

May 29, 2024

Mr. Stephen A. Watts
New York State Department of Environmental Conservation
Region 2
47-40 21st Street
Long Island City, New York 11101

Re: Long Island Well Permit Modification
ExxonMobil Oil Corporation
ExxonMobil Greenpoint Petroleum Remediation Project
Greenpoint, Brooklyn, New York
LI Well Permit # 2-6101-00107/00027

Dear Mr. Watts:

Enclosed is the Long Island Well Permit modification submittal for the ExxonMobil Greenpoint Petroleum Remediation Project (EMGPRP), located in Greenpoint Brooklyn, New York (see Figure 1). This Long Island Well Permit Modification Package has been prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) on behalf of ExxonMobil Environmental and Property Solutions Company, on behalf of ExxonMobil Oil Corporation (collectively, "ExxonMobil"), to request a modification of the existing EMGPRP Long Island Well Permit No. 2-6101-00107/00027 (EMGPRP LI Well Permit) to reflect the proposed revised recovery well network described herein.

The remainder of this letter provides project background information, and the following supporting documentation is attached to this letter in accordance with the Long Island Well Permit Application requirements:

- Attachment 1 – Joint Application Form
- Attachment 2 – Project Data Sheet
- Attachment 3 – Site Photographs
- Attachment 4 – Full Environmental Assessment Forms – Parts 1 and 2
- Figure 1 – Site Location Map
- Figure 2 – EMGPRP Free-Product Recovery System
- Drawing 1 – Recovery Well Profile and Details
- Drawing 2 – Dual Recovery Well Profile and Details
- Table 1 – Recovery Well Design Details

Note that a State Environmental Quality Review Act (SEQR) submittal, including Full Environmental Assessment Forms (Full EAF) Part 1 and Part 2, was submitted as part of the State Pollutant Discharge Elimination System (SPDES) Permit Modification Package described below. A copy of this Full EAF submittal is provided herein as Attachment 4.

Background

Groundwater is extracted from dual-pump recovery wells as part of the ongoing EMGPRP free -product recovery efforts conducted in accordance with the Consent Decree between the State of New York and

ExxonMobil filed on March 1, 2011, in the United States District Court, Eastern District of New York (CD COD-AOD 10-133). The groundwater from each recovery well is currently conveyed to one of two groundwater treatment facilities, including the Former Brooklyn Terminal Free-Product Recovery and Containment System (RCS) and the Off-Site Free-Product Recovery System (ORS). Discharge from each of these treatment facilities is authorized by the existing SPDES Permit No. NY0267724. The approximate locations of the existing RCS, ORS, recovery wells, and outfalls are shown on Figure 2.

It should be noted that a SPDES Permit Modification Package for the EMGPRP was previously submitted to the New York State Department of Environmental Conservation (NYSDEC) and is pending review. The SPDES Permit Modification Package proposed a modification of the existing SPDES Permit No. NY0267724 to allow for consolidation of the existing EMGPRP groundwater treatment facilities into one facility to be constructed at 38 Varick Street, Brooklyn, NY. The EMGPRP SPDES Permit Modification Application Package was submitted on December 11, 2023. NYSDEC comments were received on January 26, 2024, and a Response to Comments Letter was submitted on February 16, 2024.

Proposed Revised Recovery Well Network

Completed Recovery Well Shutdown Activities

Since the effective date of the existing EMGPRP LI Well Permit (April 1, 2018), three recovery wells were shut down in accordance with the Recovery Well Shutdown Procedure, submitted to the NYSDEC as part of the 5-Year Recovery System Evaluation Report 2012-2017. Once each well met all criteria for shutdown and Roux and ExxonMobil determined to shut down the well, a formal shutdown request detailing the evaluation of specified shutdown criteria was submitted to the NYSDEC. Following NYSDEC approval, the recovery well was subsequently shut down and decommissioned. Additional details for the decommissioned recovery wells are provided in the table below:

Recovery Well ID	Shutdown Request Letter Submitted to NYSDEC	NYSDEC Approval Letter	Shutdown Date
RW-E	November 20, 2020	December 4, 2020	January 11, 2021
RW-22	March 30, 2022	April 7, 2022	April 7, 2022
RW-27 (RW-27W & RW-27P)	April 3, 2023	July 28, 2023	July 28, 2023

Proposed Recovery Well Relocation and Installation

Two existing recovery wells (RW-16 and RW-29) are proposed for relocation and a new recovery well (RW-30) is proposed for installation. The rationale for these changes is provided in the Response to Comments Letter dated April 12, 2024, in response to the January 9, 2024 comment letter provided by the NYSDEC regarding the EMGPRP Recovery Well RW-16 and RW-29 Relocation Request Letter, dated September 18, 2023. NYSDEC approval of the relocation request is pending. Approximate proposed locations for these recovery wells are provided on Figure 2. The design information for the relocated recovery wells (RW-16R and RW-29R) and new recovery well (RW-30) will be determined based on hydrogeologic analytical data collected from trial borings and aquifer testing to be performed following NYSDEC approval of the relocation request; however, estimates are provided on Table 1 based on previous soil borings completed in the general area. Please note that the total pumping volume for the Long Island Well Permit will not be affected by the two proposed recovery well relocations and the one additional well.

Recovery well design information for the remaining current recovery well network is also provided on Table 1. Diagrams of typical recovery well construction as well as construction details for each recovery well are provided on Drawings 1 and 2.

Mr. Stephen A. Watts
May 29, 2024
Page 3

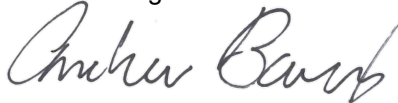
Should you have any questions, or comments relating to any part of this submission, please do not hesitate to reach out to us at your convenience.

Respectfully submitted,

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



Courtney Lind
Senior Engineer



Andrew Baris, P.G.
Executive Vice President/Principal Hydrogeologist

cc: Kirsten Jedd-Barry, NYSDEC – DOW
Lorraine Gregory, NYSDEC – DOW
Caitlyn Nichols, NYSDEC – DOW
Atiqur Rahman, NYSDEC – DOW
Heidi Dudek, NYSDEC – DER
Rafi Alam, NYSDEC – DER
Deborah Gorman, NYSDEC
Michael Murphy, NYSDEC
Andrew G. Frank, New York State Office of the Attorney General
Todd Ommen, Pace University School of Law
Richard Webster, Riverkeeper
Mike Dulong, Riverkeeper
Michael Burghardt, ExxonMobil
Madelyn Wilson, ExxonMobil
Rene Gonzalez, ExxonMobil
Christopher Proce, Roux
Alexander Policastro, Roux

**Long Island Well Permit Modification
ExxonMobil Greenpoint Petroleum Remediation Project
Greenpoint, Brooklyn, New York
LI Well Permit # 2-6101-00107/00027**

TABLES

1. Recovery Well Design Details

Table 1. Recovery Well Design Details, ExxonMobil Greenpoint Petroleum Remediation Project, Greenpoint Brooklyn, New York

Well Designation	Status	Location	Stainless Steel Casing	Well Design Stainless Steel Casing V-shaped Cont. Wrapped			Stainless Steel Sump	Well Diameter (inches)	Length To Screen Top (feet)	Depth To Screen Bottom (ft bls)	Static Water Level (ft bls)	Total Anticipated Volume Pumped (gpm)	Nominal Capacity of Pumps (gpm)	Estimated Daily Pumpage (gpd)
				16-36 ft bls	36-56 ft bls	56-60 ft bls								
RW-14	Active	400 Kingsland Avenue	0-16 ft bls	16-36 ft bls	36-56 ft bls	56-60 ft bls	13	16	56	14	35	77	50,400	
RW-16	Active (To be Decommissioned)	400 Kingsland Avenue	0-25 ft bls	50-slot & #3 Morie 25-55 ft bls	20-slot & #1 Morie		12	25	55	12	10	16	14,400	
RW-16R*	Proposed	400 Kingsland Avenue	0-25 ft bls	25-65 ft bls 20-slot & #1 Morie		65-70 ft bls	12	25	65	12	15	16	21,600	
RW-17	Active	297 Norman Avenue	3-10 ft bls	10-30 ft bls 30-slot & #1 Morie	30-45 ft bls 10-slot & #0 Morie	45-65 ft bls 30-slot & #1 Morie	12	10	65	15	67	77	96,480	
RW-18	Active	366 Kingsland Avenue	3-10 ft bls	10-50 ft bls 30-slot & #1 Morie		86-87 ft bls	12	10	50	13	11	16	15,840	
RW-20	Active	379 Kingsland Avenue	3-18 ft bls	18-38 ft bls 30-slot & #1 Morie		38-43 ft bls	12	18	38	12	4	16	5,760	
RW-21	Active	105 Apollo Street	3-20 ft bls	20-70 ft bls 60-slot & #3 Morie		70-75 ft bls	12	20	70	25	61	77	87,840	
RW-22	Decommissioned (Shutdown: 4/7/2022)	92 Hausman Street	3-28 ft bls	28-68 ft bls 40-slot & #2 Morie	68-78 ft bls 30-slot & #1 Morie	78-83 ft bls	12	28	78	--	--	--	--	
RW-23	Active	72 Apollo Street	3-30 ft bls	30-50 ft bls 60-slot & #3 Morie	50-80 ft bls 30-slot & #1 Morie	80-85 ft bls	12	30	80	37	59	77	84,960	
RW-24W	Active	308 Nassau Avenue	3-60 ft bls	60-80 ft bls 50-slot & #2 Morie	80-90 ft bls 60-slot & #3 Morie	90-95 ft bls	6	60	90	45	29	77	41,760	
RW-24P	Active	308 Nassau Avenue	3-40 ft bls	40-60 ft bls 50-slot & #2 Morie		60-65 ft bls	6	40	60	45	Product recovery pump only 52	Product recovery pump only 77	--	
RW-25	Active	50 Bridgewater Street	3-15 ft bls	15-50 ft bls 50-slot & #2 Morie	50-65 ft bls 30-slot & #1 Morie	65-70 ft bls	12	15	65	21			74,880	
RW-27W	Decommissioned (Shutdown: 7/28/2023)	359 Kingsland Avenue	3-38 ft bls	38-58 ft bls 30-slot & #3 Morie		58-63 ft bls	6	38	58	--	--	--	--	
RW-27P	Decommissioned (Shut down: 7/28/2023)	359 Kingsland Avenue		3-23 ft bls 30-slot & #1 Morie		23-28 ft bls	6	3	23	--	--	--	--	
RW-28	Active	271 & 297 Norman Avenue	3-10 ft bls	10-35 ft bls 40-slot & #2 Morie	35-40 ft bls 20-slot & #1 Morie	40-45 ft bls	12	10	35	12	21	77	30,240	
RW-29	Active (To be Decommissioned)	400 Kingsland Avenue	3-20 ft bls	20-33 ft bls 40-slot & #2 Morie	33-60 ft bls 20-slot & #1 Morie	60-65 ft bls	12	20	60	15	5	16	7,200	
RW-29R*	Proposed	400 Kingsland Avenue	3-20 ft bls	20-60 ft bls 20-slot & #1 Morie		60-65 ft bls	12	20	60	15	5	16	7,200	
RW-30*	Proposed	400 Kingsland Avenue	3-22 ft bls	22-62 ft bls 20-slot & #1 Morie		62-67 ft bls	12	22	62	14	15	16	21,600	
RW-A	Active	44 Apollo Street	3-36 ft bls	36-81 ft bls 40-slot & #2 Morie		81-82 ft bls	10	31	81	46	27	77	38,880	
RW-C	Active	880 Meeker Avenue	3-26 ft bls	26-56 ft bls 40-slot & #2 Morie	56-71 ft bls 10-inch Stainless Steel	71-72 ft bls	10	26	71	30	60	77	86,400	
RW-D	Active	5 Bridgewater Street	3-19 ft bls	19-49 ft bls 40-slot & #2 Morie	49-64 ft bls 10-inch Stainless Steel	64-65 ft bls	10	19	64	23	39	77	56,160	
RW-E	Decommissioned (Shutdown: 1/11/2021)	972 Meeker Avenue	3-9 ft bls	9-39 ft bls 30-slot & #1 Morie	39-54 ft bls 10-inch Stainless Steel	54-55 ft bls	10	9	54	--	--	--	--	
RW-F	Active	564 Gardner Avenue	3-5 ft bls	5-35 ft bls 40-slot & #2 Morie	35-50 ft bls 10-inch Stainless Steel	50-51 ft bls	10	5	50	15	33	77	47,520	
RW-H	Active	38 Varick Street	3-23 ft bls	23-38 ft bls 50-Slot & #3 Morie	38-73 ft bls 40-Slot & #2 Morie	73-78 ft bls	12	23	73	23	46	77	66,240	
RW-I	Active	38 Varick Street	3-25 ft bls	25-60 ft bls 80-Slot & #4 Morie	60-75 ft bls 60-Slot & #3 Morie	75-80 ft bls	12	25	75	29	39	77	56,160	
RW-K	Active	843 Meeker Avenue	3-36 ft bls	36-61 ft bls 60-slot & #3 Morie	61-86 ft bls 30-slot & #1 Morie	86-91 ft bls	12	36	86	41	54	77	77,760	
RW-L	Active	817 Meeker Avenue	3-38 ft bls	38-78 ft bls 60-slot & #3 Morie	78-83 ft bls 30-slot & #1 Morie	83-88 ft bls	12	38	83	47	49	77	70,560	
RW-M	Active	570 Gardner Ave	3-14 ft bls	14-26 ft bls 30-slot & #1 Morie	26-37 ft bls 30-slot & #1 Morie	37-42 ft bls	12	14	37	12	4	77	5,760	

Notes:

- Regardless of the capacity of each recovery well for pumping groundwater to each of the systems in Greenpoint, the individual recovery well flow rates will be adjusted as necessary to ensure that the total influent flow rate will not exceed the current maximum system capacity.
- RW-14 was constructed with carbon steel casing from 0 to 16 feet below grade. All other wells were constructed utilizing stainless steel casing and screen.
- Static Water Level (ft bls) values were collected prior to commencing dual-pump liquid extraction (DPLE) activities onsite. Static Water Level values for proposed recovery wells are estimated based on data from active nearby recovery wells.
- Total Anticipated Volume Pumped (gpm) values are based on 2023 average flow rates for existing recovery wells. For the proposed recovery wells RW-16R and RW-30, the flow rates match that of the groundwater model simulation detailed in the Response to Comments Letter, dated April 12, 2024, regarding the Recovery Well RW-16 and RW-29 Relocation Request. The flow rate for RW-29R matches that of existing recovery well RW-29.
- Gray shading indicates that the recovery well was previously decommissioned or is proposed for decommissioning, as indicated in the Status column. The Total Anticipated Volume Pumped and Estimated Daily Pumpage values for the recovery wells to be decommissioned (RW-16 and RW-29) would be 0 gpm and 0 gpd, respectively, following the proposed recovery well relocation activities.

* Well design specifications for proposed recovery wells are assumed based on existing site condition data and are subject to change based on in field observations during trial borings and installation.

ft bls = feet below land surface

gpd = gallons per day

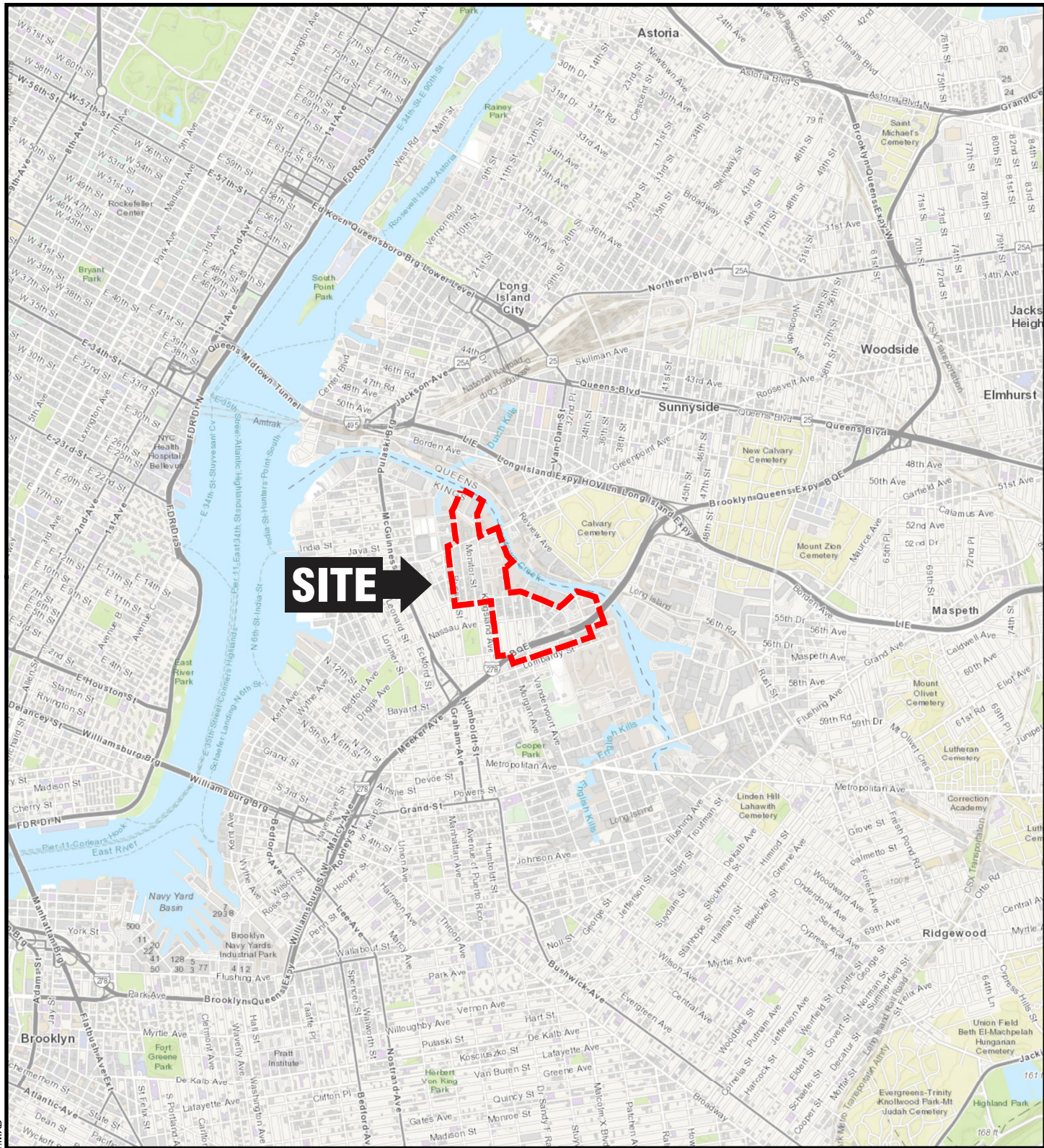
gpm = gallons per minute

-- = data not applicable

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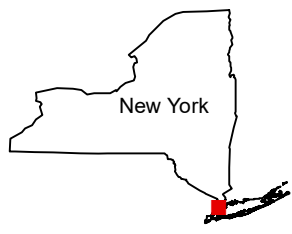
FIGURES

1. Site Location Map
2. EMGPRP Free-Product Recovery System



SITE →

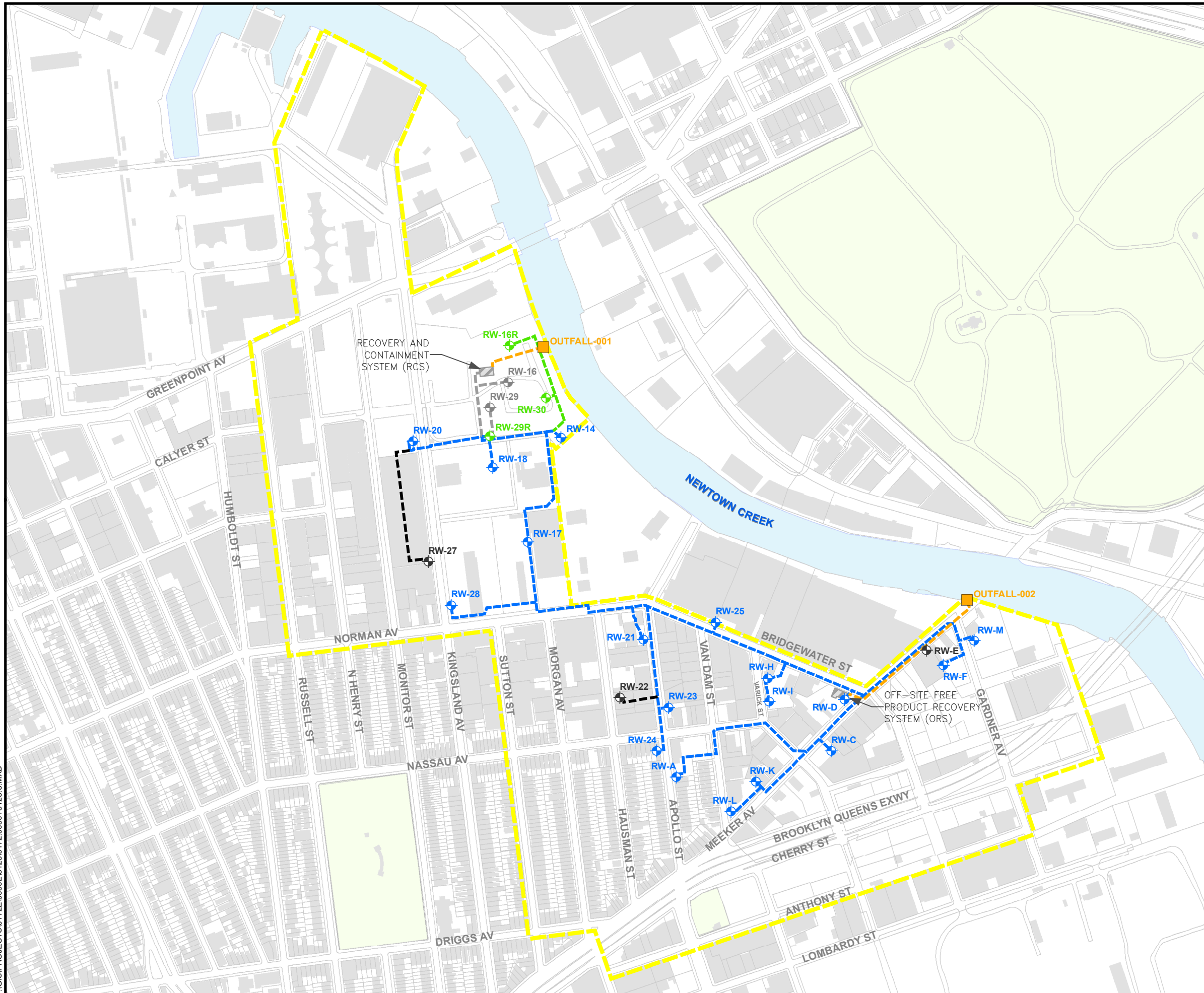
QUADRANGLE LOCATION



Title:		
SITE LOCATION MAP		
EXXONMOBIL GREENPOINT PETROLEUM REMEDIATION PROJECT GREENPOINT, BROOKLYN, NEW YORK		
Prepared for:		
EXXONMOBIL OIL CORPORATION BROOKLYN, NEW YORK		
Compiled by: J.C.	Date: 05/06/24	FIGURE 1
Prepared by: M.S.R.	Scale: AS SHOWN	
Project Mgr: C.L.	Project: 0172.0030Y100	
File: 0172.0030Y5125.1.mxd		



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LEGEND

- RW-24 ACTIVE DUAL-PUMP RECOVERY WELL LOCATION AND DESIGNATION
- OUTFALL-001 APPROXIMATE LOCATION AND DESIGNATION OF NYSDEC-REGULATED SPDES OUTFALL
- RW-16R APPROXIMATE PROPOSED NEW LOCATIONS FOR RECOVERY WELLS
- RW-16 LOCATION AND DESIGNATION OF ACTIVE DUAL-PUMP RECOVERY WELL ANTICIPATED TO BE RELOCATED
- RW-27 DECOMMISSIONED DUAL-PUMP RECOVERY WELL LOCATION AND DESIGNATION
- GROUNDWATER REMEDIATION SYSTEM PIPING
- APPROXIMATE LOCATION OF TREATMENT SYSTEM EFFLUENT PIPING
- APPROXIMATE LOCATION OF PROPOSED NEW GROUNDWATER REMEDIATION SYSTEM PIPING
- GROUNDWATER REMEDIATION SYSTEM PIPING ANTICIPATED TO BE DECOMMISSIONED
- DECOMMISSIONED GROUNDWATER REMEDIATION SYSTEM PIPING
- TREATMENT SYSTEM LOCATION
- EMGPRP SITE BOUNDARY



Title: **EMGPRP FREE-PRODUCT RECOVERY SYSTEM**
 EXXONMOBIL
 GREENPOINT PETROLEUM REMEDIATION PROJECT
 GREENPOINT, BROOKLYN, NEW YORK

Prepared for: EXXONMOBIL OIL CORPORATION
 BROOKLYN, NEW YORK

ROUX	Compiled by: J.C.	Date: 05/07/24	FIGURE 2
	Prepared by: M.S.R.	Scale: AS SHOWN	
	Project Mgr: C.L.	Project: 0172.0030Y100	
	File: 0172.0030Y5125.3.mxd		

**Long Island Well Permit Modification
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Greenpoint, Brooklyn, New York
LI Well Permit # 2-6101-00107/00027**

ATTACHMENT 1

Joint Application Form



JOINT APPLICATION FORM

For Permits for activities affecting streams, waterways, waterbodies, wetlands, coastal areas, sources of water, and endangered and threatened species.

You must separately apply for and obtain Permits from each involved agency before starting work. Please read all instructions.

1. Applications To:
>NYS Department of Environmental Conservation
Check all permits that apply: Stream Disturbance, Dams and Impoundment Structures, Tidal Wetlands, Water Withdrawal, etc.
>US Army Corps of Engineers
Check all permits that apply: Section 404 Clean Water Act, Section 10 Rivers and Harbors Act
>NYS Office of General Services
Check all permits that apply: State Owned Lands Under Water, Utility Easement, Docks, Moorings or Platforms
>NYS Department of State
Check if this applies: Coastal Consistency Concurrence

2. Name of Applicant
Taxpayer ID (if applicant is NOT an individual)
Mailing Address
Post Office / City, State, Zip
Telephone, Email
Applicant Must be (check all that apply): Owner, Operator, Lessee

3. Name of Property Owner (if different than Applicant)
Mailing Address
Post Office / City, State, Zip
Telephone, Email

For Agency Use Only | Agency Application Number:

4. Name of Contact / Agent

Mailing Address Post Office / City State Zip

Telephone Email

5. Project / Facility Name Property Tax Map Section / Block / Lot Number:

Project Street Address, if applicable Post Office / City State Zip

Provide directions and distances to roads, intersections, bridges and bodies of water

Town Village City County Stream/Waterbody Name

Project Location Coordinates: Enter Latitude and Longitude in degrees, minutes, seconds:
Latitude: ° ' " Longitude: ° ' "

6. Project Description: Provide the following information about your project. Continue each response and provide any additional information on other pages. **Attach plans on separate pages.**

a. Purpose of the proposed project:

b. Description of current site conditions:

c. Proposed site changes:

d. Type of structures and fill materials to be installed, and quantity of materials to be used (e.g., square feet of coverage, cubic yards of fill material, structures below ordinary/mean high water, etc.):

e. Area of excavation or dredging, volume of material to be removed, location of dredged material placement:

f. Is tree cutting or clearing proposed? Yes If Yes, explain below. No
Timing of the proposed cutting or clearing (month/year):
Number of trees to be cut: Acreage of trees to be cleared:

g. Work methods and type of equipment to be used:

h. Describe the planned sequence of activities:

i. Pollution control methods and other actions proposed to mitigate environmental impacts:

j. Erosion and silt control methods that will be used to prevent water quality impacts:

k. Alternatives considered to avoid regulated areas. If no feasible alternatives exist, explain how the project will minimize impacts:

l. Proposed use: Private Public Commercial

m. Proposed Start Date: Estimated Completion Date:

n. Has work begun on project? Yes If Yes, explain below. No

o. Will project occupy Federal, State, or Municipal Land? Yes If Yes, explain below. No

p. List any previous DEC, USACE, OGS or DOS Permit / Application numbers for activities at this location:

q. Will this project require additional Federal, State, or Local authorizations, including zoning changes?

Yes If Yes, list below. No

7. Signatures.

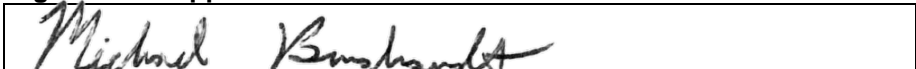
Applicant and Owner (If different) must sign the application. If the applicant is the landowner, the **landowner attestation form** can be used as an electronic signature as an alternative to the signature below, if necessary. Append additional pages of this Signature section if there are multiple Applicants, Owners or Contact/Agents.

I hereby affirm that information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief.

Permission to Inspect - I hereby consent to Agency inspection of the project site and adjacent property areas. Agency staff may enter the property without notice between 7:00 am and 7:00 pm, Monday - Friday. Inspection may occur without the owner, applicant or agent present. If the property is posted with "keep out" signs or fenced with an unlocked gate, Agency staff may still enter the property. Agency staff may take measurements, analyze site physical characteristics, take soil and vegetation samples, sketch and photograph the site. I understand that failure to give this consent may result in denial of the permit(s) sought by this application.

False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the NYS Penal Law. Further, the applicant accepts full responsibility for all damage, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and agrees to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from said project. In addition, Federal Law, 18 U.S.C., Section 1001 provides for a fine of not more than \$10,000 or imprisonment for not more than 5 years, or both where an applicant knowingly and willingly falsifies, conceals, or covers up a material fact; or knowingly makes or uses a false, fictitious or fraudulent statement.

Signature of Applicant

	Date
--	------

Applicant Must be (check all that apply): Owner Operator Lessee

Printed Name	Title

Signature of Owner (if different than Applicant)

	Date
--	------

Printed Name	Title

Signature of Contact / Agent

	Date
--	------

Printed Name	Title

For Agency Use Only

DETERMINATION OF NO PERMIT REQUIRED

Agency Application Number

(Agency Name) has determined that No Permit is required from this Agency for the project described in this application.

Agency Representative:

Printed Name	Title
Signature	Date

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Greenpoint, Brooklyn, New York
LI Well Permit # 2-6101-00107/00027**

ATTACHMENT 2

Project Data Sheet

New York State Department of Environmental Conservation

APPLICATION FOR LONG ISLAND WELL PERMIT

PROJECT DATA SHEET

1. **Name of Applicant:** _____
2. **Location of Property:** _____
3. **Building or Property Use:** _____
4. **Project Description:** _____

5. **Proposed Well System Description:**

Supply Well:

Location: _____

Pumpage Capacity: _____ gallons per minute

Casing Diameter: _____ inches; Screen Diameter: _____ inches

Depth of Well: _____ feet; Aquifer: _____

Diffusion Well(s):

Distance from Supply Well: _____ feet

Direction from Supply Well: _____

Casing Diameter: _____ inches; Screen Diameter: _____ inches

Depth of Well: _____ feet; Aquifer: _____

For geothermal systems, please list the heat exchange fluid to be used in the proposed system

6. **Existing Well Data (list all existing wells on site):**

<u>NYSDEC Well No.</u>	<u>Diameter</u>	<u>Depth</u>	<u>Capacity</u>	<u>Use</u>
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7. **Previous Applications** (list all previous Long Island Well application W #'s if applicable):

8. **Potable Water:** for Drinking and Sanitary Purposes will be secured from:

9. **Site Plan:** Enclose location map with north arrow and identifying markers (ie: roadways) which clearly depicts the proposed well location. Show all existing wells (if applicable).

Water Use Estimate: Seasonal Use (list when well will be in use) _____

Year Round Use _____

Estimated Daily Pumpage: _____

Estimated Yearly Pumpage: _____

(Complete below if applying for **irrigation well**)

10. **Supplemental Data** required with application for **irrigation well** permits:

a. Area to be irrigated: _____ acres

b. Type of crop(s) to be irrigated: _____

c. Water requirements of crop or turf: _____ inches per week

d. Duration of irrigation season: _____ weeks

e. Total irrigation time: _____ hours per day; _____ days per week

f. Pump capacity required: _____ gallons per minute

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LI Well Permit # 2-6101-00107/00027**

ATTACHMENT 3

Site Photographs



Photograph 1: Facing southeast, view of existing RW-29 recovery well on May 14, 2024, at 12:15 PM



Photograph 2: Facing south, general area of RW-29R proposed location on May 14, 2024, at 12:15 PM



Photograph 3: Facing northeast, view of existing RW-16 recovery well on May 14, 2024, at 12:20 PM



Photograph 4: Facing north, general area of RW-16R proposed location on May 14, 2024, at 12:20 PM



Photograph 5: Facing south, general area of RW-30 proposed location on May 14, 2024, at 12:30 PM

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LI Well Permit # 2-6101-00107/00027**

ATTACHMENT 4

Full Environmental Assessment Forms – Parts 1 and 2

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either “Yes” or “No”. If the answer to the initial question is “Yes”, complete the sub-questions that follow. If the answer to the initial question is “No”, proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project:		
Project Location (describe, and attach a general location map):		
Brief Description of Proposed Action (include purpose or need):		
Name of Applicant/Sponsor:		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Project Contact (if not same as sponsor; give name and title/role):		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. (“Funding” includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, or Village Board of Trustees <input type="checkbox"/> Yes <input type="checkbox"/> No		
b. City, Town or Village Planning Board or Commission <input type="checkbox"/> Yes <input type="checkbox"/> No		
c. City, Town or Village Zoning Board of Appeals <input type="checkbox"/> Yes <input type="checkbox"/> No		
d. Other local agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
e. County agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
f. Regional agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
g. State agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
h. Federal agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
<p>i. Coastal Resources.</p> <p><i>i.</i> Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><i>ii.</i> Is the project site located in a community with an approved Local Waterfront Revitalization Program? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><i>iii.</i> Is the project site within a Coastal Erosion Hazard Area? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? Yes No

- **If Yes**, complete sections C, F and G.
- **If No**, proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? Yes No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? Yes No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) Yes No

If Yes, identify the plan(s):

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? Yes No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. Yes No
If Yes, what is the zoning classification(s) including any applicable overlay district?

b. Is the use permitted or allowed by a special or conditional use permit? Yes No

c. Is a zoning change requested as part of the proposed action? Yes No

If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? _____

b. What police or other public protection forces serve the project site?

c. Which fire protection and emergency medical services serve the project site?

d. What parks serve the project site?

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)?

b. a. Total acreage of the site of the proposed action? _____ acres
b. Total acreage to be physically disturbed? _____ acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ acres

c. Is the proposed action an expansion of an existing project or use? Yes No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? Yes No
If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? Yes No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? Yes No

i. If No, anticipated period of construction: _____ months

ii. If Yes:

- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____ year

• Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? Yes No
 If Yes, show numbers of units proposed.

	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion	_____	_____	_____	_____
of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? Yes No
 If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____ height; _____ width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? Yes No
 If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: Ground water Surface water streams Other specify: _____

iii. If other than water, identify the type of impounded/contained liquids and their source.

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? Yes No
 (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)
 If Yes:

i. What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

iv. Will there be onsite dewatering or processing of excavated materials? Yes No
 If yes, describe. _____

v. What is the total area to be dredged or excavated? _____ acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? Yes No

ix. Summarize site reclamation goals and plan: _____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? Yes No
 If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? Yes No

If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? Yes No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? Yes No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? Yes No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No
- Do existing lines serve the project site? Yes No

iii. Will line extension within an existing district be necessary to supply the project? Yes No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? Yes No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? Yes No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? Yes No

If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No

• Do existing sewer lines serve the project site? Yes No
 • Will a line extension within an existing district be necessary to serve the project? Yes No
 If Yes:
 • Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? Yes No
 If Yes:
 • Applicant/sponsor for new district: _____
 • Date application submitted or anticipated: _____
 • What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? Yes No
 If Yes:
 i. How much impervious surface will the project create in relation to total size of project parcel?
 _____ Square feet or _____ acres (impervious surface)
 _____ Square feet or _____ acres (parcel size)
 ii. Describe types of new point sources. _____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

 • If to surface waters, identify receiving water bodies or wetlands: _____

 • Will stormwater runoff flow to adjacent properties? Yes No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? Yes No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? Yes No
 If Yes, identify:
 i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

 ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

 iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? Yes No
 If Yes:
 i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) Yes No
 ii. In addition to emissions as calculated in the application, the project will generate:
 • _____ Tons/year (short tons) of Carbon Dioxide (CO₂)
 • _____ Tons/year (short tons) of Nitrous Oxide (N₂O)
 • _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
 • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆)
 • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflouorocarbons (HFCs)
 • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? Yes No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? Yes No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? Yes No

If Yes:

i. When is the peak traffic expected (Check all that apply): Morning Evening Weekend
 Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? Yes No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____

vi. Are public/private transportation service(s) or facilities available within 1/2 mile of the proposed site? Yes No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? Yes No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? Yes No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? Yes No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? Yes No

l. Hours of operation. Answer all items which apply.

<p><i>i.</i> During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____ 	<p><i>ii.</i> During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____
---	--

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? Yes No
 If yes:
 i. Provide details including sources, time of day and duration:

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? Yes No
 Describe: _____

n. Will the proposed action have outdoor lighting? Yes No
 If yes:
 i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? Yes No
 Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? Yes No
 If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? Yes No
 If Yes:
 i. Product(s) to be stored _____
 ii. Volume(s) _____ per unit time _____ (e.g., month, year)
 iii. Generally, describe the proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? Yes No
 If Yes:
 i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? Yes No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? Yes No
 If Yes:
 i. Describe any solid waste(s) to be generated during construction or operation of the facility:
 • Construction: _____ tons per _____ (unit of time)
 • Operation : _____ tons per _____ (unit of time)
 ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:
 • Construction: _____

 • Operation: _____

 iii. Proposed disposal methods/facilities for solid waste generated on-site:
 • Construction: _____

 • Operation: _____

s. Does the proposed action include construction or modification of a solid waste management facility? Yes No
 If Yes:
 i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____
 ii. Anticipated rate of disposal/processing:
 • _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
 • _____ Tons/hour, if combustion or thermal treatment
 iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? Yes No
 If Yes:
 i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

 ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

 iii. Specify amount to be handled or generated _____ tons/month
 iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

 v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? Yes No
 If Yes: provide name and location of facility: _____

 If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.
 i. Check all uses that occur on, adjoining and near the project site.
 Urban Industrial Commercial Residential (suburban) Rural (non-farm)
 Forest Agriculture Aquatic Other (specify): _____
 ii. If mix of uses, generally describe:

b. Land uses and covertypes on the project site.

Land use or Covertypes	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces			
• Forested			
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)			
• Agricultural (includes active orchards, field, greenhouse etc.)			
• Surface water features (lakes, ponds, streams, rivers, etc.)			
• Wetlands (freshwater or tidal)			
• Non-vegetated (bare rock, earth or fill)			
• Other Describe: _____ _____			

c. Is the project site presently used by members of the community for public recreation? Yes No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? Yes No
If Yes,
i. Identify Facilities:

e. Does the project site contain an existing dam? Yes No
If Yes:
i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? Yes No
If Yes:
i. Has the facility been formally closed? Yes No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? Yes No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? Yes No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes No
 Yes – Spills Incidents database Provide DEC ID number(s): _____
 Yes – Environmental Site Remediation database Provide DEC ID number(s): _____
 Neither database
ii. If site has been subject of RCRA corrective activities, describe control measures: _____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes No
If yes, provide DEC ID number(s): _____
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

v. Is the project site subject to an institutional control limiting property uses? Yes No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? Yes No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ feet

b. Are there bedrock outcroppings on the project site? Yes No
 If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site: _____ %
 _____ %
 _____ %

d. What is the average depth to the water table on the project site? Average: _____ feet

e. Drainage status of project site soils: Well Drained: _____ % of site
 Moderately Well Drained: _____ % of site
 Poorly Drained _____ % of site

f. Approximate proportion of proposed action site with slopes: 0-10%: _____ % of site
 10-15%: _____ % of site
 15% or greater: _____ % of site

g. Are there any unique geologic features on the project site? Yes No
 If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? Yes No

ii. Do any wetlands or other waterbodies adjoin the project site? Yes No
 If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? Yes No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? Yes No
 If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? Yes No

j. Is the project site in the 100-year Floodplain? Yes No

k. Is the project site in the 500-year Floodplain? Yes No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? Yes No
 If Yes:
 i. Name of aquifer: _____

m. Identify the predominant wildlife species that occupy or use the project site: _____ _____ _____	
n. Does the project site contain a designated significant natural community? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Describe the habitat/community (composition, function, and basis for designation): _____ _____ <i>ii.</i> Source(s) of description or evaluation: _____ <i>iii.</i> Extent of community/habitat: <ul style="list-style-type: none"> • Currently: _____ acres • Following completion of project as proposed: _____ acres • Gain or loss (indicate + or -): _____ acres 	
o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Species and listing (endangered or threatened): _____ _____ _____	
p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Species and listing: _____ _____	
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, give a brief description of how the proposed action may affect that use: _____ _____	
E.3. Designated Public Resources On or Near Project Site	
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide county plus district name/number: _____	
b. Are agricultural lands consisting of highly productive soils present? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>i.</i> If Yes: acreage(s) on project site? _____ <i>ii.</i> Source(s) of soil rating(s): _____	
c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature <i>ii.</i> Provide brief description of landmark, including values behind designation and approximate size/extent: _____ _____ _____	
d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> CEA name: _____ <i>ii.</i> Basis for designation: _____ <i>iii.</i> Designating agency and date: _____	

<p>e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p style="margin-left: 20px;">i. Nature of historic/archaeological resource: <input type="checkbox"/> Archaeological Site <input type="checkbox"/> Historic Building or District</p> <p style="margin-left: 20px;">ii. Name: _____</p> <p style="margin-left: 20px;">iii. Brief description of attributes on which listing is based: _____</p>
<p>f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>g. Have additional archaeological or historic site(s) or resources been identified on the project site? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p style="margin-left: 20px;">i. Describe possible resource(s): _____</p> <p style="margin-left: 20px;">ii. Basis for identification: _____</p>
<p>h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p style="margin-left: 20px;">i. Identify resource: _____</p> <p style="margin-left: 20px;">ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____</p> <p style="margin-left: 20px;">iii. Distance between project and resource: _____ miles.</p>
<p>i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p style="margin-left: 20px;">i. Identify the name of the river and its designation: _____</p> <p style="margin-left: 20px;">ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name _____ Date _____

Signature Michael Benzhandt Title _____



EMGPRP SITE →

**38 VARICK ST,
BROOKLYN, NY**

QUADRANGLE LOCATION



Title:		
SITE LOCATION MAP		
EXXONMOBIL GREENPOINT PETROLEUM REMEDIATION PROJECT GREENPOINT, BROOKLYN, NEW YORK		
Prepared for:		
EXXONMOBIL OIL CORPORATION BROOKLYN, NEW YORK		
Compiled by: J.C.	Date: 12/04/23	FIGURE 2A
Prepared by: M.S.R.	Scale: AS SHOWN	
Project Mgr: C.L.	Project: 0172.0030Y070	
File: 0172.0030Y5051.2.mxd		

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Full Environmental Assessment Form
Part 2 - Identification of Potential Project Impacts

Project :

Date :

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency’s reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency **and** the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer “**Yes**” to a numbered question, please complete all the questions that follow in that section.
- If you answer “**No**” to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box “Moderate to large impact may occur.”
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the “whole action”.
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

1. Impact on Land			
Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1)		<input type="checkbox"/> NO	<input type="checkbox"/> YES
<i>If “Yes”, answer questions a - j. If “No”, move on to Section 2.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	<input type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

2. Impact on Geological Features The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g) <input type="checkbox"/> NO <input type="checkbox"/> YES <i>If "Yes", answer questions a - c. If "No", move on to Section 3.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____ _____	E2g	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	<input type="checkbox"/>	<input type="checkbox"/>
c. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

3. Impacts on Surface Water The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h) <input type="checkbox"/> NO <input type="checkbox"/> YES <i>If "Yes", answer questions a - l. If "No", move on to Section 4.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	<input type="checkbox"/>	<input type="checkbox"/>
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	<input type="checkbox"/>	<input type="checkbox"/>
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	<input type="checkbox"/>	<input type="checkbox"/>
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	<input type="checkbox"/>	<input type="checkbox"/>
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	<input type="checkbox"/>	<input type="checkbox"/>

I. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
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4. Impact on groundwater The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer. <input type="checkbox"/> NO <input type="checkbox"/> YES (See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t) <i>If "Yes", answer questions a - h. If "No", move on to Section 5.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	<input type="checkbox"/>	<input type="checkbox"/>
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	<input type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

5. Impact on Flooding The proposed action may result in development on lands subject to flooding. <input type="checkbox"/> NO <input type="checkbox"/> YES (See Part 1. E.2) <i>If "Yes", answer questions a - g. If "No", move on to Section 6.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in development within a 100 year floodplain.	E2j	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in development within a 500 year floodplain.	E2k	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	<input type="checkbox"/>	<input type="checkbox"/>
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	E1e	<input type="checkbox"/>	<input type="checkbox"/>

g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
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6. Impacts on Air			
The proposed action may include a state regulated air emission source. (See Part 1. D.2.f., D.2.h, D.2.g) <i>If "Yes", answer questions a - f. If "No", move on to Section 7.</i>		<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels: i. More than 1000 tons/year of carbon dioxide (CO ₂) ii. More than 3.5 tons/year of nitrous oxide (N ₂ O) iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs) iv. More than .045 tons/year of sulfur hexafluoride (SF ₆) v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions vi. 43 tons/year or more of methane	D2g D2g D2g D2g D2g D2h	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	<input type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

7. Impact on Plants and Animals			
The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.) <i>If "Yes", answer questions a - j. If "No", move on to Section 8.</i>		<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	<input type="checkbox"/>	<input type="checkbox"/>

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	<input type="checkbox"/>	<input type="checkbox"/>
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____	E1b	<input type="checkbox"/>	<input type="checkbox"/>
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	<input type="checkbox"/>	<input type="checkbox"/>
j. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

8. Impact on Agricultural Resources			
The proposed action may impact agricultural resources. (See Part 1. E.3.a. and b.)		<input type="checkbox"/> NO	<input type="checkbox"/> YES
<i>If "Yes", answer questions a - h. If "No", move on to Section 9.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	E1 a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	<input type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

9. Impact on Aesthetic Resources The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.) <i>If "Yes", answer questions a - g. If "No", go to Section 10.</i>				<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur		
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	<input type="checkbox"/>	<input type="checkbox"/>		
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	<input type="checkbox"/>	<input type="checkbox"/>		
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	<input type="checkbox"/>	<input type="checkbox"/>		
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile 1/2 -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	<input type="checkbox"/>	<input type="checkbox"/>		
g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>		

10. Impact on Historic and Archeological Resources The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.) <i>If "Yes", answer questions a - e. If "No", go to Section 11.</i>				<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur		
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on the National or State Register of Historical Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places.	E3e	<input type="checkbox"/>	<input type="checkbox"/>		
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	<input type="checkbox"/>	<input type="checkbox"/>		
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	<input type="checkbox"/>	<input type="checkbox"/>		

d. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
e. If any of the above (a-d) are answered “Moderate to large impact may occur”, continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E3e, E3g, E3f	<input type="checkbox"/>	<input type="checkbox"/>
ii. The proposed action may result in the alteration of the property’s setting or integrity.	E3e, E3f, E3g, E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3	<input type="checkbox"/>	<input type="checkbox"/>

11. Impact on Open Space and Recreation			
The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan. (See Part 1. C.2.c, E.1.c., E.2.q.) <i>If “Yes”, answer questions a - e. If “No”, go to Section 12.</i>		<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in an impairment of natural functions, or “ecosystem services”, provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c E1c, E2q	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	<input type="checkbox"/>	<input type="checkbox"/>
e. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

12. Impact on Critical Environmental Areas			
The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d) <i>If “Yes”, answer questions a - c. If “No”, go to Section 13.</i>		<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	<input type="checkbox"/>	<input type="checkbox"/>
c. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

13. Impact on Transportation The proposed action may result in a change to existing transportation systems. <input type="checkbox"/> NO <input type="checkbox"/> YES (See Part 1. D.2.j) <i>If "Yes", answer questions a - f. If "No", go to Section 14.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action will degrade existing transit access.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

14. Impact on Energy The proposed action may cause an increase in the use of any form of energy. <input type="checkbox"/> NO <input type="checkbox"/> YES (See Part 1. D.2.k) <i>If "Yes", answer questions a - e. If "No", go to Section 15.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	<input type="checkbox"/>	<input type="checkbox"/>
e. Other Impacts: _____ _____			

15. Impact on Noise, Odor, and Light The proposed action may result in an increase in noise, odors, or outdoor lighting. <input type="checkbox"/> NO <input type="checkbox"/> YES (See Part 1. D.2.m., n., and o.) <i>If "Yes", answer questions a - f. If "No", go to Section 16.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in routine odors for more than one hour per day.	D2o	<input type="checkbox"/>	<input type="checkbox"/>

d. The proposed action may result in light shining onto adjoining properties.	D2n	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	<input type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

16. Impact on Human Health

The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.)
If "Yes", answer questions a - m. If "No", go to Section 17.

NO

YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	<input type="checkbox"/>	<input type="checkbox"/>
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	<input type="checkbox"/>	<input type="checkbox"/>
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	<input type="checkbox"/>	<input type="checkbox"/>
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	<input type="checkbox"/>	<input type="checkbox"/>
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	<input type="checkbox"/>	<input type="checkbox"/>
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	<input type="checkbox"/>	<input type="checkbox"/>
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	<input type="checkbox"/>	<input type="checkbox"/>
m. Other impacts: _____ _____			

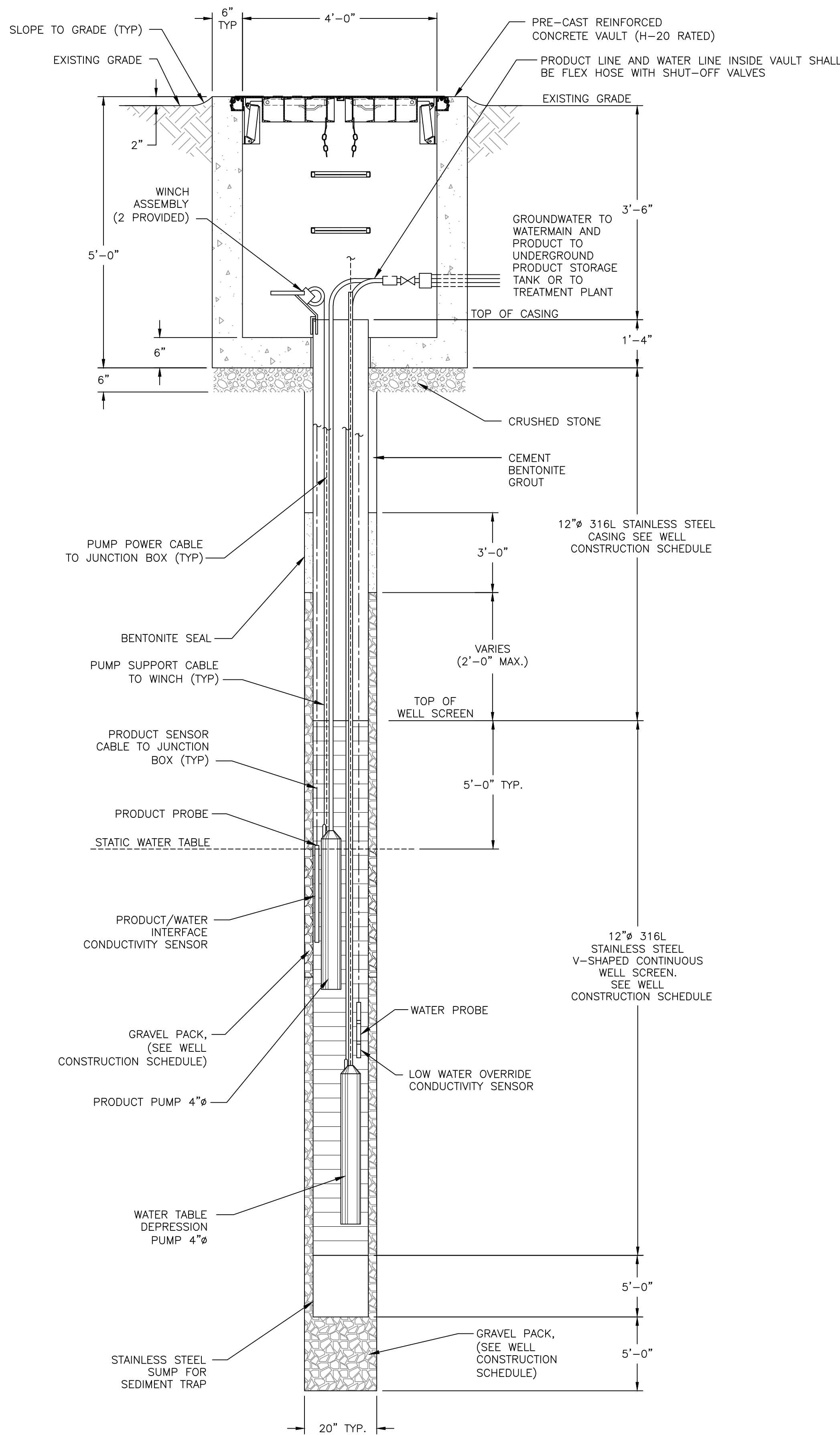
17. Consistency with Community Plans			
The proposed action is not consistent with adopted land use plans. (See Part 1. C.1, C.2. and C.3.) <i>If “Yes”, answer questions a - h. If “No”, go to Section 18.</i>		<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action’s land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, E1b	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	<input type="checkbox"/>	<input type="checkbox"/>
h. Other: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

18. Consistency with Community Character			
The proposed project is inconsistent with the existing community character. (See Part 1. C.2, C.3, D.2, E.3) <i>If “Yes”, answer questions a - g. If “No”, proceed to Part 3.</i>		<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	<input type="checkbox"/>	<input type="checkbox"/>
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	<input type="checkbox"/>	<input type="checkbox"/>
g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

**Long Island Well Permit Modification
ExxonMobil Greenpoint Petroleum Remediation Project
Greenpoint, Brooklyn, New York
LI Well Permit # 2-6101-00107/00027**

PLATES

1. Recovery Well Profile and Details
2. Dual Recovery Well Profile and Details



Well Designation	RW-14	RW-16	RW-16R	RW-17	RW-18	RW-20	RW-21
Well Location	400 Kingsland Avenue	400 Kingsland Ave	400 Kingsland Avenue	297 Norman Avenue	366 Kingsland Avenue	379 Kingsland Avenue	105 Apollo Street
Well Status	Active	Active (Proposed for Decommissioning)	Proposed	Active	Active	Active	Active
Well Design	0-16 ft bls 13-inch Stainless Steel Casing	0-25 ft bls 12-inch Stainless Steel Casing	0-25 ft bls 12-inch Stainless Steel Casing	3-10 ft bls 12-inch Stainless Steel Casing	3-10 ft bls 12-inch Stainless Steel Casing	3-18 ft bls 12-inch Stainless Steel Casing	3-20 ft bls 12-inch Stainless Steel Casing
	16-36 ft bls 13-Inch Stainless Steel V-Shaped Continuous Wrapped 50-slot & Morie #1	25-55 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 20-slot & #1 Morie	25-65 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 20-slot & #1 Morie	10-30 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 30-slot & Morie #1	10-50 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 30-slot & #1 Morie	18-38 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 30-slot & #1 Morie	20-70 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 60-slot & #3 Morie
	36-56 ft bls 13-Inch Stainless Steel V-Shaped Continuous Wrapped 20-slot & #3 Morie			30-45 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 10-slot & #0 Morie			
	56-60 ft bls 13-Inch Stainless Steel Sump	NA	65-70 ft bls 12-Inch Stainless Steel Sump	65-75 ft bls 12-Inch Stainless Steel Sump	86-87 ft bls 12-Inch Stainless Steel Sump	38-43 ft bls 12-Inch Stainless Steel Sump	70-75 ft bls 12-Inch Stainless Steel Sump

Well Designation	RW-22	RW-23	RW-25	RW-28	RW-29	RW-29R	RW-30
Well Location	92 Hausman Street	72 Apollo Street	50 Bridgewater Street	271 & 297 Norman Avenue	400 Kingsland Avenue	400 Kingsland Avenue	400 Kingsland Avenue
Well Status	Decommissioned (Shutdown: 4/7/2022)	Active	Active	Active	Active (Proposed for Decommissioning)	Proposed	Proposed
Well Design	3-28 ft bls 12-inch Stainless Steel Casing	3-30 ft bls 12-inch Stainless Steel Casing	3-15 ft bls 12-inch Stainless Steel Casing	3-10 ft bls 12-inch Stainless Steel Casing	3-20 ft bls 12-inch Stainless Steel Casing	3-20 ft bls 12-inch Stainless Steel Casing	3-22 ft bls 12-inch Stainless Steel Casing
	28-68 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 40-slot & #2 Morie	30-50 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 60-slot & #3 Morie	15-50 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 50-slot & #2 Morie	10-35 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 40-slot & #2 Morie	20-33 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 40-slot & #2 Morie	20-60 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 20-slot & #1 Morie	22-62 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 20-slot & #1 Morie
	68-78 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 30-slot & #1 Morie	50-80 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 30-slot & #1 Morie	50-65 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 30-slot & #1 Morie	35-40 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 20-slot & #1 Morie	33-60 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 20-slot & #1 Morie		
	78-83 ft bls 12-Inch Stainless Steel Sump	80-85 ft bls 12-Inch Stainless Steel Sump	65-70 ft bls 12-Inch Stainless Steel Sump	40-45 ft bls 12-Inch Stainless Steel Sump	60-65 ft bls 12-Inch Stainless Steel Sump	60-65 ft bls 12-Inch Stainless Steel Sump	62-67 ft bls 12-Inch Stainless Steel Sump

Well Designation	RW-A	RW-C	RW-D	RW-E	RW-F
Well Location	44 Apollo Street	880 Meeker Avenue	5 Bridgewater Street	972 Meeker Avenue	564 Gardner Avenue
Well Status	Active	Active	Active	Decommissioned (Shutdown: 1/11/2021)	Active
Well Design	3-36 ft bls 12-inch Stainless Steel Casing	3-26 ft bls 10-inch Stainless Steel Casing	3-19 ft bls 10-inch Stainless Steel Casing	3-9 ft bls 10-inch Stainless Steel Casing	3-5 ft bls 10-inch Stainless Steel Casing
	36-81 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 40-slot & #2 Morie	26-56 ft bls 10-Inch Stainless Steel V-Shaped Continuous Wrapped 40-slot & #2 Morie	19-49 ft bls 10-Inch Stainless Steel V-Shaped Continuous Wrapped 40-slot & #2 Morie	9-39 ft bls 10-Inch Stainless Steel V-Shaped Continuous Wrapped 30-slot & #1 Morie	5-35 ft bls 10-Inch Stainless Steel V-Shaped Continuous Wrapped 40-slot & #2 Morie
	81-82 ft bls 12-Inch Stainless Steel Sump	56-71 ft bls 10-inch Stainless Steel	49-64 ft bls 10-inch Stainless Steel	39-54 ft bls 10-inch Stainless Steel	35-50 ft bls 10-inch Stainless Steel
		71-72 ft bls 10-Inch Stainless Steel Sump	64-65 ft bls 10-Inch Stainless Steel Sump	54-55 ft bls 10-Inch Stainless Steel Sump	50-51 ft bls 10-Inch Stainless Steel Sump

Well Designation	RW-H	RW-I	RW-K	RW-L	RW-M
Well Location	38 Varick Street	38 Varick Street	843 Meeker Avenue	817 Meeker Avenue	570 Gardner Ave
Well Status	Active	Active	Active	Active	Active
Well Design	3-23 ft bls 12-Inch Stainless Steel Casing	3-25 ft bls 12-Inch Stainless Steel Casing	3-36 ft bls 12-Inch Stainless Steel Casing	3-38 ft bls 12-Inch Stainless Steel Casing	3-14 ft bls 12-Inch Stainless Steel Casing
	23-38 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 50-Slot & #3 Morie	25-60 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 80-Slot & #4 Morie	38-61 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 60-slot & #3 Morie	38-78 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 60-slot & #3 Morie	14-26 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 30-slot & #1 Morie
	38-73 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 40-Slot & #2 Morie	60-75 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 60-Slot & #3 Morie	61-88 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 30-slot & #1 Morie	78-83 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 30-slot & #1 Morie	29-37 ft bls 12-Inch Stainless Steel V-Shaped Continuous Wrapped 30-slot & #1 Morie
	73-78 ft bls 12-Inch Stainless Steel Sump	75-80 ft bls 12-Inch Stainless Steel Sump	86-91 ft bls 12-Inch Stainless Steel Sump	83-88 ft bls 12-Inch Stainless Steel Sump	37-42 ft bls 12-Inch Stainless Steel Sump

- NOTES
1. FT BLS = FEET BELOW LAND SURFACE
 2. NA = DATA NOT AVAILABLE
 3. GREEN SHADING INDICATES THAT THE RECOVERY WELL IS PROPOSED FOR FUTURE INSTALLATION.
 4. GRAY SHADING INDICATES THAT THE RECOVERY WELL WAS PREVIOUSLY DECOMMISSIONED OR IS PROPOSED FOR DECOMMISSIONING.

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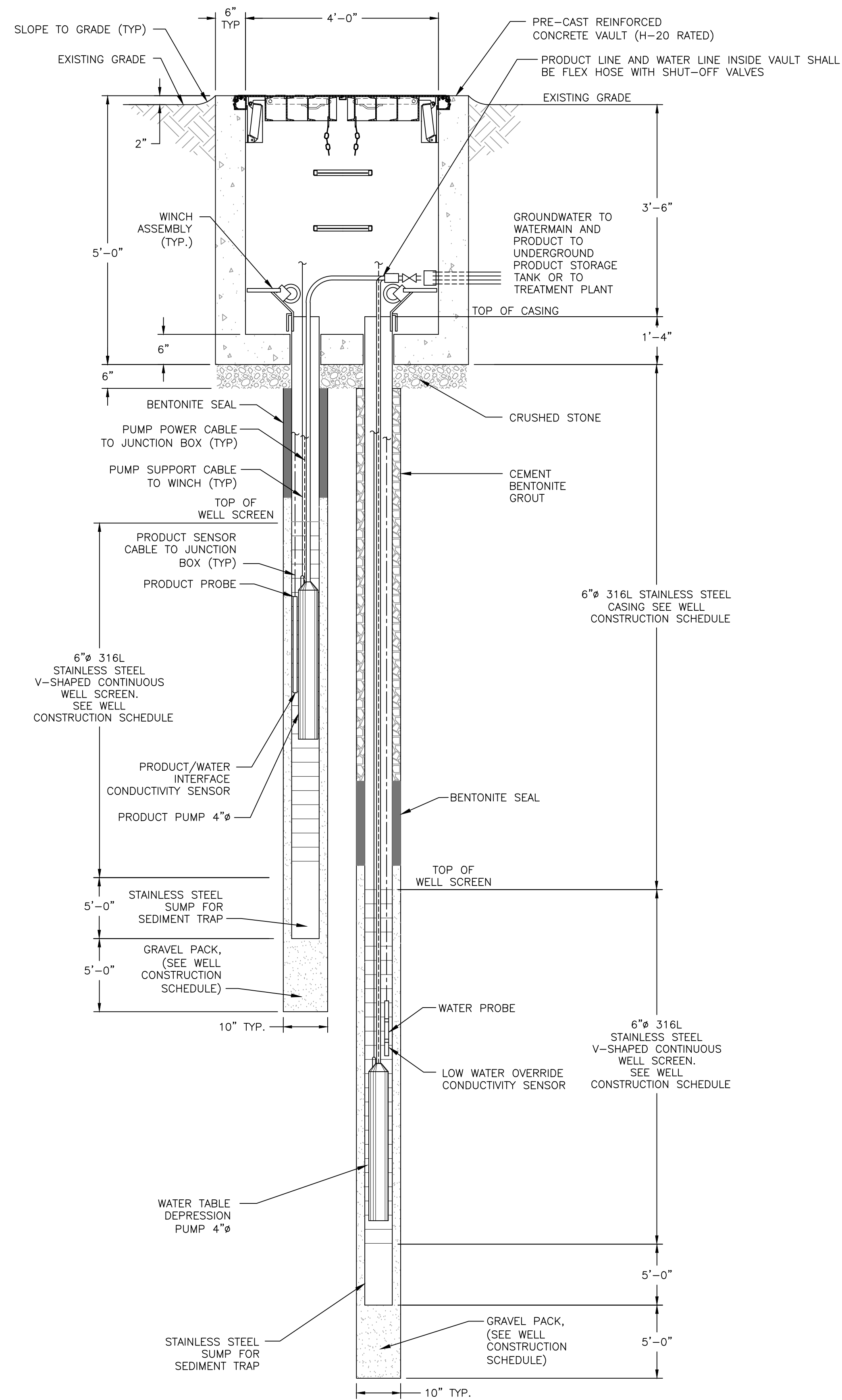
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 209 SHAFTER STREET ISLANDIA NEW YORK 11749
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PROJECT NAME:
**GREENPOINT PETROLEUM REMEDIATION PROJECT
 GREENPOINT, BROOKLYN, NEW YORK**

PROJECT FOR:
**EXXONMOBIL OIL COPORATION
 BROOKLYN, NEW YORK**

TITLE:
**RECOVERY WELL
 PROFILE AND DETAILS**

DRAWING NO.
1
 DRAWING
 1 OF 2



Well Designation	RW-24		RW-27	
Well Location	308 Nassau Avenue		359 Kingsland Avenue	
Well Status	Active		Decommissioned (Shutdown: 7/28/2023)	
Well Design	<i>Water Well</i>	<i>Product Well</i>	<i>Water Well</i>	<i>Product Well</i>
	3-60 ft bls 6-inch Stainless Steel Casing	3-40 ft bls 6-inch Stainless Steel Casing	3-38 ft bls 6-inch Stainless Steel Casing	NA
	60-80 ft bls 6-Inch Stainless Steel V-Shaped Continuous Wrapped 50-slot & #2 Morie	40-60 ft bls 6-inch Stainless Steel V-Shaped Continuous Wrapped 50-slot & #2 Morie	38-58 ft bls 6-inch Stainless Steel V-Shaped Continuous Wrapped 30-slot & #3 Morie	3-23 ft bls 6-inch Stainless Steel V-Shaped Continuous Wrapped 30-slot & #1 Morie
	80-90 ft bls 6-Inch Stainless Steel V-Shaped Continuous Wrapped 60-slot & #3 Morie	60-65 ft bls 6-Inch Stainless Steel Sump	58-63 ft bls 6-Inch Stainless Steel Sump	23-28 ft bls 6-inch Stainless Steel Sump

NOTES

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2. NA = DATA NOT AVAILABLE
3. GRAY SHADING INDICATES THAT THE RECOVERY WELL WAS PREVIOUSLY DECOMMISSIONED OR IS PROPOSED FOR DECOMMISSIONING.
4. A 12" BOREHOLE WAS UTILIZED TO INSTALL EACH 6-INCH RECOVERY WELL AT RW-27.

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GREENPOINT, BROOKLYN, NEW YORK**

PROJECT FOR:
**EXXONMOBIL OIL COPORATION
BROOKLYN, NEW YORK**

TITLE:
**DUAL RECOVERY WELL
PROFILE AND DETAILS**

DRAWING NO.
2
DRAWING
2 OF 2