

February 18, 2015

Mr. Douglas MacNeal, P.E.  
Project Manager  
New York State Department of Environmental Conservation  
MGP Remedial Section, Division of Environmental Remediation  
Bureau of Western Remedial Action, 11<sup>th</sup> Floor  
625 Broadway  
Albany, New York 12233-7017

**RE: Groundwater Sampling Event Summary  
Rockaway Park Former MGP Site  
Rockaway Park, New York  
Site No. 2-41-029**

Dear Mr. MacNeal:

This report includes a summary of the results for the groundwater samples collected from the on-site and off-site locations at the Rockaway Park former MGP Site. Groundwater samples were collected in October 2014 from two of the three monitoring wells identified in October 8, 2014 sampling scope. Off-site monitoring well RPMW-25S located on Beach 109th Street could not be located during this event and appears to have been destroyed. The results for the groundwater samples from RPMW-14S and RPMW-26S are included in **Table 1**. The table includes the results from the 2009 sampling event for the sampled wells and for the destroyed monitoring well, RPMW-25S.

- The concentrations of total Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) and total Poly-Cyclic Aromatic Hydrocarbon (PAH) in groundwater at monitoring well RPMW-14S are lower in 2014 than detected during the 2009 sampling event.
- The concentrations of total BTEX and total PAHs in groundwater at monitoring well RPMW-26S remained non-detect. Methyl Tertiary Butyl Ether (MTBE) was detected at a concentration below the laboratory reporting limit in the 2014 sample. MTBE is not associated with the operations at the former MGP site.

Base on the results of the sampling, there are no significant changes in the groundwater results that would indicate a changed condition and warrant further sampling.

If you have any questions, please feel free to contact me at (516) 545-2555.

Sincerely,



Thomas Campbell  
Project Manager

Enclosure

cc: S. Selmer (NYSDOH)  
T. Leissing (National Grid)  
M. Reindl (National Grid)  
M. O'Neil (GEI)

Table 1  
 Shallow Groundwater Analytical Results  
 Rockaway Park Former MGP Site  
 Rockaway Park, New York

Sample Name: Sample Date:	NYS AWQS	RPMW-14S 02/24/09	RPMW-14S 10/21/14	RPMW-25S 06/24/09	Duplicate of RPMW-25S 06/24/09	RPMW-26S 06/24/09	RPMW-26S 10/10/14	Duplicate of RPMW-26S 10/10/14
<b>BTEX (ug/L)</b>								
Benzene	1	460	430	10 U	10 U	10 U	10 U	10 U
Toluene	5	120	11	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	1100	1300	10 U	10 U	10 U	10 U	10 U
Xylene, total	5	780	430	10 U	10 U	10 U	10 U	10 U
Total BTEX	NE	2460	2171	ND	ND	ND	ND	ND
<b>Other VOCs (ug/L)</b>								
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	7 J	6 J
<b>Non-carcinogenic PAHs (ug/L)</b>								
Acenaphthene	20*	8	6 J	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	NE	1 J	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	4 J	3 J	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene,2-	NE	12	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	360	25	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50*	4 J	2 J	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	1 J	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	390	36	ND	ND	ND	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>								
Benz[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND
Total PAHs	NE	390	36	ND	ND	ND	ND	ND

Table 1  
Shallow Groundwater Analytical Results  
Rockaway Park Former MGP Site  
Rockaway Park, New York

**Notes:**

ug/L - micrograms per liter or parts per billion (ppb)  
BTEX - benzene, toluene, ethylbenzene, and xylenes  
VOCs - volatile organic compounds  
PAHs - polycyclic aromatic hydrocarbons

NYS AWQS - New York State Ambient Water Quality Standards and Guidance Values for GA groundwater

\* indicates the value is a guidance value and not a standard

NE- not established

ND - not detected

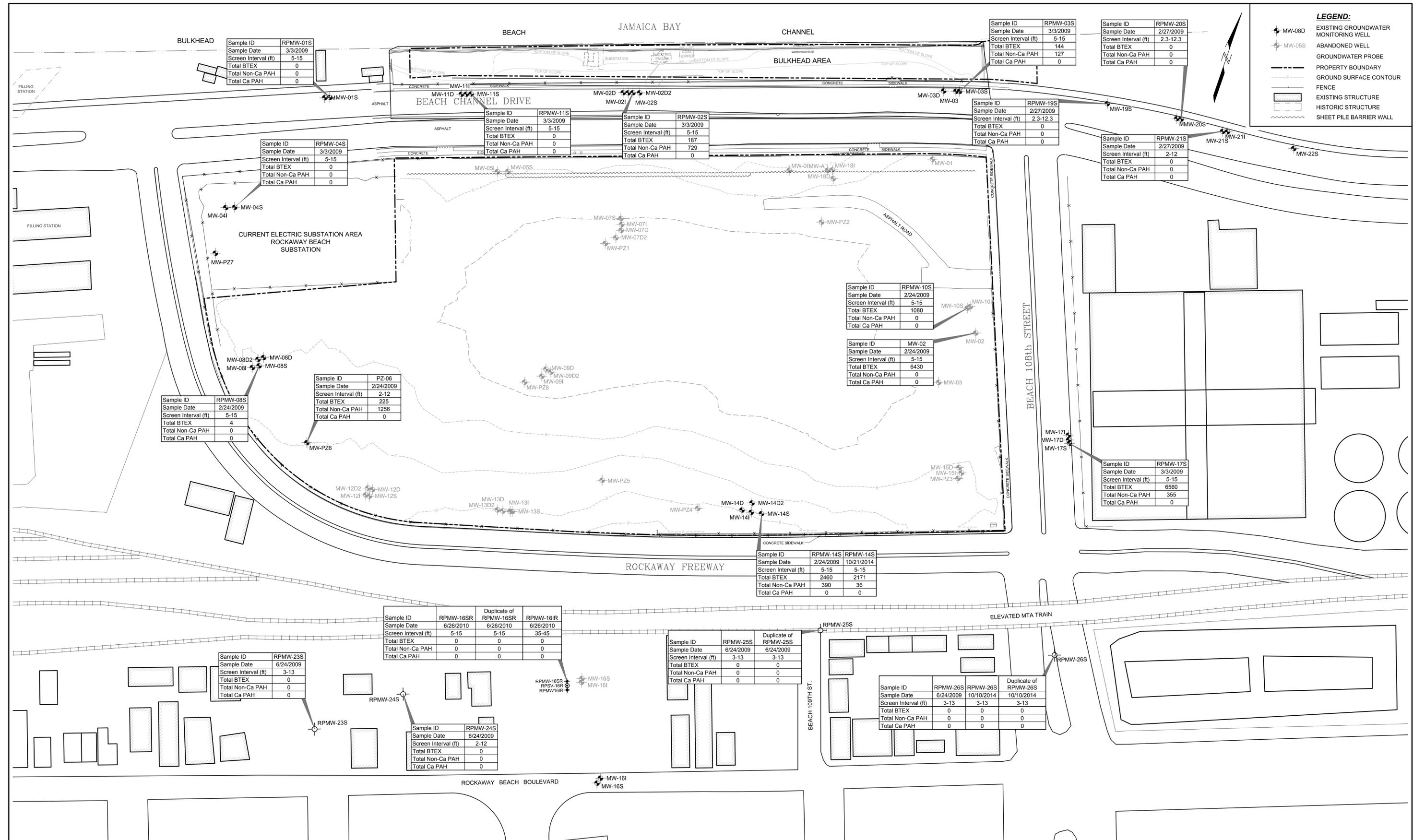
Bolding indicates a detected concentration

Shading and bolding indicates that the detected concentration is above the NYS AWQS objective it was compared to

**Validation Qualifiers:**

J - estimated value

U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis



**LEGEND:**

- MW-08D EXISTING GROUNDWATER MONITORING WELL
- MW-05S ABANDONED WELL
- GROUNDWATER PROBE
- PROPERTY BOUNDARY
- - - GROUND SURFACE CONTOUR
- FENCE
- ▭ EXISTING STRUCTURE
- ▭ HISTORIC STRUCTURE
- ▭ SHEET PILE BARRIER WALL

- SOURCES:**
- C-04: REMEDIAL ACTION SITE PLAN PREPARED BY PAULUS, SOKOLOWSKI & SARTOR ENGINEERS, PC. SCALE: 1" = 40', DATE: JUNE 2008.
  - GROUND SURFACE CONTOURS FROM DRAWING RP-06: SITE-WIDE CAP, RECORD OF CONSTRUCTION PLAN, MONITOR WELL LOCATIONS (PARTIAL) PREPARED BY POSILICO ENVIRONMENTAL, DATE: 7/16/12.
  - FIGURES FROM: FINAL REMEDIAL INVESTIGATION REPORT, ROCKAWAY PARK FORMER MANUFACTURED GAS PLANT SITE, PREPARED BY GEI CONSULTANTS, INC., JANUARY 30, 2004.

GROUNDWATER MONITORING  
 ROCKAWAY PARK FORMER MGP SITE  
 ROCKAWAY PARK, NEW YORK

**nationalgrid**

PROJECT 093150-4-1405



**GROUNDWATER SAMPLING SUMMARY**

February 2015 Figure 1

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