW-12	4-Feb-16	ND	8.63	--	6.41	-2.22	
BW-12	11-May-16	ND	9.16	--	6.41	-2.75	
BW-12	23-Aug-16	ND	8.5	--	6.41	-2.09	
BW-12	10-Nov-16	ND	8.59	--	6.41	-2.18	
BW-12	24-Feb-17	ND	8.46	--	6.41	-2.05	
BW-12	1-May-17	ND	8.29	--	6.41	-1.88	
BW-12	14-Aug-17	ND	8.18	--	6.41	-1.77	
BW-12	14-Nov-17	ND	7.74	--	6.41	-1.33	
BW-12	27-Feb-18	ND	9.24	--	6.41	-2.83	
BW-12	18-Jun-18	ND	8.72	--	6.41	-2.31	

Notes:

ND = Non-detect

NM = Not measured

WM = Waste Management (Parcel A Owner)

LNAPL = Light Non-Aqueous Phase Liquid

1. Top of casing and groundwater elevations are presented in feet as referenced to the North American Datum of 1988 (NAVD88)
2. Water table elevations in wells with LNAPL are modified according to the following formula:
   (top of casing elevation - depth to water) + (specific gravity * LNAPL thickness).
3. Monitoring Wells located within Parcel A were resurveyed on September 9 and 30, 2015 due to regrading of the Parcel.
   Top of casing elevation for each Parcel A monitoring well was modified based on approximate timeframe of regrading for that well.

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-1	MW-1	MW-8	MW-10	MW-11R	MW-13
			Sample Date:	06/19/2018	06/19/2018	06/20/2018	06/19/2018	06/20/2018	06/19/2018
			Normal or Field Duplicate:	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units						
1,1,1-Trichloroethane (TCA)	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
1,1,2-Trichloroethane	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	5	--	µg/L	4	4	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	--	50	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
Acetone	--	50	µg/L	6 U	6 U	6 U	6 U	6 U	6 U
Benzene	1	--	µg/L	**5**	**5**	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	5	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	--	60	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	5	--	µg/L	0.5 U	0.8 J	2	0.5 U	0.5 U	0.5 U
Chloroform	7	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethylene	5	--	µg/L	1	0.9 J	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,3-Dichloropropene	--	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	--	µg/L	4 J	4 J	2 U	2 U	2 U	2 U
Dibromochloromethane	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-1	MW-1	MW-8	MW-10	MW-11R	MW-13
			Sample Date:	06/19/2018	06/19/2018	06/20/2018	06/19/2018	06/20/2018	06/19/2018
			Normal or Field Duplicate:	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units						
Isopropylbenzene (Cumene)	5	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Acetate	--	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Ethyl Ketone (2-Butanone)	--	50	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
Methylcyclohexane	--	--	µg/L	2 J	2 J	1 U	1 U	1 U	1 U
Methylene Chloride	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
O-Xylene (1,2-Dimethylbenzene)	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	5	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Tert-Butyl Methyl Ether	--	10	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethylene (PCE)	5	--	µg/L	0.6 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethylene (TCE)	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	2	--	µg/L	2	2	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units	MW-20	MW-21	MW-31	MW-46	MW-52	MW-59
Sample Designation:				MW-20	MW-21	MW-31	MW-46	MW-52	MW-59
Sample Date:				06/22/2018	06/21/2018	06/21/2018	06/20/2018	06/20/2018	06/21/2018
Normal or Field Duplicate:				N	N	N	N	N	N
1,1,1-Trichloroethane (TCA)	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	µg/L	2 U	2 U	2 U	10 U	2 U	2 U
1,1,2-Trichloroethane	1	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
1,1-Dichloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
1,1-Dichloroethene	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5	--	µg/L	1 U	1 U	1 U	5 U	1 U	1 U
1,2,4-Trichlorobenzene	5	--	µg/L	1 U	1 U	1 U	5 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	--	µg/L	2 U	2 U	2 U	10 U	2 U	2 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
1,2-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	5 U	1 U	1 U
1,2-Dichloroethane	0.6	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
1,2-Dichloropropane	1	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
1,3-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	5 U	1 U	1 U
1,4-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	5 U	1 U	1 U
2-Hexanone	--	50	µg/L	3 U	3 U	3 U	15 U	3 U	3 U
Acetone	--	50	µg/L	6 U	6 U	6 U	30 U	6 U	6 U
Benzene	1	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Bromochloromethane	5	--	µg/L	1 U	1 U	1 U	5 U	1 U	1 U
Bromodichloromethane	--	50	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Bromoform	--	50	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Bromomethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Carbon Disulfide	--	60	µg/L	1 U	1 U	1 U	5 U	1 U	1 U
Carbon Tetrachloride	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Chlorobenzene	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Chloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Chloroform	7	--	µg/L	0.5 U	0.5 U	0.5 U	**30**	0.5 U	0.5 U
Chloromethane	--	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Cis-1,2-Dichloroethylene	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Cis-1,3-Dichloropropene	--	5	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Cyclohexane	--	--	µg/L	2 U	2 U	2 U	10 U	2 U	2 U
Dibromochloromethane	--	50	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Ethylbenzene	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-20	MW-21	MW-31	MW-46	MW-52	MW-59
			Sample Date:	06/22/2018	06/21/2018	06/21/2018	06/20/2018	06/20/2018	06/21/2018
			Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units						
Isopropylbenzene (Cumene)	5	--	µg/L	1 U	1 U	1 U	5 U	1 U	1 U
m,p-Xylene	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Methyl Acetate	--	--	µg/L	1 U	1 U	1 U	5 U	1 U	1 U
Methyl Ethyl Ketone (2-Butanone)	--	50	µg/L	3 U	3 U	3 U	15 U	3 U	3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	µg/L	3 U	3 U	3 U	15 U	3 U	3 U
Methylcyclohexane	--	--	µg/L	1 U	1 U	1 U	5 U	1 U	1 U
Methylene Chloride	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
O-Xylene (1,2-Dimethylbenzene)	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Styrene	5	--	µg/L	1 U	1 U	1 U	5 U	1 U	1 U
Tert-Butyl Methyl Ether	--	10	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Tetrachloroethylene (PCE)	5	--	µg/L	0.5 U	4	0.5 U	3 U	0.5 U	0.5 U
Toluene	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	--	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Trichloroethylene (TCE)	5	--	µg/L	0.5 U	2	0.5 U	3 U	0.5 U	0.5 U
Trichlorofluoromethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Vinyl Chloride	2	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U
Xylenes	5	--	µg/L	0.5 U	0.5 U	0.5 U	3 U	0.5 U	0.5 U

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-60D	MW-62	MW-69	Field Blank	Field Blank	Trip Blank
			Sample Date:	06/21/2018	06/20/2018	06/22/2018	06/20/2018	06/22/2018	06/13/2018
			Normal or Field Duplicate:	N	N	N	FB	FB	TB
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units						
1,1,1-Trichloroethane (TCA)	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
1,1,2-Trichloroethane	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	--	50	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
Acetone	--	50	µg/L	6 U	6 U	6 U	6 U	6 U	6 U
Benzene	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	5	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	--	50	µg/L	0.5 U	0.5 U	3	0.5 U	0.5 U	0.5 U
Bromoform	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	--	60	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	7	--	µg/L	0.5 U	0.5 U	**40**	0.5 U	0.5 U	0.5 U
Chloromethane	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethylene	5	--	µg/L	0.5 U	2	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,3-Dichloropropene	--	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
Dibromochloromethane	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-60D	MW-62	MW-69	Field Blank	Field Blank	Trip Blank
			Sample Date:	06/21/2018	06/20/2018	06/22/2018	06/20/2018	06/22/2018	06/13/2018
			Normal or Field Duplicate:	N	N	N	FB	FB	TB
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units						
Isopropylbenzene (Cumene)	5	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Acetate	--	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Ethyl Ketone (2-Butanone)	--	50	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
Methylcyclohexane	--	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
O-Xylene (1,2-Dimethylbenzene)	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	5	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Tert-Butyl Methyl Ether	--	10	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethylene (PCE)	5	--	µg/L	0.5 U	2	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethylene (TCE)	5	--	µg/L	0.5 U	2	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	2	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	Trip Blank
			Sample Date:	06/13/2018
			Normal or Field Duplicate:	TB
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units	
1,1,1-Trichloroethane (TCA)	5	--	µg/L	0.5 U
1,1,2,2-Tetrachloroethane	5	--	µg/L	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	µg/L	2 U
1,1,2-Trichloroethane	1	--	µg/L	0.5 U
1,1-Dichloroethane	5	--	µg/L	0.5 U
1,1-Dichloroethene	5	--	µg/L	0.5 U
1,2,3-Trichlorobenzene	5	--	µg/L	1 U
1,2,4-Trichlorobenzene	5	--	µg/L	1 U
1,2-Dibromo-3-Chloropropane	0.04	--	µg/L	2 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	µg/L	0.5 U
1,2-Dichlorobenzene	3	--	µg/L	1 U
1,2-Dichloroethane	0.6	--	µg/L	0.5 U
1,2-Dichloropropane	1	--	µg/L	0.5 U
1,3-Dichlorobenzene	3	--	µg/L	1 U
1,4-Dichlorobenzene	3	--	µg/L	1 U
2-Hexanone	--	50	µg/L	3 U
Acetone	--	50	µg/L	6 U
Benzene	1	--	µg/L	0.5 U
Bromochloromethane	5	--	µg/L	1 U
Bromodichloromethane	--	50	µg/L	0.5 U
Bromoform	--	50	µg/L	0.5 U
Bromomethane	5	--	µg/L	0.5 U
Carbon Disulfide	--	60	µg/L	1 U
Carbon Tetrachloride	5	--	µg/L	0.5 U
Chlorobenzene	5	--	µg/L	0.5 U
Chloroethane	5	--	µg/L	0.5 U
Chloroform	7	--	µg/L	0.5 U
Chloromethane	--	--	µg/L	0.5 U
Cis-1,2-Dichloroethylene	5	--	µg/L	0.5 U
Cis-1,3-Dichloropropene	--	5	µg/L	0.5 U
Cyclohexane	--	--	µg/L	2 U
Dibromochloromethane	--	50	µg/L	0.5 U
Dichlorodifluoromethane	5	--	µg/L	0.5 U
Ethylbenzene	5	--	µg/L	0.5 U

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	**Trip Blank**
			Sample Date:	**06/13/2018**
			Normal or Field Duplicate:	**TB**
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units	
Isopropylbenzene (Cumene)	5	--	µg/L	1 U
m,p-Xylene	5	--	µg/L	0.5 U
Methyl Acetate	--	--	µg/L	1 U
Methyl Ethyl Ketone (2-Butanone)	--	50	µg/L	3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	µg/L	3 U
Methylcyclohexane	--	--	µg/L	1 U
Methylene Chloride	5	--	µg/L	0.5 U
O-Xylene (1,2-Dimethylbenzene)	5	--	µg/L	0.5 U
Styrene	5	--	µg/L	1 U
Tert-Butyl Methyl Ether	--	10	µg/L	0.5 U
Tetrachloroethylene (PCE)	5	--	µg/L	0.5 U
Toluene	5	--	µg/L	0.5 U
Trans-1,2-Dichloroethene	5	--	µg/L	0.5 U
Trans-1,3-Dichloropropene	--	--	µg/L	0.5 U
Trichloroethylene (TCE)	5	--	µg/L	0.5 U
Trichlorofluoromethane	5	--	µg/L	0.5 U
Vinyl Chloride	2	--	µg/L	0.5 U
Xylenes	5	--	µg/L	0.5 U

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-1	MW-1	MW-8	MW-10	MW-11R	MW-13
			Sample Date:	06/19/2018	06/19/2018	06/20/2018	06/19/2018	06/20/2018	06/19/2018
			Normal or Field Duplicate:	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units						
1,2,4,5-Tetrachlorobenzene	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dioxane (P-Dioxane)	--	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
2,2-Oxybis(2-Chloropropane)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,3,4,6-Tetrachlorophenol	--	--	µg/L	4 U	4 U	4 U	4 U	4 U	4 U
2,4,5-Trichlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,6-Trichlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dichlorophenol	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dimethylphenol	--	50	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
2,4-Dinitrophenol	--	10	µg/L	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene	5	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
2,6-Dinitrotoluene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chloronaphthalene	--	10	µg/L	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Methylnaphthalene	--	--	µg/L	0.1 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-Methylphenol (O-Cresol)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitroaniline	5	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
2-Nitrophenol	--	--	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
3,3'-Dichlorobenzidine	5	--	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
3-Nitroaniline	5	--	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
4,6-Dinitro-2-Methylphenol	--	--	µg/L	8 U	8 U	8 U	8 U	8 U	8 U
4-Bromophenyl Phenyl Ether	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloro-3-Methylphenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloroaniline	5	--	µg/L	4 U	4 U	4 U	4 U	4 U	4 U
4-Chlorophenyl Phenyl Ether	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methylphenol (P-Cresol)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitroaniline	5	--	µg/L	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
4-Nitrophenol	--	--	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	--	20	µg/L	0.5 J	0.4 J	0.1 U	0.1 U	0.1 U	0.1 U
Acenaphthylene	--	20	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acetophenone	--	--	µg/L	4 U	4 U	4 U	4 U	4 U	4 U
Anthracene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.2 J
Atrazine	--	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
Benzaldehyde	--	--	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
Benzo(A)Anthracene	--	0.002	µg/L	**0.2 J**	**0.2 J**	0.1 U	0.1 U	0.1 U	0.1 U

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-1	MW-1	MW-8	MW-10	MW-11R	MW-13
			Sample Date:	06/19/2018	06/19/2018	06/20/2018	06/19/2018	06/20/2018	06/19/2018
			Normal or Field Duplicate:	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units						
Benzo(A)Pyrene	0	--	µg/L	**0.1 J**	**0.2 J**	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(B)Fluoranthene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(G,H,I)Perylene	--	--	µg/L	0.1 J	0.1 J	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(K)Fluoranthene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzyl Butyl Phthalate	--	50	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
Biphenyl (Diphenyl)	--	--	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
Bis(2-Chloroethoxy) Methane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Ethylhexyl) Phthalate	5	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Caprolactam	--	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Carbazole	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chrysene	--	0.002	µg/L	0.1 U	**0.5**	0.1 U	0.1 U	0.1 U	0.1 U
Dibenz(A,H)Anthracene	--	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibenzofuran	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diethyl Phthalate	--	50	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
Dimethyl Phthalate	--	50	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
Di-N-Butyl Phthalate	50	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
Di-N-Octylphthalate	--	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	--	50	µg/L	0.1 U	0.1 J	0.1 U	0.1 U	0.1 U	0.2 J
Fluorene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Hexachlorobenzene	0.04	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Hexachlorobutadiene	0.5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Hexachloroethane	5	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Indeno(1,2,3-C,D)Pyrene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Isophorone	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	--	10	µg/L	0.2 J	0.1 U	0.1 J	0.1 U	0.1 U	0.1 U
Nitrobenzene	0.4	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
N-Nitrosodi-N-Propylamine	--	--	µg/L	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
N-Nitrosodiphenylamine	--	50	µg/L	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Pentachlorophenol	1	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Phenanthrene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenol	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pyrene	--	50	µg/L	0.5 J	0.5 J	0.4 J	0.2 J	0.4 J	0.2 J

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-20	MW-21	MW-31	MW-46	MW-52	MW-59
			Sample Date:	06/22/2018	06/21/2018	06/21/2018	06/20/2018	06/20/2018	06/21/2018
			Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units						
1,2,4,5-Tetrachlorobenzene	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dioxane (P-Dioxane)	--	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
2,2-Oxybis(2-Chloropropane)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,3,4,6-Tetrachlorophenol	--	--	µg/L	4 U	4 U	4 U	4 U	4 U	4 U
2,4,5-Trichlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,6-Trichlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dichlorophenol	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dimethylphenol	--	50	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
2,4-Dinitrophenol	--	10	µg/L	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene	5	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
2,6-Dinitrotoluene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chloronaphthalene	--	10	µg/L	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Methylnaphthalene	--	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-Methylphenol (O-Cresol)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitroaniline	5	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
2-Nitrophenol	--	--	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
3,3'-Dichlorobenzidine	5	--	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
3-Nitroaniline	5	--	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
4,6-Dinitro-2-Methylphenol	--	--	µg/L	8 U	8 U	8 U	8 U	8 U	8 U
4-Bromophenyl Phenyl Ether	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloro-3-Methylphenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloroaniline	5	--	µg/L	4 U	4 U	4 U	4 U	4 U	4 U
4-Chlorophenyl Phenyl Ether	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methylphenol (P-Cresol)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitroaniline	5	--	µg/L	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
4-Nitrophenol	--	--	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	--	20	µg/L	0.1 U	0.1 U	0.3 J	0.1 U	0.1 U	0.1 U
Acenaphthylene	--	20	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acetophenone	--	--	µg/L	4 U	4 U	4 U	4 U	4 U	4 U
Anthracene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Atrazine	--	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
Benzaldehyde	--	--	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
Benzo(A)Anthracene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	**0.2 J**	0.1 U	0.1 U

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-20	MW-21	MW-31	MW-46	MW-52	MW-59
			Sample Date:	06/22/2018	06/21/2018	06/21/2018	06/20/2018	06/20/2018	06/21/2018
			Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units						
Benzo(A)Pyrene	0	--	µg/L	0.1 U	0.1 U	0.1 U	**0.3 J**	0.1 U	0.1 U
Benzo(B)Fluoranthene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	**0.2 J**	0.1 U	0.1 U
Benzo(G,H,I)Perylene	--	--	µg/L	0.1 U	0.1 U	0.1 U	0.3 J	0.1 U	0.1 U
Benzo(K)Fluoranthene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzyl Butyl Phthalate	--	50	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
Biphenyl (Diphenyl)	--	--	µg/L	3 U	3 U	3 U	3 U	3 U	3 U
Bis(2-Chloroethoxy) Methane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Ethylhexyl) Phthalate	5	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Caprolactam	--	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Carbazole	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chrysene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	**0.5 J**	0.1 U	0.1 U
Dibenz(A,H)Anthracene	--	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 J	0.1 U	0.1 U
Dibenzofuran	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diethyl Phthalate	--	50	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
Dimethyl Phthalate	--	50	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
Di-N-Butyl Phthalate	50	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
Di-N-Octylphthalate	--	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Fluorene	--	50	µg/L	0.1 U	0.1 U	0.4 J	0.1 U	0.1 U	0.1 U
Hexachlorobenzene	0.04	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Hexachlorobutadiene	0.5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Hexachloroethane	5	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Indeno(1,2,3-C,D)Pyrene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Isophorone	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	--	10	µg/L	0.1 U	0.1 U	0.1 J	0.1 U	0.1 U	0.1 U
Nitrobenzene	0.4	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
N-Nitrosodi-N-Propylamine	--	--	µg/L	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
N-Nitrosodiphenylamine	--	50	µg/L	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Pentachlorophenol	1	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Phenanthrene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenol	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pyrene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.2 J	0.3 J	0.1 U

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-60D	MW-62	MW-69	Field Blank	Field Blank
			Sample Date:	06/21/2018	06/20/2018	06/22/2018	06/20/2018	06/22/2018
			Normal or Field Duplicate:	N	N	N	FB	FB
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
1,2,4,5-Tetrachlorobenzene	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dioxane (P-Dioxane)	--	--	µg/L	2 U	2 U	2 U	2 U	2 U
2,2-Oxybis(2-Chloropropane)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,3,4,6-Tetrachlorophenol	--	--	µg/L	4 U	4 U	4 U	4 U	4 U
2,4,5-Trichlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,6-Trichlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dichlorophenol	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dimethylphenol	--	50	µg/L	3 U	3 U	3 U	3 U	3 U
2,4-Dinitrophenol	--	10	µg/L	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene	5	--	µg/L	1 U	1 U	1 U	1 U	1 U
2,6-Dinitrotoluene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chloronaphthalene	--	10	µg/L	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Methylnaphthalene	--	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-Methylphenol (O-Cresol)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitroaniline	5	--	µg/L	2 U	2 U	2 U	2 U	2 U
2-Nitrophenol	--	--	µg/L	3 U	3 U	3 U	3 U	3 U
3,3'-Dichlorobenzidine	5	--	µg/L	3 U	3 U	3 U	3 U	3 U
3-Nitroaniline	5	--	µg/L	3 U	3 U	3 U	3 U	3 U
4,6-Dinitro-2-Methylphenol	--	--	µg/L	8 U	8 U	8 U	8 U	8 U
4-Bromophenyl Phenyl Ether	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloro-3-Methylphenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloroaniline	5	--	µg/L	4 U	4 U	4 U	4 U	4 U
4-Chlorophenyl Phenyl Ether	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methylphenol (P-Cresol)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitroaniline	5	--	µg/L	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
4-Nitrophenol	--	--	µg/L	10 U	10 U	10 U	10 U	10 U
Acenaphthene	--	20	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acenaphthylene	--	20	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acetophenone	--	--	µg/L	4 U	4 U	4 U	4 U	4 U
Anthracene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Atrazine	--	--	µg/L	2 U	2 U	2 U	2 U	2 U
Benzaldehyde	--	--	µg/L	3 U	3 U	3 U	3 U	3 U
Benzo(A)Anthracene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-60D	MW-62	MW-69	Field Blank	Field Blank
			Sample Date:	06/21/2018	06/20/2018	06/22/2018	06/20/2018	06/22/2018
			Normal or Field Duplicate:	N	N	N	FB	FB
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
Benzo(A)Pyrene	0	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(B)Fluoranthene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(G,H,I)Perylene	--	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(K)Fluoranthene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzyl Butyl Phthalate	--	50	µg/L	2 U	2 U	2 U	2 U	2 U
Biphenyl (Diphenyl)	--	--	µg/L	3 U	3 U	3 U	3 U	3 U
Bis(2-Chloroethoxy) Methane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Ethylhexyl) Phthalate	5	--	µg/L	5 U	5 U	5 U	5 U	5 U
Caprolactam	--	--	µg/L	5 U	5 U	5 U	5 U	5 U
Carbazole	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chrysene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibenz(A,H)Anthracene	--	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibenzofuran	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diethyl Phthalate	--	50	µg/L	2 U	2 U	2 U	2 U	2 U
Dimethyl Phthalate	--	50	µg/L	2 U	2 U	2 U	2 U	2 U
Di-N-Butyl Phthalate	50	--	µg/L	2 U	2 U	2 U	2 U	2 U
Di-N-Octylphthalate	--	--	µg/L	5 U	5 U	5 U	5 U	5 U
Fluoranthene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Fluorene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Hexachlorobenzene	0.04	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Hexachlorobutadiene	0.5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5	--	µg/L	5 U	5 U	5 U	5 U	5 U
Hexachloroethane	5	--	µg/L	1 U	1 U	1 U	1 U	1 U
Indeno(1,2,3-C,D)Pyrene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Isophorone	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	--	10	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nitrobenzene	0.4	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
N-Nitrosodi-N-Propylamine	--	--	µg/L	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
N-Nitrosodiphenylamine	--	50	µg/L	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Pentachlorophenol	1	--	µg/L	1 U	1 U	1 U	1 U	1 U
Phenanthrene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenol	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pyrene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

Table 7. Summary of Metals in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-1	MW-1	MW-8	MW-10	MW-11R	MW-13	MW-20	MW-21
			Sample Date:	06/19/2018	06/19/2018	06/20/2018	06/19/2018	06/20/2018	06/19/2018	06/22/2018	06/21/2018
			Normal or Field Duplicate:	N	FD	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units								
Aluminum	--	--	µg/L	89.4 U	89.4 U	89.4 U	89.4 U	89.4 U	89.4 U	153 U	153 U
Antimony	3	--	µg/L	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	10 U	10 U
Arsenic	25	--	µg/L	9.6 U	9.6 U	9.6 U	**41.1**	9.6 U	9.6 U	16 U	16 U
Barium	1000	--	µg/L	306	325	66.8	150	67.9	702	120	125
Beryllium	--	3	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	1 U	1 U
Cadmium	5	--	µg/L	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1 U	1 U
Calcium	--	--	µg/L	243000	256000	208000	108000	223000	217000	75200	101000
Chromium, Total	50	--	µg/L	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	6.2 U	6.2 U
Cobalt	--	--	µg/L	1.7 U	1.7 U	2.7 J	1.7 U	2.7 J	1.7 U	2.6 J	1.5 U
Copper	200	--	µg/L	4 U	4 U	4 U	4 U	4 U	4 U	6.2 U	4 U
Iron	300	--	µg/L	**696**	**1060**	170 J	**16500**	80.5 U	**2600**	**1540**	49.4 J
Lead	25	--	µg/L	6 U	6 U	6 U	6 U	6 U	13.2 J	7.1 U	16.9 J
Magnesium	--	35000	µg/L	18700	19700	**525000**	**50000**	**526000**	21400	28200	34800
Manganese	300	--	µg/L	**1750**	**1860**	121	**423**	180	**302**	**689**	1.1 U
Mercury	0.7	--	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.09 J	0.088 J
Nickel	100	--	µg/L	4 U	4 U	4 U	4 U	4 U	4 U	3.1 U	3.1 U
Potassium	--	--	µg/L	19400	20700	206000	21800	195000	29100	2560	2600
Selenium	10	--	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	21 U	21 U
Silver	50	--	µg/L	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	5 U	5 U
Sodium	20000	--	µg/L	**362000**	**375000**	**5090000**	**371000**	**4790000**	**156000**	**61300**	**51800**
Thallium	--	0.5	µg/L	13.7 U	13.7 U	13.7 U	13.7 U	13.7 U	13.7 U	14 U	14 U
Vanadium	--	--	µg/L	1.6 U	1.6 U	1.6 U	1.7 J	1.6 U	2.1 J	3 U	3 U
Zinc	--	2000	µg/L	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	50.5	3 U	3 U

Table 7. Summary of Metals in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-31	MW-46	MW-52	MW-59	MW-60D	MW-62	MW-69	Field Blank
			Sample Date:	06/21/2018	06/20/2018	06/20/2018	06/21/2018	06/21/2018	06/20/2018	06/22/2018	06/20/2018
			Normal or Field Duplicate:	N	N	N	N	N	N	N	FB
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units								
Aluminum	--	--	µg/L	153 U	404 J	89.4 U	153 U	153 U	483 J	172 J	89.4 U
Antimony	3	--	µg/L	10 U	8.7 U	8.7 U	10 U	10 U	8.7 U	10 U	8.7 U
Arsenic	25	--	µg/L	16 U	9.6 U	9.6 U	16 U	16 U	9.6 U	16 U	9.6 U
Barium	1000	--	µg/L	413	9 J	95.9	221	246	110	26.8	0.85 U
Beryllium	--	3	µg/L	1 U	2 U	2 U	1 U	1 U	2 U	1 U	2 U
Cadmium	5	--	µg/L	1 U	1.8 U	1.8 U	1 U	1 U	**23.8**	1 U	1.8 U
Calcium	--	--	µg/L	462000	15500	200000	158000	184000	46000	28000	60 U
Chromium, Total	50	--	µg/L	6.2 U	3.3 U	3.3 U	6.2 U	6.2 U	3.3 U	6.2 U	3.3 U
Cobalt	--	--	µg/L	2.5 J	1.7 U	2.4 J	1.5 U	1.5 U	1.7 U	1.5 U	1.7 U
Copper	200	--	µg/L	4 U	5.1 J	4 U	4 U	4 U	13.4 J	6.2 U	4 U
Iron	300	--	µg/L	**22800**	**302 J**	**658**	40 U	81.9 J	**8670**	141 J	80.5 U
Lead	25	--	µg/L	**74.3**	6.3 J	6 J	7.1 U	**32.8**	6 U	7.1 U	6 U
Magnesium	--	35000	µg/L	**61900**	2370	**406000**	**39800**	**63300**	4640	6390	37.4 U
Manganese	300	--	µg/L	**2630**	5.6 J	127	**2830**	17.7 J	85.9	21.1 J	1.6 U
Mercury	0.7	--	µg/L	0.072 J	0.05 U	0.05 U	0.05 U	0.081 J	0.05 U	0.087 J	0.05 U
Nickel	100	--	µg/L	4 J	4 U	6.5 J	4.4 J	3.1 U	5.5 J	3.1 U	4 U
Potassium	--	--	µg/L	78600	2600	154000	5730	3920	5940	1080	314 J
Selenium	10	--	µg/L	21 U	9.3 U	9.3 U	21 U	21 U	9.3 U	21 U	9.3 U
Silver	50	--	µg/L	5 U	2.4 U	2.4 U	5 U	5 U	2.4 U	5 U	2.4 U
Sodium	20000	--	µg/L	**475000**	17300	**3500000**	**231000**	**116000**	**30800**	**28300**	336 J
Thallium	--	0.5	µg/L	14 U	13.7 U	13.7 U	14 U	14 U	13.7 U	14 U	13.7 U
Vanadium	--	--	µg/L	3 U	3.9 J	1.6 U	3 U	3 U	1.9 J	3 U	1.6 U
Zinc	--	2000	µg/L	13.9 J	7.9 J	23.1 J	6.9 J	3.2 J	125	3.7 J	6.5 U

Table 7. Summary of Metals in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	Field Blank
			Sample Date:	06/22/2018
			Normal or Field Duplicate:	FB
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units	
Aluminum	--	--	µg/L	153 U
Antimony	3	--	µg/L	10 U
Arsenic	25	--	µg/L	16 U
Barium	1000	--	µg/L	1 U
Beryllium	--	3	µg/L	1 U
Cadmium	5	--	µg/L	1 U
Calcium	--	--	µg/L	65.4 J
Chromium, Total	50	--	µg/L	6.2 U
Cobalt	--	--	µg/L	1.5 U
Copper	200	--	µg/L	6.2 U
Iron	300	--	µg/L	40 U
Lead	25	--	µg/L	7.1 U
Magnesium	--	35000	µg/L	19 U
Manganese	300	--	µg/L	1.1 U
Mercury	0.7	--	µg/L	0.091 J
Nickel	100	--	µg/L	3.1 U
Potassium	--	--	µg/L	179 U
Selenium	10	--	µg/L	21 U
Silver	50	--	µg/L	5 U
Sodium	20000	--	µg/L	326 U
Thallium	--	0.5	µg/L	14 U
Vanadium	--	--	µg/L	3 U
Zinc	--	2000	µg/L	3 U

Table 8. Summary of the Frequency of Exceedances in Groundwater
ExxonMobil Former Pratt Oil Works, Long Island City, Queens, New York

Parameter	No. of Samples	No. of Exceedances	Location of Max Value	Range of Exceedances		Criteria	Units
				Min	Max	NYSDEC AWQSGV	
Volatile Organic Compounds							
Benzene	15	2	MW-1	5	5	1	µg/L
Chloroform	15	2	MW-69	30	40	7	µg/L
Semivolatile Organic Compounds							
Benzo[a]anthracene	15	3	MW-1, MW-46	0.2 J	0.2 J	0.002	µg/L
Benzo[a]pyrene	15	3	MW-46	0.1 J	0.3 J	0	µg/L
Benzo[b]fluoranthene	15	1	MW-46	0.2 J	0.2 J	0.002	µg/L
Chrysene	15	2	MW-1	0.5 J	0.5	0.002	µg/L
Metals Total							
Arsenic	15	1	MW-10	41.1	41.1	25	µg/L
Cadmium	15	1	MW-62	23.8	23.8	5	µg/L
Iron	15	9	MW-31	302 J	22,800	300	µg/L
Lead	15	2	MW-31	32.8	74.3	25	µg/L
Magnesium	15	7	MW-11R	39,800	526,000	35,000	µg/L
Manganese	15	7	MW-59	302	2,830	300	µg/L
Sodium	15	14	MW-8	28,300	5,090,000	20,000	µg/L

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value

FIGURES

1. Site Location Map
2. Monitoring Well Hydrograph for MW-42
3. Monitoring Well Hydrograph for MW-48D
4. Monitoring Well Hydrograph for MW-49M
5. Monitoring Well Hydrograph for MW-50
6. Monitoring Well Hydrograph for MW-65



N

LEGEND

SITE BOUNDARY

750 0 750

Feet

Title:

SITE LOCATION MAP

SITE STATUS UPDATE REPORT
FORMER PRATT OIL WORKS
LONG ISLAND CITY, QUEENS, NEW YORK

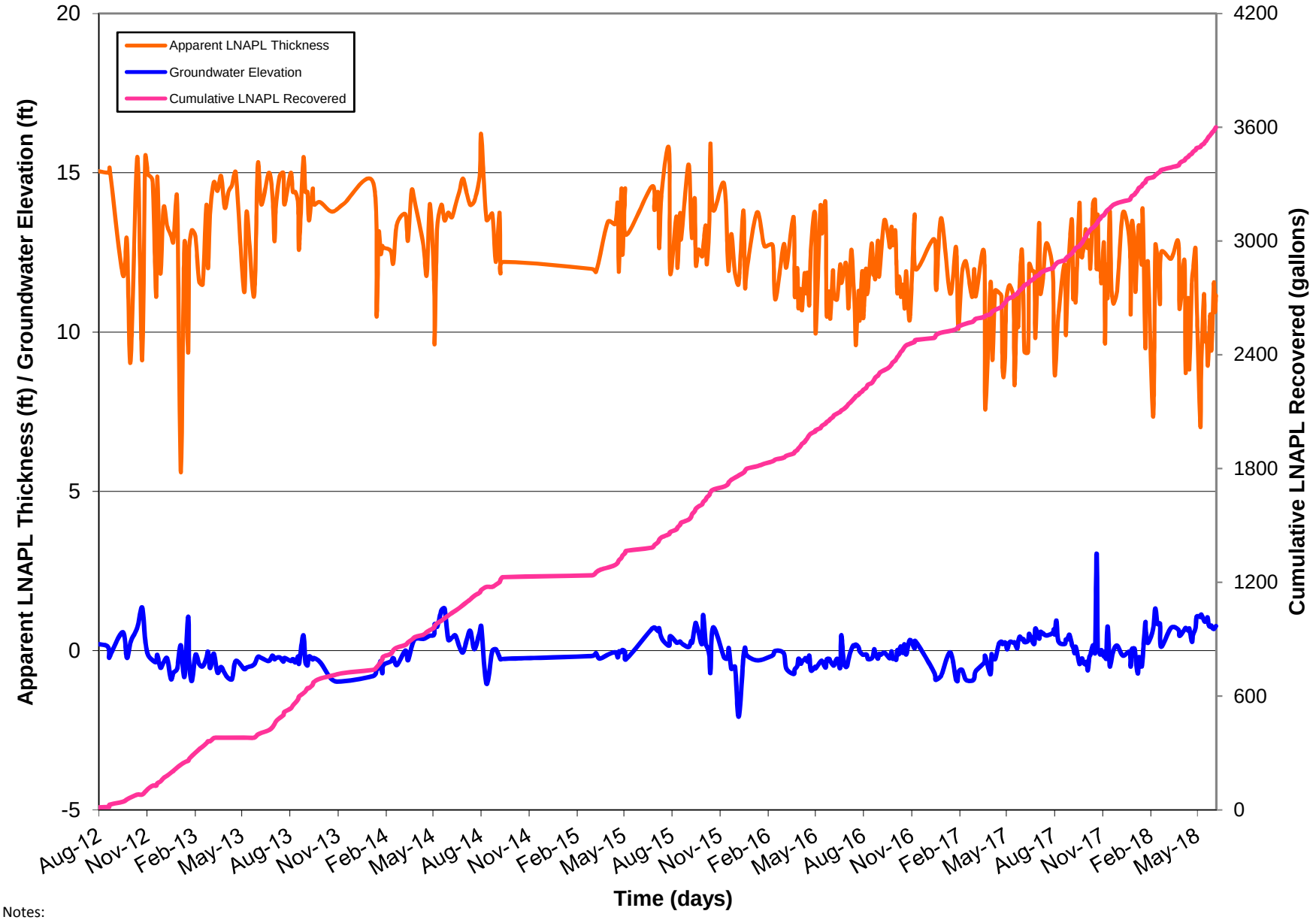
Prepared For: EXXONMOBIL OIL CORPORATION
BROOKLYN, NEW YORK

ROUX

Compiled by: E.B.	Date: 11JUL18	FIGURE 1
Prepared by: M.R.	Scale: AS SHOWN	
Project Mgr: D.H.	Project: 0172.0291Y004	
File: 0172.0291Y274.1.mxd		

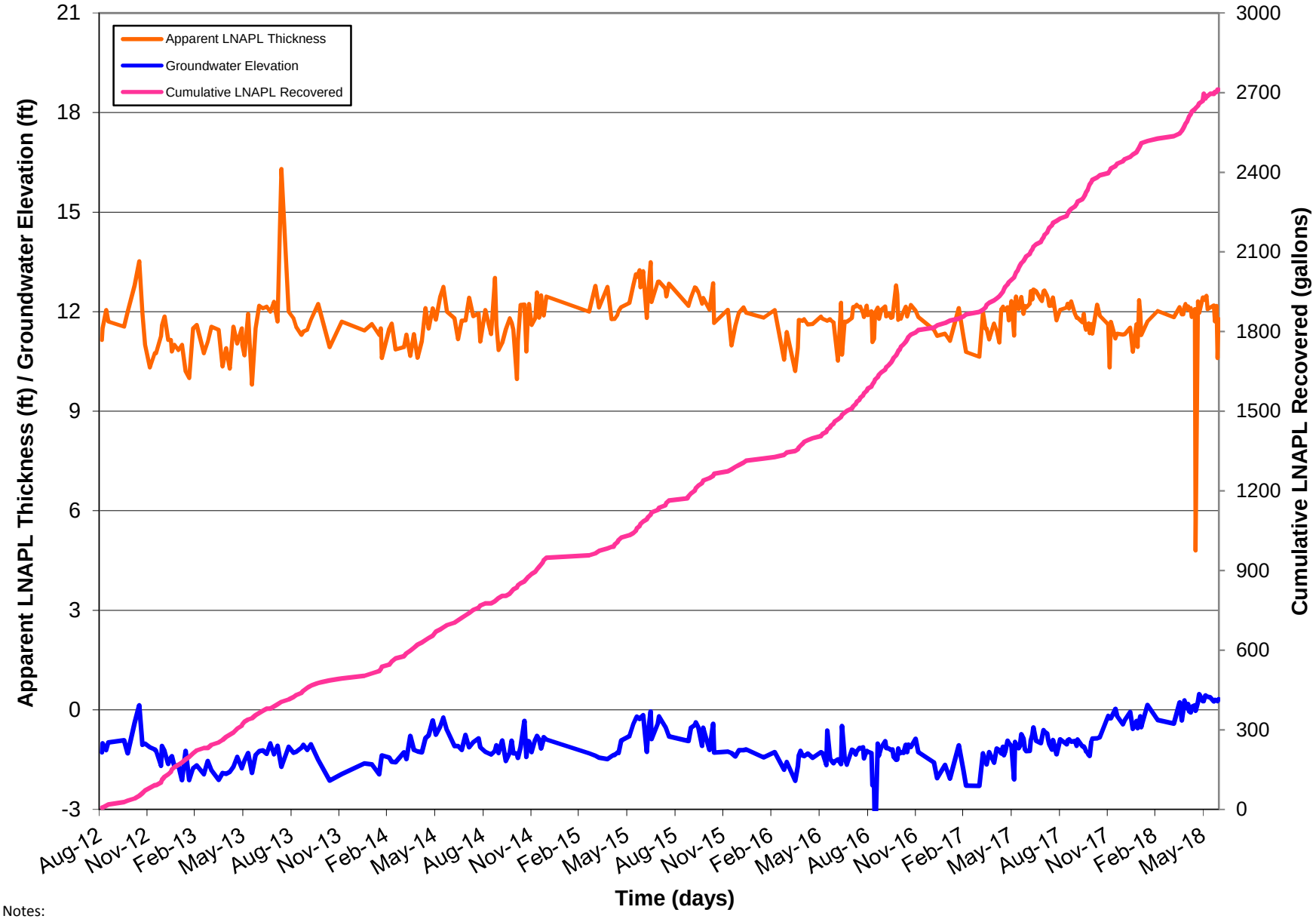
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FIGURE 2
Monitoring Well Hydrograph for MW-42
Former Pratt Oil Works, Long Island City, New York



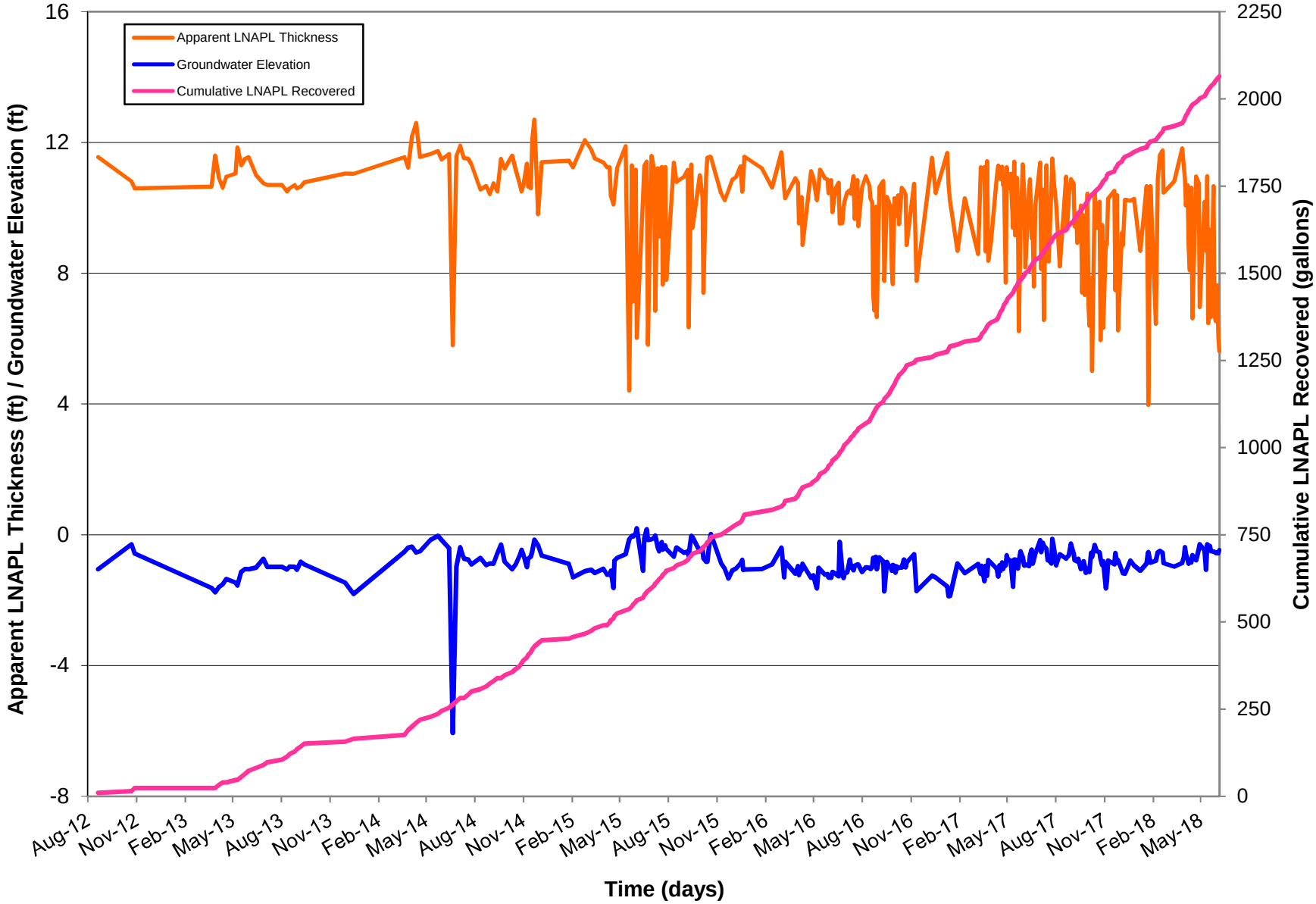
Notes:
Groundwater elevations are presented in feet as referenced to the North American Datum of 1988 (NAVD88)
ft - feet

FIGURE 3
Monitoring Well Hydrograph for MW-48D
Former Pratt Oil Works, Long Island City, New York



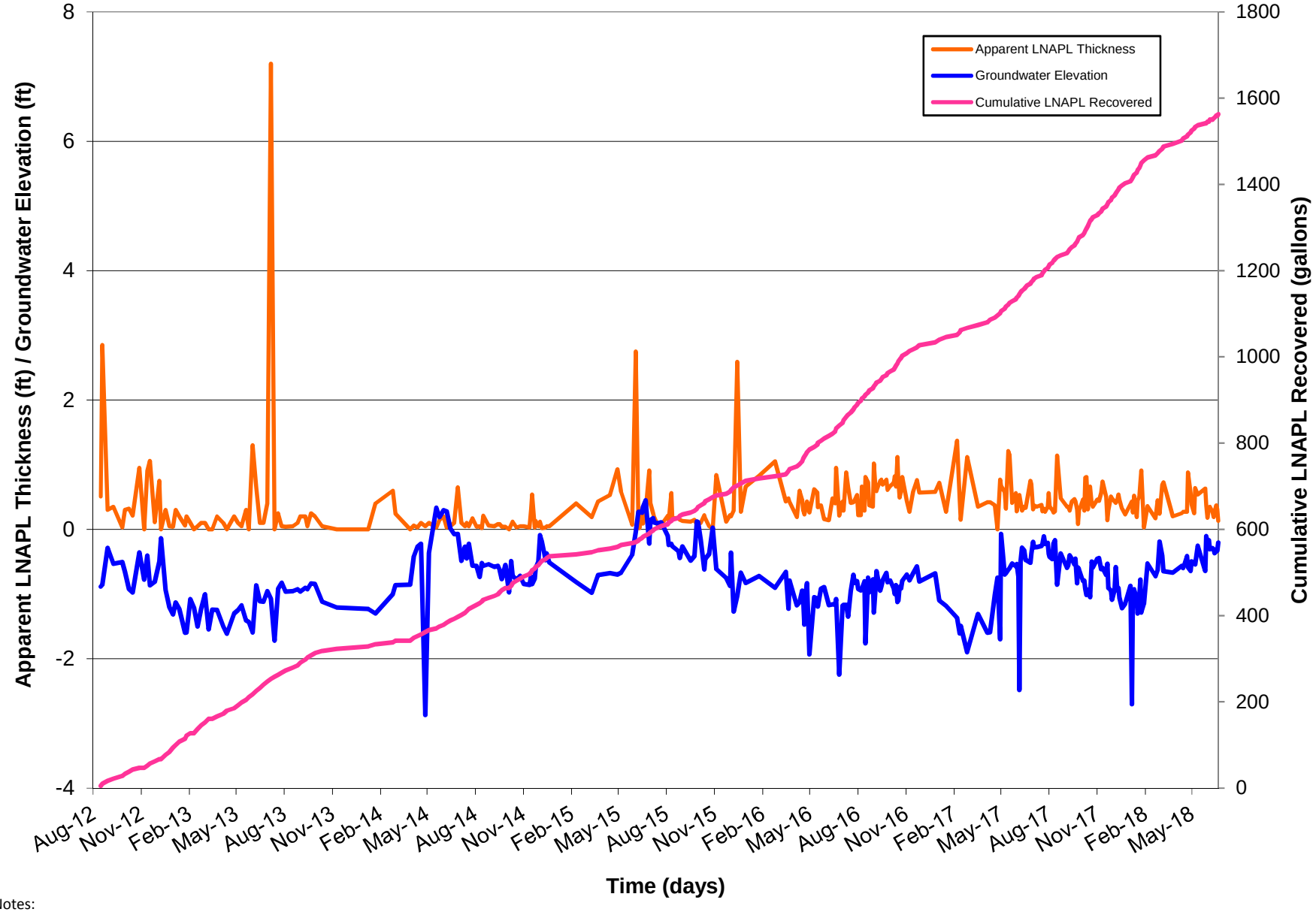
Notes:
Groundwater elevations are presented in feet as referenced to the North American Datum of 1988 (NAVD88)
ft - feet

FIGURE 4
Monitoring Well Hydrograph for MW-49M
Former Pratt Oil Works, Long Island City, New York



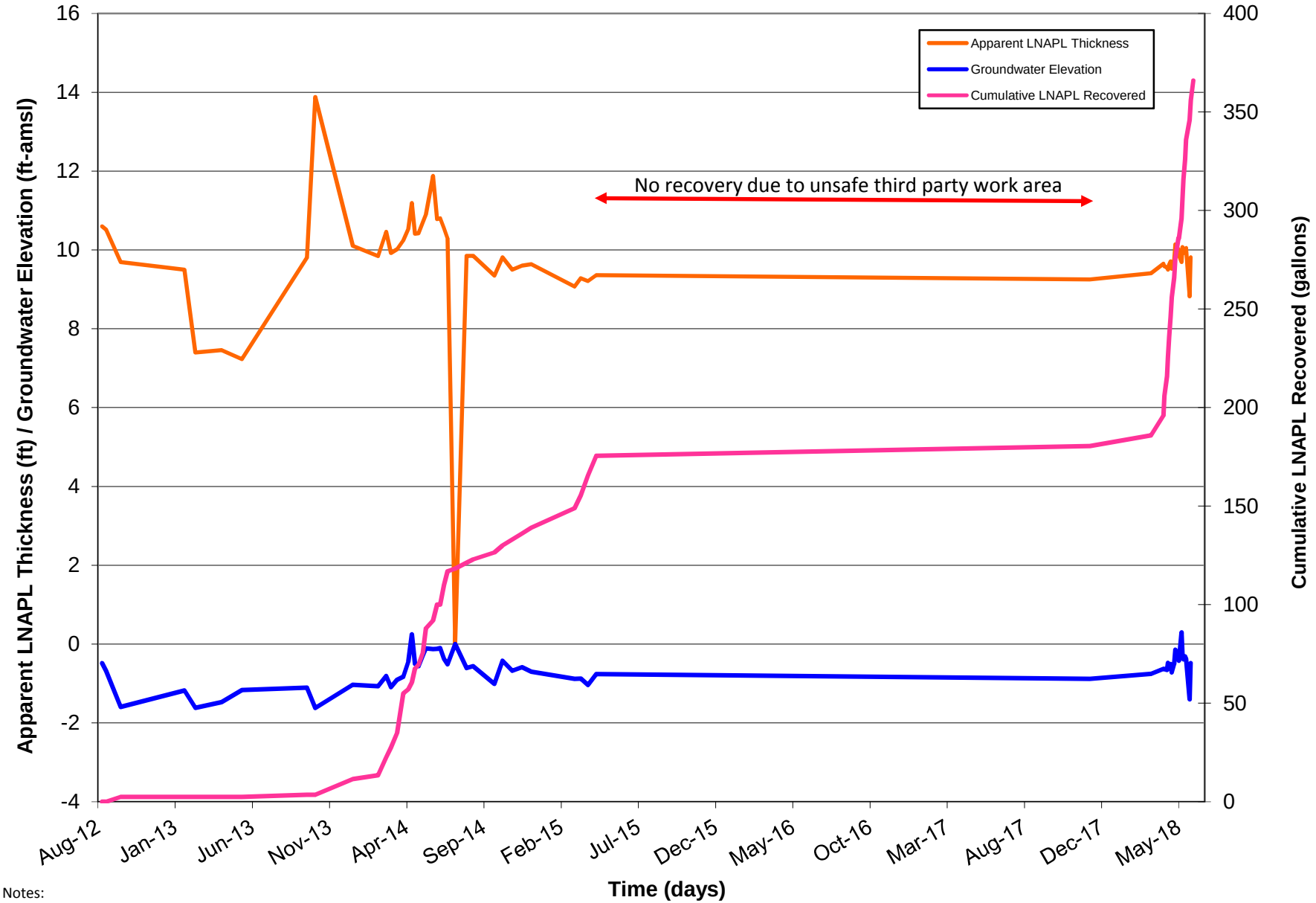
Notes:
Groundwater elevations are presented in feet as referenced to the North American Datum of 1988 (NAVD88)
ft - feet

FIGURE 5
Monitoring Well Hydrograph for MW-50
Former Pratt Oil Works, Long Island City, New York



Notes:
Groundwater elevations are presented in feet as referenced to the North American Datum of 1988 (NAVD88)
ft - feet

FIGURE 6
Monitoring Well Hydrograph for MW-65
Former Pratt Oil Works, Long Island City, New York



Notes:
ft - feet
ft-amsl - feet above mean sea level

APPENDICES

A. Absorbent Boom Photographs
B. LNAPL Transport Documentation
C. Well Sampling Data Forms
D. Groundwater Sampling Documentation and Laboratory Analytical Data

APPENDIX A

Absorbent Boom Photographs



Photograph 1: 4/4/2018



Photograph 2: 4/20/2018



Photograph 3: 5/2/2018



Photograph 4: 5/18/2018



Photograph 5: 6/6/2018



Photograph 6: 6/20/2018

APPENDIX B

LNAPL Transport Documentation

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 32434

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations.

at _____, date 4/9/18 from Tanks 5, 9, + Blowout

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:				FROM:			
Consignee	EXXON MOBIL			Shipper	EXXON MOBIL		
Street	400 KINGSLAND AVE			Street	39-14 REVIEW AVE		
Destination	BROOKLYN, NY	Zip	11222	Origin	LONG ISLAND CITY, NY	Zip	11101

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL | Vehicle Number 10 | U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1993	FLAMMABLE LIQUIDS N.O.S.	3	III	500		G
			(#2 OIL, KEROSENE, GASOLINE & WATER)					
			ERG 128					
			Received					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED FLAMMABLE PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL
PER: _____ DATE: 4/9/18

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.
PER: _____ DATE: 4/9/18

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 3/17)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

2

AUCHTER INDUSTRIAL VAC SERVICE INC.

4801South Wood Avenue, Linden, N.J. 07036

(908) 862-2277

JOB - Pepsi Product not for re

FOR: Low Voltage

Date 4/9/ Day Mon			A.I.V. Shop From -	Hours	A.I.V. Shop To -
Supervisor	**Hours**	**Overtime**	**Operators**	**Hours**	**Overtime**
			Joel Lopez		
Foreman:					
Laborers			Equipment:		
					IN
					OUT
					IN
					OUT

Remarks: Vac out Back Corner Bldg 2 with Low Voltage

back to shop at 15

A.I.V. Rep.

Customer Rep. X

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 32827

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at _____, date 04/18/18 from Tanks 5,9,15,36 + 4 drums

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:		FROM:	
Consignee	CLEAN WATERS OF NEW YORK	Shipper	EXXON MOBIL
Street	3249 RICHMOND TERR	Street	400 KINGSLAND AVE
Destination	STATEN ISLAND, NY Zip 10303	Origin	BROOKLYN, NY Zip 11222
Route	TRUCK		
Delivering Carrier	AUCHTER INDUSTRIAL	Vehicle Number	10

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	NA1993	COMBUSTIBLE LIQUIDS, N.O.S.	3	III	3325		G
			(#2 FUEL OIL, LUBE OIL & WATER)					
			ERG 128					
			Received					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED COMBUSTIB

PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL
PER: X _____ DATE: 04/18/18

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.
PER: Oscar Hurtado DATE: 04/18/18

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 3/17)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

2

AUCHTER INDUSTRIAL VAC SERVICE INC. TIM Ulnap

4801South Wood Avenue, Linden, N.J. 07036
(908) 862-2277

JOB - clean waters **FOR:** ROUZ Brooklyn

Date	Day	A.I.V. Shop Hours From -	To -	A.I.V. Shop
04/18/18	Wednesday	0530		

Supervisor	Hours	Overtime	Operators	Hours	Overtime
			Oscar Hurtado		
Foreman:					
Laborers			Equipment:		
BOL # 328227			TRUCK # 10		IN 0720
			4000 gall. Cap		OUT
Goethals Bdge			3325 Gall		IN
Verrazano Bdge					OUT

Remarks: Vac. out tanks 5,9 + 4 Drums and RT 15, 36
Run load TO clean waters

A.I.V. Rep. Oscar Hurtado | Customer Rep. X

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 32614

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at _____, date 4/30/18 from Tanks 5, 9, 3 1/2 drums

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:				FROM:			
Consignee	EXXON MOBIL			Shipper	EXXON MOBIL		
Street	400 KINGSLAND AVE			Street	39-14 REVIEW AVE		
Destination	BROOKLYN, NY	Zip	11222	Origin	LONG ISLAND CITY, NY	Zip	11101

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL Vehicle Number 10 U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1993	FLAMMABLE LIQUIDS N.O.S.	3	III	420		G
			(#2 OIL, KEROSENE, GASOLINE & WATER)					
			ERG 128					
			Received					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED FLAMMABLE PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL
PER: _____ DATE: 4/30/18

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.
PER: _____ DATE: 4/30/18

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

431 (Rev. 3/17)

2

AUCHTER INDUSTRIAL VAC SERVICE INC.

4801South Wood Avenue, Linden, N.J. 07036
(908) 862-2277

JOB -

FOR:

Date		A.I.V. Shop	Hours	A.I.V. Shop
Day		From -	To -	

Supervisor	Hours	Overtime	Operators	Hours	Overtime
Foreman:					
Laborers			Equipment:		
					IN
					OUT
					IN
					OUT

Remarks:

A.I.V. Rep.

Customer Rep. X

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 32615

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4601 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at _____, date 05/07/18 from Tanks # 5, 9 + Drums

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:		FROM:			
Consignee	EXXON MOBIL	Shipper	EXXON MOBIL		
Street	400 KINGSLAND AVE	Street	39-14 REVIEW AVE		
Destination	BROOKLYN, NY Zip 11222	Origin	LONG ISLAND CITY, NY	Zip	11101

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL Vehicle Number 10 U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1993	FLAMMABLE LIQUIDS N.O.S.	3	III	350		G
			(#2 OIL, KEROSENE, GASOLINE & WATER)					
			ERG 128					
			Received X					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per X

PLACARDS REQUIRED FLAMMABLE PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL

PER: X DATE: 05/07/18

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.

PER: Oscar Hurtado DATE: 05/07/18

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 3/17)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

2

AUCHTER INDUSTRIAL VAC SERVICE INC.

TPM wrap

4801South Wood Avenue, Linden, N.J. 07036
(908) 862-2277

JOB - Long Island Tanks FOR: Roux Brooklyn

Date 05/07/18 Day Monday

A.I.V. Shop Hours From - 05:30 To - 0930 A.I.V. Shop

Supervisor	Hours	Overtime	Operators	Hours	Overtime
			Oscar Hurtado		
Foreman:					
Laborers			Equipment:		
BOL # 32615			TRUCK # 10		IN 0730
			4000 gall. Cap		OUT 0930
Goethals Bridge			350 gall		IN
Verrazano Bridge					OUT
Two ways					

Remarks: Vac out tank 5,9+ 2 Drums Pump off
On site tank # 36

A.I.V. Rep. Oscar Hurtado Customer Rep. X

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 32616

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations.

at _____, date 5/14/18 from 5/14/18 Tanks 5, 9, 14 + 2 drums

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:				FROM:			
Consignee	EXXON MOBIL			Shipper	EXXON MOBIL		
Street	400 KINGSLAND AVE			Street	39-14 REVIEW AVE		
Destination	BROOKLYN, NY	Zip	11222	Origin	LONG ISLAND CITY, NY	Zip	11101

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL Vehicle Number 10 U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1993	FLAMMABLE LIQUIDS N.O.S.	3	III	350		G
			(#2 OIL, KEROSENE, GASOLINE & WATER)					
			ERG 128					
			Received					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED FLAMMABLE PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL

PER: _____ DATE: 5/14/18

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.

PER: _____ DATE: 5/14/18

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 3/17)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

AUCHTER INDUSTRIAL VAC SERVICE INC.

4801 South Wood Avenue, Linden, N.J. 07036
(908) 862-2277

JOB - Pacific Street Wet Tank - **FOR:** Port Authority NY

Date 5 July 16 Day Monday

A.I.V. Shop Hours From - 05:30 To - A.I.V. Shop

Supervisor	Hours	Overtime	Operators	Hours	Overtime
			Paul Bauer		
Foreman:					
Laborers Joel			Equipment:		
250 Gallon			#10 Vactor		IN 07:00
Ale 32416			4,000 Gallon Capacity		OUT 15:30
Tools & Equipment			Jetter Gardner Bus		IN
			Vibrator Hy		OUT

Remarks: Van at Market Basket Parsippany to pick up Paul. Picked up Edward Jr. at 7:30

A.I.V. Rep. [signature] Customer Rep. X [signature]

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 32240

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations:

at _____, date 05/23/18 from tanks 5,9 + 4 drums

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:		FROM:	
Consignee	EXXON MOBIL	Shipper	EXXON MOBIL
Street	400 KINGSLAND AVE	Street	39-14 REVIEW AVE
Destination	BROOKLYN, NY Zip 11222	Origin	LONG ISLAND CITY, NY Zip 11101

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL Vehicle Number 10 U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1268	PETROLEUM PRODUCTS, N.O.S.	3	III	4400		G
			(#2 OIL KEROSENE, GASOLINE & WATER)					
			ERG 128					
			Received					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED FLAMMABLE PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL
PER: _____ DATE: 05/23/18

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.
PER: Oscar Hurtado DATE: 05/23/18

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 3/17)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

AUCHTER INDUSTRIAL VAC SERVICE INC.

4801South Wood Avenue, Linden, N.J. 07036
(908) 862-2277

TPM Unap

JOB - Vac out wells **FOR:** ROUX Brooklyn

Date 05/23/18 Day Wednesday

A.I.V. Shop Hours From - 05 30 To - 0940 A.I.V. Shop

Supervisor	Hours	Overtime	Operators	Hours	Overtime
			Oscar Hurtado		
Foreman:					
Laborers			Equipment:		
BOL # 32240			Truck # 10		IN 0775
			4000 2011 Cup		OUT 0940
Borthwale Bds			440 3 all		IN
Verrazano Bds					OUT
TWO Ways →					

Remarks: Asist Roux Crew to Vac out wells and tanks
5, 9 + 24 drums DUMP OFF on site tank 36

A.I.V. Rep. Oscar Hurtado Customer Rep. X

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 32619

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations:

at _____, date 05/29/18 from tanks # 5,9 + 1 Dium

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:				FROM:			
Consignee	EXXON MOBIL			Shipper	EXXON MOBIL		
Street	400 KINGSLAND AVE			Street	39-14 REVIEW AVE		
Destination	BROOKLYN, NY	Zip	11222	Origin	LONG ISLAND CITY, NY	Zip	11101

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL Vehicle Number 10 U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1993	FLAMMABLE LIQUIDS N.O.S.	3	III	320		G
			(#2 OIL, KEROSENE, GASOLINE & WATER)					
			ERG 128					
			Received X					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per X

PLACARDS REQUIRED FLAMMABLE PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL
PER: X DATE: 05/29/18

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.
PER: Oscar Hurtado DATE: 05/29/18

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 3/17)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

2

AUCHTER INDUSTRIAL VAC SERVICE INC.

TPM ulnap

4801South Wood Avenue, Linden, N.J. 07036
(908) 862-2277

JOB - long island tanks **FOR:** ROUX BROOKLYN

Date	Day	A.I.V. Shop Hours From -	To -	A.I.V. Shop
05/29/18	Tuesday	0530		

Supervisor	Hours	Overtime	Operators	Hours	Overtime
			Oscar Hurtado		
Foreman:					
Laborers			Equipment:		
BOL # 32619			TRUCK # 10		IN 0720
			1000 gall. Cap		OUT
Goethals Bdg					IN
Verrazano Bdg					OUT

Remarks: Drain tanks 5, 9 + 1 Dwwd pump OFF on site tank

A.I.V. Rep. Oscar Hurtado | Customer Rep. X

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 32620

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at _____, date 6/4/18 from TK 5, 9 + 2 drums

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:		FROM:	
Consignee	EXXON MOBIL	Shipper	EXXON MOBIL
Street	400 KINGSLAND AVE	Street	39-14 REVIEW AVE
Destination	BROOKLYN, NY Zip 11222	Origin	LONG ISLAND CITY, NY Zip 11101

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL Vehicle Number 10 U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1993	FLAMMABLE LIQUIDS N.O.S.	3	III	360		G
			(#2 OIL, KEROSENE, GASOLINE & WATER)					
			ERG 128					
			Received					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED FLAMMABLE PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL
PER: _____ DATE: 6/4/18

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.
PER: _____ DATE: 6/4/18

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 3/17)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

AUCHTER INDUSTRIAL VAC SERVICE INC.

4801South Wood Avenue, Linden, N.J. 07036

(908) 862-2277

JOB -

FOR:

Date		A.I.V. Shop Hours	A.I.V. Shop
Day		From -	To -

Supervisor	Hours	Overtime	Operators	Hours	Overtime
Foreman:					
Laborers			Equipment:		
					IN
					OUT
					IN
					OUT

Remarks:

A.I.V. Rep.

Customer Rep. X

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 30178

AUCHTER INDUSTRIAL VAC SERVICE, INC.

Carrier 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations:

at _____, date 4/11/18 from Tks 59, + 2 chassis

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:		**FROM:**	
Consignee	EXXON MOBIL	Shipper	EXXON MOBIL
Street	400 KINGSLAND AVE	Street	39-14 REVIEW AVE
Destination	BROOKLYN, NY Zip 11222	Origin	LONG ISLAND CITY, NY Zip 11101

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL Vehicle Number 10 U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1268	PETROLEUM PRODUCTS, N.O.S.	3	III	330		G
			(#2 OIL KEROSENE, GASOLINE & WATER)					
			ERG 128					
			Received					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED FLAMMABLE PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL

PER: _____ DATE: 4/11/18

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.

PER: _____ DATE: 4/11/18

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 9/10)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

2

AUCHTER INDUSTRIAL VAC SERVICE INC.

4801South Wood Avenue, Linden, N.J. 07036

(908) 862-2277

JOB -

FOR:

Date		A.I.V. Shop Hours	A.I.V. Shop
Day		From -	To -

Supervisor	Hours	Overtime	Operators	Hours	Overtime
Foreman:					
Laborers			Equipment:		
					IN
					OUT
					IN
					OUT

Remarks:

A.I.V. Rep.

Customer Rep. X

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 32617

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at _____, date 6/8/18 from Tanks 5, 9, + 2 dump.

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:		FROM:	
Consignee	EXXON MOBIL	Shipper	EXXON MOBIL
Street	400 KINGSLAND AVE	Street	39-14 REVIEW AVE
Destination	BROOKLYN, NY Zip 11222	Origin	LONG ISLAND CITY, NY Zip 11101

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL Vehicle Number 10 U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1993	FLAMMABLE LIQUIDS N.O.S.	3	III	280		G
			(#2 OIL, KEROSENE, GASOLINE & WATER)					
			ERG 128					
			Received					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED FLAMMABLE PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL

PER: _____ DATE: 6/10/18

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.

PER: _____ DATE: 6/10/18

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 3/17)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

AUCHTER INDUSTRIAL VAC SERVICE INC.

4801South Wood Avenue, Linden, N.J. 07036
(908) 862-2277

JOB - Green with Forks

FOR: Rose Brooklyn NY

Date 6/6/18 Day Monday

A.I.V. Shop Hours A.I.V. Shop
From - 05:30 To -

Supervisor	Hours	Overtime	Operators	Hours	Overtime
			Paul Bernard		
Foreman:					
Laborers			Equipment:		
Joe Collins			#10 Vac		IN 07:00
Ryan Dill			Green Eaton Corp to		OUT
			Fifth Gordon Rd		IN
Greg Adams			Newark Bay		OUT

Remarks: We cut Green Socket with Ryan. Ran 850 of socket
Both Chrysler and Fork Lift

A.I.V. Rep. J. Bruce

Customer Rep. X

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 33020

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations:

at _____, date 6/25/18 from Tanks 5, 9, + 2 drums

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:		FROM:	
Consignee	EXXON MOBIL	Shipper	EXXON MOBIL
Street	400 KINGSLAND AVE	Street	39-14 REVIEW AVE
Destination	BROOKLYN, NY Zip 11222	Origin	LONG ISLAND CITY, NY Zip 11101
Route	TRUCK		
Delivering Carrier	AUCHTER INDUSTRIAL	Vehicle Number 10	U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1993	FLAMMABLE LIQUIDS N.O.S.	3	III	370		G
			(#2 OIL, KEROSENE, GASOLINE & WATER)					
			ERG 128					
			Received					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED — FLAMMABLE — PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER — DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL
PER: _____ DATE: 6/25/18

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.
PER: _____ DATE: 6/25/18

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 3/17)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

2

AUCHTER INDUSTRIAL VAC SERVICE INC.

4801South Wood Avenue, Linden, N.J. 07036
(908) 862-2277

JOB -

FOR:

Date				A.I.V. Shop Hours		A.I.V. Shop
Day				From -	To -	
Supervisor	Hours	Overtime	Operators	Hours	Overtime	
Foreman:						
Laborers			Equipment:			
						IN
						OUT
						IN
						OUT

Remarks:

A.I.V. Rep.

Customer Rep. X

APPENDIX C

Well Sampling Data Forms

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: Parcel A

Well No: MW-4S Weather: 87°F, mostly cloudy

Date: 6/19/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BG Well Diameter / Type: 6" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 4.36

Depth to Water(ft): 7.04 Volume of Water in Well (gal) 6.40

Depth to Bottom (ft): 11.40

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 10:00 Purge Rate:

End Purging: 10:10 Volume of Water Removed (gal):

Method of Purge: Low-Flow (peri pump) Method of Sampling:

Physical Appearance/ Comments: Sheen in bucket, checked in bottle

Samples Collected: (analyses / no. bottles)

Sample Time: 10:55:00 AM

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
10:05		7.02	7.04	0.312	42.5	0.34	24.94	29
10:10		7.02	7.03	0.327	4.0	0	21.43	30

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: Parcel A

Well No: MW-4D Weather: 78°F, mostly cloudy, humid

Date: 6/19/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BG Well Diameter / Type: 4" PVC

Depth to Product (ft): ND Water Column (ft): 11.09

Depth to Water(ft): 9.56 Volume of Water in Well (gal) 16.29

Depth to Bottom (ft): 20.65

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 8:35 Purge Rate:

End Purging: 9:35 Volume of Water Removed (gal):

Method of Purge: Low-Flow (peri pump) Method of Sampling:

Physical Appearance/ Comments: Sheen in bucket, checked in amber

Samples Collected: (analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
8:40		10.30	6.99	0.75	4.80	0.13	17.54	-41
8:45		10.28	7.00	0.76	2.50	0.00	17.92	-54
8:50		10.28	6.99	0.77	1.90	0.00	18.18	-61
8:55		10.30	6.98	0.77	2.60	3.33	18.24	-64
9:00		10.30	6.98	0.77	3.20	0.34	17.98	-66
9:05		10.29	6.98	0.77	3.30	0.27	17.87	-68
9:10		10.29	6.98	0.77	3.90	0.00	17.92	-70
9:15		10.29	6.99	0.78	3.20	0.00	17.90	-72
9:20		10.29	6.99	0.79	4.10	0.00	18.01	-74
9:25		10.29	6.99	0.80	3.80	0.00	18.14	-75
9:30	Sheen in bucket.							

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: LIC, NY

Well No: MW-5S Weather: 82°F, partly cloudy

Date: 6/19/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: EB/LD Well Diameter / Type: 2" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 16.21

Depth to Water(ft): 4.86 Volume of Water in Well (gal) 2.65

Depth to Bottom (ft): 21.07

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 9:30 Purge Rate:

End Purging: Volume of Water Removed (gal):

Method of Purge: Low-Flow (peri pump) Method of Sampling:

Physical Appearance/ Comments: Sheen in bucket, not sampled

Samples Collected: (analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
9:35	Sheen observed in bucket.							

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: LIC, NY

Well No: MW-6S Weather: 84°F, mostly cloudy

Date: 6/19/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: EB/LD Well Diameter / Type: 4 " PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 2.54

Depth to Water(ft): 5.41 Volume of Water in Well (gal) 1.66

Depth to Bottom (ft): 7.95

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 10:00 Purge Rate:

End Purging: 10:05 Volume of Water Removed (gal):

Method of Purge: Low-Flow (peri pump) Method of Sampling:

Physical Appearance/ Comments: Sheen in bucket, not sampled

Samples Collected: (analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: Parcel A

Well No: MW-15 Weather: 79°F, clear

Date: 6/20/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: CF/BC Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 7.15

Depth to Water(ft): 11.18 Volume of Water in Well (gal) 4.67

Depth to Bottom (ft): 18.33

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 11:40 Purge Rate:

End Purging: 11:50 Volume of Water Removed (gal):

Method of Purge: Low-Flow (peri pump) Method of Sampling:

Physical Appearance/ Comments: No sample, sheen in bucket

Samples Collected: (analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
11:45		11.18	1.36	1.36	0.00	0.00	28.60	-97
11:50	Sheen observed in bucket.							

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: LIC, NY

Well No: MW-15R Weather: 79°F, clear

Date: 6/20/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: EB/LD Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 6.30

Depth to Water(ft): 11.50 Volume of Water in Well (gal) 4.11

Depth to Bottom (ft): 17.80

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 11:35 Purge Rate:

End Purging: 11:40 Volume of Water Removed (gal):

Method of Purge: Low-Flow (peri pump) Method of Sampling:

Physical Appearance/ Comments: No sample, sheen in bucket.

Samples Collected: (analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: LIC, NY

Well No: MW-28 Weather: 84°F, overcast

Date: 6/19/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: EB/LD Well Diameter / Type: 4 " PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 7.56

Depth to Water(ft): 6.93 Volume of Water in Well (gal) 4.94

Depth to Bottom (ft): 14.49

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: Purge Rate:

End Purging: Volume of Water Removed (gal):

Method of Purge: Method of Sampling:

Physical Appearance/ Comments: Product on probe, not sampled.

Samples Collected: (analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: LIC, NY

Well No: MW-28D Weather: 84°F, overcast

Date: 6/19/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: CH/MD Well Diameter / Type: 2" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 13.11

Depth to Water(ft): 7.25 Volume of Water in Well (gal) 2.14

Depth to Bottom (ft): 20.36

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 8:35 Purge Rate:

End Purging: 8:45 Volume of Water Removed (gal):

Method of Purge: Low-Flow (peri pump) Method of Sampling:

Physical Appearance/ Comments:

Samples Collected: (analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
8:35		9.24	7.97	0.62	11.10	0.81	19.52	-116
8:45		11.50	8.07	0.62	9.50	0.41	18.33	-132
8:45	Sheen observed in bucket.							

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: Parcel B

Well No: MW-29 Weather: 76°F, partly cloudy

Date: 6/21/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BG Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 6.18

Depth to Water(ft): 5.02 Volume of Water in Well (gal) 4.03

Depth to Bottom (ft): 11.20

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 9:48 Purge Rate:

End Purging: 10:37 Volume of Water Removed (gal): 3

Method of Purge: Low-Flow (peri pump) Method of Sampling:

Physical Appearance/ Comments: Opaque blueish film, few spots of possible sheen

Samples Collected: (analyses / no. bottles) Sheen in bottle, no sample

Sample Time:

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
9:55		5.41	7.16	4.25	5.20	0.67	19.62	-74
10:00		5.53	7.22	4.33	4.30	0.00	18.87	-85
10:05		5.56	7.24	4.33	4.20	0.00	18.47	-92
10:10		5.56	7.23	4.24	4.20	0.00	18.42	-94
10:15		5.58	7.21	4.19	4.30	0.00	18.88	-95
10:20		5.63	7.20	4.10	3.70	0.00	18.27	-97
10:25		5.72	7.20	3.99	3.80	0.00	18.08	-98
10:30		5.74	7.17	3.92	3.90	0.00	18.16	-98
10:35		5.78	7.15	3.83	3.40	0.00	18.06	-99

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: Parcel A

Well No: MW-33 Weather: 73°F, clear

Date: 6/20/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: EB/LD Well Diameter / Type:

Depth to Product (ft): Water Column (ft): 12.64

Depth to Water(ft): 2.76 Volume of Water in Well (gal) 8.25

Depth to Bottom (ft): 15.40

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: Purge Rate:

End Purging: Volume of Water Removed (gal):

Method of Purge: Method of Sampling:

Physical Appearance/ Comments: Product on probe

Samples Collected: (analyses / no. bottles)

Sample Time: 9:05:00 AM

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: Parcel A

Well No: MW-37 Weather: 79°F, overcast

Date: 6/19/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: EB/LD Well Diameter / Type: 2" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): #VALUE!

Depth to Water(ft): 9.49 Volume of Water in Well (gal) #VALUE!

Depth to Bottom (ft): ?

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 8:23 Purge Rate: 150

End Purging: 9:25 Volume of Water Removed (gal): 2

Method of Purge: Method of Sampling:

Physical Appearance/ Comments: Trace product on probe, not sampled

Samples Collected: (analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: Parcel A

Well No: MW-44 Weather: 84°F, overcast

Date: 6/19/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: EB/LD Well Diameter / Type: 4" PVC

Depth to Product (ft): Water Column (ft): 8.16

Depth to Water(ft): 3.72 Volume of Water in Well (gal) 5.33

Depth to Bottom (ft): 11.88

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: Purge Rate:

End Purging: Volume of Water Removed (gal):

Method of Purge: Method of Sampling:

Physical Appearance/ Comments: Product on probe

Samples Collected: (analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: Parcel B

Well No: MW-49S Weather: 79°F, clear

Date: 6/20/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BG Well Diameter / Type:

Depth to Product (ft): ND Water Column (ft): 7.28

Depth to Water(ft): 8.42 Volume of Water in Well (gal) 4.75

Depth to Bottom (ft): 15.70

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 11:28 Purge Rate:

End Purging: 11:35 Volume of Water Removed (gal):

Method of Purge: Low-Flow Method of Sampling:

Physical Appearance/ Comments: Sheen in bucket

Odor

Samples Collected: (analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: Parcel B

Well No: MW-49D Weather: 88°F, sunny, wind 4 ESE

Date: 6/19/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BG Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 26.40

Depth to Water(ft): 11.38 Volume of Water in Well (gal) 17.23

Depth to Bottom (ft): 37.78

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 13:26 Purge Rate:

End Purging: 14:00 Volume of Water Removed (gal):

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Sheen in bucket

Samples Collected: (analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
13:30		11.25	5.74	0.32	5.00	0.30	16.06	47
13:35		11.25	5.69	0.31	5.40	0.00	16.11	15
13:40		11.25	5.65	0.31	6.40	0.00	15.94	-4
13:45		11.25	5.63	0.31	5.70	0.00	15.61	-12
13:50		11.25	5.63	0.31	6.60	0.00	15.64	-20
13:55		11.25	5.65	0.31	7.90	0.00	15.48	-27
14:00	Sheen in bucket							

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: Parcel B

Well No: MW-51 Weather: 78°F, partly cloudy

Date: 6/20/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BG Well Diameter / Type: 4" PVC

Depth to Product (ft): ND Water Column (ft): 6.07

Depth to Water(ft): 9.68 Volume of Water in Well (gal) 0.99

Depth to Bottom (ft): 15.75

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 12:37 Purge Rate:

End Purging: 12:50 Volume of Water Removed (gal):

Method of Purge: Low-Flow (peri pump) Method of Sampling:

Physical Appearance/ Comments: Sheen in bucket

Odor

Samples Collected: (analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
12:40		9.79	7.52	0.55	5.90	0.21	20.01	-101
12:45		9.79	7.48	0.54	9.70	0.00	18.66	-107
12:50	Sheen in bucket.							

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel A

Well No: MW-55 Weather: 55 F, cloudy

Date: 11/16/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BT Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): Water Column (ft): 15.12

Depth to Water(ft): 5.95 Volume of Water in Well (gal) 9.87

Depth to Bottom (ft): 21.07

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: Purge Rate:

End Purging: Volume of Water Removed (gal):

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: LNAPL on probe, sock reinstalled

Samples Collected: (analyses / no. bottles) (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)

Sample Time:

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: Parcel E

Well No: MW-63 Weather: 70°F, mostly sunny

Date: 6/22/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: EB/LD Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): Water Column (ft): 2.40

Depth to Water(ft): 21.50 Volume of Water in Well (gal) 1.57

Depth to Bottom (ft): 23.90

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 10:15 Purge Rate:

End Purging: 10:34 Volume of Water Removed (gal):

Method of Purge: Low-Flow (peri pump) Method of Sampling: Low-Flow (peri pump)

Physical Appearance/ Comments:

Samples Collected: (analyses / no. bottles)

Sample Time: 1:39:00 PM

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
10:20		22.00	6.94	0.73	25.20	0.57	13.79	-56
10:25		22.21	6.96	0.74	21.90	0.00	14.11	-59
10:30		22.21	6.96	0.74	21.30	0.00	14.08	-64
10:35	Sheen observed in bucket, checked in in amber bottle.							

No sample; LNAPL detected.

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y004

Site Location: Parcel G

Well No: MW-67 Weather: 72°F, mostly cloudy

Date: 6/22/2018 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BG Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): 12.84 Water Column (ft): 9.58

Depth to Water(ft): 12.86 Volume of Water in Well (gal) 6.25

Depth to Bottom (ft): 22.44

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: Purge Rate:

End Purging: Volume of Water Removed (gal):

Method of Purge: Method of Sampling:

Physical Appearance/ Comments: Producted detected on intial gauge, was not purged, was not sampled.

Samples Collected: (analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory :

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit

No sample; LNAPL detected.

APPENDIX D

Groundwater Sampling Documentation and Laboratory Analytical Data

eurofins | Lancaster Laboratories Environmental

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ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ExxonMobil c/o Roux Associates
209 Shafter Street
Islandia NY 11749

Report Date: June 30, 2018 19:34

Project: FPOW

Account #: 13438
Group Number: 1957520
SDG: POW03
PO Number: 0172.0291Y004
Release Number: (SEE COC)
State of Sample Origin: NY

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To	ExxonMobil c/o Roux Associates	Attn: Dana Hignell
Electronic Copy To	Roux Associates	Attn: Brandon Tufano

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261



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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
MW-1 Grab Groundwater	06/19/2018 11:20	9670215
DUP061918 Grab Groundwater	06/19/2018 12:00	9670216
MW-10 Grab Groundwater	06/19/2018 12:10	9670217
MW-13 Grab Groundwater	06/19/2018 13:35	9670221
MW-46 Grab Groundwater	06/20/2018 08:35	9670222
MW-11R Grab Groundwater	06/20/2018 09:00	9670223
MW-8 Grab Groundwater	06/20/2018 10:15	9670224
MW-52 Grab Groundwater	06/20/2018 10:35	9670225
MW-62 Grab Groundwater	06/20/2018 13:20	9670226
FB062018 Grab Water	06/20/2018 14:00	9670227
Trip Blank Water	06/13/2018	9670228

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Project Name: FPOW
ELLE Group #: 1957520

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below.

Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set.

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

SW-846 8260C, GC/MS Volatiles

Sample #s: 9670217, 9670221, 9670223, 9670224, 9670225

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

Sample #s: 9670222

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

Reporting limits were raised due to sample foaming.

Sample #s: 9670215, 9670216

The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The reported concentration in the associated sample(s) is considered to be estimated. Therefore the result for the following analyte(s) is estimated: methylcyclohexane.

Batch #: 5181792AA (Sample number(s): 9670215-9670219, 9670221-9670225 UNSPK: 9670217)

The recovery(ies) for the following analyte(s) in the MS and/or MSD exceeded the acceptance window indicating a positive bias: Methyl Tertiary Butyl Ether, Carbon Tetrachloride, Freon 113

SW-846 8270D, GC/MS Semivolatiles

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Sample #s: 9670215, 9670216, 9670217, 9670218, 9670219, 9670221, 9670222, 9670223, 9670224, 9670225, 9670226, 9670227

Due to laboratory error Benzaldehyde, Atrazine, and Caprolactam were not spiked in the Laboratory Control Spike, Matrix Spike, and Matrix Spike Duplicate. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

SW-846 6010C, Metals

Batch #: 181721063505 (Sample number(s): 9670215-9670227 UNSPK: 9670217 BKG: 9670217)

The recovery(ies) for the following analyte(s) in the MS and/or MSD exceeded the acceptance window indicating a positive bias: Calcium, Magnesium, Sodium, Iron

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Vanadium

SW-846 7470A, Metals

Batch #: 181720571305 (Sample number(s): 9670215-9670227 UNSPK: 9670217 BKG: 9670217)

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window: Mercury

Sample Description: **MW-1 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 11:20
SDG#: POW03-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670215
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	5	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	4 J	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	4	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	1	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	2 J	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-1 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 11:20
SDG#: POW03-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670215
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	0.6 J	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	2	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The reported concentration in the associated sample(s) is considered to be estimated. Therefore the result for the following analyte(s) is estimated: methylcyclohexane.

GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	0.5 J	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	0.2 J	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.1 J	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 J	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-1 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 11:20
SDG#: POW03-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670215
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	21	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	0.1 J	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	0.2 J	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-1 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 11:20
SDG#: POW03-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670215
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	5	11	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	2	1
14241	Pyrene	129-00-0	0.5 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	2	1
	Due to laboratory error Benzaldehyde, Atrazine, and Caprolactam were not spiked in the Laboratory Control Spike, Matrix Spike, and Matrix Spike Duplicate. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D. K1	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	306	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	243,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	696	40.0	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	18,700	37.4	200	1
07058	Manganese	7439-96-5	1,750	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	19,400	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	362,000	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-1 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 11:20
SDG#: POW03-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670215
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010C**	**ug/l**	**ug/l**	**ug/l**	
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1
		SW-846 7470A	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	5181792AA	06/29/2018 02:50	Kevin D Kelly	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	5181792AA	06/29/2018 02:50	Kevin D Kelly	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	18171WAM026	06/25/2018 14:48	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	18171WAM026	06/21/2018 08:30	Logan M Brosemer	1
01743	Aluminum	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
07044	Antimony	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
07035	Arsenic	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
07046	Barium	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
07047	Beryllium	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
07049	Cadmium	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
01750	Calcium	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
07051	Chromium	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
07052	Cobalt	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
07053	Copper	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
01754	Iron	SW-846 6010C	1	181721063505	06/27/2018 10:49	Eric L Eby	1
07055	Lead	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
01757	Magnesium	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
07058	Manganese	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
07061	Nickel	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
01762	Potassium	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
07036	Selenium	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
07066	Silver	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
01767	Sodium	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
07022	Thallium	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
07071	Vanadium	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
07072	Zinc	SW-846 6010C	1	181721063505	06/26/2018 05:33	Suzanne M Will	1
00259	Mercury	SW-846 7470A	1	181720571305	06/23/2018 07:51	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181721063505	06/22/2018 16:00	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	181720571305	06/22/2018 17:40	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP061918 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 12:00
SDG#: POW03-02FD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670216
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	5	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	0.8 J	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	4 J	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	4	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	0.9 J	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	2 J	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP061918 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 12:00
SDG#: POW03-02FD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670216
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	2	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The reported concentration in the associated sample(s) is considered to be estimated. Therefore the result for the following analyte(s) is estimated: methylcyclohexane.

GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	0.4 J	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	0.2 J	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.2 J	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 J	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP061918 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 12:00
SDG#: POW03-02FD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670216
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	0.5	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	21	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	0.1 J	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP061918 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 12:00
SDG#: POW03-02FD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670216
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	5	11	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	2	1
14241	Pyrene	129-00-0	0.5 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	2	1
	Due to laboratory error Benzaldehyde, Atrazine, and Caprolactam were not spiked in the Laboratory Control Spike, Matrix Spike, and Matrix Spike Duplicate. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D. K1	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	325	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	256,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	1,060	40.0	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	19,700	37.4	200	1
07058	Manganese	7439-96-5	1,860	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	20,700	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	375,000	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP061918 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 12:00
SDG#: POW03-02FD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670216
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010C**	**ug/l**	**ug/l**	**ug/l**	
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1
		SW-846 7470A	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	5181792AA	06/29/2018 03:12	Kevin D Kelly	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	5181792AA	06/29/2018 03:12	Kevin D Kelly	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	18171WAM026	06/25/2018 15:45	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	18171WAM026	06/21/2018 08:30	Logan M Brosemer	1
01743	Aluminum	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
07044	Antimony	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
07035	Arsenic	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
07046	Barium	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
07047	Beryllium	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
07049	Cadmium	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
01750	Calcium	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
07051	Chromium	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
07052	Cobalt	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
07053	Copper	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
01754	Iron	SW-846 6010C	1	181721063505	06/27/2018 10:52	Eric L Eby	1
07055	Lead	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
01757	Magnesium	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
07058	Manganese	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
07061	Nickel	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
01762	Potassium	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
07036	Selenium	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
07066	Silver	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
01767	Sodium	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
07022	Thallium	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
07071	Vanadium	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
07072	Zinc	SW-846 6010C	1	181721063505	06/26/2018 05:37	Suzanne M Will	1
00259	Mercury	SW-846 7470A	1	181720571305	06/23/2018 07:53	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181721063505	06/22/2018 16:00	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	181720571305	06/22/2018 17:40	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 12:10
SDG#: POW03-03BKG

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670217
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 12:10
SDG#: POW03-03BKG

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670217
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 12:10
SDG#: POW03-03BKG

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670217
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	21	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 12:10
SDG#: POW03-03BKG

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670217
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	5	11	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	2	1
14241	Pyrene	129-00-0	0.2 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	2	1
	Due to laboratory error Benzaldehyde, Atrazine, and Caprolactam were not spiked in the Laboratory Control Spike, Matrix Spike, and Matrix Spike Duplicate. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D. K1	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	41.1	9.6	40.0	1
07046	Barium	7440-39-3	150	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	108,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	16,500	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	50,000	37.4	200	1
07058	Manganese	7439-96-5	423	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	21,800	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	371,000	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 12:10
SDG#: POW03-03BKG

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670217
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
07071	Vanadium	7440-62-2	1.7 J	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1
	SW-846 7470A		**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	5181792AA	06/29/2018 00:40	Kevin D Kelly	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	5181792AA	06/29/2018 00:40	Kevin D Kelly	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	18171WAM026	06/25/2018 12:56	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	18171WAM026	06/21/2018 08:30	Logan M Brosemer	1
01743	Aluminum	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
07044	Antimony	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
07035	Arsenic	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
07046	Barium	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
07047	Beryllium	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
07049	Cadmium	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
01750	Calcium	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
07051	Chromium	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
07052	Cobalt	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
07053	Copper	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
01754	Iron	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
07055	Lead	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
01757	Magnesium	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
07058	Manganese	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
07061	Nickel	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
01762	Potassium	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
07036	Selenium	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
07066	Silver	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
01767	Sodium	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
07022	Thallium	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
07071	Vanadium	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
07072	Zinc	SW-846 6010C	1	181721063505	06/26/2018 05:13	Suzanne M Will	1
00259	Mercury	SW-846 7470A	1	181720571305	06/23/2018 07:21	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181721063505	06/22/2018 16:00	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	181720571305	06/22/2018 17:40	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-13 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 13:35
SDG#: POW03-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670221
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-13 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 13:35
SDG#: POW03-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670221
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	0.2 J	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-13 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 13:35
SDG#: POW03-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670221
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	22	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	31	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	0.2 J	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-13 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 13:35
SDG#: POW03-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670221
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	4-Nitrophenol	100-02-7	N.D.	10	31	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	5	11	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	2	1
14241	Pyrene	129-00-0	0.2 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	2	1
	Due to laboratory error Benzaldehyde, Atrazine, and Caprolactam were not spiked in the Laboratory Control Spike, Matrix Spike, and Matrix Spike Duplicate. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D. K1	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	702	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	217,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	2,600	80.5	400	1
07055	Lead	7439-92-1	13.2 J	6.0	30.0	1
01757	Magnesium	7439-95-4	21,400	37.4	200	1
07058	Manganese	7439-96-5	302	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	29,100	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	156,000	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-13 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/19/2018 13:35
SDG#: POW03-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670221
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010C**	**ug/l**		**ug/l**	**ug/l**	
07071	Vanadium	7440-62-2	2.1	J	1.6	10.0	1
07072	Zinc	7440-66-6	50.5		6.5	40.0	1
		SW-846 7470A	**ug/l**		**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.		0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	5181792AA	06/29/2018 03:34	Kevin D Kelly	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	5181792AA	06/29/2018 03:34	Kevin D Kelly	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	18171WAM026	06/25/2018 16:13	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	18171WAM026	06/21/2018 08:30	Logan M Brosemer	1
01743	Aluminum	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
07044	Antimony	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
07035	Arsenic	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
07046	Barium	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
07047	Beryllium	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
07049	Cadmium	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
01750	Calcium	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
07051	Chromium	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
07052	Cobalt	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
07053	Copper	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
01754	Iron	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
07055	Lead	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
01757	Magnesium	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
07058	Manganese	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
07061	Nickel	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
01762	Potassium	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
07036	Selenium	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
07066	Silver	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
01767	Sodium	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
07022	Thallium	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
07071	Vanadium	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
07072	Zinc	SW-846 6010C	1	181721063505	06/26/2018 05:47	Suzanne M Will	1
00259	Mercury	SW-846 7470A	1	181720571305	06/23/2018 07:55	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181721063505	06/22/2018 16:00	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	181720571305	06/22/2018 17:40	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-46 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 08:35
SDG#: POW03-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670222
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	30	100	5
11997	Benzene	71-43-2	N.D.	3	5	5
11997	Bromochloromethane	74-97-5	N.D.	5	25	5
11997	Bromodichloromethane	75-27-4	N.D.	3	5	5
11997	Bromoform	75-25-2	N.D.	3	20	5
11997	Bromomethane	74-83-9	N.D.	3	5	5
11997	2-Butanone	78-93-3	N.D.	15	50	5
11997	Carbon Disulfide	75-15-0	N.D.	5	25	5
11997	Carbon Tetrachloride	56-23-5	N.D.	3	5	5
11997	Chlorobenzene	108-90-7	N.D.	3	5	5
11997	Chloroethane	75-00-3	N.D.	3	5	5
11997	Chloroform	67-66-3	30	3	5	5
11997	Chloromethane	74-87-3	N.D.	3	5	5
11997	Cyclohexane	110-82-7	N.D.	10	25	5
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	10	25	5
11997	Dibromochloromethane	124-48-1	N.D.	3	5	5
11997	1,2-Dibromoethane	106-93-4	N.D.	3	5	5
11997	1,2-Dichlorobenzene	95-50-1	N.D.	5	25	5
11997	1,3-Dichlorobenzene	541-73-1	N.D.	5	25	5
11997	1,4-Dichlorobenzene	106-46-7	N.D.	5	25	5
11997	Dichlorodifluoromethane	75-71-8	N.D.	3	5	5
11997	1,1-Dichloroethane	75-34-3	N.D.	3	5	5
11997	1,2-Dichloroethane	107-06-2	N.D.	3	5	5
11997	1,1-Dichloroethene	75-35-4	N.D.	3	5	5
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	3	5	5
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	3	5	5
11997	1,2-Dichloropropane	78-87-5	N.D.	3	5	5
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	3	5	5
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	3	5	5
11997	Ethylbenzene	100-41-4	N.D.	3	5	5
11997	Freon 113	76-13-1	N.D.	10	50	5
11997	2-Hexanone	591-78-6	N.D.	15	50	5
11997	Isopropylbenzene	98-82-8	N.D.	5	25	5
11997	Methyl Acetate	79-20-9	N.D.	5	25	5
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	3	5	5
11997	4-Methyl-2-pentanone	108-10-1	N.D.	15	50	5
11997	Methylcyclohexane	108-87-2	N.D.	5	25	5
11997	Methylene Chloride	75-09-2	N.D.	3	5	5
11997	Styrene	100-42-5	N.D.	5	25	5
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	3	5	5

*=This limit was used in the evaluation of the final result

Sample Description: **MW-46 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 08:35
SDG#: POW03-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670222
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	3	5	5
11997	Toluene	108-88-3	N.D.	3	5	5
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	5	25	5
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	5	25	5
11997	1,1,1-Trichloroethane	71-55-6	N.D.	3	5	5
11997	1,1,2-Trichloroethane	79-00-5	N.D.	3	5	5
11997	Trichloroethene	79-01-6	N.D.	3	5	5
11997	Trichlorofluoromethane	75-69-4	N.D.	3	5	5
11997	Vinyl Chloride	75-01-4	N.D.	3	5	5
11997	m+p-Xylene	179601-23-1	N.D.	3	5	5
11997	o-Xylene	95-47-6	N.D.	3	5	5
11997	Xylene (Total)	1330-20-7	N.D.	3	5	5

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

Reporting limits were raised due to sample foaming.

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	0.2 J	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.3 J	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	0.2 J	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.3 J	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-46 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 08:35
SDG#: POW03-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670222
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	0.5 J	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 J	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	21	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-46 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 08:35
SDG#: POW03-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670222
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	5	11	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	2	1
14241	Pyrene	129-00-0	0.2 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	2	1
	Due to laboratory error Benzaldehyde, Atrazine, and Caprolactam were not spiked in the Laboratory Control Spike, Matrix Spike, and Matrix Spike Duplicate. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	404 J	153	600	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	9.0 J	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	15,500	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	5.1 J	4.0	20.0	1
01754	Iron	7439-89-6	302 J	40.0	400	1
07055	Lead	7439-92-1	6.3 J	6.0	30.0	1
01757	Magnesium	7439-95-4	2,370	19.0	200	1
07058	Manganese	7439-96-5	5.6 J	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	2,600	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	17,300	326	2,000	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-46 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 08:35
SDG#: POW03-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670222
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010C**	**ug/l**		**ug/l**	**ug/l**	
07022	Thallium	7440-28-0	N.D.		13.7	60.0	1
07071	Vanadium	7440-62-2	3.9	J	1.6	10.0	1
07072	Zinc	7440-66-6	7.9	J	6.5	40.0	1
		SW-846 7470A	**ug/l**		**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.		0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	5181792AA	06/29/2018 03:56	Kevin D Kelly	5
01163	GC/MS VOA Water Prep	SW-846 5030C	1	5181792AA	06/29/2018 03:56	Kevin D Kelly	5
14241	SVOAs 8270D MINI	SW-846 8270D	1	18171WAM026	06/25/2018 16:41	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	18171WAM026	06/21/2018 08:30	Logan M Brosemer	1
01743	Aluminum	SW-846 6010C	1	181721063505	06/28/2018 01:59	Jonathan J Allen	1
07044	Antimony	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
07035	Arsenic	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
07046	Barium	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
07047	Beryllium	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
07049	Cadmium	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
01750	Calcium	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
07051	Chromium	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
07052	Cobalt	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
07053	Copper	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
01754	Iron	SW-846 6010C	1	181721063505	06/27/2018 10:55	Eric L Eby	1
07055	Lead	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
01757	Magnesium	SW-846 6010C	1	181721063505	06/28/2018 01:59	Jonathan J Allen	1
07058	Manganese	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
07061	Nickel	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
01762	Potassium	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
07036	Selenium	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
07066	Silver	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
01767	Sodium	SW-846 6010C	1	181721063505	06/28/2018 01:59	Jonathan J Allen	1
07022	Thallium	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
07071	Vanadium	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
07072	Zinc	SW-846 6010C	1	181721063505	06/26/2018 05:50	Suzanne M Will	1
00259	Mercury	SW-846 7470A	1	181720571305	06/23/2018 08:02	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181721063505	06/22/2018 16:00	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

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Sample Description: **MW-46 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 08:35
SDG#: POW03-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670222
ELLE Group #: 1957520
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	181720571305	06/22/2018 17:40	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-11R Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 09:00
SDG#: POW03-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670223
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-11R Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 09:00
SDG#: POW03-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670223
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-11R Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 09:00
SDG#: POW03-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670223
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	21	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-11R Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 09:00
SDG#: POW03-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670223
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	5	11	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	2	1
14241	Pyrene	129-00-0	0.4 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	2	1
	Due to laboratory error Benzaldehyde, Atrazine, and Caprolactam were not spiked in the Laboratory Control Spike, Matrix Spike, and Matrix Spike Duplicate. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D. K1	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	67.9	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	223,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	2.7 J	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	N.D. K1	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	526,000	37.4	200	1
07058	Manganese	7439-96-5	180	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	195,000	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	4,790,000	6,520	40,000	20
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-11R Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 09:00
SDG#: POW03-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670223
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010C**	**ug/l**	**ug/l**	**ug/l**	
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1
		SW-846 7470A	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	5181792AA	06/29/2018 04:18	Kevin D Kelly	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	5181792AA	06/29/2018 04:18	Kevin D Kelly	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	18171WAM026	06/25/2018 17:09	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	18171WAM026	06/21/2018 08:30	Logan M Brosemer	1
01743	Aluminum	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
07044	Antimony	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
07035	Arsenic	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
07046	Barium	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
07047	Beryllium	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
07049	Cadmium	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
01750	Calcium	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
07051	Chromium	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
07052	Cobalt	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
07053	Copper	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
01754	Iron	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
07055	Lead	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
01757	Magnesium	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
07058	Manganese	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
07061	Nickel	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
01762	Potassium	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
07036	Selenium	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
07066	Silver	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
01767	Sodium	SW-846 6010C	1	181721063505	06/28/2018 02:01	Jonathan J Allen	20
07022	Thallium	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
07071	Vanadium	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
07072	Zinc	SW-846 6010C	1	181721063505	06/26/2018 05:53	Suzanne M Will	1
00259	Mercury	SW-846 7470A	1	181720571305	06/23/2018 08:04	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181721063505	06/22/2018 16:00	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	181720571305	06/22/2018 17:40	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-8 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 10:15
SDG#: POW03-07

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670224
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	2	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-8 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 10:15
SDG#: POW03-07

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670224
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-8 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 10:15
SDG#: POW03-07

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670224
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	22	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	31	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	0.1 J	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-8 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 10:15
SDG#: POW03-07

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670224
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	4-Nitrophenol	100-02-7	N.D.	10	31	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	5	11	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	2	1
14241	Pyrene	129-00-0	0.4 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	2	1
	Due to laboratory error Benzaldehyde, Atrazine, and Caprolactam were not spiked in the Laboratory Control Spike, Matrix Spike, and Matrix Spike Duplicate. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D. K1	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	66.8	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	208,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	2.7 J	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	170 J	40.0	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	525,000	37.4	200	1
07058	Manganese	7439-96-5	121	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	206,000	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	5,090,000	6,520	40,000	20
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-8 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 10:15
SDG#: POW03-07

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670224
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010C**	**ug/l**	**ug/l**	**ug/l**	
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1
		SW-846 7470A	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	5181792AA	06/29/2018 04:39	Kevin D Kelly	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	5181792AA	06/29/2018 04:39	Kevin D Kelly	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	18171WAM026	06/25/2018 18:06	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	18171WAM026	06/21/2018 08:30	Logan M Brosemer	1
01743	Aluminum	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
07044	Antimony	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
07035	Arsenic	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
07046	Barium	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
07047	Beryllium	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
07049	Cadmium	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
01750	Calcium	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
07051	Chromium	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
07052	Cobalt	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
07053	Copper	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
01754	Iron	SW-846 6010C	1	181721063505	06/27/2018 11:00	Eric L Eby	1
07055	Lead	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
01757	Magnesium	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
07058	Manganese	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
07061	Nickel	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
01762	Potassium	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
07036	Selenium	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
07066	Silver	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
01767	Sodium	SW-846 6010C	1	181721063505	06/28/2018 02:04	Jonathan J Allen	20
07022	Thallium	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
07071	Vanadium	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
07072	Zinc	SW-846 6010C	1	181721063505	06/26/2018 05:57	Suzanne M Will	1
00259	Mercury	SW-846 7470A	1	181720571305	06/23/2018 08:06	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181721063505	06/22/2018 16:00	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	181720571305	06/22/2018 17:40	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-52 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 10:35
SDG#: POW03-08

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670225
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-52 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 10:35
SDG#: POW03-08

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670225
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-52 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 10:35
SDG#: POW03-08

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670225
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	22	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	31	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-52 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 10:35
SDG#: POW03-08

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670225
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	4-Nitrophenol	100-02-7	N.D.	10	31	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	5	11	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	2	1
14241	Pyrene	129-00-0	0.3 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	2	1
	Due to laboratory error Benzaldehyde, Atrazine, and Caprolactam were not spiked in the Laboratory Control Spike, Matrix Spike, and Matrix Spike Duplicate. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D. K1	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	95.9	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	200,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	2.4 J	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	658	40.0	400	1
07055	Lead	7439-92-1	6.0 J	6.0	30.0	1
01757	Magnesium	7439-95-4	406,000	37.4	200	1
07058	Manganese	7439-96-5	127	1.6	10.0	1
07061	Nickel	7440-02-0	6.5 J	4.0	20.0	1
01762	Potassium	7440-09-7	154,000	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	3,500,000	3,260	20,000	10
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-52 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 10:35
SDG#: POW03-08

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670225
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010C**	**ug/l**	**ug/l**	**ug/l**	
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	23.1 J	6.5	40.0	1
		SW-846 7470A	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	5181792AA	06/29/2018 05:01	Kevin D Kelly	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	5181792AA	06/29/2018 05:01	Kevin D Kelly	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	18171WAM026	06/25/2018 18:34	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	18171WAM026	06/21/2018 08:30	Logan M Brosemer	1
01743	Aluminum	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
07044	Antimony	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
07035	Arsenic	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
07046	Barium	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
07047	Beryllium	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
07049	Cadmium	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
01750	Calcium	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
07051	Chromium	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
07052	Cobalt	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
07053	Copper	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
01754	Iron	SW-846 6010C	1	181721063505	06/27/2018 11:11	Eric L Eby	1
07055	Lead	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
01757	Magnesium	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
07058	Manganese	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
07061	Nickel	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
01762	Potassium	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
07036	Selenium	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
07066	Silver	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
01767	Sodium	SW-846 6010C	1	181721063505	06/27/2018 11:14	Eric L Eby	10
07022	Thallium	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
07071	Vanadium	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
07072	Zinc	SW-846 6010C	1	181721063505	06/26/2018 06:01	Suzanne M Will	1
00259	Mercury	SW-846 7470A	1	181720571305	06/23/2018 08:08	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181721063505	06/22/2018 16:00	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	181720571305	06/22/2018 17:40	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-62 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 13:20
SDG#: POW03-09

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670226
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	2	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-62 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 13:20
SDG#: POW03-09

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670226
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	2	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	2	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-62 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 13:20
SDG#: POW03-09

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670226
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	21	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-62 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 13:20
SDG#: POW03-09

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670226
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	5	11	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	2	1
14241	Pyrene	129-00-0	N.D.	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	2	1
	Due to laboratory error Benzaldehyde, Atrazine, and Caprolactam were not spiked in the Laboratory Control Spike, Matrix Spike, and Matrix Spike Duplicate. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	483 J	153	600	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	110	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	23.8	1.8	10.0	1
01750	Calcium	7440-70-2	46,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	13.4 J	4.0	20.0	1
01754	Iron	7439-89-6	8,670	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	4,640	37.4	200	1
07058	Manganese	7439-96-5	85.9	1.6	10.0	1
07061	Nickel	7440-02-0	5.5 J	4.0	20.0	1
01762	Potassium	7440-09-7	5,940	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	30,800	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	1.9 J	1.6	10.0	1
07072	Zinc	7440-66-6	125	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-62 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 13:20
SDG#: POW03-09

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670226
ELLE Group #: 1957520
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	5181801AA	06/29/2018 19:04	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	5181801AA	06/29/2018 19:04	Daniel H Heller	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	18171WAM026	06/25/2018 19:02	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	18171WAM026	06/21/2018 08:30	Logan M Brosemer	1
01743	Aluminum	SW-846 6010C	1	181721063505	06/28/2018 02:07	Jonathan J Allen	1
07044	Antimony	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
07035	Arsenic	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
07046	Barium	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
07047	Beryllium	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
07049	Cadmium	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
01750	Calcium	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
07051	Chromium	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
07052	Cobalt	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
07053	Copper	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
01754	Iron	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
07055	Lead	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
01757	Magnesium	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
07058	Manganese	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
07061	Nickel	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
01762	Potassium	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
07036	Selenium	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
07066	Silver	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
01767	Sodium	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
07022	Thallium	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
07071	Vanadium	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
07072	Zinc	SW-846 6010C	1	181721063505	06/26/2018 06:04	Suzanne M Will	1
00259	Mercury	SW-846 7470A	1	181720571305	06/23/2018 08:10	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181721063505	06/22/2018 16:00	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	181720571305	06/22/2018 17:40	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB062018 Grab Water**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 14:00
SDG#: POW03-10FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670227
ELLE Group #: 1957520
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB062018 Grab Water**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 14:00
SDG#: POW03-10FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670227
ELLE Group #: 1957520
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB062018 Grab Water**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 14:00
SDG#: POW03-10FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670227
ELLE Group #: 1957520
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	21	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB062018 Grab Water**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 14:00
SDG#: POW03-10FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670227
ELLE Group #: 1957520
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**		**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
14241	Di-n-octylphthalate	117-84-0	N.D.		5	11	1
14241	Pentachlorophenol	87-86-5	N.D.		1	5	1
14241	Phenanthrene	85-01-8	N.D.		0.1	0.5	1
14241	Phenol	108-95-2	N.D.		0.5	2	1
14241	Pyrene	129-00-0	N.D.		0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.		0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.		0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.		0.5	2	1
	Due to laboratory error Benzaldehyde, Atrazine, and Caprolactam were not spiked in the Laboratory Control Spike, Matrix Spike, and Matrix Spike Duplicate. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.						
Metals	**SW-846 6010C**		**ug/l**		**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	K1	89.4	400	1
07044	Antimony	7440-36-0	N.D.		8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.		9.6	40.0	1
07046	Barium	7440-39-3	N.D.		0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.		2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.		1.8	10.0	1
01750	Calcium	7440-70-2	N.D.	K1	60.0	400	1
07051	Chromium	7440-47-3	N.D.		3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.		1.7	10.0	1
07053	Copper	7440-50-8	N.D.		4.0	20.0	1
01754	Iron	7439-89-6	N.D.	K1	80.5	400	1
07055	Lead	7439-92-1	N.D.		6.0	30.0	1
01757	Magnesium	7439-95-4	N.D.	K1	37.4	200	1
07058	Manganese	7439-96-5	N.D.		1.6	10.0	1
07061	Nickel	7440-02-0	N.D.		4.0	20.0	1
01762	Potassium	7440-09-7	314	J	179	1,000	1
07036	Selenium	7782-49-2	N.D.		9.3	40.0	1
07066	Silver	7440-22-4	N.D.		2.4	10.0	1
01767	Sodium	7440-23-5	336	J	326	2,000	1
07022	Thallium	7440-28-0	N.D.		13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.		1.6	10.0	1
07072	Zinc	7440-66-6	N.D.		6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB062018 Grab Water**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/20/2018 14:00
SDG#: POW03-10FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670227
ELLE Group #: 1957520
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	5181801AA	06/29/2018 19:25	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	5181801AA	06/29/2018 19:25	Daniel H Heller	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	18171WAM026	06/25/2018 19:30	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	18171WAM026	06/21/2018 08:30	Logan M Brosemer	1
01743	Aluminum	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
07044	Antimony	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
07035	Arsenic	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
07046	Barium	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
07047	Beryllium	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
07049	Cadmium	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
01750	Calcium	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
07051	Chromium	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
07052	Cobalt	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
07053	Copper	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
01754	Iron	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
07055	Lead	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
01757	Magnesium	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
07058	Manganese	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
07061	Nickel	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
01762	Potassium	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
07036	Selenium	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
07066	Silver	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
01767	Sodium	SW-846 6010C	1	181721063505	06/28/2018 02:09	Jonathan J Allen	1
07022	Thallium	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
07071	Vanadium	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
07072	Zinc	SW-846 6010C	1	181721063505	06/26/2018 06:08	Suzanne M Will	1
00259	Mercury	SW-846 7470A	1	181720571305	06/23/2018 08:12	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181721063505	06/22/2018 16:00	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	181720571305	06/22/2018 17:40	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **Trip Blank Water**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/13/2018
SDG#: POW03-11TB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670228
ELLE Group #: 1957520
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **Trip Blank Water**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/20/2018 19:15
Collection Date/Time: 06/13/2018
SDG#: POW03-11TB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9670228
ELLE Group #: 1957520
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	5181801AA	06/29/2018 19:47	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	5181801AA	06/29/2018 19:47	Daniel H Heller	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates Group Number: 1957520
Reported: 06/30/2018 19:34

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: 5181792AA	Sample number(s): 9670215-9670219,9670221-9670225		
Acetone	N.D.	6	20
Benzene	N.D.	0.5	1
Bromochloromethane	N.D.	1	5
Bromodichloromethane	N.D.	0.5	1
Bromoform	N.D.	0.5	4
Bromomethane	N.D.	0.5	1
2-Butanone	N.D.	3	10
Carbon Disulfide	N.D.	1	5
Carbon Tetrachloride	N.D.	0.5	1
Chlorobenzene	N.D.	0.5	1
Chloroethane	N.D.	0.5	1
Chloroform	N.D.	0.5	1
Chloromethane	N.D.	0.5	1
Cyclohexane	N.D.	2	5
1,2-Dibromo-3-chloropropane	N.D.	2	5
Dibromochloromethane	N.D.	0.5	1
1,2-Dibromoethane	N.D.	0.5	1
1,2-Dichlorobenzene	N.D.	1	5
1,3-Dichlorobenzene	N.D.	1	5
1,4-Dichlorobenzene	N.D.	1	5
Dichlorodifluoromethane	N.D.	0.5	1
1,1-Dichloroethane	N.D.	0.5	1
1,2-Dichloroethane	N.D.	0.5	1
1,1-Dichloroethene	N.D.	0.5	1
cis-1,2-Dichloroethene	N.D.	0.5	1
trans-1,2-Dichloroethene	N.D.	0.5	1
1,2-Dichloropropane	N.D.	0.5	1
cis-1,3-Dichloropropene	N.D.	0.5	1
trans-1,3-Dichloropropene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Freon 113	N.D.	2	10
2-Hexanone	N.D.	3	10
Isopropylbenzene	N.D.	1	5
Methyl Acetate	N.D.	1	5
Methyl Tertiary Butyl Ether	N.D.	0.5	1
4-Methyl-2-pentanone	N.D.	3	10
Methylcyclohexane	N.D.	1	5
Methylene Chloride	N.D.	0.5	1
Styrene	N.D.	1	5

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1957520
Reported: 06/30/2018 19:34

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
1,1,2,2-Tetrachloroethane	N.D.	0.5	1
Tetrachloroethene	N.D.	0.5	1
Toluene	N.D.	0.5	1
1,2,3-Trichlorobenzene	N.D.	1	5
1,2,4-Trichlorobenzene	N.D.	1	5
1,1,1-Trichloroethane	N.D.	0.5	1
1,1,2-Trichloroethane	N.D.	0.5	1
Trichloroethene	N.D.	0.5	1
Trichlorofluoromethane	N.D.	0.5	1
Vinyl Chloride	N.D.	0.5	1
m+p-Xylene	N.D.	0.5	1
o-Xylene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: 5181801AA	Sample number(s): 9670226-9670228		
Acetone	N.D.	6	20
Benzene	N.D.	0.5	1
Bromochloromethane	N.D.	1	5
Bromodichloromethane	N.D.	0.5	1
Bromoform	N.D.	0.5	4
Bromomethane	N.D.	0.5	1
2-Butanone	N.D.	3	10
Carbon Disulfide	N.D.	1	5
Carbon Tetrachloride	N.D.	0.5	1
Chlorobenzene	N.D.	0.5	1
Chloroethane	N.D.	0.5	1
Chloroform	N.D.	0.5	1
Chloromethane	N.D.	0.5	1
Cyclohexane	N.D.	2	5
1,2-Dibromo-3-chloropropane	N.D.	2	5
Dibromochloromethane	N.D.	0.5	1
1,2-Dibromoethane	N.D.	0.5	1
1,2-Dichlorobenzene	N.D.	1	5
1,3-Dichlorobenzene	N.D.	1	5
1,4-Dichlorobenzene	N.D.	1	5
Dichlorodifluoromethane	N.D.	0.5	1
1,1-Dichloroethane	N.D.	0.5	1
1,2-Dichloroethane	N.D.	0.5	1
1,1-Dichloroethene	N.D.	0.5	1
cis-1,2-Dichloroethene	N.D.	0.5	1
trans-1,2-Dichloroethene	N.D.	0.5	1
1,2-Dichloropropane	N.D.	0.5	1
cis-1,3-Dichloropropene	N.D.	0.5	1
trans-1,3-Dichloropropene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1957520
Reported: 06/30/2018 19:34

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Freon 113	N.D.	2	10
2-Hexanone	N.D.	3	10
Isopropylbenzene	N.D.	1	5
Methyl Acetate	N.D.	1	5
Methyl Tertiary Butyl Ether	N.D.	0.5	1
4-Methyl-2-pentanone	N.D.	3	10
Methylcyclohexane	N.D.	1	5
Methylene Chloride	N.D.	0.5	1
Styrene	N.D.	1	5
1,1,2,2-Tetrachloroethane	N.D.	0.5	1
Tetrachloroethene	N.D.	0.5	1
Toluene	N.D.	0.5	1
1,2,3-Trichlorobenzene	N.D.	1	5
1,2,4-Trichlorobenzene	N.D.	1	5
1,1,1-Trichloroethane	N.D.	0.5	1
1,1,2-Trichloroethane	N.D.	0.5	1
Trichloroethene	N.D.	0.5	1
Trichlorofluoromethane	N.D.	0.5	1
Vinyl Chloride	N.D.	0.5	1
m+p-Xylene	N.D.	0.5	1
o-Xylene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: 18171WAM026	Sample number(s): 9670215-9670219,9670221-9670227		
Acenaphthene	N.D.	0.1	0.5
Acenaphthylene	N.D.	0.1	0.5
Acetophenone	N.D.	4	10
Anthracene	N.D.	0.1	0.5
Atrazine	N.D.	2	5
Benzaldehyde	N.D.	3	10
Benzo(a)anthracene	N.D.	0.1	0.5
Benzo(a)pyrene	N.D.	0.1	0.5
Benzo(b)fluoranthene	N.D.	0.1	0.5
Benzo(g,h,i)perylene	N.D.	0.1	0.5
Benzo(k)fluoranthene	N.D.	0.1	0.5
1,1'-Biphenyl	N.D.	3	10
4-Bromophenyl-phenylether	N.D.	0.5	2
Butylbenzylphthalate	N.D.	2	5
Di-n-butylphthalate	N.D.	2	5
Caprolactam	N.D.	5	11
Carbazole	N.D.	0.5	2
4-Chloro-3-methylphenol	N.D.	0.5	2
4-Chloroaniline	N.D.	4	10
bis(2-Chloroethoxy)methane	N.D.	0.5	2
bis(2-Chloroethyl)ether	N.D.	0.5	2

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1957520
Reported: 06/30/2018 19:34

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
bis(2-Chloroisopropyl)ether	N.D.	0.5	2
2-Chloronaphthalene	N.D.	0.4	1
2-Chlorophenol	N.D.	0.5	2
4-Chlorophenyl-phenylether	N.D.	0.5	2
Chrysene	N.D.	0.1	0.5
Dibenz(a,h)anthracene	N.D.	0.1	0.5
Dibenzofuran	N.D.	0.5	2
3,3'-Dichlorobenzidine	N.D.	3	10
2,4-Dichlorophenol	N.D.	0.5	2
Diethylphthalate	N.D.	2	5
2,4-Dimethylphenol	N.D.	3	10
Dimethylphthalate	N.D.	2	5
4,6-Dinitro-2-methylphenol	N.D.	8	21
2,4-Dinitrophenol	N.D.	14	30
2,4-Dinitrotoluene	N.D.	1	5
2,6-Dinitrotoluene	N.D.	0.5	2
1,4-Dioxane	N.D.	2	5
bis(2-Ethylhexyl)phthalate	N.D.	5	11
Fluoranthene	N.D.	0.1	0.5
Fluorene	N.D.	0.1	0.5
Hexachlorobenzene	N.D.	0.1	0.5
Hexachlorobutadiene	N.D.	0.5	2
Hexachlorocyclopentadiene	N.D.	5	11
Hexachloroethane	N.D.	1	5
Indeno(1,2,3-cd)pyrene	N.D.	0.1	0.5
Isophorone	N.D.	0.5	2
2-Methylnaphthalene	N.D.	0.1	0.5
2-Methylphenol	N.D.	0.5	2
4-Methylphenol	N.D.	0.5	2
Naphthalene	N.D.	0.1	0.5
2-Nitroaniline	N.D.	2	7
3-Nitroaniline	N.D.	3	7
4-Nitroaniline	N.D.	0.9	3
Nitrobenzene	N.D.	0.5	2
2-Nitrophenol	N.D.	3	10
4-Nitrophenol	N.D.	10	30
N-Nitroso-di-n-propylamine	N.D.	0.7	3
N-Nitrosodiphenylamine	N.D.	0.7	3
Di-n-octylphthalate	N.D.	5	11
Pentachlorophenol	N.D.	1	5
Phenanthrene	N.D.	0.1	0.5
Phenol	N.D.	0.5	2
Pyrene	N.D.	0.1	0.5
1,2,4,5-Tetrachlorobenzene	N.D.	0.5	2
2,3,4,6-Tetrachlorophenol	N.D.	4	10

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1957520
Reported: 06/30/2018 19:34

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
2,4,5-Trichlorophenol	N.D.	0.5	2
2,4,6-Trichlorophenol	N.D.	0.5	2
Batch number: 181720571305	Sample number(s): 9670215-9670227		
Mercury	N.D.	0.050	0.20
Batch number: 181721063505	Sample number(s): 9670215-9670227		
Aluminum	N.D.	89.4	400
Antimony	N.D.	8.7	40.0
Arsenic	N.D.	9.6	40.0
Barium	N.D.	0.85	10.0
Beryllium	N.D.	2.0	10.0
Cadmium	N.D.	1.8	10.0
Calcium	N.D.	60.0	400
Chromium	N.D.	3.3	30.0
Cobalt	N.D.	1.7	10.0
Copper	N.D.	4.0	20.0
Iron	N.D.	80.5	400
Lead	N.D.	6.0	30.0
Magnesium	N.D.	37.4	200
Manganese	N.D.	1.6	10.0
Nickel	N.D.	4.0	20.0
Potassium	N.D.	179	1,000
Selenium	N.D.	9.3	40.0
Silver	N.D.	2.4	10.0
Sodium	N.D.	321	2,000
Thallium	N.D.	13.7	60.0
Vanadium	N.D.	1.6	10.0
Zinc	N.D.	6.5	40.0

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 5181792AA	Sample number(s): 9670215-9670219,9670221-9670225								
Acetone	150	139.18			93		54-157		
Benzene	20	21.34			107		80-120		
Bromochloromethane	20	19.68			98		80-120		
Bromodichloromethane	20	20.1			100		71-120		
Bromoform	20	18.37			92		59-120		
Bromomethane	20	23.38			117		58-130		
2-Butanone	150	166.97			111		59-135		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1957520
Reported: 06/30/2018 19:34

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Carbon Disulfide	20	20.68			103		65-128		
Carbon Tetrachloride	20	24			120		64-134		
Chlorobenzene	20	20.68			103		80-120		
Chloroethane	20	22.49			112		61-123		
Chloroform	20	20.67			103		80-120		
Chloromethane	20	21.73			109		63-120		
Cyclohexane	20	18.68			93		67-121		
1,2-Dibromo-3-chloropropane	20	19.15			96		53-128		
Dibromochloromethane	20	19.88			99		71-120		
1,2-Dibromoethane	20	19.61			98		75-120		
1,2-Dichlorobenzene	20	19.94			100		80-120		
1,3-Dichlorobenzene	20	19.37			97		80-120		
1,4-Dichlorobenzene	20	19.71			99		80-120		
Dichlorodifluoromethane	20	18.56			93		47-124		
1,1-Dichloroethane	20	20.93			105		80-120		
1,2-Dichloroethane	20	20.76			104		73-124		
1,1-Dichloroethene	20	23.27			116		80-131		
cis-1,2-Dichloroethene	20	21.66			108		80-120		
trans-1,2-Dichloroethene	20	22.21			111		80-120		
1,2-Dichloropropane	20	21.21			106		80-120		
cis-1,3-Dichloropropene	20	19.46			97		75-120		
trans-1,3-Dichloropropene	20	19.07			95		76-120		
Ethylbenzene	20	21.59			108		80-120		
Freon 113	20	20.05			100		68-137		
2-Hexanone	100	117.4			117		50-141		
Isopropylbenzene	20	22.42			112		80-120		
Methyl Acetate	20	21.5			107		64-130		
Methyl Tertiary Butyl Ether	20	22.93			115		75-120		
4-Methyl-2-pentanone	100	114.73			115		62-133		
Methylcyclohexane	20	15.46			77		67-121		
Methylene Chloride	20	22.15			111		80-120		
Styrene	20	21.28			106		80-120		
1,1,2,2-Tetrachloroethane	20	19.54			98		72-120		
Tetrachloroethene	20	21.19			106		80-120		
Toluene	20	20.74			104		80-120		
1,2,3-Trichlorobenzene	20	20.02			100		66-120		
1,2,4-Trichlorobenzene	20	18.46			92		70-120		
1,1,1-Trichloroethane	20	20.95			105		67-126		
1,1,2-Trichloroethane	20	20.64			103		80-120		
Trichloroethene	20	20.58			103		80-120		
Trichlorofluoromethane	20	22.07			110		60-136		
Vinyl Chloride	20	21.98			110		68-120		
m+p-Xylene	40	43.02			108		80-120		
o-Xylene	20	20.04			100		80-120		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1957520
Reported: 06/30/2018 19:34

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Xylene (Total)	60	63.07			105		80-120		
Batch number: 5181801AA	Sample number(s): 9670226-9670228								
Acetone	150	134.78			90		54-157		
Benzene	20	20.38			102		80-120		
Bromochloromethane	20	18.9			95		80-120		
Bromodichloromethane	20	18.72			94		71-120		
Bromoform	20	16.14			81		59-120		
Bromomethane	20	17.71			89		58-130		
2-Butanone	150	147.44			98		59-135		
Carbon Disulfide	20	20.9			105		65-128		
Carbon Tetrachloride	20	20.94			105		64-134		
Chlorobenzene	20	19.63			98		80-120		
Chloroethane	20	17.08			85		61-123		
Chloroform	20	19.32			97		80-120		
Chloromethane	20	18.54			93		63-120		
Cyclohexane	20	20.6			103		67-121		
1,2-Dibromo-3-chloropropane	20	17.69			88		53-128		
Dibromochloromethane	20	17.99			90		71-120		
1,2-Dibromoethane	20	18.73			94		75-120		
1,2-Dichlorobenzene	20	19.58			98		80-120		
1,3-Dichlorobenzene	20	19.19			96		80-120		
1,4-Dichlorobenzene	20	19.71			99		80-120		
Dichlorodifluoromethane	20	18.32			92		47-124		
1,1-Dichloroethane	20	20.34			102		80-120		
1,2-Dichloroethane	20	19.16			96		73-124		
1,1-Dichloroethene	20	22.08			110		80-131		
cis-1,2-Dichloroethene	20	20.45			102		80-120		
trans-1,2-Dichloroethene	20	20.92			105		80-120		
1,2-Dichloropropane	20	20.77			104		80-120		
cis-1,3-Dichloropropene	20	18.61			93		75-120		
trans-1,3-Dichloropropene	20	18.25			91		76-120		
Ethylbenzene	20	20.76			104		80-120		
Freon 113	20	20.67			103		68-137		
2-Hexanone	100	106.18			106		50-141		
Isopropylbenzene	20	21.65			108		80-120		
Methyl Acetate	20	21.11			106		64-130		
Methyl Tertiary Butyl Ether	20	23.09			115		75-120		
4-Methyl-2-pentanone	100	104.13			104		62-133		
Methylcyclohexane	20	17.36			87		67-121		
Methylene Chloride	20	21.33			107		80-120		
Styrene	20	20.67			103		80-120		
1,1,2,2-Tetrachloroethane	20	20.49			102		72-120		
Tetrachloroethene	20	19.41			97		80-120		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1957520
Reported: 06/30/2018 19:34

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Toluene	20	20.24			101		80-120		
1,2,3-Trichlorobenzene	20	18.75			94		66-120		
1,2,4-Trichlorobenzene	20	18.07			90		70-120		
1,1,1-Trichloroethane	20	19.17			96		67-126		
1,1,2-Trichloroethane	20	20.08			100		80-120		
Trichloroethene	20	19.54			98		80-120		
Trichlorofluoromethane	20	18.39			92		60-136		
Vinyl Chloride	20	18.87			94		68-120		
m+p-Xylene	40	41.05			103		80-120		
o-Xylene	20	19.9			100		80-120		
Xylene (Total)	60	60.95			102		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 18171WAM026	Sample number(s): 9670215-9670219,9670221-9670227								
Acenaphthene	50	46.28			93		49-123		
Acenaphthylene	50	44.53			89		67-111		
Acetophenone	50	43.65			87		53-118		
Anthracene	50	48.8			98		55-126		
Benzo(a)anthracene	50	47.32			95		63-124		
Benzo(a)pyrene	50	49.18			98		50-128		
Benzo(b)fluoranthene	50	45.59			91		58-127		
Benzo(g,h,i)perylene	50	47.14			94		51-124		
Benzo(k)fluoranthene	50	48.99			98		63-123		
1,1'-Biphenyl	50	44.38			89		45-118		
4-Bromophenyl-phenylether	50	45.94			92		53-127		
Butylbenzylphthalate	50	39.51			79		40-131		
Di-n-butylphthalate	50	43.76			88		58-119		
Carbazole	50	48.09			96		65-123		
4-Chloro-3-methylphenol	50	43.67			87		50-130		
4-Chloroaniline	50	32.24			64		33-106		
bis(2-Chloroethoxy)methane	50	40.45			81		54-127		
bis(2-Chloroethyl)ether	50	41.24			82		48-119		
bis(2-Chloroisopropyl)ether	50	44.69			89		35-128		
2-Chloronaphthalene	50	43.7			87		41-123		
2-Chlorophenol	50	43.09			86		47-116		
4-Chlorophenyl-phenylether	50	42.22			84		45-124		
Chrysene	50	47.49			95		65-124		
Dibenz(a,h)anthracene	50	47.84			96		53-132		
Dibenzofuran	50	43.07			86		50-124		
3,3'-Dichlorobenzidine	50	39			78		32-106		
2,4-Dichlorophenol	50	45.22			90		53-126		
Diethylphthalate	50	37.51			75		42-124		
2,4-Dimethylphenol	50	33.29			67		41-103		
Dimethylphthalate	50	30.52			61		19-119		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1957520
Reported: 06/30/2018 19:34

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4,6-Dinitro-2-methylphenol	50	43.56			87		50-132		
2,4-Dinitrophenol	100	72.92			73		19-140		
2,4-Dinitrotoluene	50	43.45			87		56-128		
2,6-Dinitrotoluene	50	44.81			90		57-131		
1,4-Dioxane	50	21.64			43		18-67		
bis(2-Ethylhexyl)phthalate	50	43.62			87		52-132		
Fluoranthene	50	47.51			95		61-123		
Fluorene	50	44.54			89		48-124		
Hexachlorobenzene	50	47.08			94		57-123		
Hexachlorobutadiene	50	36.67			73		16-119		
Hexachlorocyclopentadiene	100	52.05			52		10-104		
Hexachloroethane	50	36.28			73		19-105		
Indeno(1,2,3-cd)pyrene	50	45.63			91		52-127		
Isophorone	50	43.25			86		49-129		
2-Methylnaphthalene	50	41.69			83		42-120		
2-Methylphenol	50	39.41			79		46-113		
4-Methylphenol	50	38.27			77		42-115		
Naphthalene	50	40.43			81		44-114		
2-Nitroaniline	50	46.13			92		54-133		
3-Nitroaniline	50	38.01			76		41-123		
4-Nitroaniline	50	40.02			80		46-114		
Nitrobenzene	50	40.97			82		43-128		
2-Nitrophenol	50	43.92			88		58-125		
4-Nitrophenol	50	29.54			59		10-96		
N-Nitroso-di-n-propylamine	50	44.99			90		48-128		
N-Nitrosodiphenylamine	50	46.34			93		55-128		
Di-n-octylphthalate	50	42.89			86		51-134		
Pentachlorophenol	50	44.99			90		50-127		
Phenanthrene	50	49.38			99		54-122		
Phenol	50	23.14			46		10-92		
Pyrene	50	46.41			93		54-123		
1,2,4,5-Tetrachlorobenzene	50	38.97			78		30-117		
2,3,4,6-Tetrachlorophenol	50	42.96			86		60-128		
2,4,5-Trichlorophenol	50	45.86			92		59-129		
2,4,6-Trichlorophenol	50	45.67			91		61-130		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 181720571305	Sample number(s): 9670215-9670227								
Mercury	1.00	0.796			80		80-114		
Batch number: 181721063505	Sample number(s): 9670215-9670227								
Aluminum	2000	2106.82			105		80-120		
Antimony	500	472.27			94		90-117		
Arsenic	150	150.63			100		80-120		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1957520
Reported: 06/30/2018 19:34

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Barium	2000	2045.17			102		87-111		
Beryllium	50	48.51			97		86-110		
Cadmium	50	50.1			100		90-111		
Calcium	4000	4014.82			100		88-112		
Chromium	200	197.82			99		87-110		
Cobalt	500	510.05			102		90-111		
Copper	250	253.87			102		90-115		
Iron	1000	1021.93			102		80-114		
Lead	150	151.74			101		87-113		
Magnesium	2000	1994.79			100		88-114		
Manganese	500	506.51			101		90-112		
Nickel	500	514.12			103		90-114		
Potassium	10000	10114.99			101		88-112		
Selenium	150	147.62			98		80-120		
Silver	50	50.3			101		80-120		
Sodium	10000	10001.02			100		87-112		
Thallium	150	156.71			104		80-120		
Vanadium	500	516.83			103		89-114		
Zinc	500	498.76			100		89-111		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 5181792AA	Sample number(s): 9670215-9670219,9670221-9670225 UNSPK: 9670217									
Acetone	N.D.	150	138.11	150	135.88	92	91	54-157	2	30
Benzene	N.D.	20	22.84	20	22.71	114	114	80-120	1	30
Bromochloromethane	N.D.	20	21.86	20	21.97	109	110	80-120	1	30
Bromodichloromethane	N.D.	20	22.28	20	21.72	111	109	71-120	3	30
Bromoform	N.D.	20	19.71	20	19.01	99	95	59-120	4	30
Bromomethane	N.D.	20	21.16	20	22.62	106	113	58-130	7	30
2-Butanone	N.D.	150	166.82	150	162.39	111	108	59-135	3	30
Carbon Disulfide	N.D.	20	23.27	20	23.82	116	119	65-128	2	30
Carbon Tetrachloride	N.D.	20	28.78	20	28.1	144*	141*	64-134	2	30
Chlorobenzene	N.D.	20	21.95	20	21.67	110	108	80-120	1	30
Chloroethane	N.D.	20	21.54	20	22.23	108	111	61-123	3	30
Chloroform	N.D.	20	22.75	20	22.21	114	111	80-120	2	30
Chloromethane	N.D.	20	19.88	20	21.27	99	106	63-120	7	30
Cyclohexane	N.D.	20	23.49	20	23.58	117	118	67-121	0	30

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1957520
Reported: 06/30/2018 19:34

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
1,2-Dibromo-3-chloropropane	N.D.	20	19.26	20	19.06	96	95	53-128	1	30
Dibromochloromethane	N.D.	20	21.34	20	20.54	107	103	71-120	4	30
1,2-Dibromoethane	N.D.	20	20.48	20	20.26	102	101	75-120	1	30
1,2-Dichlorobenzene	N.D.	20	21.06	20	20.78	105	104	80-120	1	30
1,3-Dichlorobenzene	N.D.	20	20.57	20	20.3	103	101	80-120	1	30
1,4-Dichlorobenzene	N.D.	20	21.06	20	20.95	105	105	80-120	1	30
Dichlorodifluoromethane	N.D.	20	23.28	20	23.79	116	119	47-124	2	30
1,1-Dichloroethane	N.D.	20	22.52	20	22.73	113	114	80-120	1	30
1,2-Dichloroethane	N.D.	20	23.41	20	22.74	117	114	73-124	3	30
1,1-Dichloroethene	N.D.	20	26.09	20	26.2	130	131	80-131	0	30
cis-1,2-Dichloroethene	N.D.	20	22.8	20	22.56	114	113	80-120	1	30
trans-1,2-Dichloroethene	N.D.	20	23.65	20	23.55	118	118	80-120	0	30
1,2-Dichloropropane	N.D.	20	22.93	20	22.92	115	115	80-120	0	30
cis-1,3-Dichloropropene	N.D.	20	18.97	20	19.11	95	96	75-120	1	30
trans-1,3-Dichloropropene	N.D.	20	19.55	20	19.74	98	99	76-120	1	30
Ethylbenzene	N.D.	20	23.03	20	22.58	115	113	80-120	2	30
Freon 113	N.D.	20	28.31	20	28.08	142*	140*	68-137	1	30
2-Hexanone	N.D.	100	121.33	100	117.82	121	118	50-141	3	30
Isopropylbenzene	N.D.	20	23.71	20	23.62	119	118	80-120	0	30
Methyl Acetate	N.D.	20	21.92	20	23.12	110	116	64-130	5	30
Methyl Tertiary Butyl Ether	N.D.	20	24.66	20	25.09	123*	125*	75-120	2	30
4-Methyl-2-pentanone	N.D.	100	117.82	100	115.99	118	116	62-133	2	30
Methylcyclohexane	N.D.	20	20.37	20	20.91	102	105	67-121	3	30
Methylene Chloride	N.D.	20	23.38	20	23.2	117	116	80-120	1	30
Styrene	N.D.	20	22.93	20	22.75	115	114	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	20	20.05	20	19.96	100	100	72-120	0	30
Tetrachloroethene	N.D.	20	23.19	20	22.51	116	113	80-120	3	30
Toluene	N.D.	20	22.03	20	21.71	110	109	80-120	1	30
1,2,3-Trichlorobenzene	N.D.	20	20.99	20	21.2	105	106	66-120	1	30
1,2,4-Trichlorobenzene	N.D.	20	18.86	20	19.74	94	99	70-120	5	30
1,1,1-Trichloroethane	N.D.	20	24.65	20	23.91	123	120	67-126	3	30
1,1,2-Trichloroethane	N.D.	20	21.29	20	21.39	106	107	80-120	0	30
Trichloroethene	N.D.	20	22.33	20	22.08	112	110	80-120	1	30
Trichlorofluoromethane	N.D.	20	26.19	20	26.3	131	131	60-136	0	30
Vinyl Chloride	N.D.	20	21.54	20	23.23	108	116	68-120	8	30
m+p-Xylene	N.D.	40	45.84	40	45.52	115	114	80-120	1	30
o-Xylene	N.D.	20	21.37	20	21.19	107	106	80-120	1	30
Xylene (Total)	N.D.	60	67.21	60	66.71	112	111	80-120	1	30
Batch number: 5181801AA	Sample number(s): 9670226-9670228 UNSPK: P675793									
Acetone	6.04	150	135.96	150	133.03	87	85	54-157	2	30
Benzene	N.D.	20	21.86	20	21.96	109	110	80-120	0	30
Bromochloromethane	N.D.	20	18.52	20	18.67	93	93	80-120	1	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1957520
Reported: 06/30/2018 19:34

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Bromodichloromethane	N.D.	20	19.33	20	19.08	97	95	71-120	1	30
Bromoform	N.D.	20	16.96	20	16.21	85	81	59-120	4	30
Bromomethane	N.D.	20	15.03	20	14.28	75	71	58-130	5	30
2-Butanone	N.D.	150	157.05	150	160.12	105	107	59-135	2	30
Carbon Disulfide	N.D.	20	22.62	20	23.49	113	117	65-128	4	30
Carbon Tetrachloride	N.D.	20	23.37	20	23.35	117	117	64-134	0	30
Chlorobenzene	N.D.	20	21.06	20	20.92	105	105	80-120	1	30
Chloroethane	N.D.	20	16.2	20	15.51	81	78	61-123	4	30
Chloroform	N.D.	20	20.28	20	20.17	101	101	80-120	1	30
Chloromethane	N.D.	20	17.61	20	17.29	88	86	63-120	2	30
Cyclohexane	N.D.	20	23.35	20	24.29	117	121	67-121	4	30
1,2-Dibromo-3-chloropropane	N.D.	20	19.62	20	19.7	98	99	53-128	0	30
Dibromochloromethane	N.D.	20	18.91	20	18.36	95	92	71-120	3	30
1,2-Dibromoethane	N.D.	20	19.14	20	19.18	96	96	75-120	0	30
1,2-Dichlorobenzene	N.D.	20	20.42	20	20.56	102	103	80-120	1	30
1,3-Dichlorobenzene	N.D.	20	20.24	20	20.57	101	103	80-120	2	30
1,4-Dichlorobenzene	N.D.	20	20.51	20	20.88	103	104	80-120	2	30
Dichlorodifluoromethane	N.D.	20	16.73	20	16.56	84	83	47-124	1	30
1,1-Dichloroethane	N.D.	20	21.57	20	21.61	108	108	80-120	0	30
1,2-Dichloroethane	N.D.	20	19.31	20	18.14	97	91	73-124	6	30
1,1-Dichloroethene	N.D.	20	24.42	20	25.88	122	129	80-131	6	30
cis-1,2-Dichloroethene	N.D.	20	22.01	20	21.85	110	109	80-120	1	30
trans-1,2-Dichloroethene	N.D.	20	22.51	20	22.84	113	114	80-120	1	30
1,2-Dichloropropane	N.D.	20	22.13	20	21.85	111	109	80-120	1	30
cis-1,3-Dichloropropene	N.D.	20	18.88	20	18.79	94	94	75-120	0	30
trans-1,3-Dichloropropene	N.D.	20	19.27	20	18.87	96	94	76-120	2	30
Ethylbenzene	N.D.	20	22.39	20	22.7	112	114	80-120	1	30
Freon 113	N.D.	20	25	20	25.71	125	129	68-137	3	30
2-Hexanone	N.D.	100	115.8	100	114.74	116	115	50-141	1	30
Isopropylbenzene	N.D.	20	22.98	20	23.79	115	119	80-120	3	30
Methyl Acetate	N.D.	20	20.11	20	20.28	101	101	64-130	1	30
Methyl Tertiary Butyl Ether	N.D.	20	23.43	20	22.95	117	115	75-120	2	30
4-Methyl-2-pentanone	N.D.	100	109.02	100	108.22	109	108	62-133	1	30
Methylcyclohexane	N.D.	20	19.37	20	19.78	97	99	67-121	2	30
Methylene Chloride	N.D.	20	22.28	20	22.17	111	111	80-120	1	30
Styrene	N.D.	20	21.93	20	21.81	110	109	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	20	21.02	20	20.87	105	104	72-120	1	30
Tetrachloroethene	N.D.	20	21.28	20	22.06	106	110	80-120	4	30
Toluene	N.D.	20	22.35	20	22.65	112	113	80-120	1	30
1,2,3-Trichlorobenzene	N.D.	20	21.8	20	21.61	109	108	66-120	1	30
1,2,4-Trichlorobenzene	N.D.	20	21.18	20	21.27	106	106	70-120	0	30
1,1,1-Trichloroethane	N.D.	20	20.27	20	20.46	101	102	67-126	1	30
1,1,2-Trichloroethane	N.D.	20	20.96	20	20.33	105	102	80-120	3	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1957520
Reported: 06/30/2018 19:34

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Trichloroethene	N.D.	20	20.96	20	21.54	105	108	80-120	3	30
Trichlorofluoromethane	N.D.	20	19.89	20	19.82	99	99	60-136	0	30
Vinyl Chloride	N.D.	20	18.84	20	19.09	94	95	68-120	1	30
m+p-Xylene	N.D.	40	44.36	40	44.91	111	112	80-120	1	30
o-Xylene	N.D.	20	21.15	20	21.45	106	107	80-120	1	30
Xylene (Total)	N.D.	60	65.51	60	66.36	109	111	80-120	1	30
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 18171WAM026	Sample number(s): 9670215-9670219,9670221-9670227 UNSPK: 9670217									
Acenaphthene	N.D.	51.02	48.96	51.87	51.36	96	99	49-123	5	30
Acenaphthylene	N.D.	51.02	47.52	51.87	49.97	93	96	67-111	5	30
Acetophenone	N.D.	51.02	45.22	51.87	47.64	89	92	53-118	5	30
Anthracene	N.D.	51.02	54.47	51.87	55.57	107	107	55-126	2	30
Benzo(a)anthracene	N.D.	51.02	50.79	51.87	52.19	100	101	63-124	3	30
Benzo(a)pyrene	N.D.	51.02	49.23	51.87	51.44	96	99	50-128	4	30
Benzo(b)fluoranthene	N.D.	51.02	46.27	51.87	48.98	91	94	58-127	6	30
Benzo(g,h,i)perylene	N.D.	51.02	45.81	51.87	46.44	90	90	51-124	1	30
Benzo(k)fluoranthene	N.D.	51.02	49.4	51.87	49.53	97	95	63-123	0	30
1,1'-Biphenyl	N.D.	51.02	47.88	51.87	49.61	94	96	45-118	4	30
4-Bromophenyl-phenylether	N.D.	51.02	46.69	51.87	49.6	92	96	53-127	6	30
Butylbenzylphthalate	N.D.	51.02	48.09	51.87	49.5	94	95	40-131	3	30
Di-n-butylphthalate	N.D.	51.02	49.61	51.87	50.43	97	97	58-119	2	30
Carbazole	N.D.	51.02	52.74	51.87	53.78	103	104	65-123	2	30
4-Chloro-3-methylphenol	N.D.	51.02	47.77	51.87	48.27	94	93	50-130	1	30
4-Chloroaniline	N.D.	51.02	30.86	51.87	30.2	60	58	33-106	2	30
bis(2-Chloroethoxy)methane	N.D.	51.02	40.93	51.87	42.21	80	81	54-127	3	30
bis(2-Chloroethyl)ether	N.D.	51.02	42.92	51.87	44.71	84	86	48-119	4	30
bis(2-Chloroisopropyl)ether	N.D.	51.02	46.36	51.87	48.99	91	94	35-128	6	30
2-Chloronaphthalene	N.D.	51.02	48.22	51.87	50.25	95	97	41-123	4	30
2-Chlorophenol	N.D.	51.02	44.4	51.87	46.85	87	90	47-116	5	30
4-Chlorophenyl-phenylether	N.D.	51.02	45.21	51.87	46.85	89	90	45-124	4	30
Chrysene	N.D.	51.02	51.44	51.87	52.39	101	101	65-124	2	30
Dibenz(a,h)anthracene	N.D.	51.02	47.45	51.87	47.32	93	91	53-132	0	30
Dibenzofuran	N.D.	51.02	45.97	51.87	47.89	90	92	50-124	4	30
3,3'-Dichlorobenzidine	N.D.	51.02	30.55	51.87	28.66	60	55	32-106	6	30
2,4-Dichlorophenol	N.D.	51.02	47.02	51.87	49.05	92	95	53-126	4	30
Diethylphthalate	N.D.	51.02	40.74	51.87	41.87	80	81	42-124	3	30
2,4-Dimethylphenol	N.D.	51.02	36.22	51.87	37.68	71	73	41-103	4	30
Dimethylphthalate	N.D.	51.02	40.72	51.87	42.67	80	82	19-119	5	30
4,6-Dinitro-2-methylphenol	N.D.	51.02	48.22	51.87	50.94	95	98	50-132	5	30
2,4-Dinitrophenol	N.D.	102.04	81.04	103.73	88.17	79	85	19-140	8	30
2,4-Dinitrotoluene	N.D.	51.02	43.7	51.87	44.09	86	85	56-128	1	30
2,6-Dinitrotoluene	N.D.	51.02	44.5	51.87	46.22	87	89	57-131	4	30

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(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1957520
Reported: 06/30/2018 19:34

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
1,4-Dioxane	N.D.	51.02	22.68	51.87	24.41	44	47	18-67	7	30
bis(2-Ethylhexyl)phthalate	N.D.	51.02	48.34	51.87	48.9	95	94	52-132	1	30
Fluoranthene	N.D.	51.02	51.97	51.87	53.51	102	103	61-123	3	30
Fluorene	N.D.	51.02	46.9	51.87	48.73	92	94	48-124	4	30
Hexachlorobenzene	N.D.	51.02	52.14	51.87	52.33	102	101	57-123	0	30
Hexachlorobutadiene	N.D.	51.02	39.51	51.87	41.51	77	80	16-119	5	30
Hexachlorocyclopentadiene	N.D.	102.04	73.77	103.73	79.3	72	76	10-104	7	30
Hexachloroethane	N.D.	51.02	38.79	51.87	40.79	76	79	19-105	5	30
Indeno(1,2,3-cd)pyrene	N.D.	51.02	44.93	51.87	45.27	88	87	52-127	1	30
Isophorone	N.D.	51.02	45.81	51.87	47.68	90	92	49-129	4	30
2-Methylnaphthalene	N.D.	51.02	45.36	51.87	46.88	89	90	42-120	3	30
2-Methylphenol	N.D.	51.02	43.62	51.87	46.39	85	89	46-113	6	30
4-Methylphenol	N.D.	51.02	43.88	51.87	45.32	86	87	42-115	3	30
Naphthalene	N.D.	51.02	43.01	51.87	44.8	84	86	44-114	4	30
2-Nitroaniline	N.D.	51.02	44.6	51.87	44.85	87	86	54-133	1	30
3-Nitroaniline	N.D.	51.02	36.26	51.87	37.85	71	73	41-123	4	30
4-Nitroaniline	N.D.	51.02	39.37	51.87	40.61	77	78	46-114	3	30
Nitrobenzene	N.D.	51.02	43.39	51.87	45.42	85	88	43-128	5	30
2-Nitrophenol	N.D.	51.02	46.92	51.87	49.47	92	95	58-125	5	30
4-Nitrophenol	N.D.	51.02	34.43	51.87	35.02	67	68	10-96	2	30
N-Nitroso-di-n-propylamine	N.D.	51.02	46.15	51.87	49.24	90	95	48-128	6	30
N-Nitrosodiphenylamine	N.D.	51.02	47.07	51.87	48.44	92	93	55-128	3	30
Di-n-octylphthalate	N.D.	51.02	46.54	51.87	46.72	91	90	51-134	0	30
Pentachlorophenol	N.D.	51.02	52.56	51.87	54.74	103	106	50-127	4	30
Phenanthrene	N.D.	51.02	52.41	51.87	52.83	103	102	54-122	1	30
Phenol	N.D.	51.02	30.08	51.87	31.22	59	60	10-92	4	30
Pyrene	0.205	51.02	48.12	51.87	49.84	94	96	54-123	4	30
1,2,4,5-Tetrachlorobenzene	N.D.	51.02	42.01	51.87	44.43	82	86	30-117	6	30
2,3,4,6-Tetrachlorophenol	N.D.	51.02	46.09	51.87	45.27	90	87	60-128	2	30
2,4,5-Trichlorophenol	N.D.	51.02	48.36	51.87	50.26	95	97	59-129	4	30
2,4,6-Trichlorophenol	N.D.	51.02	49.04	51.87	50.95	96	98	61-130	4	30
	ug/l	**ug/l**	**ug/l**	**ug/l**	**ug/l**					
Batch number: 181720571305	Sample number(s): 9670215-9670227 UNSPK: 9670217									
Mercury	N.D.	1.00	0.777	1.00	0.742	78*	74*	80-120	5	20
Batch number: 181721063505	Sample number(s): 9670215-9670227 UNSPK: 9670217									
Aluminum	N.D.	2000	2193.07	2000	2188.32	110	109	75-125	0	20
Antimony	N.D.	500	463.68	500	478.34	93	96	75-125	3	20
Arsenic	41.06	150	191.53	150	196.6	100	104	75-125	3	20
Barium	149.94	2000	2050.27	2000	2106.13	95	98	75-125	3	20
Beryllium	N.D.	50	49.74	50	51.12	99	102	82-112	3	20
Cadmium	N.D.	50	48.14	50	49.09	96	98	75-125	2	20

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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1957520
Reported: 06/30/2018 19:34

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Calcium	108122.38	4000	113252.76	4000	114449.84	128 (2)	158 (2)	75-125	1	20
Chromium	N.D.	200	193.23	200	197.13	97	99	75-125	2	20
Cobalt	N.D.	500	481.55	500	490.83	96	98	80-118	2	20
Copper	N.D.	250	244.1	250	249.25	98	100	75-125	2	20
Iron	16506.22	1000	18077.43	1000	17563.53	157 (2)	106 (2)	75-125	3	20
Lead	N.D.	150	141.16	150	142.79	94	95	75-125	1	20
Magnesium	50039.02	2000	53169.93	2000	53261.99	157 (2)	161 (2)	75-125	0	20
Manganese	423.38	500	919.22	500	919.41	99	99	75-125	0	20
Nickel	N.D.	500	485.25	500	495.05	97	99	75-125	2	20
Potassium	21802.33	10000	31868.88	10000	32542.92	101	107	75-125	2	20
Selenium	N.D.	150	145.26	150	152.18	97	101	75-125	5	20
Silver	N.D.	50	50.12	50	50.31	100	101	75-125	0	20
Sodium	370616.4	10000	378475.53	10000	384529.77	79 (2)	139 (2)	75-125	2	20
Thallium	N.D.	150	139.9	150	141.69	93	94	75-125	1	20
Vanadium	1.68	500	520.41	500	531.77	104	106	75-125	2	20
Zinc	N.D.	500	489.85	500	499.98	98	100	75-125	2	20

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc ug/l	DUP Conc ug/l	DUP RPD	DUP RPD Max
Batch number: 181720571305	Sample number(s): 9670215-9670227 BKG: 9670217			
Mercury	N.D.	N.D.	0 (1)	20
Batch number: 181721063505	Sample number(s): 9670215-9670227 BKG: 9670217			
Aluminum	N.D.	N.D.	0 (1)	20
Antimony	N.D.	N.D.	0 (1)	20
Arsenic	41.06	41.12	0 (1)	20
Barium	149.94	153.12	2	20
Beryllium	N.D.	N.D.	0 (1)	20
Cadmium	N.D.	N.D.	0 (1)	20
Calcium	108122.38	111879.04	3	20
Chromium	N.D.	N.D.	0 (1)	20
Cobalt	N.D.	N.D.	0 (1)	20
Copper	N.D.	N.D.	0 (1)	20
Iron	16506.22	17055.1	3	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1957520
Reported: 06/30/2018 19:34

Laboratory Duplicate (continued)

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc ug/l	DUP Conc ug/l	DUP RPD	DUP RPD Max
Lead	N.D.	N.D.	0 (1)	20
Magnesium	50039.02	51739.01	3	20
Manganese	423.38	427.82	1	20
Nickel	N.D.	N.D.	0 (1)	20
Potassium	21802.33	22616.43	4	20
Selenium	N.D.	N.D.	0 (1)	20
Silver	N.D.	N.D.	0 (1)	20
Sodium	370616.4	384006.05	4	20
Thallium	N.D.	N.D.	0 (1)	20
Vanadium	1.68	N.D.	200* (1)	20
Zinc	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles - Pratt Oil
Batch number: 5181792AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9670215	101	103	98	99
9670216	102	105	99	102
9670217	106	108	99	98
9670218	104	108	102	111
9670219	101	105	101	106
9670221	102	105	100	100
9670222	102	102	100	97
9670223	103	104	100	98
9670224	103	105	100	100
9670225	106	106	98	99
Blank	100	103	100	99
LCS	98	101	103	107
MS	104	108	102	111
MSD	101	105	101	106
Limits:	80-120	80-120	80-120	80-120

Analysis Name: GC/MS Volatiles - Pratt Oil
Batch number: 5181801AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9670226	91	102	102	100
9670227	93	103	102	98

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1957520
Reported: 06/30/2018 19:34

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles - Pratt Oil
Batch number: 5181801AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9670228	93	103	101	97
Blank	94	102	100	97
LCS	94	106	102	105
MS	93	101	103	105
MSD	92	98	103	104
Limits:	80-120	80-120	80-120	80-120

Analysis Name: SVOAs 8270D MINI
Batch number: 18171WAM026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9670215	32	36	81	59	68	80
9670216	35	43	81	66	69	83
9670217	42	43	84	66	74	85
9670218	56	60	80	80	83	84
9670219	57	63	81	82	86	84
9670221	38	44	86	70	76	83
9670222	25	30	66	65	68	74
9670223	38	44	79	66	70	80
9670224	40	47	82	72	76	76
9670225	33	37	78	59	66	75
9670226	34	45	84	71	74	72
9670227	28	32	54	66	69	93
Blank	31	43	81	75	80	94
LCS	43	57	83	78	82	88
MS	56	60	80	80	83	84
MSD	57	63	81	82	86	84
Limits:	10-71	10-82	21-134	30-111	39-105	27-116

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

ExxonMobil Analysis Request/Chain of Custody

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FMES - Eurofins Agreement # A2604415

Acct. # 13438 Group # 1957520 Sample # 9670215-28

Consultant Company: Roux			
Site Address: Review Ave, LIC, NY	Site ID #:		
Consultant PM: Tully Sodre	P.O. #: 0172.0291Y604		
Sampler: EB/MD	XOM PM: Frank Messina		
Bill to : ☐ XOM ☐ Consultant	Contract # A2604415		
State where samples were collected: NY	For Compliance: Yes ☐ No ☐		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil ☐ Sediment ☐ Tissue ☐ / Water ☑ Potable ☐ Ground ☐ NPDES ☐ Surface ☐ / Other:	Total # of Containers	Analyses Requested: VOCs 8260C	SVOCs 8270D	Total Metals 6010C 7470A	Remarks
							Preservation and Filtration Codes: H		N	
MW-1	6/19/18	1120			X	6	X	X	X	
DUP061918	6/19/18	1200			X	6	X	X	X	
MW-10	6/19/18	1210			X	18	X	X	X	In triplicate for MS/MSD
MW-13	6/19/18	1335			X	6	X	X	X	
MW-46	6/20/18	0835			X	6	X	X	X	
MW-11R	6/20/18	0900			X	6	X	X	X	
MW-8	6/20/18	1015			X	6	X	X	X	
MW-52	6/20/18	1035			X	6	X	X	X	
MW-02	6/20/18	1320			X	6	X	X	X	
FB062018	6/20/18	1400			X	6	X	X	X	

For Lab Use Only

SF #: _____

SCR #: 226812

Preservation Codes

H = HCl T = Thiosulfate

N = HNO_3 B = NaOH

S = H_2SO_4 P = H_3PO_4

F = Field Filtered O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

RUSH (Please circle one): 5 day 4 day 72 hour 48 hour 24 hour

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ OTHER

Type III (Reduced non-CLP/NJ Reduced) ☐ _____

TX TRRP-13 ☐

NJ DKQP ☐

NYSDEC Category ☐ A ☑ B

EDD Format(s) Needed: Yes

Relinquished by:	Date	Time	Received by:	Date	Time
Edwin Hernandez	6/13/18	1420		6/20/18	1420
	6/20/18	1420		6/20/18	1400
	6/20/18	1915			
				6/20/18	19:15

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 4.7 °C

ExxonMobil Analysis Request/Chain of Custody

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Acct. # 13438 Group # 1951520 Sample # 9670215-28

Consultant Company: Roux			
Site Address: Review Ave, LIC, NY	Site ID #:		
Consultant PM: Tully Sadre	P.O. #: 0172.0291Y004		
Sampler: EB/MD	XOM PM: Frank Messina		
Bill to : ☐ XOM ☐ Consultant	Contract # A2604415		
State where samples were collected: NY	For Compliance: Yes ☐ No ☐		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil ☐ Sediment ☐ Tissue	Water: Potable ☐ Ground ☐ NPDES ☐ Surface	Other:	Total # of Containers	Analyses Requested: VOCs 8260C	Remarks
Trip Blank	6/18/18	—					✓	2	X	

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

RUSH (Please circle one): 5 day 4 day 72 hour 48 hour 24 hour

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐

Type III (Reduced non-CLP/NJ Reduced) ☐

TX TRRP-13 ☐

NJ DKQP ☐

NYSDEC Category ☐ A ☑ B

OTHER _____

EDD Format(s) Needed: Yes

Relinquished by:	Date	Time	Received by:	Date	Time
	6/20/18	1420		6/20/18	1426
	6/20/18	1915			

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 4.7 °C

For Lab Use Only

SF #: _____

SCR #: 226812

Preservation Codes

H = HCl T = Thiosulfate

N = HNO_3 B = NaOH

S = H_2SO_4 P = H_3PO_4

F = Field Filtered O = Other

Preservation and Filtration Codes

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Sample Administration Receipt Documentation Log

Doc Log ID: 219683

Group Number(s): 1957520

Client: Roux

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	06/20/2018 19:15
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	NY		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Wanita Curry (14057) at 19:56 on 06/20/2018

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	4.7	DT	Wet	Y	Bagged	N
2	DT146	0.9	DT	Wet	Y	Loose/Bag	N

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Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

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ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ExxonMobil c/o Roux Associates
209 Shafter Street
Islandia NY 11749

Report Date: July 05, 2018 17:46

Project: FPOW

Account #: 13438
Group Number: 1958702
SDG: POW04
PO Number: 0172.0291Y004
Release Number: (SEE COC)
State of Sample Origin: NY

To view our laboratory's current scopes of accreditation please go to http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . Historical copies may be requested through your project manager.

Electronic Copy To	ExxonMobil c/o Roux Associates	Attn: Dana Hignell
Electronic Copy To	Roux Associates	Attn: Brandon Tufano

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261



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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
MW-31 Grab Groundwater	06/21/2018 09:05	9675196
MW-60D Grab Groundwater	06/21/2018 09:35	9675197
MW-21 Grab Groundwater	06/21/2018 12:25	9675198
MW-59 Grab Groundwater	06/21/2018 13:35	9675199
MW-59 Filtered Grab Groundwater	06/21/2018 13:35	9675200
MW-69 Grab Groundwater	06/22/2018 09:20	9675201
MW-20 Grab Groundwater	06/22/2018 09:30	9675202
FB062218 Grab Water	06/22/2018 13:15	9675203
Trip Blank Water	06/13/2018	9675204

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Project Name: FPOW
ELLE Group #: 1958702

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below.

Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set.

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

SW-846 8260C, GC/MS Volatiles

Sample #s: 9675196, 9675197, 9675198, 9675199, 9675201, 9675202, 9675203, 9675204

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

Batch #: L181811AA (Sample number(s): 9675196-9675198, 9675203-9675204)

The recovery(ies) for the following analyte(s) in the LCS exceeded the acceptance window indicating a positive bias: Cyclohexane

SW-846 8270D, GC/MS Semivolatiles

Sample #s: 9675196, 9675197, 9675198, 9675199, 9675201, 9675202, 9675203

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

Sample Description: **MW-31 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 09:05
SDG#: POW04-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675196
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-31 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 09:05
SDG#: POW04-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675196
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	0.3 J	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-31 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 09:05
SDG#: POW04-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675196
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	21	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	0.4 J	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	0.1 J	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-31 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 09:05
SDG#: POW04-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675196
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	5	11	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	2	1
14241	Pyrene	129-00-0	N.D.	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	2	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	153	600	1
07044	Antimony	7440-36-0	N.D.	10.0	100	1
07035	Arsenic	7440-38-2	N.D.	16.0	100	1
07046	Barium	7440-39-3	413	1.0	10.0	1
07047	Beryllium	7440-41-7	N.D.	1.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.0	10.0	1
01750	Calcium	7440-70-2	462,000	33.0	1,000	1
07051	Chromium	7440-47-3	N.D.	6.2	30.0	1
07052	Cobalt	7440-48-4	2.5 J	1.5	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	40.0	1
01754	Iron	7439-89-6	22,800	40.0	400	1
07055	Lead	7439-92-1	74.3	7.1	30.0	1
01757	Magnesium	7439-95-4	61,900	19.0	200	1
07058	Manganese	7439-96-5	2,630	1.1	20.0	1
07061	Nickel	7440-02-0	4.0 J	3.1	20.0	1
01762	Potassium	7440-09-7	78,600	179	1,000	1
07036	Selenium	7782-49-2	N.D.	21.0	100	1
07066	Silver	7440-22-4	N.D.	5.0	20.0	1
01767	Sodium	7440-23-5	475,000	1,630	10,000	5
07022	Thallium	7440-28-0	N.D.	14.0	60.0	1
07071	Vanadium	7440-62-2	N.D.	3.0	20.0	1
07072	Zinc	7440-66-6	13.9 J	3.0	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-31 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 09:05
SDG#: POW04-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675196
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	0.072 J	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L181811AA	06/30/2018 16:33	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L181811AA	06/30/2018 16:33	Linda C Pape	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	18176WAB026	06/27/2018 04:12	Ashley R Transue	1
11010	8270D BNA Extraction	SW-846 3510C	1	18176WAB026	06/25/2018 16:10	Osvaldo R Sanchez	1
01743	Aluminum	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
07044	Antimony	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
07035	Arsenic	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
07046	Barium	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
07047	Beryllium	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
07049	Cadmium	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
01750	Calcium	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
07051	Chromium	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
07052	Cobalt	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
07053	Copper	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
01754	Iron	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
01757	Magnesium	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
07058	Manganese	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
07061	Nickel	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
01762	Potassium	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
07036	Selenium	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
01767	Sodium	SW-846 6010C	1	181771063502	06/28/2018 23:45	Xavier Arroyo	5
07022	Thallium	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
07071	Vanadium	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
07072	Zinc	SW-846 6010C	1	181771063502	06/27/2018 12:23	Lisa J Cooke	1
00259	Mercury	SW-846 7470A	1	181770571302	06/27/2018 11:29	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181771063502	06/26/2018 22:41	Denise L Trimby	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	181770571302	06/27/2018 06:30	James L Mertz	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-60D Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 09:35
SDG#: POW04-02

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675197
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-60D Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 09:35
SDG#: POW04-02

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675197
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-60D Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 09:35
SDG#: POW04-02

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675197
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	21	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-60D Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 09:35
SDG#: POW04-02

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675197
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	5	11	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	2	1
14241	Pyrene	129-00-0	N.D.	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	2	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	153	600	1
07044	Antimony	7440-36-0	N.D.	10.0	100	1
07035	Arsenic	7440-38-2	N.D.	16.0	100	1
07046	Barium	7440-39-3	246	1.0	10.0	1
07047	Beryllium	7440-41-7	N.D.	1.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.0	10.0	1
01750	Calcium	7440-70-2	184,000	33.0	1,000	1
07051	Chromium	7440-47-3	N.D.	6.2	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.5	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	40.0	1
01754	Iron	7439-89-6	81.9 J	40.0	400	1
07055	Lead	7439-92-1	32.8	7.1	30.0	1
01757	Magnesium	7439-95-4	63,300	19.0	200	1
07058	Manganese	7439-96-5	17.7 J	1.1	20.0	1
07061	Nickel	7440-02-0	N.D.	3.1	20.0	1
01762	Potassium	7440-09-7	3,920	179	1,000	1
07036	Selenium	7782-49-2	N.D.	21.0	100	1
07066	Silver	7440-22-4	N.D.	5.0	20.0	1
01767	Sodium	7440-23-5	116,000	326	2,000	1
07022	Thallium	7440-28-0	N.D.	14.0	60.0	1
07071	Vanadium	7440-62-2	N.D.	3.0	20.0	1
07072	Zinc	7440-66-6	3.2 J	3.0	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-60D Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 09:35
SDG#: POW04-02

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675197
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	0.081 J	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L181811AA	06/30/2018 16:55	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L181811AA	06/30/2018 16:55	Linda C Pape	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	18176WAB026	06/27/2018 04:39	Ashley R Transue	1
11010	8270D BNA Extraction	SW-846 3510C	1	18176WAB026	06/25/2018 16:10	Osvaldo R Sanchez	1
01743	Aluminum	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
07044	Antimony	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
07035	Arsenic	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
07046	Barium	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
07047	Beryllium	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
07049	Cadmium	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
01750	Calcium	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
07051	Chromium	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
07052	Cobalt	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
07053	Copper	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
01754	Iron	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
01757	Magnesium	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
07058	Manganese	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
07061	Nickel	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
01762	Potassium	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
07036	Selenium	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
01767	Sodium	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
07022	Thallium	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
07071	Vanadium	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
07072	Zinc	SW-846 6010C	1	181771063502	06/27/2018 12:26	Lisa J Cooke	1
00259	Mercury	SW-846 7470A	1	181770571302	06/27/2018 11:31	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181771063502	06/26/2018 22:41	Denise L Trimby	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	181770571302	06/27/2018 06:30	James L Mertz	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-21 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 12:25
SDG#: POW04-03

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675198
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-21 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 12:25
SDG#: POW04-03

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675198
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	4	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	2	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-21 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 12:25
SDG#: POW04-03

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675198
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	21	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-21 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 12:25
SDG#: POW04-03

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675198
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	5	11	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	2	1
14241	Pyrene	129-00-0	N.D.	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	2	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	153	600	1
07044	Antimony	7440-36-0	N.D.	10.0	100	1
07035	Arsenic	7440-38-2	N.D.	16.0	100	1
07046	Barium	7440-39-3	125	1.0	10.0	1
07047	Beryllium	7440-41-7	N.D.	1.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.0	10.0	1
01750	Calcium	7440-70-2	101,000	33.0	1,000	1
07051	Chromium	7440-47-3	N.D.	6.2	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.5	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	40.0	1
01754	Iron	7439-89-6	49.4 J	40.0	400	1
07055	Lead	7439-92-1	16.9 J	7.1	30.0	1
01757	Magnesium	7439-95-4	34,800	19.0	200	1
07058	Manganese	7439-96-5	N.D.	1.1	20.0	1
07061	Nickel	7440-02-0	N.D.	3.1	20.0	1
01762	Potassium	7440-09-7	2,600	179	1,000	1
07036	Selenium	7782-49-2	N.D.	21.0	100	1
07066	Silver	7440-22-4	N.D.	5.0	20.0	1
01767	Sodium	7440-23-5	51,800	326	2,000	1
07022	Thallium	7440-28-0	N.D.	14.0	60.0	1
07071	Vanadium	7440-62-2	N.D.	3.0	20.0	1
07072	Zinc	7440-66-6	N.D.	3.0	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-21 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 12:25
SDG#: POW04-03

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675198
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	**SW-846 7470A**		**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	0.088 J	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L181811AA	06/30/2018 17:16	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L181811AA	06/30/2018 17:16	Linda C Pape	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	18176WAB026	06/27/2018 05:07	Ashley R Transue	1
11010	8270D BNA Extraction	SW-846 3510C	1	18176WAB026	06/25/2018 16:10	Osvaldo R Sanchez	1
01743	Aluminum	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
07044	Antimony	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
07035	Arsenic	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
07046	Barium	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
07047	Beryllium	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
07049	Cadmium	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
01750	Calcium	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
07051	Chromium	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
07052	Cobalt	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
07053	Copper	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
01754	Iron	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
01757	Magnesium	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
07058	Manganese	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
07061	Nickel	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
01762	Potassium	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
07036	Selenium	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
01767	Sodium	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
07022	Thallium	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
07071	Vanadium	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
07072	Zinc	SW-846 6010C	1	181771063502	06/27/2018 12:28	Lisa J Cooke	1
00259	Mercury	SW-846 7470A	1	181770571302	06/27/2018 11:33	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181771063502	06/26/2018 22:41	Denise L Trimby	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	181770571302	06/27/2018 06:30	James L Mertz	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-59 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 13:35
SDG#: POW04-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675199
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-59 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 13:35
SDG#: POW04-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675199
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-59 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 13:35
SDG#: POW04-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675199
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	21	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-59 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 13:35
SDG#: POW04-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675199
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	5	11	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	2	1
14241	Pyrene	129-00-0	N.D.	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	2	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L181841AA	07/03/2018 11:36	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L181841AA	07/03/2018 11:36	Linda C Pape	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	18176WAB026	06/27/2018 05:35	Ashley R Transue	1
11010	8270D BNA Extraction	SW-846 3510C	1	18176WAB026	06/25/2018 16:10	Osvaldo R Sanchez	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-59 Filtered Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 13:35
SDG#: POW04-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675200
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	153	600	1
07044	Antimony	7440-36-0	N.D.	10.0	100	1
07035	Arsenic	7440-38-2	N.D.	16.0	100	1
07046	Barium	7440-39-3	221	1.0	10.0	1
07047	Beryllium	7440-41-7	N.D.	1.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.0	10.0	1
01750	Calcium	7440-70-2	158,000	33.0	1,000	1
07051	Chromium	7440-47-3	N.D.	6.2	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.5	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	40.0	1
01754	Iron	7439-89-6	N.D.	40.0	400	1
07055	Lead	7439-92-1	N.D.	7.1	30.0	1
01757	Magnesium	7439-95-4	39,800	19.0	200	1
07058	Manganese	7439-96-5	2,830	1.1	20.0	1
07061	Nickel	7440-02-0	4.4 J	3.1	20.0	1
01762	Potassium	7440-09-7	5,730	179	1,000	1
07036	Selenium	7782-49-2	N.D.	21.0	100	1
07066	Silver	7440-22-4	N.D.	5.0	20.0	1
01767	Sodium	7440-23-5	231,000	326	2,000	1
07022	Thallium	7440-28-0	N.D.	14.0	60.0	1
07071	Vanadium	7440-62-2	N.D.	3.0	20.0	1
07072	Zinc	7440-66-6	6.9 J	3.0	40.0	1
	SW-846 7470A		**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

03277 Lab Filtration - Metals

The filtration time for dissolved metals is to be within 15 minutes from collection. Since the filtration occurred after receipt in the laboratory, the 15 minute criteria was exceeded. This sample was not collected per applicable Clean Water Act (40CFR136) or SW-846 regulations.

Sample Comments

State of New York Certification No. 10670
This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-59 Filtered Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/21/2018 13:35
SDG#: POW04-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675200
ELLE Group #: 1958702
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
07044	Antimony	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
07035	Arsenic	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
07046	Barium	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
07047	Beryllium	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
07049	Cadmium	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
01750	Calcium	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
07051	Chromium	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
07052	Cobalt	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
07053	Copper	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
01754	Iron	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
01757	Magnesium	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
07058	Manganese	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
07061	Nickel	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
01762	Potassium	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
07036	Selenium	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
01767	Sodium	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
07022	Thallium	SW-846 6010C	1	181781063501	06/29/2018 01:45	Xavier Arroyo	1
07071	Vanadium	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
07072	Zinc	SW-846 6010C	1	181781063501	06/28/2018 07:05	Lisa J Cooke	1
00259	Mercury	SW-846 7470A	1	181780571301	06/28/2018 07:07	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181781063501	06/27/2018 23:34	Denise L Trimby	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	181780571301	06/27/2018 16:30	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/22/2018 09:20
SDG#: POW04-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675201
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	3	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	40	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/22/2018 09:20
SDG#: POW04-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675201
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/22/2018 09:20
SDG#: POW04-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675201
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	21	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/22/2018 09:20
SDG#: POW04-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675201
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	5	11	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	2	1
14241	Pyrene	129-00-0	N.D.	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	2	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	172 J	153	600	1
07044	Antimony	7440-36-0	N.D.	10.0	100	1
07035	Arsenic	7440-38-2	N.D.	16.0	100	1
07046	Barium	7440-39-3	26.8	1.0	10.0	1
07047	Beryllium	7440-41-7	N.D.	1.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.0	10.0	1
01750	Calcium	7440-70-2	28,000	33.0	1,000	1
07051	Chromium	7440-47-3	N.D.	6.2	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.5	10.0	1
07053	Copper	7440-50-8	N.D.	6.2	40.0	1
01754	Iron	7439-89-6	141 J	40.0	400	1
07055	Lead	7439-92-1	N.D.	7.1	30.0	1
01757	Magnesium	7439-95-4	6,390	19.0	200	1
07058	Manganese	7439-96-5	21.1 J	1.1	40.0	1
07061	Nickel	7440-02-0	N.D.	3.1	20.0	1
01762	Potassium	7440-09-7	1,080	179	1,000	1
07036	Selenium	7782-49-2	N.D.	21.0	100	1
07066	Silver	7440-22-4	N.D.	5.0	20.0	1
01767	Sodium	7440-23-5	28,300	326	2,000	1
07022	Thallium	7440-28-0	N.D.	14.0	60.0	1
07071	Vanadium	7440-62-2	N.D.	3.0	20.0	1
07072	Zinc	7440-66-6	3.7 J	3.0	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/22/2018 09:20
SDG#: POW04-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675201
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	**SW-846 7470A**		**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	0.087 J	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L181841AA	07/03/2018 11:57	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L181841AA	07/03/2018 11:57	Linda C Pape	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	18176WAB026	06/27/2018 06:03	Ashley R Transue	1
11010	8270D BNA Extraction	SW-846 3510C	1	18176WAB026	06/25/2018 16:10	Osvaldo R Sanchez	1
01743	Aluminum	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
07044	Antimony	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
01750	Calcium	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	181771063503	07/02/2018 15:43	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
01757	Magnesium	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	181771063503	07/03/2018 21:47	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
01762	Potassium	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
01767	Sodium	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	181771063503	07/02/2018 15:43	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	181771063503	06/27/2018 18:25	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	181770571302	06/27/2018 11:35	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181771063503	06/27/2018 05:02	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	181770571302	06/27/2018 06:30	James L Mertz	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-20 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/22/2018 09:30
SDG#: POW04-07

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675202
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-20 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/22/2018 09:30
SDG#: POW04-07

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675202
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-20 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/22/2018 09:30
SDG#: POW04-07

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675202
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	21	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-20 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/22/2018 09:30
SDG#: POW04-07

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675202
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	5	11	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	2	1
14241	Pyrene	129-00-0	N.D.	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	2	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	153	600	1
07044	Antimony	7440-36-0	N.D.	10.0	100	1
07035	Arsenic	7440-38-2	N.D.	16.0	100	1
07046	Barium	7440-39-3	120	1.0	10.0	1
07047	Beryllium	7440-41-7	N.D.	1.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.0	10.0	1
01750	Calcium	7440-70-2	75,200	33.0	1,000	1
07051	Chromium	7440-47-3	N.D.	6.2	30.0	1
07052	Cobalt	7440-48-4	2.6 J	1.5	10.0	1
07053	Copper	7440-50-8	N.D.	6.2	40.0	1
01754	Iron	7439-89-6	1,540	40.0	400	1
07055	Lead	7439-92-1	N.D.	7.1	30.0	1
01757	Magnesium	7439-95-4	28,200	19.0	200	1
07058	Manganese	7439-96-5	689	1.1	20.0	1
07061	Nickel	7440-02-0	N.D.	3.1	20.0	1
01762	Potassium	7440-09-7	2,560	179	1,000	1
07036	Selenium	7782-49-2	N.D.	21.0	100	1
07066	Silver	7440-22-4	N.D.	5.0	20.0	1
01767	Sodium	7440-23-5	61,300	326	2,000	1
07022	Thallium	7440-28-0	N.D.	14.0	60.0	1
07071	Vanadium	7440-62-2	N.D.	3.0	20.0	1
07072	Zinc	7440-66-6	N.D.	3.0	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-20 Grab Groundwater**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/22/2018 09:30
SDG#: POW04-07

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675202
ELLE Group #: 1958702
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	0.090 J	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L181841AA	07/03/2018 12:19	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L181841AA	07/03/2018 12:19	Linda C Pape	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	18176WAB026	06/27/2018 06:31	Ashley R Transue	1
11010	8270D BNA Extraction	SW-846 3510C	1	18176WAB026	06/25/2018 16:10	Osvaldo R Sanchez	1
01743	Aluminum	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
07044	Antimony	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
01750	Calcium	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	181771063503	07/02/2018 15:45	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
01757	Magnesium	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
01762	Potassium	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
01767	Sodium	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	181771063503	07/02/2018 15:45	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	181771063503	06/27/2018 18:28	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	181770571302	06/27/2018 11:38	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181771063503	06/27/2018 05:02	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	181770571302	06/27/2018 06:30	James L Mertz	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB062218 Grab Water**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/22/2018 13:15
SDG#: POW04-08FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675203
ELLE Group #: 1958702
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB062218 Grab Water**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/22/2018 13:15
SDG#: POW04-08FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675203
ELLE Group #: 1958702
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	4	10	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	3	10	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	11	1
14241	Carbazole	86-74-8	N.D.	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	2	1
14241	4-Chloroaniline	106-47-8	N.D.	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB062218 Grab Water**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/22/2018 13:15
SDG#: POW04-08FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675203
ELLE Group #: 1958702
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	2	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	10	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	2	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	3	10	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	21	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	2	1
14241	1,4-Dioxane	123-91-1	N.D.	2	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	11	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	11	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	2	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	2	7	1
14241	3-Nitroaniline	99-09-2	N.D.	3	7	1
14241	4-Nitroaniline	100-01-6	N.D.	0.9	3	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	2	1
14241	2-Nitrophenol	88-75-5	N.D.	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB062218 Grab Water**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/22/2018 13:15
SDG#: POW04-08FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675203
ELLE Group #: 1958702
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	5	11	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	2	1
14241	Pyrene	129-00-0	N.D.	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	2	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	2	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	153	600	1
07044	Antimony	7440-36-0	N.D.	10.0	100	1
07035	Arsenic	7440-38-2	N.D.	16.0	100	1
07046	Barium	7440-39-3	N.D.	1.0	10.0	1
07047	Beryllium	7440-41-7	N.D.	1.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.0	10.0	1
01750	Calcium	7440-70-2	65.4 J	33.0	1,000	1
07051	Chromium	7440-47-3	N.D.	6.2	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.5	10.0	1
07053	Copper	7440-50-8	N.D.	6.2	40.0	1
01754	Iron	7439-89-6	N.D.	40.0	400	1
07055	Lead	7439-92-1	N.D.	7.1	30.0	1
01757	Magnesium	7439-95-4	N.D.	19.0	200	1
07058	Manganese	7439-96-5	N.D.	1.1	20.0	1
07061	Nickel	7440-02-0	N.D.	3.1	20.0	1
01762	Potassium	7440-09-7	N.D.	179	1,000	1
07036	Selenium	7782-49-2	N.D.	21.0	100	1
07066	Silver	7440-22-4	N.D.	5.0	20.0	1
01767	Sodium	7440-23-5	N.D.	326	2,000	1
07022	Thallium	7440-28-0	N.D.	14.0	60.0	1
07071	Vanadium	7440-62-2	N.D.	3.0	20.0	1
07072	Zinc	7440-66-6	N.D.	3.0	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB062218 Grab Water**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/22/2018 13:15
SDG#: POW04-08FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675203
ELLE Group #: 1958702
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	0.091 J	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L181811AA	06/30/2018 10:21	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L181811AA	06/30/2018 10:21	Linda C Pape	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	18176WAB026	06/27/2018 06:59	Ashley R Transue	1
11010	8270D BNA Extraction	SW-846 3510C	1	18176WAB026	06/25/2018 16:10	Osvaldo R Sanchez	1
01743	Aluminum	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
07044	Antimony	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
01750	Calcium	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	181771063503	07/02/2018 15:48	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
01757	Magnesium	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
01762	Potassium	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
01767	Sodium	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	181771063503	07/02/2018 15:48	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	181771063503	06/27/2018 18:31	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	181770571302	06/27/2018 11:40	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	181771063503	06/27/2018 05:02	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	181770571302	06/27/2018 06:30	James L Mertz	1

*=This limit was used in the evaluation of the final result

Sample Description: **Trip Blank Water**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/13/2018
SDG#: POW04-09TB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675204
ELLE Group #: 1958702
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **Trip Blank Water**
0172.0291Y004
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 06/22/2018 19:02
Collection Date/Time: 06/13/2018
SDG#: POW04-09TB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9675204
ELLE Group #: 1958702
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L181811AA	06/30/2018 10:43	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L181811AA	06/30/2018 10:43	Linda C Pape	1

*=This limit was used in the evaluation of the final result

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1958702
Reported: 07/05/2018 17:46

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: L181811AA	Sample number(s): 9675196-9675198,9675203-9675204		
Acetone	N.D.	6	20
Benzene	N.D.	0.5	1
Bromochloromethane	N.D.	1	5
Bromodichloromethane	N.D.	0.5	1
Bromoform	N.D.	0.5	4
Bromomethane	N.D.	0.5	1
2-Butanone	N.D.	3	10
Carbon Disulfide	N.D.	1	5
Carbon Tetrachloride	N.D.	0.5	1
Chlorobenzene	N.D.	0.5	1
Chloroethane	N.D.	0.5	1
Chloroform	N.D.	0.5	1
Chloromethane	N.D.	0.5	1
Cyclohexane	N.D.	2	5
1,2-Dibromo-3-chloropropane	N.D.	2	5
Dibromochloromethane	N.D.	0.5	1
1,2-Dibromoethane	N.D.	0.5	1
1,2-Dichlorobenzene	N.D.	1	5
1,3-Dichlorobenzene	N.D.	1	5
1,4-Dichlorobenzene	N.D.	1	5
Dichlorodifluoromethane	N.D.	0.5	1
1,1-Dichloroethane	N.D.	0.5	1
1,2-Dichloroethane	N.D.	0.5	1
1,1-Dichloroethene	N.D.	0.5	1
cis-1,2-Dichloroethene	N.D.	0.5	1
trans-1,2-Dichloroethene	N.D.	0.5	1
1,2-Dichloropropane	N.D.	0.5	1
cis-1,3-Dichloropropene	N.D.	0.5	1
trans-1,3-Dichloropropene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Freon 113	N.D.	2	10
2-Hexanone	N.D.	3	10
Isopropylbenzene	N.D.	1	5
Methyl Acetate	N.D.	1	5
Methyl Tertiary Butyl Ether	N.D.	0.5	1
4-Methyl-2-pentanone	N.D.	3	10
Methylcyclohexane	N.D.	1	5
Methylene Chloride	N.D.	0.5	1
Styrene	N.D.	1	5

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1958702
Reported: 07/05/2018 17:46

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
1,1,2,2-Tetrachloroethane	N.D.	0.5	1
Tetrachloroethene	N.D.	0.5	1
Toluene	N.D.	0.5	1
1,2,3-Trichlorobenzene	N.D.	1	5
1,2,4-Trichlorobenzene	N.D.	1	5
1,1,1-Trichloroethane	N.D.	0.5	1
1,1,2-Trichloroethane	N.D.	0.5	1
Trichloroethene	N.D.	0.5	1
Trichlorofluoromethane	N.D.	0.5	1
Vinyl Chloride	N.D.	0.5	1
m+p-Xylene	N.D.	0.5	1
o-Xylene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: L181841AA	Sample number(s): 9675199,9675201-9675202		
Acetone	N.D.	6	20
Benzene	N.D.	0.5	1
Bromochloromethane	N.D.	1	5
Bromodichloromethane	N.D.	0.5	1
Bromoform	N.D.	0.5	4
Bromomethane	N.D.	0.5	1
2-Butanone	N.D.	3	10
Carbon Disulfide	N.D.	1	5
Carbon Tetrachloride	N.D.	0.5	1
Chlorobenzene	N.D.	0.5	1
Chloroethane	N.D.	0.5	1
Chloroform	N.D.	0.5	1
Chloromethane	N.D.	0.5	1
Cyclohexane	N.D.	2	5
1,2-Dibromo-3-chloropropane	N.D.	2	5
Dibromochloromethane	N.D.	0.5	1
1,2-Dibromoethane	N.D.	0.5	1
1,2-Dichlorobenzene	N.D.	1	5
1,3-Dichlorobenzene	N.D.	1	5
1,4-Dichlorobenzene	N.D.	1	5
Dichlorodifluoromethane	N.D.	0.5	1
1,1-Dichloroethane	N.D.	0.5	1
1,2-Dichloroethane	N.D.	0.5	1
1,1-Dichloroethene	N.D.	0.5	1
cis-1,2-Dichloroethene	N.D.	0.5	1
trans-1,2-Dichloroethene	N.D.	0.5	1
1,2-Dichloropropane	N.D.	0.5	1
cis-1,3-Dichloropropene	N.D.	0.5	1
trans-1,3-Dichloropropene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1958702
Reported: 07/05/2018 17:46

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Freon 113	N.D.	2	10
2-Hexanone	N.D.	3	10
Isopropylbenzene	N.D.	1	5
Methyl Acetate	N.D.	1	5
Methyl Tertiary Butyl Ether	N.D.	0.5	1
4-Methyl-2-pentanone	N.D.	3	10
Methylcyclohexane	N.D.	1	5
Methylene Chloride	N.D.	0.5	1
Styrene	N.D.	1	5
1,1,2,2-Tetrachloroethane	N.D.	0.5	1
Tetrachloroethene	N.D.	0.5	1
Toluene	N.D.	0.5	1
1,2,3-Trichlorobenzene	N.D.	1	5
1,2,4-Trichlorobenzene	N.D.	1	5
1,1,1-Trichloroethane	N.D.	0.5	1
1,1,2-Trichloroethane	N.D.	0.5	1
Trichloroethene	N.D.	0.5	1
Trichlorofluoromethane	N.D.	0.5	1
Vinyl Chloride	N.D.	0.5	1
m+p-Xylene	N.D.	0.5	1
o-Xylene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: 18176WAB026	Sample number(s): 9675196-9675199,9675201-9675203		
Acenaphthene	N.D.	0.1	0.5
Acenaphthylene	N.D.	0.1	0.5
Acetophenone	N.D.	4	10
Anthracene	N.D.	0.1	0.5
Atrazine	N.D.	2	5
Benzaldehyde	N.D.	3	10
Benzo(a)anthracene	N.D.	0.1	0.5
Benzo(a)pyrene	N.D.	0.1	0.5
Benzo(b)fluoranthene	N.D.	0.1	0.5
Benzo(g,h,i)perylene	N.D.	0.1	0.5
Benzo(k)fluoranthene	N.D.	0.1	0.5
1,1'-Biphenyl	N.D.	3	10
4-Bromophenyl-phenylether	N.D.	0.5	2
Butylbenzylphthalate	N.D.	2	5
Di-n-butylphthalate	N.D.	2	5
Caprolactam	N.D.	5	11
Carbazole	N.D.	0.5	2
4-Chloro-3-methylphenol	N.D.	0.5	2
4-Chloroaniline	N.D.	4	10
bis(2-Chloroethoxy)methane	N.D.	0.5	2
bis(2-Chloroethyl)ether	N.D.	0.5	2

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1958702
Reported: 07/05/2018 17:46

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
bis(2-Chloroisopropyl)ether	N.D.	0.5	2
2-Chloronaphthalene	N.D.	0.4	1
2-Chlorophenol	N.D.	0.5	2
4-Chlorophenyl-phenylether	N.D.	0.5	2
Chrysene	N.D.	0.1	0.5
Dibenz(a,h)anthracene	N.D.	0.1	0.5
Dibenzofuran	N.D.	0.5	2
3,3'-Dichlorobenzidine	N.D.	3	10
2,4-Dichlorophenol	N.D.	0.5	2
Diethylphthalate	N.D.	2	5
2,4-Dimethylphenol	N.D.	3	10
Dimethylphthalate	N.D.	2	5
4,6-Dinitro-2-methylphenol	N.D.	8	21
2,4-Dinitrophenol	N.D.	14	30
2,4-Dinitrotoluene	N.D.	1	5
2,6-Dinitrotoluene	N.D.	0.5	2
1,4-Dioxane	N.D.	2	5
bis(2-Ethylhexyl)phthalate	N.D.	5	11
Fluoranthene	N.D.	0.1	0.5
Fluorene	N.D.	0.1	0.5
Hexachlorobenzene	N.D.	0.1	0.5
Hexachlorobutadiene	N.D.	0.5	2
Hexachlorocyclopentadiene	N.D.	5	11
Hexachloroethane	N.D.	1	5
Indeno(1,2,3-cd)pyrene	N.D.	0.1	0.5
Isophorone	N.D.	0.5	2
2-Methylnaphthalene	N.D.	0.1	0.5
2-Methylphenol	N.D.	0.5	2
4-Methylphenol	N.D.	0.5	2
Naphthalene	N.D.	0.1	0.5
2-Nitroaniline	N.D.	2	7
3-Nitroaniline	N.D.	3	7
4-Nitroaniline	N.D.	0.9	3
Nitrobenzene	N.D.	0.5	2
2-Nitrophenol	N.D.	3	10
4-Nitrophenol	N.D.	10	30
N-Nitroso-di-n-propylamine	N.D.	0.7	3
N-Nitrosodiphenylamine	N.D.	0.7	3
Di-n-octylphthalate	N.D.	5	11
Pentachlorophenol	N.D.	1	5
Phenanthrene	N.D.	0.1	0.5
Phenol	N.D.	0.5	2
Pyrene	N.D.	0.1	0.5
1,2,4,5-Tetrachlorobenzene	N.D.	0.5	2
2,3,4,6-Tetrachlorophenol	N.D.	4	10

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1958702
Reported: 07/05/2018 17:46

Method Blank (continued)

Analysis Name	Result		MDL**	LOQ
	ug/l		ug/l	ug/l
2,4,5-Trichlorophenol	N.D.		0.5	2
2,4,6-Trichlorophenol	N.D.		0.5	2
Batch number: 181770571302	Sample number(s): 9675196-9675198,9675201-9675203			
Mercury	0.071	J	0.050	0.20
Batch number: 181771063502	Sample number(s): 9675196-9675198			
Aluminum	N.D.		153	600
Antimony	N.D.		10.0	100
Arsenic	N.D.		16.0	100
Barium	N.D.		1.0	10.0
Beryllium	N.D.		1.0	10.0
Cadmium	N.D.		1.0	10.0
Calcium	55.4	J	33.0	1,000
Chromium	N.D.		6.2	30.0
Cobalt	N.D.		1.5	10.0
Copper	N.D.		4.0	40.0
Iron	52.0	J	40.0	400
Lead	N.D.		7.1	30.0
Magnesium	82.3	J	19.0	200
Manganese	N.D.		1.1	20.0
Nickel	N.D.		3.1	20.0
Potassium	N.D.		179	1,000
Selenium	N.D.		21.0	100
Silver	N.D.		5.0	20.0
Sodium	N.D.		326	2,000
Thallium	N.D.		14.0	60.0
Vanadium	N.D.		3.0	20.0
Zinc	N.D.		3.0	40.0
Batch number: 181771063503	Sample number(s): 9675201-9675203			
Aluminum	N.D.		153	600
Antimony	N.D.		10.0	100
Arsenic	N.D.		16.0	100
Barium	N.D.		1.0	10.0
Beryllium	N.D.		1.0	10.0
Cadmium	N.D.		1.0	10.0
Calcium	43.7	J	33.0	1,000
Chromium	N.D.		6.2	30.0
Cobalt	N.D.		1.5	10.0
Copper	N.D.		6.2	40.0
Iron	N.D.		40.0	400
Lead	N.D.		7.1	30.0
Magnesium	35.0	J	19.0	200
Manganese	N.D.		1.1	20.0
Nickel	N.D.		3.1	20.0

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1958702
Reported: 07/05/2018 17:46

Method Blank (continued)

Analysis Name	Result		MDL**	LOQ
	ug/l		ug/l	ug/l
Potassium	N.D.		179	1,000
Selenium	N.D.		21.0	100
Silver	N.D.		5.0	20.0
Sodium	N.D.		326	2,000
Thallium	N.D.		14.0	60.0
Vanadium	N.D.		3.0	20.0
Zinc	N.D.		3.0	40.0
Batch number: 181780571301	Sample number(s): 9675200			
Mercury	N.D.		0.050	0.20
Batch number: 181781063501	Sample number(s): 9675200			
Aluminum	N.D.		153	600
Antimony	N.D.		10.0	100
Arsenic	N.D.		16.0	100
Barium	N.D.		1.0	10.0
Beryllium	N.D.		1.0	10.0
Cadmium	N.D.		1.0	10.0
Calcium	49.8	J	33.0	1,000
Chromium	N.D.		6.2	30.0
Cobalt	N.D.		1.5	10.0
Copper	N.D.		4.0	40.0
Iron	N.D.		40.0	400
Lead	N.D.		7.1	30.0
Magnesium	27.5	J	19.0	200
Manganese	N.D.		1.1	20.0
Nickel	N.D.		3.1	20.0
Potassium	N.D.		179	1,000
Selenium	N.D.		21.0	100
Silver	N.D.		5.0	20.0
Sodium	N.D.		326	2,000
Thallium	N.D.		14.0	60.0
Vanadium	N.D.		3.0	20.0
Zinc	N.D.		3.0	40.0

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: L181811AA	Sample number(s): 9675196-9675198,9675203-9675204								
Acetone	150	172.84			115		54-157		
Benzene	20	21.66			108		80-120		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1958702
Reported: 07/05/2018 17:46

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bromochloromethane	20	18.54			93		80-120		
Bromodichloromethane	20	18			90		71-120		
Bromoform	20	14.94			75		59-120		
Bromomethane	20	15.14			76		58-130		
2-Butanone	150	164.78			110		59-135		
Carbon Disulfide	20	17.7			88		65-128		
Carbon Tetrachloride	20	17.01			85		64-134		
Chlorobenzene	20	19.88			99		80-120		
Chloroethane	20	15.08			75		61-123		
Chloroform	20	19.71			99		80-120		
Chloromethane	20	17.68			88		63-120		
Cyclohexane	20	24.32			122*		67-121		
1,2-Dibromo-3-chloropropane	20	17.94			90		53-128		
Dibromochloromethane	20	17.62			88		71-120		
1,2-Dibromoethane	20	20.48			102		75-120		
1,2-Dichlorobenzene	20	19.44			97		80-120		
1,3-Dichlorobenzene	20	20.01			100		80-120		
1,4-Dichlorobenzene	20	19.98			100		80-120		
Dichlorodifluoromethane	20	16.86			84		47-124		
1,1-Dichloroethane	20	21.26			106		80-120		
1,2-Dichloroethane	20	17.99			90		73-124		
1,1-Dichloroethene	20	21.18			106		80-131		
cis-1,2-Dichloroethene	20	21.36			107		80-120		
trans-1,2-Dichloroethene	20	21.18			106		80-120		
1,2-Dichloropropane	20	22.18			111		80-120		
cis-1,3-Dichloropropene	20	19.7			99		75-120		
trans-1,3-Dichloropropene	20	18.94			95		76-120		
Ethylbenzene	20	20.85			104		80-120		
Freon 113	20	21.01			105		68-137		
2-Hexanone	100	108.71			109		50-141		
Isopropylbenzene	20	20.83			104		80-120		
Methyl Acetate	20	22.03			110		64-130		
Methyl Tertiary Butyl Ether	20	19.02			95		75-120		
4-Methyl-2-pentanone	100	105.53			106		62-133		
Methylcyclohexane	20	21.69			108		67-121		
Methylene Chloride	20	21.54			108		80-120		
Styrene	20	20.15			101		80-120		
1,1,2,2-Tetrachloroethane	20	21.08			105		72-120		
Tetrachloroethene	20	20.13			101		80-120		
Toluene	20	21.17			106		80-120		
1,2,3-Trichlorobenzene	20	18.67			93		66-120		
1,2,4-Trichlorobenzene	20	18.71			94		70-120		
1,1,1-Trichloroethane	20	17.08			85		67-126		
1,1,2-Trichloroethane	20	21.04			105		80-120		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1958702
Reported: 07/05/2018 17:46

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Trichloroethene	20	20.11			101		80-120		
Trichlorofluoromethane	20	17.6			88		60-136		
Vinyl Chloride	20	16.52			83		68-120		
m+p-Xylene	40	41.09			103		80-120		
o-Xylene	20	19.95			100		80-120		
Xylene (Total)	60	61.04			102		80-120		
Batch number: L181841AA	Sample number(s): 9675199,9675201-9675202								
Acetone	150	171.99			115		54-157		
Benzene	20	21.43			107		80-120		
Bromochloromethane	20	17.9			90		80-120		
Bromodichloromethane	20	17.49			87		71-120		
Bromoform	20	14.16			71		59-120		
Bromomethane	20	13.91			70		58-130		
2-Butanone	150	161.78			108		59-135		
Carbon Disulfide	20	18.82			94		65-128		
Carbon Tetrachloride	20	16.6			83		64-134		
Chlorobenzene	20	19.42			97		80-120		
Chloroethane	20	14.33			72		61-123		
Chloroform	20	19.61			98		80-120		
Chloromethane	20	15.96			80		63-120		
Cyclohexane	20	23.89			119		67-121		
1,2-Dibromo-3-chloropropane	20	16.99			85		53-128		
Dibromochloromethane	20	17.15			86		71-120		
1,2-Dibromoethane	20	20.07			100		75-120		
1,2-Dichlorobenzene	20	18.89			94		80-120		
1,3-Dichlorobenzene	20	19.31			97		80-120		
1,4-Dichlorobenzene	20	19.11			96		80-120		
Dichlorodifluoromethane	20	15.4			77		47-124		
1,1-Dichloroethane	20	21.35			107		80-120		
1,2-Dichloroethane	20	17.85			89		73-124		
1,1-Dichloroethene	20	21.61			108		80-131		
cis-1,2-Dichloroethene	20	20.79			104		80-120		
trans-1,2-Dichloroethene	20	21.22			106		80-120		
1,2-Dichloropropane	20	21.42			107		80-120		
cis-1,3-Dichloropropene	20	19.4			97		75-120		
trans-1,3-Dichloropropene	20	18.48			92		76-120		
Ethylbenzene	20	20.02			100		80-120		
Freon 113	20	21.54			108		68-137		
2-Hexanone	100	105.17			105		50-141		
Isopropylbenzene	20	20.04			100		80-120		
Methyl Acetate	20	21.38			107		64-130		
Methyl Tertiary Butyl Ether	20	19.31			97		75-120		
4-Methyl-2-pentanone	100	103.52			104		62-133		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 07/05/2018 17:46

Group Number: 1958702

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methylcyclohexane	20	20.39			102		67-121		
Methylene Chloride	20	21.55			108		80-120		
Styrene	20	19.51			98		80-120		
1,1,2,2-Tetrachloroethane	20	20.21			101		72-120		
Tetrachloroethene	20	19.76			99		80-120		
Toluene	20	20.59			103		80-120		
1,2,3-Trichlorobenzene	20	18.38			92		66-120		
1,2,4-Trichlorobenzene	20	18.16			91		70-120		
1,1,1-Trichloroethane	20	16.76			84		67-126		
1,1,2-Trichloroethane	20	21.06			105		80-120		
Trichloroethene	20	19.81			99		80-120		
Trichlorofluoromethane	20	16.2			81		60-136		
Vinyl Chloride	20	15.01			75		68-120		
m+p-Xylene	40	39.88			100		80-120		
o-Xylene	20	19.15			96		80-120		
Xylene (Total)	60	59.03			98		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 18176WAB026	Sample number(s): 9675196-9675199,9675201-9675203								
Acenaphthene	50	41.27	50	42.91	83	86	49-123	4	30
Acenaphthylene	50	44.34	50	46.74	89	93	67-111	5	30
Acetophenone	50	43.81	50	46.95	88	94	53-118	7	30
Anthracene	50	44.83	50	43.43	90	87	55-126	3	30
Atrazine	50	50.5	50	50.87	101	102	65-126	1	30
Benzaldehyde	50	43.43	50	43.32	87	87	49-110	0	30
Benzo(a)anthracene	50	48.08	50	51.04	96	102	63-124	6	30
Benzo(a)pyrene	50	48.23	50	49.18	96	98	50-128	2	30
Benzo(b)fluoranthene	50	47.78	50	48.75	96	97	58-127	2	30
Benzo(g,h,i)perylene	50	47.17	50	46.07	94	92	51-124	2	30
Benzo(k)fluoranthene	50	47.14	50	47.55	94	95	63-123	1	30
1,1'-Biphenyl	50	41.71	50	43.16	83	86	45-118	3	30
4-Bromophenyl-phenylether	50	42.4	50	43.91	85	88	53-127	3	30
Butylbenzylphthalate	50	45.44	50	47.69	91	95	40-131	5	30
Di-n-butylphthalate	50	45.86	50	46.45	92	93	58-119	1	30
Caprolactam	50	14.89	50	15.41	30	31	13-37	3	30
Carbazole	50	47.22	50	47.92	94	96	65-123	1	30
4-Chloro-3-methylphenol	50	46.67	50	48.43	93	97	50-130	4	30
4-Chloroaniline	50	36.5	50	38.85	73	78	33-106	6	30
bis(2-Chloroethoxy)methane	50	41.91	50	47.3	84	95	54-127	12	30
bis(2-Chloroethyl)ether	50	39.69	50	40.82	79	82	48-119	3	30
bis(2-Chloroisopropyl)ether	50	37.84	50	39.3	76	79	35-128	4	30
2-Chloronaphthalene	50	37.14	50	37.22	74	74	41-123	0	30
2-Chlorophenol	50	38.9	50	41.49	78	83	47-116	6	30
4-Chlorophenyl-phenylether	50	38.67	50	39.38	77	79	45-124	2	30

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1958702
Reported: 07/05/2018 17:46

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chrysene	50	47.26	50	50.12	95	100	65-124	6	30
Dibenz(a,h)anthracene	50	48.4	50	49.43	97	99	53-132	2	30
Dibenzofuran	50	40.99	50	42.52	82	85	50-124	4	30
3,3'-Dichlorobenzidine	50	40.13	50	43.3	80	87	32-106	8	30
2,4-Dichlorophenol	50	42.5	50	45.56	85	91	53-126	7	30
Diethylphthalate	50	41.28	50	40.29	83	81	42-124	2	30
2,4-Dimethylphenol	50	35.55	50	38.16	71	76	41-103	7	30
Dimethylphthalate	50	41.41	50	39.92	83	80	19-119	4	30
4,6-Dinitro-2-methylphenol	50	43.43	50	45.72	87	91	50-132	5	30
2,4-Dinitrophenol	100	90.59	100	95.95	91	96	19-140	6	30
2,4-Dinitrotoluene	50	42.74	50	43.26	85	87	56-128	1	30
2,6-Dinitrotoluene	50	48.01	50	50.01	96	100	57-131	4	30
1,4-Dioxane	50	20.79	50	20.62	42	41	18-67	1	30
bis(2-Ethylhexyl)phthalate	50	46.25	50	49.5	92	99	52-132	7	30
Fluoranthene	50	46.61	50	48.32	93	97	61-123	4	30
Fluorene	50	42.52	50	43.65	85	87	48-124	3	30
Hexachlorobenzene	50	44.93	50	46.81	90	94	57-123	4	30
Hexachlorobutadiene	50	26.21	50	27.51	52	55	16-119	5	30
Hexachlorocyclopentadiene	100	19.71	100	20.02	20	20	10-104	2	30
Hexachloroethane	50	24.67	50	25.6	49	51	19-105	4	30
Indeno(1,2,3-cd)pyrene	50	45.97	50	47.42	92	95	52-127	3	30
Isophorone	50	44.39	50	47.6	89	95	49-129	7	30
2-Methylnaphthalene	50	37.34	50	39.59	75	79	42-120	6	30
2-Methylphenol	50	40.31	50	42.41	81	85	46-113	5	30
4-Methylphenol	50	38.77	50	39.87	78	80	42-115	3	30
Naphthalene	50	37.32	50	38.66	75	77	44-114	4	30
2-Nitroaniline	50	48.56	50	51.04	97	102	54-133	5	30
3-Nitroaniline	50	40.84	50	42.53	82	85	41-123	4	30
4-Nitroaniline	50	42.78	50	42.04	86	84	46-114	2	30
Nitrobenzene	50	41.36	50	43.54	83	87	43-128	5	30
2-Nitrophenol	50	42.88	50	48.6	86	97	58-125	13	30
4-Nitrophenol	50	30.73	50	28.61	61	57	10-96	7	30
N-Nitroso-di-n-propylamine	50	42.19	50	45.37	84	91	48-128	7	30
N-Nitrosodiphenylamine	50	42.85	50	43.25	86	86	55-128	1	30
Di-n-octylphthalate	50	47.32	50	46.55	95	93	51-134	2	30
Pentachlorophenol	50	48.84	50	50.41	98	101	50-127	3	30
Phenanthrene	50	45.35	50	43.77	91	88	54-122	4	30
Phenol	50	27.22	50	26.25	54	52	10-92	4	30
Pyrene	50	45.91	50	46.69	92	93	54-123	2	30
1,2,4,5-Tetrachlorobenzene	50	29.53	50	31.56	59	63	30-117	7	30
2,3,4,6-Tetrachlorophenol	50	45.26	50	50.58	91	101	60-128	11	30
2,4,5-Trichlorophenol	50	45.53	50	48.11	91	96	59-129	6	30
2,4,6-Trichlorophenol	50	45.13	50	49.32	90	99	61-130	9	30

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1958702
Reported: 07/05/2018 17:46

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 181770571302	Sample number(s): 9675196-9675198,9675201-9675203								
Mercury	1.00	0.915			92		80-114		
Batch number: 181771063502	Sample number(s): 9675196-9675198								
Aluminum	2000	1890.71			95		80-120		
Antimony	500	503.34			101		90-117		
Arsenic	150	152.12			101		80-120		
Barium	2000	1998.21			100		87-111		
Beryllium	50	49.3			99		86-110		
Cadmium	50	50.43			101		90-111		
Calcium	4000	4123.28			103		88-112		
Chromium	200	199.24			100		87-110		
Cobalt	500	507.91			102		90-111		
Copper	250	254.03			102		90-115		
Iron	1000	1054.95			105		80-114		
Lead	150	147.56			98		87-113		
Magnesium	2000	2128.28			106		88-114		
Manganese	500	507.47			101		90-112		
Nickel	500	503.46			101		90-114		
Potassium	10000	10510.54			105		88-112		
Selenium	150	154.04			103		80-120		
Silver	50	47.28			95		80-120		
Sodium	10000	10291.57			103		87-112		
Thallium	150	146.67			98		80-120		
Vanadium	500	537.63			108		89-114		
Zinc	500	498.97			100		89-111		
Batch number: 181771063503	Sample number(s): 9675201-9675203								
Aluminum	2000	2057.05			103		80-120		
Antimony	500	521.08			104		90-117		
Arsenic	150	145.95			97		80-120		
Barium	2000	2037.5			102		87-111		
Beryllium	50	50.35			101		86-110		
Cadmium	50	51.66			103		90-111		
Calcium	4000	3992.13			100		88-112		
Chromium	200	196.91			98		87-110		
Cobalt	500	516.63			103		90-111		
Copper	250	256.96			103		90-115		
Iron	1000	1005.06			101		80-114		
Lead	150	151.88			101		87-113		
Magnesium	2000	1991.73			100		88-114		
Manganese	500	505.69			101		90-112		
Nickel	500	514.85			103		90-114		
Potassium	10000	10107.35			101		88-112		
Selenium	150	144.95			97		80-120		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1958702
Reported: 07/05/2018 17:46

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Silver	50	49.79			100		80-120		
Sodium	10000	10073.65			101		87-112		
Thallium	150	153.36			102		80-120		
Vanadium	500	506.85			101		89-114		
Zinc	500	498.38			100		89-111		
Batch number: 181780571301	Sample number(s): 9675200								
Mercury	1.00	0.832			83		80-114		
Batch number: 181781063501	Sample number(s): 9675200								
Aluminum	2000	1985.39			99		80-120		
Antimony	500	532.89			107		90-117		
Arsenic	150	154.02			103		80-120		
Barium	2000	2064.22			103		87-111		
Beryllium	50	52.57			105		86-110		
Cadmium	50	52.96			106		90-111		
Calcium	4000	4157.02			104		88-112		
Chromium	200	202.85			101		87-110		
Cobalt	500	524.02			105		90-111		
Copper	250	267.67			107		90-115		
Iron	1000	1014.38			101		80-114		
Lead	150	154.33			103		87-113		
Magnesium	2000	2078.1			104		88-114		
Manganese	500	525.49			105		90-112		
Nickel	500	534.55			107		90-114		
Potassium	10000	10188.57			102		88-112		
Selenium	150	147.54			98		80-120		
Silver	50	50.5			101		80-120		
Sodium	10000	9988.79			100		87-112		
Thallium	150	153.85			103		80-120		
Vanadium	500	535.3			107		89-114		
Zinc	500	520.84			104		89-111		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1958702
Reported: 07/05/2018 17:46

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles - Pratt Oil
Batch number: L181811AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9675196	93	100	100	100
9675197	92	99	101	100
9675198	93	100	100	100
9675203	91	99	101	99
9675204	92	100	101	100
Blank	92	99	100	101
LCS	94	98	101	100
Limits:	80-120	80-120	80-120	80-120

Analysis Name: GC/MS Volatiles - Pratt Oil
Batch number: L181841AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9675199	93	98	100	100
9675201	94	99	100	100
9675202	94	100	99	100
Blank	94	100	99	99
LCS	94	100	100	100
Limits:	80-120	80-120	80-120	80-120

Analysis Name: SVOAs 8270D MINI
Batch number: 18176WAB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9675196	50	55	95	82	79	73
9675197	58	61	99	90	82	81
9675198	36	38	77	64	63	85
9675199	14	14	43	69	67	69
9675201	27	34	80	60	66	76
9675202	35	38	89	69	74	73
9675203	27	39	90	68	72	82
Blank	37	44	89	78	75	94
LCS	48	55	91	78	76	93
LCSD	46	56	98	82	81	96
Limits:	10-71	10-82	21-134	30-111	39-105	27-116

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ExxonMobil Analysis Request/Chain of Custody

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Acct. # 13438 Group # 1958702 Sample # 9675196-204

Consultant Company: ROUX			
Site Address: Review Ave, LIC, NY	Site ID #:		
Consultant PM: Tally Sodre	P.O. #: 0172.0291.0004		
Sampler: EB/MD	XOM PM: Frank Messina		
Bill to : ☐ XOM ☑ Consultant	Contract # A2604415		
State where samples were collected: ____	For Compliance: Yes ☐ No ☐		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Tissue	Water	Potable	Ground	Surface	NPDES	Other:	Total # of Containers	VOCs 8260C	SVOCs 8270D	Total Metals 6010C 7470A	Dissolved Metals 6010C 7470A	Remarks
MW-31	6/21/18	905						X						6	X	X	X		
MW-60D	6/21/18	935						X						6	X	X	X		
MW-21	6/21/18	1225						X						6	X	X	X		
MW-59	6/21/18	1335						X						6	X	X		X	
MW-69	6/22/18	920						X						6	X	X	X		
MW-20	6/22/18	930						X						6	X	X	X		
FB062218	6/22/18	1315						X						6	X	X	X		
Trip Blank	6/13/18	—											X	2	X				

Analyses Requested — Preservation and Filtration Codes: H, N

For Lab Use Only: SF #: ____ SCR #: ____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; F = Field Filtered; O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

RUSH (Please circle one): 5 day 4 day 72 hour 48 hour 24 hour

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐
Type III (Reduced non-CLP/NJ Reduced) ☐
TX TRRP-13 ☐
NJ DKQP ☐
NYSDEC Category ☐ A ☑ B

OTHER: _____

EDD Format(s) Needed: Yes

Relinquished by:	Date	Time	Received by:	Date	Time
	6/22/18	1430		6/22/18	1430
	6/22/18	1902			
				6.22.18	19:02

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 4.2 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 219971

Group Number(s): 1958702

Client: Roux

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	06/22/2018 19:02
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	NY		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Wanita Curry (14057) at 19:49 on 06/22/2018

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	4.2	DT	Wet	Y	Loose/Bag	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

PLATES

1. Site Plan
2. Groundwater Elevations and Apparent LNAPL Thickness June 27, 2018
3. VOC Exceedances in Groundwater
4. SVOC Exceedances in Groundwater
5. Metals Exceedances in Groundwater



LEGEND

- SITE BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- APPROXIMATE BARRIER WALL LOCATION
- APPROXIMATE LOCATION OF PVC BOOM AND ABSORBENT INSTALLED IN FEBRUARY 2017
- APPROXIMATE LOCATION OF PVC BOOM AND ABSORBENT BOOM INSTALLED IN APRIL 2011
- MW-63 MONITORING WELL LOCATION
- MW-14 MONITORING WELL LOCATION WITH SPILL BUSTER LNAPL RECOVERY
- BW-3 SYSTEM BULKHEAD WELL LOCATION
- PZ-4 PIEZOMETER WELL LOCATION
- LNAPL LIGHT NON-AQUEOUS PHASE LIQUID
- PVC POLYVINYL CHLORIDE

SOURCE

CONTROL POINT ASSOCIATES, INC. BOUNDARY, LOCATION & UTILITY SURVEY MARCH 6, 2009, DRAWING 1 OF 1 AND BOUNDARY, LOCATION AND UTILITY SURVEY NEWTOWN CREEK AND REVIEW AVENUE LOTS 349, 362, 500, 1362, AND 1367 BLOCK 312 SECTION Z. JULY 6, 2009 AND REVIEW AVENUE LOT 89, BLOCK 312, SECTION 2 FEBRUARY 18, 2011.

FEHRINGER SURVEYING MONITORING WELL LOCATIONS AND ELEVATIONS FOR BLOCK 312 LOT 300, OCTOBER 30, 2015.

BUILDINGS IN PARCEL C, PARCEL F, PARCEL H AND PARCEL J ARE BASED ON 2014 SATELLITE IMAGE.

CONTROL POINT ASSOCIATES, INC. PIEZOMETER WELL LOCATIONS, MARCH 18, 2016, DRAWING 1 OF 1.

CONTRACTOR'S LINE AND GRADE SOUTH LLC, EXISTING CONDITIONS SURVEY FOR BLOCK 312 LOT 300, JULY 20, 2015.

Parcel	Block/Lot
Parcel A	312 / 300 312 / 1367
Parcel B	312 / 309 312 / 315
Parcel C	312 / 348
Parcel D	312 / 1362
Parcel E	312 / 362 312 / 500
Parcel F	312 / 343
Parcel G	312 / 349
Parcel H	312 / 330
Parcel I	312 / 89
Parcel J	312 / 79
Parcel K	312 / 350

60' 0 60'

Title:

SITE PLAN

SITE STATUS UPDATE REPORT
FORMER PRATT OIL WORKS
LONG ISLAND CITY, QUEENS, NEW YORK

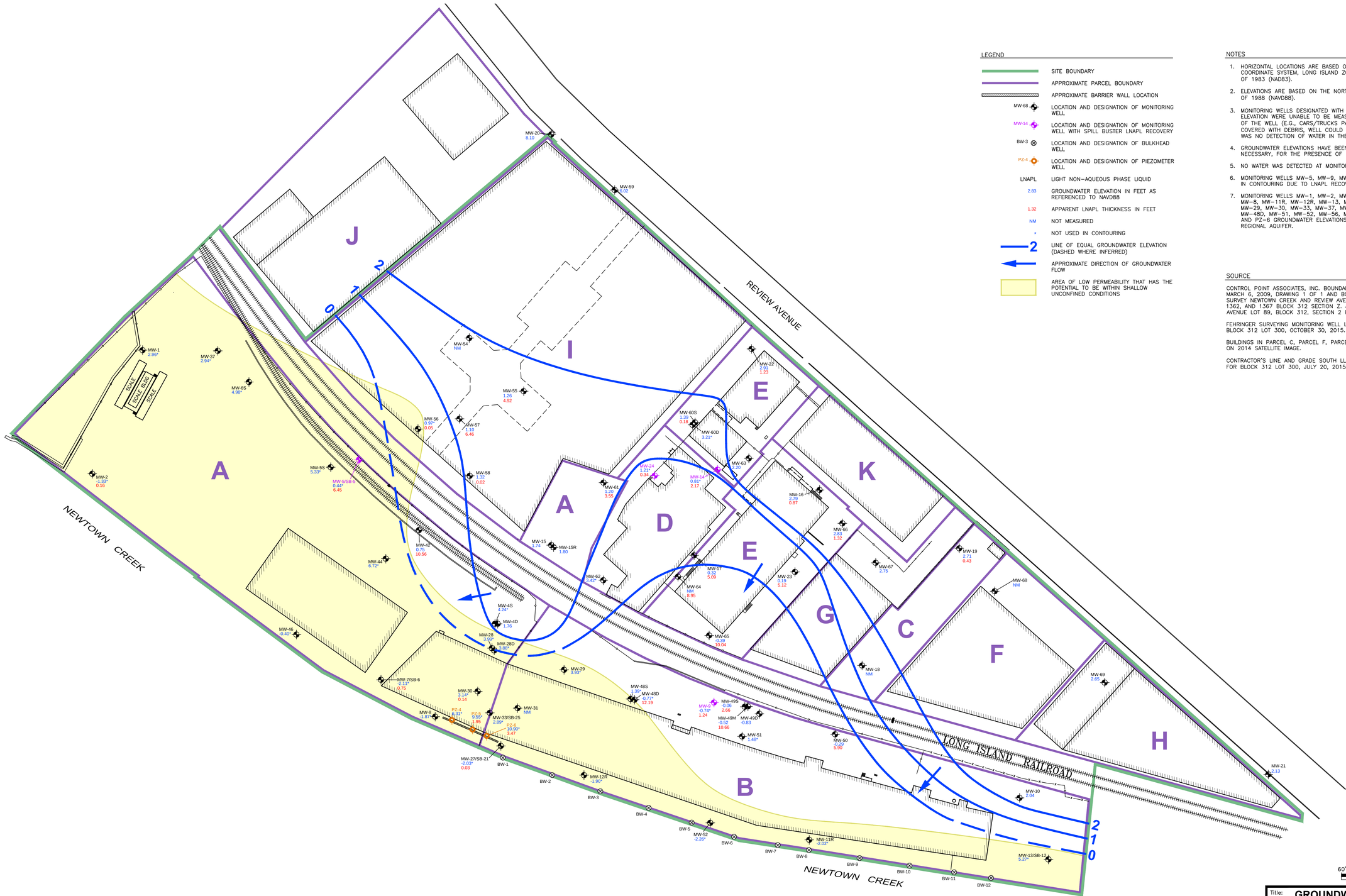
Prepared For:
EXXONMOBIL OIL CORPORATION
BROOKLYN, NEW YORK

ROUX

Compiled by: E.B.	Date: 11JUL18
Prepared by: G.M.	Scale: AS SHOWN
Project Mgr: D.H.	Project: 0172.0291Y004
File: 0172.0291Y247.02.DWG	

PLATE 1

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LEGEND

- SITE BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- APPROXIMATE BARRIER WALL LOCATION
- MW-68 — LOCATION AND DESIGNATION OF MONITORING WELL
- MW-14 — LOCATION AND DESIGNATION OF MONITORING WELL WITH SPILL BUSTER LNAPL RECOVERY
- BW-3 — LOCATION AND DESIGNATION OF BULKHEAD WELL
- PZ-4 — LOCATION AND DESIGNATION OF PIEZOMETER WELL
- LNAPL — LIGHT NON-AQUEOUS PHASE LIQUID
- 2.83 — GROUNDWATER ELEVATION IN FEET AS REFERENCED TO NAVD88
- 1.32 — APPARENT LNAPL THICKNESS IN FEET
- NM — NOT MEASURED
- * — NOT USED IN CONTOURING
- 2 — LINE OF EQUAL GROUNDWATER ELEVATION (DASHED WHERE INFERRED)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- AREA OF LOW PERMEABILITY THAT HAS THE POTENTIAL TO BE WITHIN SHALLOW UNCONFINED CONDITIONS

NOTES

1. HORIZONTAL LOCATIONS ARE BASED ON THE NEW YORK STATE PLAN COORDINATE SYSTEM, LONG ISLAND ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. MONITORING WELLS DESIGNATED WITH "NM" FOR GROUNDWATER ELEVATION WERE UNABLE TO BE MEASURED DUE TO INACCESSIBILITY OF THE WELL (E.G., CARS/TRUCKS PARKED ON TOP OF WELL, WELL COVERED WITH DEBRIS, WELL COULD NOT BE LOCATED), OR THERE WAS NO DETECTION OF WATER IN THE MONITORING WELL.
4. GROUNDWATER ELEVATIONS HAVE BEEN CORRECTED, WHERE NECESSARY, FOR THE PRESENCE OF LNAPL.
5. NO WATER WAS DETECTED AT MONITORING WELL MW-64.
6. MONITORING WELLS MW-5, MW-9, MW-14, AND MW-24 NOT USED IN CONTOURING DUE TO LNAPL RECOVERY SYSTEM OPERATING.
7. MONITORING WELLS MW-1, MW-2, MW-4S, MW-5S, MW-6S, MW-7, MW-8, MW-11R, MW-12R, MW-13, MW-27, MW-28, MW-28D, MW-29, MW-30, MW-33, MW-37, MW-44, MW-46, MW-48S, MW-48D, MW-51, MW-52, MW-56, MW-60D, MW-62, PZ-4, PZ-5 AND PZ-6 GROUNDWATER ELEVATIONS DO NOT CORRESPOND TO REGIONAL AQUIFER.

SOURCE

CONTROL POINT ASSOCIATES, INC. BOUNDARY, LOCATION & UTILITY SURVEY MARCH 6, 2009, DRAWING 1 OF 1 AND BOUNDARY, LOCATION AND UTILITY SURVEY NEWTOWN CREEK AND REVIEW AVENUE LOTS 349, 362, 500, 1362, AND 1367 BLOCK 312 SECTION 2. JULY 6, 2009 AND REVIEW AVENUE LOT 89, BLOCK 312, SECTION 2 FEBRUARY 18, 2011.

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BUILDINGS IN PARCEL C, PARCEL F, PARCEL H, AND PARCEL J ARE BASED ON 2014 SATELLITE IMAGE.

CONTRACTOR'S LINE AND GRADE SOUTH LLC, EXISTING CONDITIONS SURVEY FOR BLOCK 312 LOT 300, JULY 20, 2015.

60' 0 60'

N

Title: **GROUNDWATER ELEVATIONS AND APPARENT LNAPL THICKNESS JUNE 18, 2018**

SITE STATUS UPDATE REPORT
FORMER PRATT OIL WORKS
LONG ISLAND CITY, QUEENS, NEW YORK

Prepared For:
EXXONMOBIL OIL CORPORATION
BROOKLYN, NEW YORK

ROUX

Compiled by: E.B.	Date: 09JUL18	PLATE
Prepared by: B.H.C.	Scale: AS SHOWN	2
Project Mgr: D.H.	Project: 0172.0291Y004	
File: 0172.0291Y247.01.DWG		

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MW-37	5/2/2017	11/16/2017	11/16/2017	6/19/2018
Analyte			DUP	
Benzene	NS	**27**	**27**	NS
Chlorobenzene	NS	**7 J**	**6 J**	NS
Chloroethane	NS	**18**	**20**	NS

MW-1	5/2/2017	11/16/2017	6/19/2018	6/19/2018
Analyte				**DUP**
1,1-Dichloroethane	**6.9**	3	4	4
Benzene	**3.3**	**2**	**5**	**5**
Vinyl Chloride	**2**	**2**	**2**	**2**

MW-46	5/4/2017	11/15/2017	6/20/2018
Analyte			
Chloroform	**34.1**	0.8 J	**30**

MW-4D	5/5/2017	11/16/2017	6/19/2018
Analyte			
Benzene	0.55	0.5 U	NS
Chloroethane	**115**	**70**	NS
Isopropylbenzene	**4.5**	**3 J**	NS

MW-28	5/2/2017	11/17/2017	6/19/2018
Analyte			
Benzene	NS	**7 J**	NS
Chloroethane	NS	**30**	NS

MW-28D	5/2/2017	11/17/2017	6/19/2018
Analyte			
1,1-Dichloroethane	**6.4**	5 J	NS
1,2-Dichlorobenzene	**4.8**	10 U	NS
1,3- Dichlorobenzene	**3.1**	10 U	NS
Benzene	**1.2**	5 U	NS
cis-1,2-Dichloroethylene	**21.2**	**9 J**	NS
Trichloroethylene (TCE)	**6.2**	5 U	NS
Vinyl Chloride	**7.4**	**6 J**	NS

MW-69	5/5/2017	11/9/2017	6/22/2018
Analyte			
Chloroform	1 U	1 U	**40**

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)
1,1-Dichloroethane	5
1,2-Dichlorobenzene	3
1,3-Dichlorobenzene	3
Benzene	1
Chlorobenzene	5
Chloroethane	5
Chloroform	7
cis-1,2-Dichloroethylene	5
Isopropylbenzene	5
Trichloroethylene (TCE)	5
Vinyl chloride	2

LEGEND

- SITE BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- MW-62 — LOCATION AND DESIGNATION OF MONITORING WELL INCLUDED IN THE GROUNDWATER SAMPLING NETWORK
- MW-66 — LOCATION AND DESIGNATION OF MONITORING WELL INCLUDED IN THE GROUNDWATER SAMPLING NETWORK NOT SAMPLED DUE TO LNAPL DETECTION
- MW-68 — LOCATION AND DESIGNATION OF MONITORING WELL INCLUDED IN THE GROUNDWATER SAMPLING NETWORK NOT SAMPLED DUE TO INACCESSIBILITY, ABANDONMENT, OR NO WATER DETECTED
- MW-14 — LOCATION AND DESIGNATION OF MONITORING WELL WITH SPILL BUSTER LNAPL RECOVERY
- BW-3 — LOCATION AND DESIGNATION OF BULKHEAD WELL

DATA BOX KEY

SAMPLE DESIGNATION			SAMPLE DATE
MW-46	5/4/2017	11/15/2017	6/20/2018
Analyte			
Chloroform	**34.1**	0.8 J	**30**
ANALYTE			CONCENTRATION (ug/L)

NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AWQSGVs – AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

VOC – VOLATILE ORGANIC COMPOUND

ug/L – MICROGRAMS PER LITER

LNAPL – LIGHT NON–AQUEOUS PHASE LIQUID

DUP – DUPLICATE

NS – NOT SAMPLED DUE TO LNAPL DETECTION

U – COMPOUND WAS ANALYZED FOR BUT NOT DETECTED

J – ESTIMATED VALUE

BOLD – VALUES SHOWN IN BOLD INDICATE VALUE EXCEEDS AWQSGVs

SOURCE

CONTROL POINT ASSOCIATES, INC. BOUNDARY, LOCATION & UTILITY SURVEY MARCH 6, 2009, DRAWING 1 OF 1 AND BOUNDARY, LOCATION AND UTILITY SURVEY NEWTOWN CREEK AND REVIEW AVENUE LOTS 349, 362, 500, 1362, AND 1367 BLOCK 312 SECTION 2. JULY 6, 2009 AND REVIEW AVENUE LOT 89, BLOCK 312, SECTION 2 FEBRUARY 18, 2011.

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CONTRACTOR'S LINE AND GRADE SOUTH LLC, EXISTING CONDITIONS SURVEY FOR BLOCK 312 LOT 300, JULY 20, 2015.

60' 0 60'

N

Title:

VOC EXCEEDANCES IN GROUNDWATER

SITE STATUS UPDATE REPORT
FORMER PRATT OIL WORKS
LONG ISLAND CITY, QUEENS, NEW YORK

Prepared For:
EXXONMOBIL OIL CORPORATION
BROOKLYN, NEW YORK

ROUX

Compiled by: E.B.	Date: 11JUL18	PLATE
Prepared by: G.M.	Scale: AS SHOWN	3
Project Mgr: D.H.	Project: 0172.0291Y004	
File: 0172.0291Y247.03.DWG		

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MW-37	5/2/2017	11/16/2017	11/16/2017	6/19/2018
Analyte			DUP	
Benzo[a]anthracene	NS	**0.1 J**	0.1 U	NS

MW-1	5/2/2017	11/16/2017	6/19/2018	6/19/2018
Analyte				DUP
Chrysene	1 U	**0.3 J**	0.1 U	**0.5**
Benzo[a]anthracene	1 U	0.1 U	**0.2 J**	**0.2 J**
Benzo[a]pyrene	1 U	0.1 U	**0.1 J**	**0.2 J**

MW-20	5/2/2017	11/15/2017	6/22/2018
Analyte			
Indeno[1,2,3-cd]pyrene	1 U	**0.1 J**	0.1 U

MW-15	5/2/2017	11/16/2017	6/19/2018
Analyte			
Benzo[a]anthracene	1.2 U	**0.1 J**	NS
Chrysene	1.2 U	**0.1 J**	NS

MW-67	5/4/2017	11/13/2017	6/19/2018
Analyte			
Benzo[a]anthracene	**0.59 J**	NS	NS
Chrysene	**0.59 J**	NS	NS

MW-46	5/4/2017	11/15/2017	6/20/2018
Analyte			
Benzo[a]anthracene	1.0 U	**3**	**0.2 J**
Benzo[a]pyrene	**0.81 J**	**3**	**0.3 J**
Benzo[b]fluoranthene	**0.63 J**	**2**	**0.2 J**
Benzo[k]fluoranthene	1.0 U	**0.4 J**	0.1 U
Chrysene	1.0 U	**4**	**0.5 J**
Indeno[1,2,3-cd]pyrene	**0.43 J**	**1**	0.1 U

MW-4D	5/2/2017	11/16/2017	6/19/2018
Analyte			
Benzo[a]anthracene	1.0 U	**0.1 J**	NS
Benzo[a]pyrene	1.0 U	**0.2 J**	NS
Chrysene	1.0 U	**0.2 J**	NS

MW-28	5/2/2017	11/17/2017	6/19/2018
Analyte			
Benzo[a]anthracene	NS	**0.9**	NS
Benzo[a]pyrene	NS	**1**	NS
Benzo[b]fluoranthene	NS	**0.6**	NS
Benzo[k]fluoranthene	NS	**0.1 J**	NS
Chrysene	NS	**1**	NS
Indeno[1,2,3-cd]pyrene	NS	**0.3 J**	NS

MW-28D	5/2/2017	11/17/2017	6/19/2018
Analyte			
Benzo[a]anthracene	1.1 U	**0.2 J**	NS
Benzo[a]pyrene	**0.46 J**	**0.5 J**	NS
Benzo[b]fluoranthene	1.1 U	**0.4 J**	NS
Chrysene	1.1 U	**0.1 J**	NS
Indeno[1,2,3-cd]pyrene	1.1 U	**0.2 J**	NS

MW-29	5/2/2017	11/13/2017	11/13/2017	6/19/2018
Analyte			DUP	
Benzo[a]anthracene	1 U	0.1 U	**0.2 J**	NS
Chrysene	1 U	0.1 U	**0.1 J**	NS

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)
Benzo[a]anthracene	0.002
Benzo[a]pyrene	0
Benzo[b]fluoranthene	0.002
Benzo[k]fluoranthene	0.002
Chrysene	0.002
Indeno[1,2,3-cd]pyrene	0.002

LEGEND

- SITE BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- MW-62 — LOCATION AND DESIGNATION OF MONITORING WELL INCLUDED IN THE GROUNDWATER SAMPLING NETWORK
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- MW-68 — LOCATION AND DESIGNATION OF MONITORING WELL INCLUDED IN THE GROUNDWATER SAMPLING NETWORK NOT SAMPLED DUE TO INACCESSIBILITY, ABANDONMENT, OR NO WATER DETECTED
- MW-14 — LOCATION AND DESIGNATION OF MONITORING WELL WITH SPILL BUSTER LNAPL RECOVERY
- BW-3 — LOCATION AND DESIGNATION OF BULKHEAD WELL

DATA BOX KEY

SAMPLE DESIGNATION — SAMPLE DATE

MW-20	5/2/2017	11/15/2017	6/22/2018
Analyte			
Indeno[1,2,3-cd]pyrene	1 U	**0.1 J**	0.1 U

ANALYTE — CONCENTRATION (ug/L)

NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AWQSGVs – AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

ug/L – MICROGRAMS PER LITER

SVOC – SEMIVOLATILE ORGANIC COMPOUND

LNAPL – LIGHT NON-AQUEOUS PHASE LIQUID

DUP – DUPLICATE

NS – NOT SAMPLED DUE TO LNAPL DETECTION

J – ESTIMATED VALUE

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SOURCE

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CONTRACTOR'S LINE AND GRADE SOUTH LLC, EXISTING CONDITIONS SURVEY FOR BLOCK 312 LOT 300, JULY 20, 2015.

60' 0 60'

N

Title:

SVOC EXCEEDANCES IN GROUNDWATER

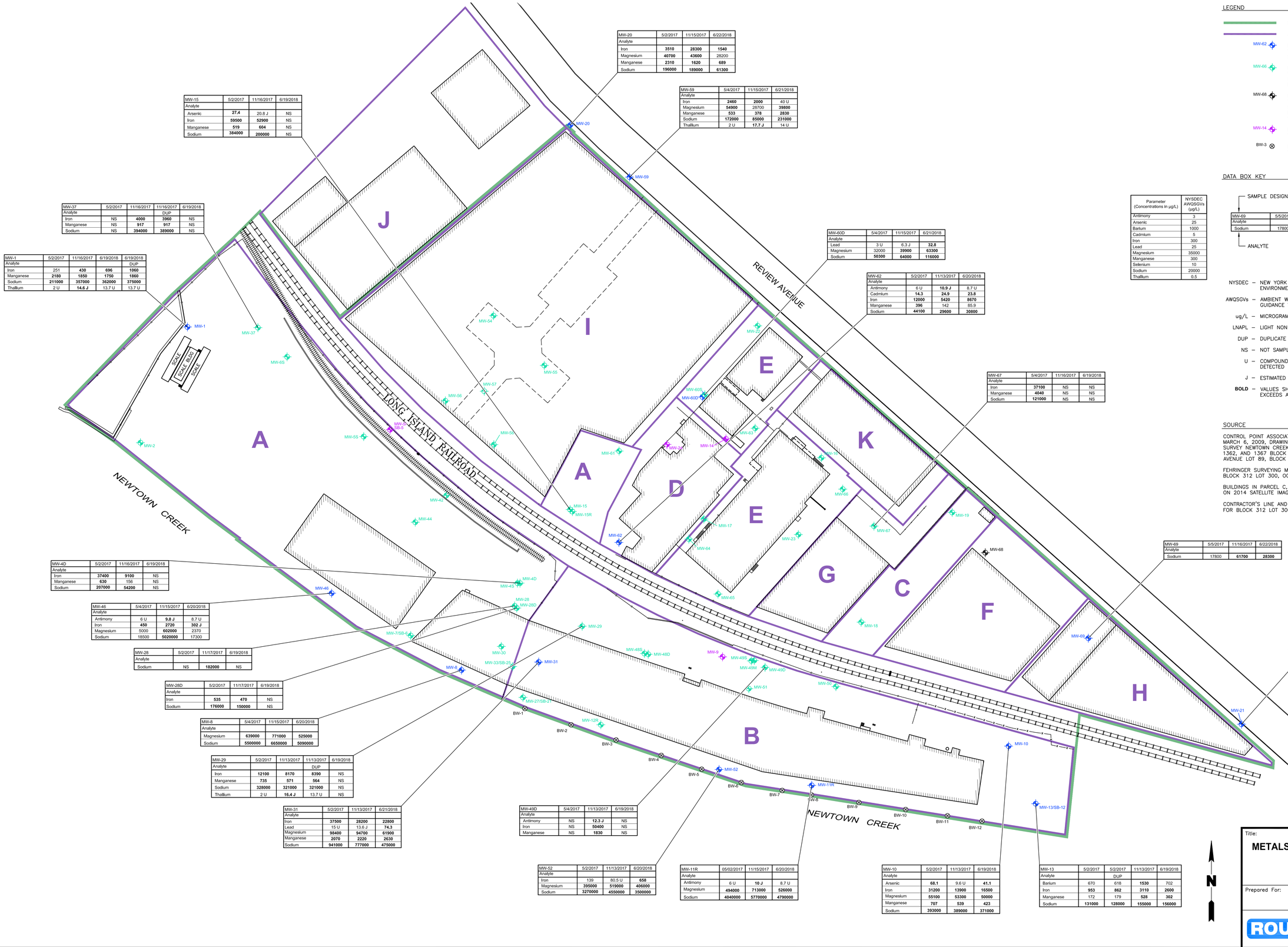
SITE STATUS UPDATE REPORT
FORMER PRATT OIL WORKS
LONG ISLAND CITY, QUEENS, NEW YORK

Prepared For:
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BROOKLYN, NEW YORK

ROUX

Compiled by: B.T.	Date: 11JUL18	PLATE
Prepared by: G.M.	Scale: AS SHOWN	4
Project Mgr: D.H.	Project: 0172.0291Y004	
File: 0172.0291Y247.03.DWG		

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MW-20	5/2/2017	11/15/2017	6/22/2018
Analyte			
Iron	**3510**	**28300**	**1540**
Magnesium	**40700**	**43600**	28200
Manganese	**2310**	**1620**	**689**
Sodium	**196000**	**189000**	**61300**

MW-15	5/2/2017	11/16/2017	6/19/2018
Analyte			
Arsenic	**27.4**	20.8 J	NS
Iron	**59500**	**52900**	NS
Manganese	**519**	**604**	NS
Sodium	**384000**	**200000**	NS

MW-59	5/4/2017	11/15/2017	6/21/2018
Analyte			
Iron	**2460**	**2000**	40 U
Magnesium	**54900**	28700	**39800**
Manganese	**533**	**378**	**2830**
Sodium	**172000**	**85000**	**231000**
Thallium	2 U	**17.7 J**	14 U

MW-37	5/2/2017	11/16/2017	11/16/2017	6/19/2018
Analyte			DUP	
Iron	NS	**4000**	**3960**	NS
Manganese	NS	**917**	**917**	NS
Sodium	NS	**394000**	**389000**	NS

MW-60D	5/4/2017	11/15/2017	6/21/2018
Analyte			
Lead	3 U	6.3 J	**32.8**
Magnesium	32000	**39900**	**63300**
Sodium	**50300**	**64000**	**116000**

MW-62	5/2/2017	11/13/2017	6/20/2018
Analyte			
Antimony	6 U	**10.9 J**	8.7 U
Cadmium	**14.3**	**24.9**	**23.8**
Iron	**12000**	**5420**	**8670**
Manganese	**396**	142	85.9
Sodium	**44100**	**29600**	**30800**

MW-1	5/2/2017	11/16/2017	6/19/2018	6/19/2018
Analyte				DUP
Iron	251	**430**	**696**	**1060**
Manganese	**2180**	**1850**	**1750**	**1860**
Sodium	**211000**	**357000**	**362000**	**375000**
Thallium	2 U	**14.6 J**	13.7 U	13.7 U

MW-67	5/4/2017	11/16/2017	6/19/2018
Analyte			
Iron	**37100**	NS	NS
Manganese	**4040**	NS	NS
Sodium	**121000**	NS	NS

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)
Antimony	3
Arsenic	25
Barium	1000
Cadmium	5
Iron	300
Lead	25
Magnesium	35000
Manganese	300
Selenium	10
Sodium	20000
Thallium	0.5

MW-4D	5/2/2017	11/16/2017	6/19/2018
Analyte			
Iron	**37400**	**9100**	NS
Manganese	**630**	156	NS
Sodium	**207000**	**54200**	NS

MW-46	5/4/2017	11/15/2017	6/20/2018
Analyte			
Antimony	6 U	**9.8 J**	8.7 U
Iron	**450**	**2720**	**302 J**
Magnesium	5000	**602000**	2370
Sodium	18500	**5020000**	17300

MW-28	5/2/2017	11/17/2017	6/19/2018
Analyte			
Sodium	NS	**182000**	NS

MW-28D	5/2/2017	11/17/2017	6/19/2018
Analyte			
Iron	**535**	**470**	NS
Sodium	**176000**	**150000**	NS

MW-8	5/4/2017	11/15/2017	6/20/2018
Analyte			
Magnesium	**639000**	**771000**	**525000**
Sodium	**5500000**	**6650000**	**5090000**

MW-29	5/2/2017	11/13/2017	11/13/2017	6/19/2018
Analyte			DUP	
Iron	**12100**	**8170**	**8390**	NS
Manganese	**735**	**571**	**564**	NS
Sodium	**328000**	**321000**	**321000**	NS
Thallium	2 U	**16.4 J**	13.7 U	NS

MW-31	5/2/2017	11/13/2017	6/21/2018
Analyte			
Iron	**37500**	**28200**	**22800**
Lead	15 U	13.6 J	**74.3**
Magnesium	**98400**	**94700**	**61900**
Manganese	**2070**	**2220**	**2630**
Sodium	**941000**	**777000**	**475000**

MW-49D	5/4/2017	11/13/2017	6/19/2018
Analyte			
Antimony	NS	**12.3 J**	NS
Iron	NS	**50400**	NS
Manganese	NS	**1830**	NS

MW-52	5/2/2017	11/13/2017	6/20/2018
Analyte			
Iron	139	80.5 U	**658**
Magnesium	**395000**	**519000**	**406000**
Sodium	**3270000**	**4550000**	**3500000**

MW-11R	05/02/2017	11/15/2017	6/20/2018
Analyte			
Antimony	6 U	**10 J**	8.7 U
Magnesium	**494000**	**713000**	**526000**
Sodium	**4040000**	**5770000**	**4790000**

MW-10	5/2/2017	11/13/2017	6/19/2018
Analyte			
Arsenic	**68.1**	9.6 U	**41.1**
Iron	**31200**	**13900**	**16500**
Magnesium	**55100**	**53300**	**50000**
Manganese	**707**	**539**	**423**
Sodium	**393000**	**389000**	**371000**

MW-13	5/2/2017	5/2/2017	11/13/2017	6/19/2018
Analyte		DUP		
Barium	670	618	**1530**	702
Iron	**953**	**862**	**3110**	**2600**
Manganese	172	179	**528**	**302**
Sodium	**131000**	**128000**	**155000**	**156000**

MW-69	5/5/2017	11/16/2017	6/22/2018
Analyte			
Sodium	17800	**61700**	**28300**

MW-21	5/5/2017	5/5/2017	11/15/2017	6/21/2018
Analyte		DUP		
Magnesium	**50600**	**49700**	31400	34800
Selenium	10 U	**11.8**	9.3 U	21 U
Sodium	**75800**	**74300**	**55300**	**51800**

LEGEND

- SITE BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- MW-62 — LOCATION AND DESIGNATION OF MONITORING WELL INCLUDED IN THE GROUNDWATER SAMPLING NETWORK
- MW-66 — LOCATION AND DESIGNATION OF MONITORING WELL INCLUDED IN THE GROUNDWATER SAMPLING NETWORK NOT SAMPLED DUE TO LNAPL DETECTION
- MW-68 — LOCATION AND DESIGNATION OF MONITORING WELL INCLUDED IN THE GROUNDWATER SAMPLING NETWORK NOT SAMPLED DUE TO INACCESSIBILITY, ABANDONMENT, OR NO WATER DETECTED
- MW-14 — LOCATION AND DESIGNATION OF MONITORING WELL WITH SPILL BUSTER LNAPL RECOVERY
- BW-3 — LOCATION AND DESIGNATION OF BULKHEAD WELL

DATA BOX KEY

SAMPLE DESIGNATION		SAMPLE DATE	
MW-69	5/5/2017	11/16/2017	6/22/2018
Analyte			
Sodium	17800	**61700**	**28300**

ANALYTE — CONCENTRATION (ug/L)

NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AWQSGVs – AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

ug/L – MICROGRAMS PER LITER

LNAPL – LIGHT NON-AQUEOUS PHASE LIQUID

DUP – DUPLICATE

NS – NOT SAMPLED DUE TO LNAPL DETECTION

U – COMPOUND WAS ANALYZED FOR BUT NOT DETECTED

J – ESTIMATED VALUE

BOLD – VALUES SHOWN IN BOLD INDICATE VALUE EXCEEDS AWQSGVs

SOURCE

CONTROL POINT ASSOCIATES, INC. BOUNDARY, LOCATION & UTILITY SURVEY MARCH 6, 2009, DRAWING 1 OF 1 AND BOUNDARY, LOCATION AND UTILITY SURVEY NEWTOWN CREEK AND REVIEW AVENUE LOTS 349, 362, 500, 1362, AND 1367 BLOCK 312 SECTION 2. JULY 6, 2009 AND REVIEW AVENUE LOT 89, BLOCK 312, SECTION 2 FEBRUARY 18, 2011.

FEHRINGER SURVEYING MONITORING WELL LOCATIONS AND ELEVATIONS FOR BLOCK 312 LOT 300, OCTOBER 30, 2015.

BUILDINGS IN PARCEL C, PARCEL F, PARCEL H AND PARCEL J ARE BASED ON 2014 SATELLITE IMAGE.

CONTRACTOR'S LINE AND GRADE SOUTH LLC, EXISTING CONDITIONS SURVEY FOR BLOCK 312 LOT 300, JULY 20, 2015.

60' 0 60'

N

Title:

METALS EXCEEDANCES IN GROUNDWATER

SITE STATUS UPDATE REPORT
FORMER PRATT OIL WORKS
LONG ISLAND CITY, QUEENS, NEW YORK

Prepared For:
EXXONMOBIL OIL CORPORATION
BROOKLYN, NEW YORK

ROUX

Compiled by: B.T.	Date: 11JUL18	PLATE
Prepared by: G.M.	Scale: AS SHOWN	5
Project Mgr: D.H.	Project: 0172.0291Y004	
File: 0172.0291Y247.03.DWG		

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