



Consolidated Edison Company  
of New York, Inc.  
31-01 20th Avenue  
Long Island City NY 11105-2048  
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September 13, 2013

Via Electronic Mail

Douglas MacNeal  
New York State Department of Environmental Conservation  
Division of Environmental Remediation  
625 Broadway  
Albany, NY 12233-1011

Paul John, P.E.  
Division of Solid & Hazardous Materials  
Region 2  
New York State Department of Environmental Conservation  
47-40 21<sup>st</sup> Street  
Long Island City, NY 11101-5407

Re: RCRA Corrective Action and Consent Order Bi-Monthly Progress Report  
Con Edison, Astoria Facility

Dear Mr. MacNeal and Mr. John:

Enclosed please find the Bi-Monthly Progress Report (Attachment 1) for RFI activities performed during July and August 2013 for the above-referenced facility. This report is being submitted pursuant to NYSDEC Permit No. 2-6301-00006/00002-0. The work performed during this reporting period includes the following:

- Monthly ICM field inspections were completed during July and August 2013.
- Eight borings were advanced in East Yard during this reporting period.
- Fifteen borings (including the East Yard borings) were advanced to characterize the MGP impacts across the Astoria site during this reporting period.
- Construction of the Outfall B and Outfall G Stormwater Pipelines continued.
- Remedial activities were completed in the North Storage Yard with the capping in the area of Manhole 8.
- A Contract was awarded for the Gravel Embankment/Retaining Wall Encapsulation project.

On July 31, 2013, NYSDEC approved reducing the frequency to quarterly at all wells, except K55, F38, and A22B. There were no deviations from the work plan during this reporting period. The next report will be submitted on or about November 15, 2013.

If you have any questions, please contact me at (718) 267-3866 or Barry Cohen at (718) 204-4252.

Very truly yours,

Matthew Madsen  
Project Manager  
Remediation  
Environment, Health and Safety

cc: Barry Cohen, Con Edison (cohenba@coned.com)  
Sarah Phelan, Con Edison (phelans@coned.com)  
Phil Flax, USEPA (flax.phil@epa.gov)

To: File

From: Matthew Madsen  
Project Manager  
EH&S - Remediation

Re: Bi-Monthly Progress Report  
Astoria RCRA Corrective Action Program  
NYSDEC Permit No. 2-6301-00006/00002-0

Date: September 13, 2013

This memorandum provides a progress report for the RCRA Corrective Action and Consent Order Appendix B Spills Program activities conducted at Con Edison's Astoria Complex between July 1 and August 31, 2013 (the "Reporting Period").

This progress report discusses the following matters.

1. Activities Completed during this Reporting Period
2. Summary of Findings
3. Deviations from Work Plan
4. Contacts with Community
5. Problems Encountered
6. Corrective Actions Taken
7. Changes in Personnel
8. Planned Activities

#### 1. Activities Completed during Reporting Period

- ICM Activities: Former Pond, Purge Oil Pump House and LNG Facility Areas -  
Monthly ICM field inspections were completed during July and August 2013. Nine monitoring wells were monitored as part of the ICM Program in July 2013. Based on the review of historic data collected to-date during the ICM Program, Con Edison had recommended reducing the frequency from monthly to quarterly in the ICM Quarterly Progress Update No. 51 dated July 15, 2013. On July 31, 2013, NYSDEC approved reducing the frequency to quarterly at all wells, except K55, F38, and A22B. Subsequently, only three wells were monitored during the August event. A summary of monthly inspections is discussed in Section 2 herein.

In addition, a well reconnaissance is being performed across the Astoria site to determine the use and condition of ICM wells and nearby wells. The results of this well reconnaissance will be provided to the NYSDEC upon completion.

- North Storage Yard – The concrete cap was completed in the area of Manhole 8. With this, the remedial activities in North Storage Yard are complete. Operation and Maintenance plans are being finalized, and are discussed further in section eight of this report.

- Proposed ICMs for Shallow Soil, Astoria Facility - Con Edison submitted a site wide phase IID remedial investigation report to NYSDEC in February 2008, and is awaiting comments/feedback. Con Edison will continue to identify and work with the NYSDEC to conduct remedial investigations/ remedial action at various ICM areas at the Astoria facility.
- Recreational Area AOC – No activities were performed in small soccer field, the baseball field or the large soccer field during this reporting period.
- East Yard SWMU - Con Edison performed soil and groundwater sampling to assess and delineate the extent of PCB and MGP related contamination in the soil. This is being done with the intent of remediating and repaving the yard starting in 2014. Eight borings were advanced in East Yard during this reporting period. Additional sampling will be done in the northern part of the East Yard prior to the preparation and submittal of the proposed ICM work plan for the site, and is discussed in section eight of this report.
- Astoria Former MGP Site Characterization - During this reporting period, the field program continued and daily field progress reports were submitted by e-mail to the NYSDEC. Fifteen borings (including the East Yard borings) were advanced to characterize the MGP impacts during this reporting period. The whole investigation was conducted from April through August; a total of 86 soil borings and monitoring wells were installed during this time. A report detailing the results of the investigation is being prepared and will be submitted to the DEC in 1Q14.
- Outfall B Stormwater System - During this Reporting Period, work continued on the construction of the Outfall B stormwater system. Minor subsurface utility interferences have been encountered that required minor adjustments to specific stormwater structures. None of these minor adjustments have impacted the performance requirements and expectations for the system per the engineering design. Work is currently progressing downstream towards Manhole MH-6, near the mid-point of the new system. Con Edison is still on track to meet all schedule milestones and complete the stormwater project in accordance with consent order deadlines. Con Edison continues to be in contact with the NYSDEC regarding stormwater quality monitoring at the Outfall B discharge into the East River per the SPDES permit requirements.
- Outfall G Stormwater System - WJL Construction continued to perform construction activities associated with replacement of the current outfall pipe with a larger 36-inch pipe that extends to Luyster Creek. The majority of the outfall pipe replacement has been completed; work in the substation area is completed, and work from the section of pipe from 31<sup>st</sup> street to Luyster creek is almost completed. The majority of remaining work on the system is around the oil water separator and oil minders/remote operated valves east of the East Substation.

- The Gravel Embankment/Retaining Wall - The Gravel Embankment/Retaining Wall is located on the south side of the property along 20<sup>th</sup> Avenue. A section of the retaining wall is constructed with open beams and exposed soil. The exposed soil has been sampled and low concentrations of PCBs were identified and are believed to be a possible secondary source of PCB contamination in stormwater runoff impacting Outfall B. To mitigate this condition, the face of the retaining wall is being encapsulated with gunite to prevent contact of stormwater runoff with potentially PCB impacted soils. Unicorn Construction is the General Contractor overseeing the work. Work will begin in the third quarter of 2013 and be completed by the end of the year.

## 2. Summary of Findings

A summary of the LNAPL gauging and recovery data for this reporting period is presented in Attachment 2.

## 3. Deviations from the Work Plan

There were no deviations from the work plan during this reporting period.

## 4. Contacts with Community

There were no contacts with the community during this reporting period.

## 5. Problems Encountered

No problems were encountered during this reporting period.

## 6. Corrective Actions Taken

No corrective actions were undertaken during this reporting period.

## 7. Changes in Personnel

Amit Haryani has replaced Scott Wozniakowski as the AECOM project manager for Astoria non-MGP work. Amit will be preparing and submitting RCRA and ICM updates on behalf of Con Edison.

## 8. Planned Activities

Following activities are planned in the September and October 2013.

- ICM LNAPL Activities – Purge Oil Pump House, Former Pond Area, and LNG Facility: Con Edison will continue to perform the ICM activities described in our January 16, 2001 *Final ICM Recommendations* letter to the NYSDEC. Con Edison will perform LNAPL monitoring and recovery from nine wells in September and from three wells in October

2013 in accordance with NYSDEC email communication dated July 31, 2013 regarding reduced monitoring frequency.

- Sitewide Monitoring well survey - Upon completion of the site wide ongoing well condition survey, Con Edison will review the Astoria well network with the goal of decommissioning wells that are not in use, and monitoring additional wells that provide valuable data, if needed. Following review, Con Edison will submit a separate request to the NYSDEC to decommission some wells on the Astoria facility that are currently not in use and are not intended to be used moving forward, and add wells to the monitoring schedule, if necessary.
- North Storage Yard: Con Edison will continue to prepare the ICM Report for the implemented remedy and will finalize the Site Management Plan.
- Recreational Area AOC – Baseball Fields, Large Soccer Field and Small Soccer Field: The third annual periodic review report in accordance with the Site Management Plan will be submitted to the NYSDEC and NYSDOH in May 2014.
- East Yard SWMU: Con Edison will continue the remedial investigation field program to delineate potential MGP impacts in the East Yard. Three borings, and potentially four step outs, will be installed on the northern edge of the East Yard to determine if MGP contamination is present. Upon completion of these additional borings, an ICM workplan will be prepared and submitted to the NYSDEC. The workplan will address PCB, lead, PAH, and MGP contamination.
- Astoria Former MGP Site Characterization: The phase I MGP remedial investigation field program at Astoria has been completed. A total of 86 boring and well locations were installed to delineate the MGP impacts across the site. This investigation included seven bedrock wells to identify coal tar in fractures and to better understand fracture patterns in the bedrock on the site. During this field program, daily updates were provided to the NYSDEC. Analytical data is still being gathered and evaluated; a comprehensive report will be prepared and submitted to the DEC in 2014. It is anticipated that additional investigation will be needed on the Astoria site for the MGP program.
- Outfall B Stormwater System: Con Edison will continue the installation of the Outfall B stormwater system. Con Edison is still on track to meet consent order deadlines for the installation of this system.
- Outfall G Stormwater System: Con Edison will continue the installation of the Outfall G stormwater system towards Lyster Creek. Con Edison is still on track to meet consent order deadlines for the installation of this system.

- The Gravel Embankment/Retaining Wall - Unicorn Construction will begin work on the Gravel Embankment in September 2013. The work is anticipated to take approximately two months to complete.

Additional Attachments:

Attachment 2 – ICM LNAPL Gauging Summary (July-August, 2013)

Attachment 3 – NYSDEC Approval of Reduced Monitoring Frequency

## **Attachment 2 - ICM LNAPL Gauging Summary**

(July-August, 2013)

**ATTACHMENT 2  
ICM LNAPL GAUGING SUMMARY  
July and August 2013**



Well Location	Well I.D.	July 9, 2013			August 13, 2013		
		Depth to LNAPL (ft)	Depth to GW (ft)	LNAPL Lens (ft)	Depth to LNAPL (ft)	Depth to GW (ft)	LNAPL Lens (ft)
Former Pond Area							
	A17	--	7.57	--	NG	NG	NG
	A22B <sup>(1)</sup>	12.17	12.46	0.29	12.44	12.77	0.33
Purge Oil Pump House							
	K46	--	9.28	--	NG	NG	NG
	K55	10.81	10.82	0.01	10.9	11.22	0.32
	K56	7.87	9.25	1.38	NG	NG	NG
	K101	--	9.09	--	NG	NG	NG
	K103	7.21	7.09	-0.12	NG	NG	NG
LNG Facility							
	F38	3.81	4.12	0.31	4.52	4.87	0.35

**Notes:**

Reported LNAPL lens is the 'apparent' measured thickness with an oil/water interface probe.

<sup>(1)</sup> : well A22 was destroyed and replaced by well A22B (4-inch temp. well) on June 1, 2006.

-- : Not Detected

NG: Not Gauged

**Attachment 3 – NYSDEC Approval of Reduced  
Monitoring Frequency**

Email from NYSDEC about reduced monitoring frequency.txt

From: Douglas MacNeal [mailto:dkmacnea@gw.dec.state.ny.us]  
Sent: Wednesday, July 31, 2013 11:17 AM  
To: Wozniakowski, Scott  
Cc: Kauffman, Mark; Matthew Madsen; Sarah E Phelan; Douglas MacNeal; Paul John; Ajd03@health.state.ny.us  
Subject: Re: Con Edison, Astoria: ICM Quarterly Status Update

The Department has reviewed the noted ICM update. Given the LNAPL thicknesses noted in wells K55, F38, and A22B, especially since the wells contain passive recovery absorbents, the Department requests that you continue to inspect those wells on a monthly basis. The remaining wells can be inspected on a reduced, quarterly schedule, as requested. The Department reserves the right to request increasing the inspection schedule if large NAPL accumulations begin to be seen again. If you have any questions, you may reach me at this address.

Douglas MacNeal, P.E.  
Environmental Engineer 2  
Central Office  
DER, Bureau C, Section C

>>> "Wozniakowski, Scott" <scott.wozniakowski@aecom.com> 7/15/2013 6:47 PM >>>  
Dear Mr. MacNeal,

On behalf of Con Edison, attached please find their quarterly ICM progress update for LNAPL monitoring and recovery activities completed during the second quarter of 2013 at their Astoria facility. If you have any questions, please contact Matt Madsen with Con Edison at 718.267.3866. Thank you.

Regards,

Scott

Scott Wozniakowski, PG

Project Manager

Environment

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AECOM

250 Apollo Drive, Chelmsford, MA 01824

978.905.2100

Email from NYSDEC about reduced monitoring frequency.txt