ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES INC

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December 2, 2016

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Section C
Remedial Bureau B
625 Broadway 12th Floor
Albany, New York 12233-7013

Attention: Mr. John Grathwol

Re: Pre-Design Investigation Work
Former Pratt Oil Works
Long Island City, New York
Consent Order Case No. D2-1002-12-07AM-2
NYSDEC Site No. S241115

Dear Mr. Grathwol:

Roux Associates, Inc. ("Roux Associates"), on behalf of ExxonMobil Oil Corporation ("ExxonMobil"), has prepared this letter to provide the New York State Department of Environmental Conservation (NYSDEC) with a summary of the Pre-Design Investigation (PDI) work proposed for the Former Pratt Oil Works located in Long Island City, New York (Site), within Parcels B, E, and I. As provided in the Feasibility Study Report (Roux Associates, 2016), the proposed remedy for Parcels B, E and I include skimming with enhancements (i.e. recovery trench or sump), if feasible. Based on previous investigations and historic site use, there is the possibility that historic infrastructure below grade may hinder installation of recovery trenches within these areas. Therefore, this PDI work is being conducted in order to determine the feasibility of installing recovery trenches within these Parcels. This work will include completion of a geophysical investigation and, based on the results of this investigation, completion of test pits within each of the three parcels.

The geophysical investigation is a non-intrusive survey that is completed above grade using ground penetrating radar (GPR) equipment that can detect underground utilities and structures. The location of the proposed GPR survey areas within each of the Parcels is shown on the attached Plate 1. It is important to note that the technology used for this investigation can have limitations. The information transmitted by the GPR equipment may be attenuated or distorted by a number of factors, including soil moisture, steel reinforced concrete and proximity to other surface and subsurface utilities. However, the results of the geophysical investigation, along with completion of test pits, should provide us with the information that is needed to finalize the remedial design.

Based on the results of the GPR survey, locations within the surveyed areas will be selected for test pitting. For each parcel, the number of proposed test pits has been selected based on the size of the survey area, and the proposed depth of each test pit is based on the approximate depth to historically-observed light phase non-aqueous phase liquid (LNAPL). For Parcel B, three test pit locations (if possible) will be selected and completed to approximately 10 feet below grade. For Parcel E, three test pit locations (if possible) will be selected and completed to approximately 15 to 20 feet below grade. Lastly, for Parcel I, two test pit locations (if possible) will be selected and completed to approximately 10 to 15 feet below grade. Note, the actual depths of the test pits will be based on the observation of LNAPL in the field. Prior to starting the test pits, the selected locations will be hand-cleared to confirm no underground utilities or structures are within the test pit area. The test pits will then be completed with an excavator until LNAPL or the water table is observed. The area will be immediately backfilled with existing material and restored to meet existing conditions. If additional backfill is required, it will be procured from a certified clean source and documentation will be provided to the NYSDEC for approval prior to placement. All waste generated will be transported and disposed of off-Site in accordance with federal and state regulations, to an ExxonMobil-approved disposal facility. We anticipate the work will take approximately 10 days to complete for each parcel, absent weather or other delays. Roux Associates will provide full time oversight of the work and conduct community air monitoring in accordance with the Generic Community Air Monitoring Plan (New York State Department of Health, 2009). As the schedule is dependent on Property Owner access approval, we will notify the NYSDEC in advance of scheduling the test pit work. If requested, a summary of the PDI work will be provided upon completion.

Please feel free to contact me with any questions.

Sincerely,

ROUX ASSOCIATES, INC.

Dana Hignell
Senior Engineer /
Project Manager

Enclosure

cc: Frank Messina, ExxonMobil (Via Email – frank.j.messina@exxonmobil.com)
Christopher Proce, Roux Associates, Inc.
Brian Morrissey, P.E., Remedial Engineering, P.C.

LEGEND

- SITE BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- APPROXIMATE BARRIER WALL LOCATION
- APPROXIMATE PVC BOOM AND ABSORBENT BOOM LOCATION
- LIMITS OF PROPOSED GEOPHYSICAL SURVEY
- MW-63 MONITORING WELL LOCATION
- MW-14 MONITORING WELL LOCATION WITH SPILL BUSTER LNAPL RECOVERY
- BW-3 SYSTEM BULKHEAD WELL LOCATION
- PZ-4 PIEZOMETER WELL LOCATION
- LNAPL LIGHT NON-AQUEOUS PHASE LIQUID
- PVC POLYVINYL CHLORIDE

SOURCE

CONTROL POINT ASSOCIATES, INC. BOUNDARY, LOCATION & UTILITY SURVEY MARCH 6, 2009, DRAWING 1 OF 1 AND BOUNDARY, LOCATION AND UTILITY SURVEY NEWTOWN CREEK AND REVIEW AVENUE LOTS 349, 362, 500, 1362, AND 1367 BLOCK 312 SECTION Z. JULY 6, 2009 AND REVIEW AVENUE LOT 89, BLOCK 312, SECTION 2 FEBRUARY 18, 2011.

FEHRINGER SURVEYING MONITORING WELL LOCATIONS AND ELEVATIONS FOR BLOCK 312 LOT 300, OCTOBER 30, 2015.

BUILDINGS IN PARCEL C, PARCEL F, PARCEL H AND PARCEL J ARE BASED ON 2014 SATELLITE IMAGE.

CONTROL POINT ASSOCIATES, INC. PIEZOMETER WELL LOCATIONS, MARCH 18, 2016, DRAWING 1 OF 1.

Parcel	Block/Lot
Parcel A	312 / 300 312 / 1367
Parcel B	312 / 309 312 / 315
Parcel C	312 / 348
Parcel D	312 / 1362
Parcel E	312 / 362 312 / 500
Parcel F	312 / 343
Parcel G	312 / 349
Parcel H	312 / 330
Parcel I	312 / 89
Parcel J	312 / 79
Parcel K	312 / 350

Title:

SITE PLAN

PRE-DESIGN INVESTIGATION
FORMER PRATT OIL WORKS
LONG ISLAND CITY, QUEENS, NEW YORK

Prepared For:
EXXONMOBIL OIL CORPORATION
BROOKLYN, NEW YORK

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: T.S.	Date: 01DEC16	PLATE 1
Prepared by: J.A.D	Scale: AS SHOWN	
Project Mgr: D.H.	Project: 0172.0291Y002	
File: 0172.0291Y175.01.DWG		

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