



Rolling Frito-Lay Sales, LP

202-218 Morgan Avenue BCP Site (BCP Site #C224133)

Periodic Review Report

November 6, 2013 - November 22, 2014

December 2014

Executive Summary

The 202-218 Morgan Avenue Brownfield Cleanup Program (BCP) Site (BCP Site #224133) consists of approximately 2.85-acres of land located at 202-218 Morgan Avenue, Borough of Brooklyn, Kings County, New York. The Site owner is Rolling Frito-Lay Sales, LP (Frito-Lay). The Site soil and groundwater was historically found to be contaminated with metals, polychlorinated biphenyls (PCBs), semi-volatile organic compounds (SVOCs), and volatile organic compounds (VOCs), and Site soil vapor was found to be contaminated with volatile organic compounds (VOCs). The Site was remediated to industrial use cleanup standards and received a Certificate of Completion (COC) from the New York State Department of Environmental Conservation (NYSDEC) on November 6, 2013.

The Site is currently in the monitoring stage with groundwater samples being collected from on-Site and off-Site monitoring wells on an annual basis. In general, since post-remediation baseline samples were taken in June 2013 concentrations of acetone, arsenic (total), mercury (total), and polychlorinated biphenyls (PCBs) on-Site have increased; concentrations of methyl tert butyl ether (MTBE) and lead (total) have decreased; and concentrations of chloride, cis-1,2-dichloroethene, trichloroethene, vinyl chloride, arsenic (dissolved), lead (dissolved), and mercury (dissolved) have remained fairly stable. Concentrations of detected compounds off-Site have remained fairly consistent since post-remediation baseline samples were taken in June 2013, with minor increases and decreases observed. Based on the limited number of post-remediation groundwater monitoring events, it is not possible to determine groundwater quality trends at this point in time.

The institutional controls and engineering controls for the Site remain in place and effective for protecting human health and the environment. The soil cover engineering controls remain in place; however, the vegetation needs to be monitored to ensure re-establishment occurs following the winter months. Groundwater monitoring has been completed in accordance with the Site Management Plan (SMP), which identified the need for annual groundwater sampling. There are no new buildings constructed on-Site, as a result, there is no need for inspection of a sub-slab depressurization system (SSDS) engineering control at this time. The institutional and engineering controls certification form as issued by the Department has been completed and included as Appendix A.

There is no need to revise the SMP or propose a change to the frequency of PRR submittals at this time. Groundwater will continue to be monitored and Site inspections will continue to be performed on an annual basis, in accordance with the SMP. Construction of future buildings will be evaluated to determine if mitigation of soil vapor intrusion is necessary. The requirements necessary to discontinue Site monitoring and Site Engineering and Institutional Controls have not been met at this time.

Table of Contents

1.	Introduction	3
1.1	Purpose	3
1.2	Certification Period	3
1.3	Scope and Limitations	3
2.	Site Overview	5
2.1	Background	5
3.	Institutional and Engineering Controls	7
3.1	Institutional Controls	7
3.2	Engineering Controls	8
4.	Operations and Monitoring	9
5.	Recommendations	10

Table Index

Table 1 – Groundwater Elevation Data

Table 2 – Groundwater Field Parameter Data

Table 3 – Summary of Groundwater Sample Laboratory Analytical Results

Figure Index

Figure 1 – Site Location Map

Figure 2 – Site Layout

Figure 3 – Engineering Controls

Figure 4 – Exceedances of Groundwater Standards – Total Metals

Figure 5 – Exceedances of Groundwater Standards – Dissolved Metals

Figure 6 – Exceedances of Groundwater Standards – Other Analytes

Figure 7 – Groundwater Elevation and Presumed Flow Direction

Appendices

Appendix A - Institutional and Engineering Controls Certification Form

Appendix B - Annual Inspection Form

Appendix C - Approval Notifications for EQulS Database Submittals

1. Introduction

1.1 Purpose

This Periodic Review Report (PRR) is being submitted on behalf of Rolling Frito-Lay Sales, LP (Frito-Lay) for the 202-218 Morgan Avenue Brownfield Cleanup Program (BCP) Site (BCP Site No. C224133) located at 202-218 Morgan Avenue, Borough of Brooklyn, Kings County, New York (Figure 1). The purpose of this PRR, and attached documents, is to document that institutional and engineering controls, as described in the New York State Department of Environmental Conservation (NYSDEC)-approved Site Management Plan (SMP) and Environmental Easement (EE), are in place in accordance with 6NYCRR Part 375-3. The following elements are included in this report:

- A complete description of all institutional and/or engineering controls employed at the Site;
- An evaluation of the plans developed for implementation of the engineering and institutional controls, regarding the continued effectiveness of any institutional and/or engineering controls required by the decision document for the Site;
- A certification prepared by a professional engineer or qualified environmental professional that the institutional controls and/or engineering controls employed at the Site during the period are:
 - Unchanged from the previous certification, unless approved by the Department, consistent with the SMP;
 - In place and effective;
 - Performing as designed, and that nothing has occurred that would (1) impair the ability of the controls to protect public health and environment, or (2) constitute a violation or failure to comply with any operation and maintenance plan for such controls;
- The institutional and engineering controls certification form as issued by the Department has been completed and included as Appendix A; and
- Data tables and figures depicting results of annual groundwater monitoring activities conducted on- and off-Site.

1.2 Certification Period

NYSDEC requested that this Periodic Review Report (PRR) cover the period between November 6, 2013 and November 22, 2014. During this period, Frito-Lay performed regular inspections of the soil cover engineering control on-Site and GHD Consulting Services Inc. (GHD) performed annual groundwater monitoring and an annual visual inspection of engineering controls.

1.3 Scope and Limitations

This report: has been prepared by GHD for Rolling Frito-Lay Sales, LP and may only be used and relied on by Rolling Frito-Lay Sales, LP for the purpose agreed between GHD and Rolling Frito-Lay Sales, LP as set out in section 1.1 of this report.

GHD otherwise disclaims responsibility to any person other than Rolling Frito-Lay Sales, LP arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

GHD has prepared this report based in part on information provided by Rolling Frito-Lay Sales, LP and others who provided information to GHD (including Government authorities), which GHD has not independently verified or checked beyond the agreed scope of work. GHD does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

The opinions, conclusions and any recommendations in this report are based on information obtained from, and testing undertaken at or in connection with, specific sample points. Site conditions at other parts of the Site may be different from the Site conditions found at the specific sample points.

Investigations undertaken in respect of this report are constrained by the particular Site conditions, such as the location of buildings, services and vegetation. As a result, not all relevant Site features and conditions may have been identified in this report.

Site conditions (including the presence of hazardous substances and/or Site contamination) may change after the date of this Report. GHD does not accept responsibility arising from, or in connection with, any change to the Site conditions. GHD is also not responsible for updating this report if the Site conditions change without further authorization to do so by Rolling Frito-Lay Sales, LP.

2. Site Overview

2.1 Background

The Site is located in the Borough of Brooklyn, Kings County, New York and is identified as Block 2942 and Lots 105, 111, and 112 on the NYSDEC Institutional and Engineering Controls Certification Form. Information obtained from the New York City Finance Department online Tax Maps identifies the Site as Block 2942 and Lot 105, with no matching records for Lots 111 and 112. The Site is approximately 3.23-acres of land, of which approximately 2.85-acres were entered into the BCP. The Site is bound by an adjacent parcel to the north owned by Rolling Frito-Lay Sales, LP and used for distribution activities; English Kills to the east, the English Kills basin and an adjacent industrial parcel to the south; and Morgan Avenue to the west with commercial and industrial properties to the west (see Figure 2).

The Site is currently developed with an asphalt pavement parking area used for parking Frito-Lay delivery vehicles and employee vehicles. The portion of the Site not occupied by asphalt pavement consists of minor grass covered landscaping areas and rip-rap adjacent to English Kills and the English Kills basin.

The Remedial Investigation (RI), which was conducted under Brownfield Cleanup Agreement (BCA Index #A2-0622-0709) during 2009 and 2010, characterized the nature and extent of contamination at the Site. The results of the RI, as reported in the *Revised Remedial Investigation Report* (Gannett Fleming, P.C., July 2010) and the *Supplemental Remedial Investigation and Second Supplemental Remedial Investigation Report* (Gannett Fleming, P.C., April 2011) determined that contaminants of concern (COCs) are present in Site soil, groundwater, and soil vapor. It was determined that Site surface and subsurface soils contain arsenic, lead, mercury, polychlorinated biphenyls (PCBs), and semi-volatile organic compounds (SVOCs) at concentrations that exceed the Unrestricted Use Soil Cleanup Objectives (SCOs). Analytical results of Site groundwater samples identified arsenic, lead, and volatile organic compounds (VOCs) at concentrations that exceed the Technical and Operational Guidance Series (TOGS) Class GA groundwater standards and guidance values. VOCs were also detected in Site soil vapor samples.

A Remedial Work Plan (RWP) was prepared by Gannett Fleming, P.C. (August 2011). The remedial goals for the Site included:

- removing or eliminating significant threats to human health and the environment; and
- protecting human health and the environment during the contemplated future use of the Site, which was identified as industrial, heavy manufacturing, in accordance with the BCA and DER-10.

The proposed remedial approach was to remediate the Site to a Track 4 Restricted Use by meeting the Industrial Use SCOs. This remediation approach included excavation of soil/fill exceeding site-specific remedial action objectives (RAOs), excavation of soil/fill exceeding the Industrial Use SCOs, and engineering/institutional controls. Remedial activities were completed at the Site in February 2013. Soil/fill excavation included:

- the removal of approximately 16,513 tons of hazardous PCB soil (PCB concentrations in excess of 50 mg/kg);
- the removal of approximately 4,096 tons of non-hazardous PCB soil (PCB concentrations in excess of 10 mg/kg or 25 mg/kg, depending on the excavation area);

- the removal of approximately 619 tons of arsenic, lead, and mercury contaminated soil with concentrations exceeding the Protection of Groundwater and/or Industrial Use SCOs; and
- the placement of imported clean fill material back into the excavation areas.

Excavated soil/fill was transported for off-site disposal. The PCB excavated soils that were identified as hazardous were managed in accordance with TSCA regulations.

The selected remedy for groundwater remediation was natural attenuation, based on the fact that VOC daughter products were present in several on-Site groundwater monitoring wells, which suggests that degradation is occurring and can be expected to continue over time. Also, sensitive receptors were not identified downgradient of the Site and the Site and surrounding area is serviced by a municipal water supply system.

The engineering controls for the Site consist of maintaining the soil cover system and requiring the installation of a sub-slab depressurization system (SSDS) in any new buildings constructed on-Site, or in the Frito-Lay warehouse located on the adjoining property if it is expanded. The institutional controls include a Site groundwater use restriction, a Site use restriction restricting the use to industrial uses, and the requirement that a SSDS will be installed in any future buildings constructed on-Site.

An Environmental Easement (EE) for the Site was filed with the Kings County Clerk's Office on September 20, 2013. A Site Management Plan, which outlines Site restrictions and requirements of future maintenance and monitoring, was completed in September 2013. A Certificate of Completion (COC) allowing for industrial uses of the Site was received from the NYSDEC on November 6, 2013.

The reader of this PRR may refer to previous reports for more detail, as needed. These reports include:

- *Subsurface Investigation*, Gannett Fleming, P.C., 2003.
- *Phase I Environmental Site Assessment*, Gannett Fleming, P.C., 2006.
- *Surface Pile Characterization Work Plan*, Gannett Fleming, P.C., 2007.
- *Phase II Environmental Site Assessment*, Gannett Fleming, P.C., 2007.
- *Remedial Investigation*, Gannett Fleming, P.C., 2009.
- *Supplemental Remedial Investigation*, Gannett Fleming, P.C., 2010.
- *Second Supplemental Remedial Investigation*, Gannett Fleming, P.C., 2011.
- *Remedial Work Plan*, Gannett Fleming, P.C., 2011.
- *Site Management Plan*, Frito-Lay, Brooklyn, New York, NYSDEC Site Number: C224133, Gannett Fleming Engineers, P.C., September 2013.
- *Final Engineering Report*, Frito-Lay, Brooklyn, Kings County, New York, NYSDEC Site Number: C224133, Gannett Fleming Engineers, P.C., October 2013.
- 202-218 Morgan Avenue BCP Site Annual Post-Remediation Groundwater Monitoring Letter Report, GHD Consulting Services Inc., August 1, 2014.

3. Institutional and Engineering Controls

Based on identified soil, groundwater, and soil vapor contamination, and the Site's past and present use, institutional and engineering controls are utilized at the Site to limit exposure risks. These institutional and engineering controls are described below.

3.1 Institutional Controls

The institutional controls (ICs) for this Site are outlined in the NYSDEC-approved SMP (Gannett Fleming Engineers, P.C., September 2013) and adherence to these ICs is required by the Environmental Easement. The ICs for the Site include the following:

- the property may only be used for industrial uses provided that the long-term engineering and institutional controls included in the NYSDEC-approved SMP are employed;
- the property may not be used for a higher level of use, such as, unrestricted, residential, restricted residential, and/or commercial use without additional remediation and amendment of the EE, as approved by the NYSDEC;
- all future activities on the property that will disturb remaining contamination must be conducted in accordance with the NYSDEC-approved SMP;
- the use of groundwater underlying the property is prohibited without treatment rendering it safe for intended use and prior approval by NYSDEC;
- the potential for soil vapor intrusion must be evaluated for any buildings developed on Site and any potential impacts that are identified must be monitored and mitigated;
- vegetable gardens and farming on the property are prohibited; and
- the Site owner or remedial party will submit to the NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the property are unchanged from the previous certification or that any changed to the controls were approved by the NYSDEC; and (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such property any time in order to evaluate the continued maintenance or any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow, and will be made by an expert that the NYSDEC finds acceptable.

3.1.1 Site Use

The Site use has not changed since the NYSDEC issued the Certificate of Completion and is currently used for industrial uses (parking or Frito-Lay company and employee vehicles).

3.1.2 Groundwater

Groundwater is not being used at the Site.

Monitored natural attenuation groundwater monitoring was conducted as outlined in the NYSDEC-approved SMP during this PRR reporting period (May 2014). Laboratory analytical results were tabulated and submitted to the NYSDEC (GHD, August 1, 2014) and to the NYSDEC's EQulS

Database. Results of groundwater monitoring did not warrant revision of the monitoring schedule or analytical list.

3.1.3 Excavations

No excavations have occurred on-Site during this PRR's certification period.

3.2 Engineering Controls

The engineering controls (ECs) for this Site are outlined in the NYSDEC-approved SMP (Gannett Fleming Engineers, P.C., September 2013), and include the following:

3.2.1 Asphalt and Soil (Engineered) Cover Systems

Direct contact with soil/fill at the Site is mitigated by a soil cover system in place over the entirety of the Site. This soil cover system is comprised of a minimum of 6 inches of asphalt pavement or a minimum of 1-foot of clean soil/fill maintained as mowed lawn. The location of the soil cover system is depicted in Figure 3.

The soil cover system was in place for the duration of the certification period and no maintenance was required to amend the soil cover system. It was noted that the vegetation had not begun to regrow at the time of the annual Site inspection (April 9, 2014) and that future Site inspections should confirm that vegetation is re-established in these areas.

Additional information can be found in the Institutional and Engineering Controls Certification Form (Appendix A) and the Annual Inspection Form (Appendix B).

3.2.2 Chain Linked Fence

To prevent unauthorized access to the Site, a 10-foot high chain linked fence was installed along the eastern, western, and southern boundaries. Access to the Site from the northern boundary is controlled by the adjacent property, which is also owned by Frito-Lay.

The chain linked fence was in good condition at the time of the annual Site inspection (April 9, 2014) and appeared to be effective in limiting unauthorized access to the Site.

3.2.3 Sub-Slab Depressurization System

A sub-slab depressurization system (SSDS) will be required to be installed in any new buildings constructed on-Site or in new buildings if constructed on the adjacent property owned by Frito-Lay.

At the time of the annual Site inspection (April 9, 2014) no new buildings had been constructed on-Site and the adjacent warehouse had not been expanded. Therefore, no SSDS evaluation or monitoring is required at this time.

4. Operations and Monitoring

The NYSDEC-approved SMP (Gannett Fleming Engineers, P.C., September 2013) requires annual groundwater monitoring and reporting. The annual monitoring is intended to assess the performance of the remedy and overall reduction in contamination on-Site. The annual groundwater monitoring was completed in accordance with the SMP (Figures 4, 5, 6, and 7 and Tables 1, 2, and 3). The laboratory sample results were transmitted to the NYSDEC on August 1, 2014 and were successfully uploaded into the NYSDEC's EQulS Database on August 25, 2014 (Appendix C).

In general, since post-remediation baseline samples were taken in June 2013 concentrations of acetone, arsenic (total), mercury (total), and polychlorinated biphenyls (PCBs) on-Site have increased; concentrations of methyl tert butyl ether (MTBE) and lead (total) have decreased; and concentrations of chloride, cis-1,2-dichloroethene, trichloroethene, vinyl chloride, arsenic (dissolved), lead (dissolved), and mercury (dissolved) have remained fairly stable. Concentrations of detected compounds off-Site have remained fairly consistent since post-remediation baseline samples were taken in June 2013, with minor increases and decreases observed.

Table 3 summarizes post-remediation baseline concentrations compared to current concentrations.

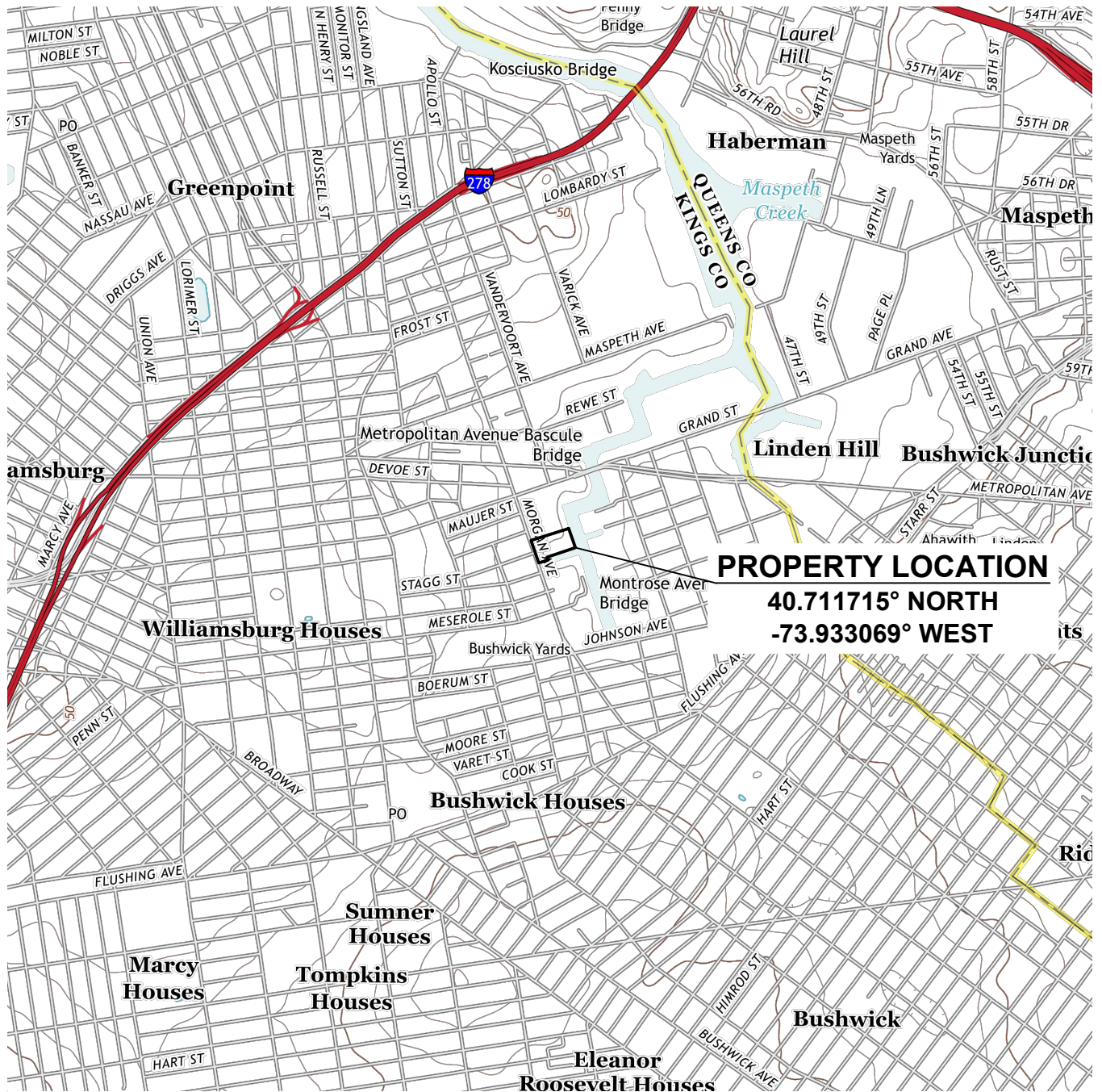
At this time there is not sufficient data to determine trends in groundwater concentrations. As future sampling events occur, it will become possible to establish trends in groundwater quality and to determine if monitored natural attenuation is sufficient for remediating the Site, or if further action may be required.

Based on the groundwater data received to date, the qualitative exposure assessment assumptions regarding on-Site and off-Site contamination have not changed and are still valid.

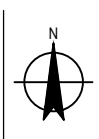
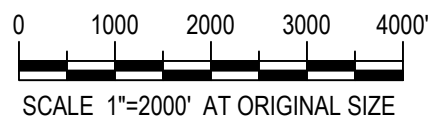
5. Recommendations

Based on a review of the annual groundwater data, it is recommended that the ICs and ECs currently in place for the Site remain in place in order to ensure the continued effectiveness and protectiveness of the remedy. Groundwater monitoring should continue to be conducted on an annual basis as identified in the SMP. The effectiveness of the remedy should continue to be evaluated through these annual groundwater monitoring results. Annual Site inspections should be continued to ensure that the soil cover engineering controls are in place and functioning as intended.

Figures



CONTOUR INTERVAL: 10 FEET
 MAP TAKEN FROM: USGS 7.5 MINUTE SERIES
 TOPOGRAPHIC QUADRANGLES:
 BROOKLYN, NY (2013)
 (U.S. GEOLOGICAL SURVEY WEBSITE)



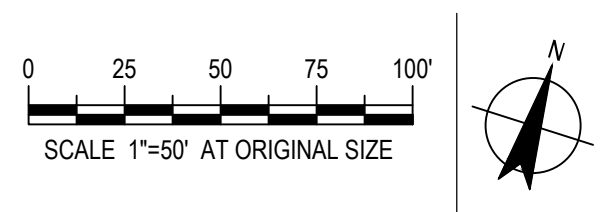
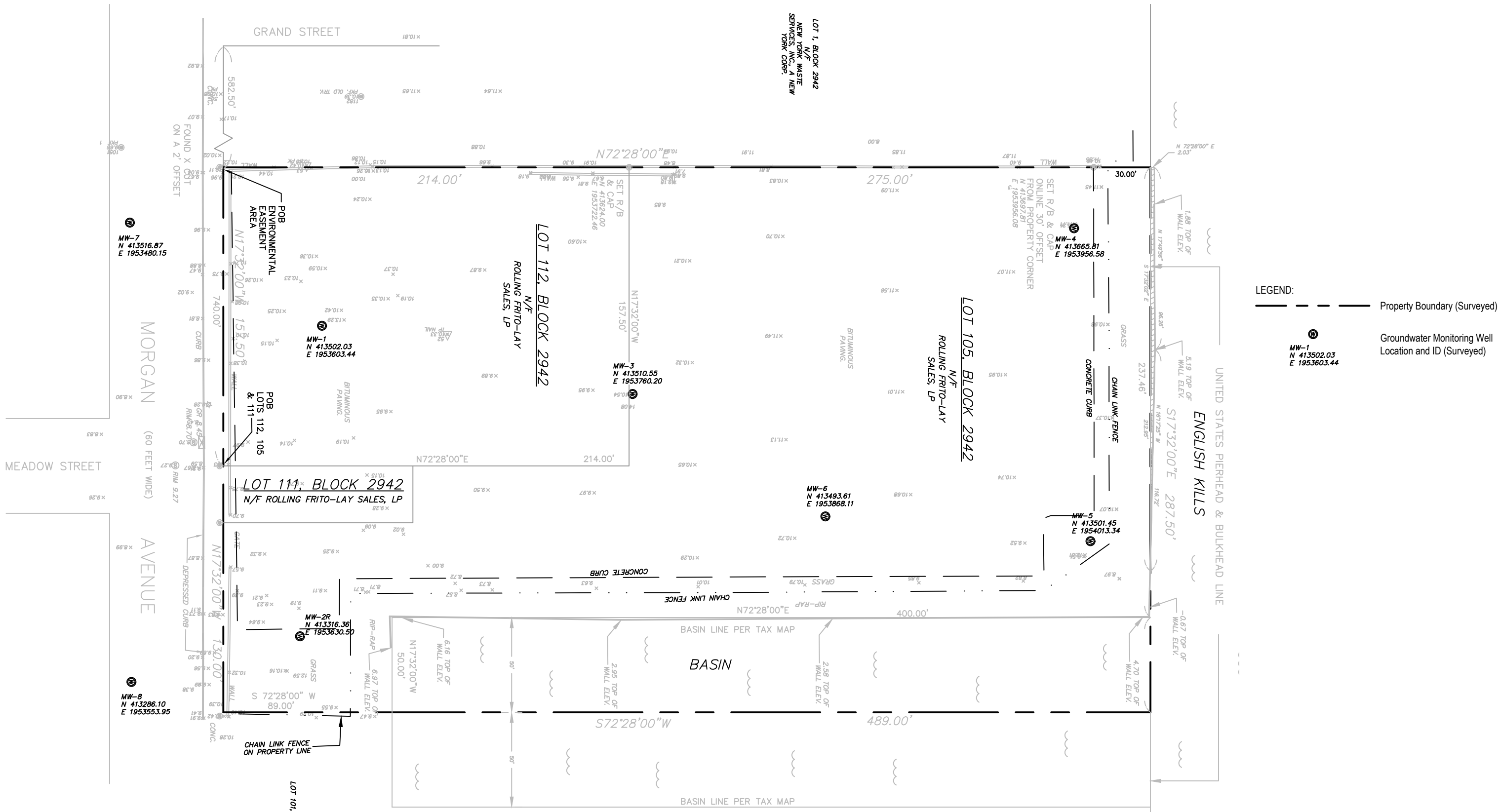
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 Periodic Review Report - Nov. 6, 2013 to Nov. 22,
 2014 - 202-218 Morgan Avenue BCP Site (#C224133)

Job Number 86-16480
 Revision A
 Date 10.21.2014

Site Location Map

Figure 1

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5801 E cazmail@ghd.com W www.ghd.com



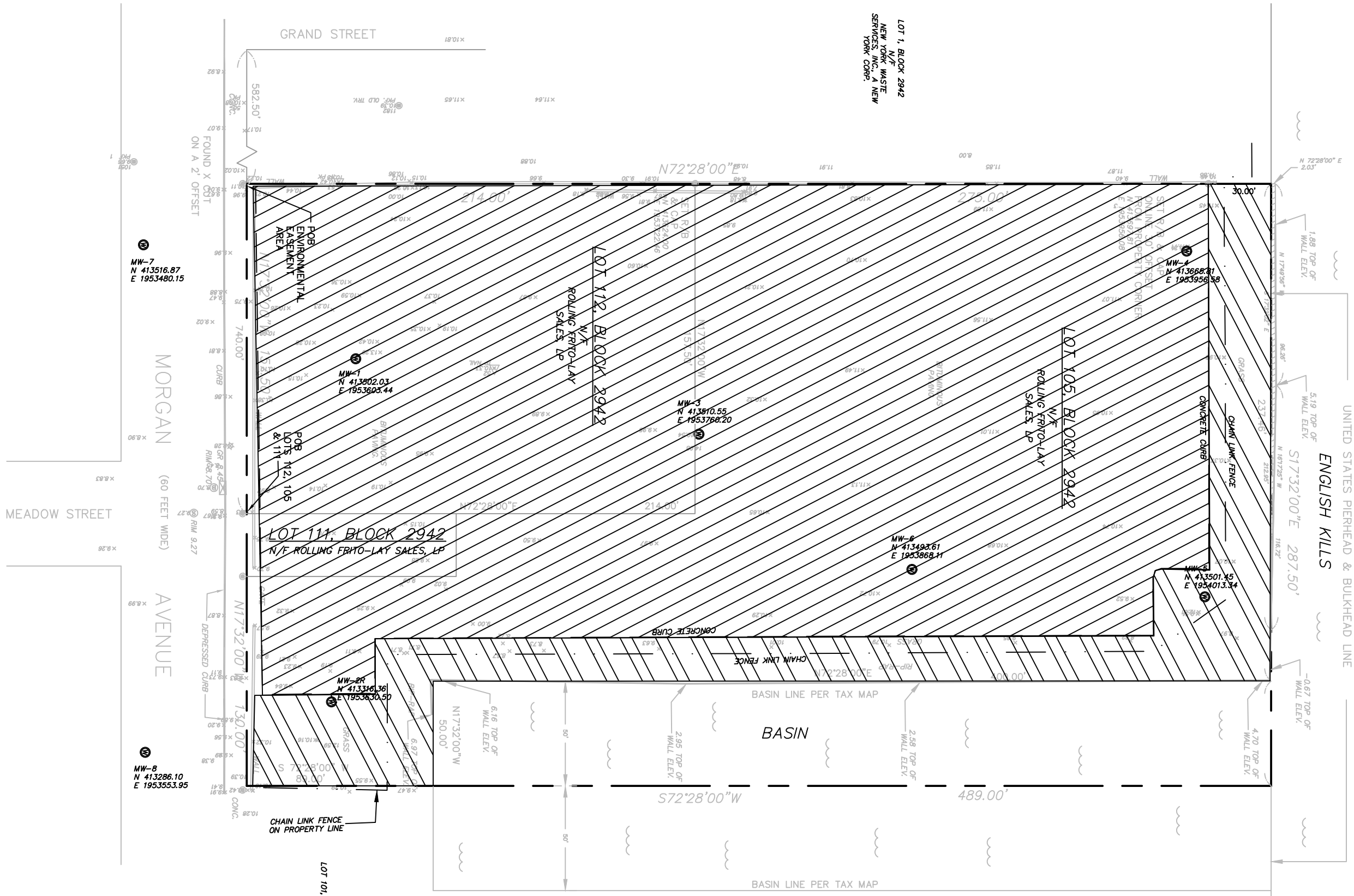
NOTES:
1. Base map based on information from field surveys conducted by Pennoni Associates Inc. and PS&S that was provided by others.



Rolling Frito-Lay Sales, LP
Periodic Review Report - Nov. 6, 2013 to Nov. 22, 2014 - 202-218 Morgan Avenue BCP Site (#C224133)
Site Layout

Job Number 86-16480
Revision A
Date 11.12.2014

Figure 2



- LEGEND:
- Property Boundary (Surveyed)
 - Groundwater Monitoring Well Location and ID (Surveyed)
 - Location of Asphalt Pavement Engineering Control
 - Location of Soil Cover Engineering Control



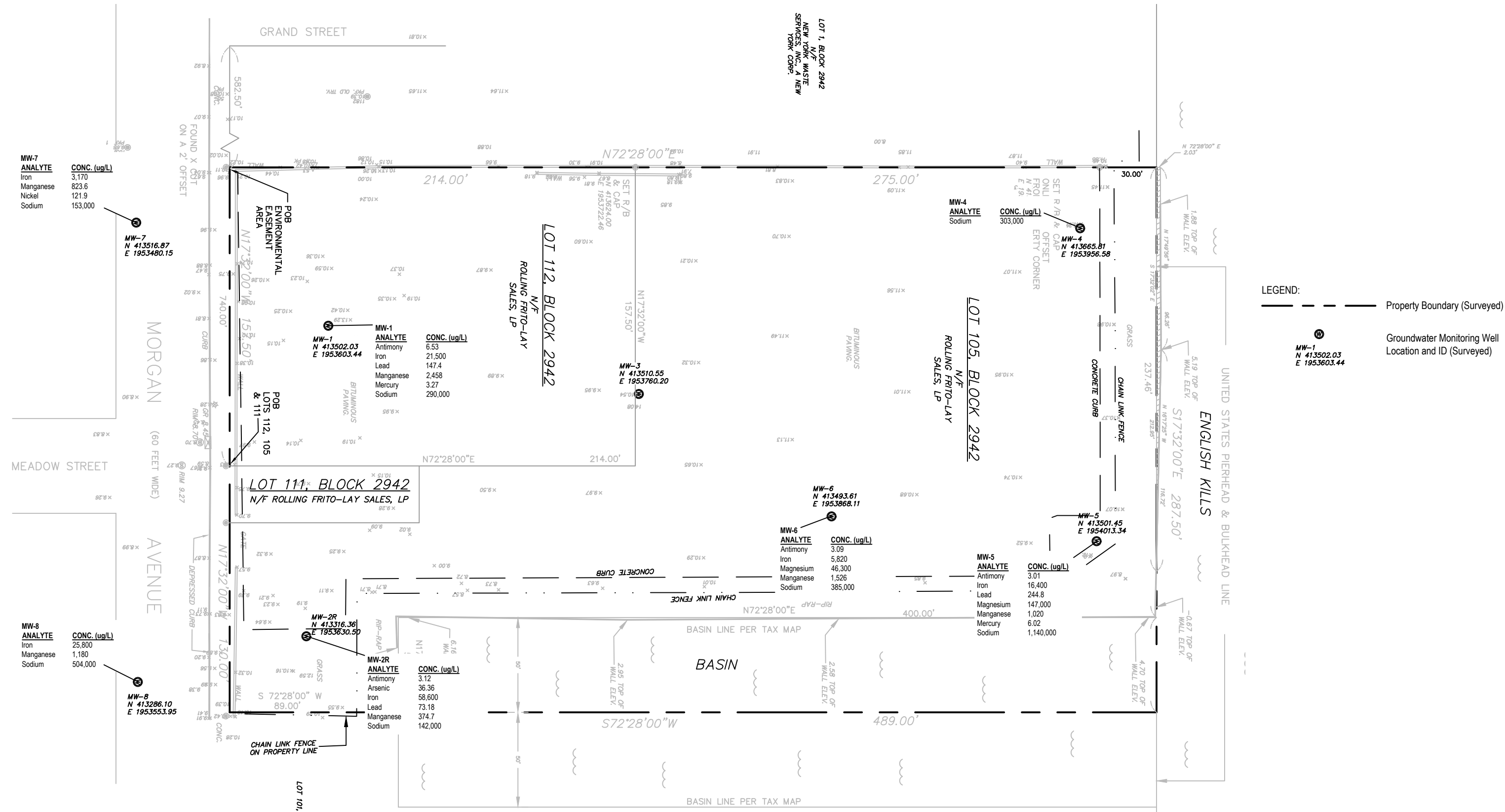
NOTES:
1. Base map based on information from field surveys conducted by Pennoni Associates Inc. and PS&S that was provided by others.

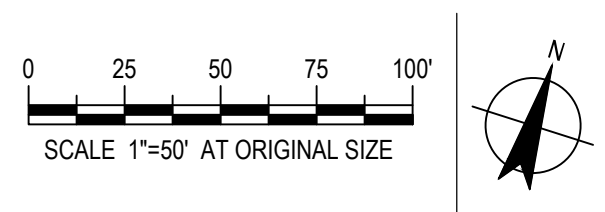
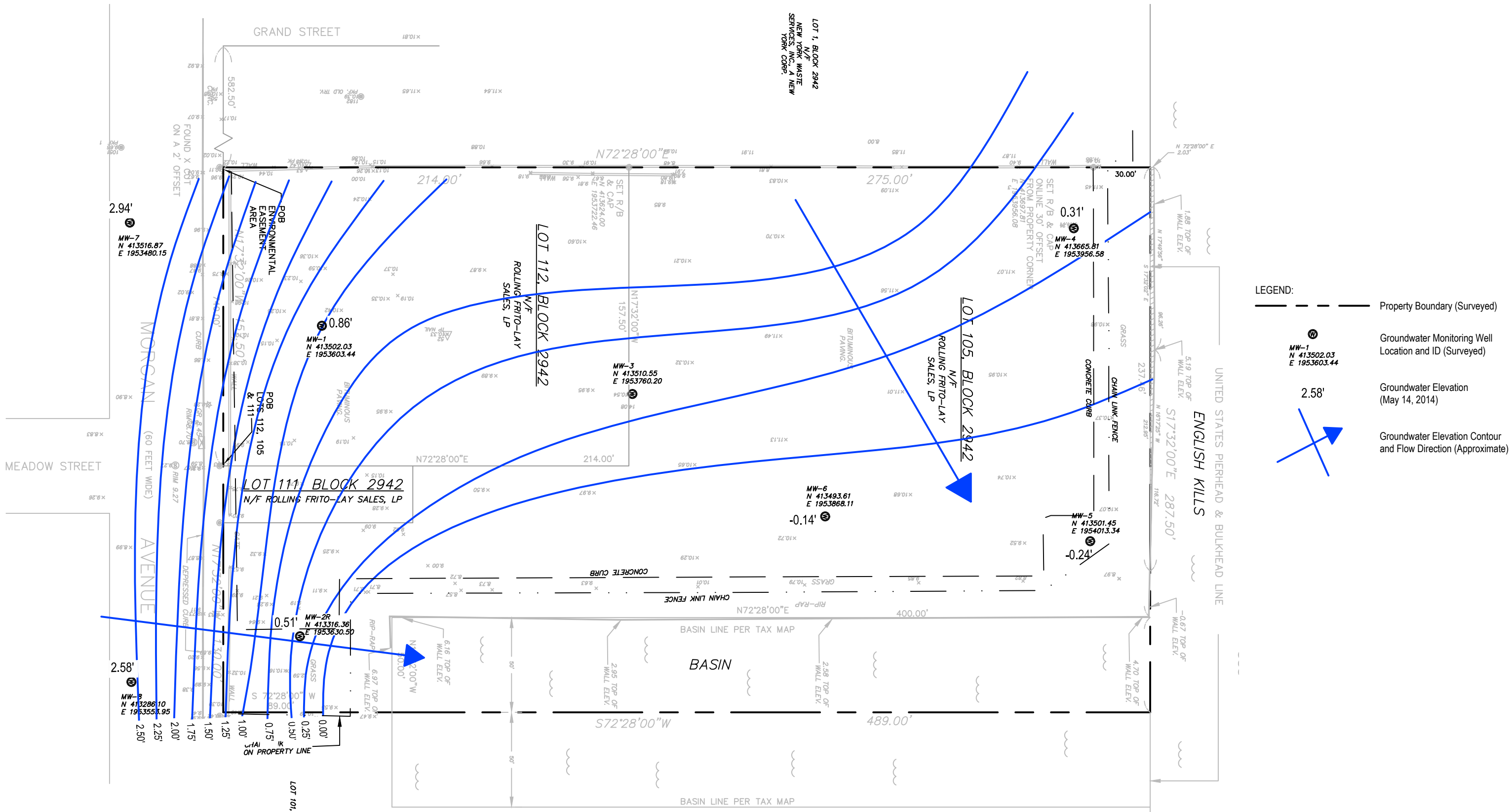


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Periodic Review Report - Nov. 6, 2013 to Nov. 22, 2014 - 202-218 Morgan Avenue BCP Site (#C224133)
Engineering Controls

Job Number 86-16480
Revision A
Date 11.12.2014

Figure 3





NOTES:
1. Base map based on information from field surveys conducted by Pennoni Associates Inc. and PS&S that was provided by others.



Rolling Frito-Lay Sales, LP
Periodic Review Report - Nov. 6, 2013 to Nov. 22, 2014 - 202-218 Morgan Avenue BCP Site (#C224133)
Groundwater Elevation and Presumed Flow Direction

Job Number 86-16480
Revision A
Date 11.12.2014

Figure 7

Tables



Table 1: (Page 1 of 1) Groundwater Elevation Data. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133.

Monitoring Well I.D.	Date	Reference Point	Reference Elevation (feet)	DTW (feet)	DOW (feet)	Water Elevation (feet)	Well Volume (gal)
MW-1	2009	Top of PVC	9.93	-	-	1.74	-
	2011			-	-	1.54	-
	5/14/2014			9.07	16.33	0.86	1.16
MW-2R	2009	Top of PVC	10.26	-	-	2.71	-
	2011			-	-	0.40	-
	5/14/2014			9.75	17.92	0.51	1.31
MW-4	2009	Top of PVC	10.22	-	-	2.04	-
	2011			-	-	0.54	-
	5/14/2014			9.91	16.48	0.31	1.05
MW-5	2009	Top of PVC	10.77	-	-	1.76	-
	2011			-	-	-0.80	-
	5/14/2014			11.01	18.69	-0.24	1.23
MW-6	2009	Top of PVC	10.22	-	-	1.11	-
	2011			-	-	0.80	-
	5/14/2014			10.36	17.05	-0.14	1.07
MW-7	2009	Top of PVC	11.11	-	-	2.92	-
	2011			-	-	1.48	-
	5/14/2014			8.17	15.42	2.94	1.16
MW-8	2009	Top of PVC	11.43	-	-	2.50	-
	2011			-	-	2.32	-
	5/14/2014			8.85	14.45	2.58	0.90

DTW - depth to water

DOW - depth of well

DTW and DOW measurements taken prior to purging using a electronic water level meter

2009 and 2011 groundwater elevation information taken from the Site Management Plan prepared by Gannett Fleming (September 2013)

Reference elevations taken from as-built plan prepared by PS&S (August 21, 2013)



Table 2: (Page 1 of 1) Groundwater Field Parameter Data. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133.

Well I.D.	Date	Time	Temp (°C)	Conductivity (mS/cm)	Salinity (%)	Dissolved Oxygen (%)	pH (units)	ORP (mV)	Turbidity (NTU)	Amount Purged (gal)	Comments
MW-1	5/14/2014	16:20	16.23	2.187	1.12	1.07	6.90	-111.3	15.1	3.50	Purged 3.50 gallons, water tinted black, petroleum like sheen, sulfur odor
		16:24	15.00	2.554	1.33	0.21	6.80	-108.8	528.5		
		16:28	14.54	2.683	1.40	0.12	6.77	-111.8	392.3		
		16:32	14.51	2.722	1.42	0.10	6.76	-116.5	243.5		
		16:36	14.48	2.724	1.42	0.08	6.77	-120.7	127.1		
		16:40	14.43	2.734	1.43	0.05	6.78	-126.4	189.5		
		16:44	14.43	2.731	1.42	0.04	6.78	-125.8	94.1		
MW-2R	5/14/2014	13:25	17.15	1.762	0.88	1.26	7.53	-134.3	892.4	5.00	Purged 5.00 gallons, water clear, slight petroleum like sheen, slight sulfur odor
		13:29	15.09	1.534	0.78	0.20	7.00	-123.7	703.5		
		13:33	14.59	1.532	0.78	0.11	6.94	-118.2	604.9		
		13:37	14.56	1.543	0.78	0.30	6.98	-113.1	138.8		
		13:41	14.61	1.553	0.79	0.12	6.97	-114.5	160.1		
		13:45	14.53	1.569	0.80	0.07	6.99	-119.6	136.6		
		13:49	14.49	1.583	0.80	0.04	6.99	-121.0	38.3		
		13:53	14.40	1.607	0.82	0.03	6.99	-121.4	15.1		
MW-4	5/14/2014	13:57	14.38	1.609	0.82	0.03	7.00	-121.3	8.4	3.50	Purged 3.50 gallons, water clear, no sheen, no odor
		10:24	14.38	3.230	1.70	10.72	9.21	2.7	2.5		
		10:28	13.67	3.174	1.67	0.06	10.31	-235.9	127.8		
		10:32	13.66	3.192	1.68	0.01	10.74	-247.4	29.1		
		10:36	13.62	3.164	1.66	-0.04	11.19	-262.1	8.3		
		10:40	13.67	3.126	1.64	-0.05	11.29	-263.7	4.7		
		10:44	13.67	3.080	1.62	-0.06	11.34	-269.2	3.3		
MW-5	5/14/2014	10:48	13.69	3.013	1.58	-0.06	11.33	-271.8	1.9	4.00	Purged 4.00 gallons, water clear, no sheen, no odor
		11:20	15.76	8.314	4.66	1.48	8.47	-112.4	191.4		
		11:24	13.73	8.224	4.60	0.29	7.26	-132.2	56.3		
		11:28	13.55	8.207	4.58	0.16	7.10	-155.3	14.6		
		11:32	13.27	8.271	4.62	0.08	7.05	-159.1	8.6		
		11:36	13.38	8.280	4.63	0.04	7.03	-158.2	4.3		
		11:40	13.07	8.328	4.66	0.01	7.02	-157.7	2.6		
MW-6	5/14/2014	11:44	13.09	8.331	4.66	0.00	7.02	-156.4	1.7	3.50	Purged 3.50 gallons, water clear, no sheen, sulfur odor
		11:48	13.08	8.336	4.66	0.00	7.01	-155.0	1.0		
		12:28	17.08	4.457	2.38	0.93	7.56	-236.4	165.7		
		12:32	15.81	4.174	2.23	0.14	7.29	-297.1	10.3		
		12:36	15.73	3.954	2.10	0.07	7.30	-296.6	2.9		
		12:40	15.57	3.861	2.05	0.04	7.33	-298.4	1.4		
		12:44	15.56	3.798	2.02	0.03	7.34	-298.4	0.6		
MW-7	5/14/2014	12:48	15.45	3.751	1.99	0.01	7.33	-294.5	0.1	3.50	Purged 3.50 gallons, water cloudy, rusty orange color, no sheen, no odor
		12:52	15.50	3.734	1.98	0.01	7.31	-296.0	1.1		
		14:38	14.73	1.390	0.70	0.85	7.54	-116.7	885.7		
		14:42	14.68	1.312	0.66	0.27	7.22	-109.0	513.7		
		14:46	13.91	1.331	0.67	0.13	7.19	-107.8	447.2		
		14:50	13.88	1.362	0.69	0.12	7.20	-109.1	879.7		
		14:54	13.73	1.407	0.71	0.07	7.22	-112.8	313.0		
MW-8	5/14/2014	14:58	13.74	1.442	0.73	0.05	7.24	-116.4	240.5	2.75	Purged 2.75 gallons, water cloudy, rusty orange color, no sheen, no odor
		15:02	13.71	1.480	0.75	0.04	7.26	-119.3	226.4		
		15:29	13.85	3.506	1.85	1.01	6.83	-68.5	194.1		
		15:33	12.91	3.470	1.83	0.30	6.68	-63.6	160.3		
		15:37	12.88	3.397	1.79	0.24	6.65	-63.7	132.0		
		15:41	12.64	3.427	1.81	0.20	6.64	-67.9	103.8		
		15:45	12.55	3.515	1.86	0.11	6.66	-82.8	315.6		
		15:49	12.51	3.534	1.87	0.04	6.68	-92.1	287.0		

Field parameters collected during purging using a YSI 6920 with flow thru cell and GeoPump2 peristaltic pump



Table 3: (Page 1 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY. BCP Site #C224133

Analyte	GW Std ^a (ug/L)	Sample Identification			
		MW-1			
Date Sampled		June-13	5/14/2014		
VOCs by EPA Method 8260B					
		R.L.		R.L.	
Methylene chloride	5	U	1	U	2.5
1,1-Dichloroethane	5	U	1	U	2.5
Chloroform	7	U	1	U	2.5
Carbon tetrachloride	5	U	1	U	0.5
1,2-Dichloropropane	1	U	1	U	1
Dibromochloromethane	50 (G)	U	1	U	0.5
1,1,2-Trichloroethane	1	U	1	U	1.5
Tetrachloroethene	5	U	1	U	0.5
Chlorobenzene	5	1	0.72	J	
Trichlorofluoromethane	5	UJ	1	U	2.5
1,2-Dichloroethane	0.6	U	0.5	U	0.5
1,1,1-Trichloroethane	5	U	1	U	2.5
Bromodichloromethane	50 (G)	U	1	U	0.5
trans-1,3-Dichloropropene	0.4	U	1	U	0.5
cis-1,3-Dichloropropene	0.4	U	1	U	0.5
Bromoform	50 (G)	UJ	1	U	2
1,1,2,2-Tetrachloroethane	5	U	1	U	0.5
Benzene	1	U	0.5	U	0.5
Toluene	5	U	1	U	2.5
Ethylbenzene	5	U	1	U	2.5
Chloromethane	-	U	1	U	2.5
Bromomethane	5	U	1	U	2.5
Vinyl chloride	2	3.4	5.8		
Chloroethane	5	U	1	U	2.5
1,1-Dichloroethene	5	U	1	U	0.5
trans-1,2-Dichloroethene	5	U	1	U	2.5
Trichloroethene	5	UJ	1	0.17	J
1,2-Dichlorobenzene	3	UJ	1	U	2.5
1,3-Dichlorobenzene	3	U	1	U	2.5
1,4-Dichlorobenzene	3	UJ	1	U	2.5
Methyl tert butyl ether	10 (G)	1.5	4.6		
p/m-Xylene	5	-		U	2.5
o-Xylene	5	-		U	2.5
cis-1,2-Dichloroethene	5	U	1	2.1	J
Styrene	5	U	1	U	2.5
Dichlorodifluoromethane	5	U	1	U	5
Acetone	50 (G)	U	10	2.7	J
Carbon disulfide	60 (G)	U	1	U	5
2-Butanone	50 (G)	U	1	U	5
4-Methyl-2-pentanone	-	U	1	U	5
2-Hexanone	50 (G)	U	1	U	5
Bromochloromethane	5	-		U	2.5
1,2-Dibromoethane	5	U	1	U	2
1,2-Dibromo-3-chloropropane	0.04	UJ	1	U	2.5
Isopropylbenzene	5	UJ	1	U	2.5
1,2,3-Trichlorobenzene	5	-		U	2.5
1,2,4-Trichlorobenzene	5	UJ	1	U	2.5
Methyl Acetate	-	-		U	2
Cyclohexane	-	U	1	U	10
1,4-Dioxane	-	-		U	250
Freon-113	5	U	1	U	2.5
Methyl cyclohexane	-	U	1	U	10
Total Xylenes	5	UJ	1	-	
Total VOCs		5.9	16.09		

All values reported as ug/L (parts per billion)

^a - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

(G) - Guidance value

Baseline data was collected on 6/11/2013 and 6/12/2013 by others, following completion of remedial activities

U - Analyzed for but Not Detected

J - Indicates an estimated value

(-) - No standard established or no sample analyzed for specific analyte

NS - Not sampled

R.L. - Laboratory Reporting Limit

Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 2 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std ^a (ug/L)	Sample Identification	
		June-13	5/14/2014
Date Sampled			
VOCs by EPA Method 8260B		R.L.	R.L.
Methylene chloride	5	U 1	U 2.5
1,1-Dichloroethane	5	U 1	U 2.5
Chloroform	7	U 1	U 2.5
Carbon tetrachloride	5	U 1	U 0.5
1,2-Dichloropropane	1	U 1	U 1
Dibromochloromethane	50 (G)	U 1	U 0.5
1,1,2-Trichloroethane	1	U 1	U 1.5
Tetrachloroethene	5	U 1	U 0.5
Chlorobenzene	5	1	U 2.5
Trichlorofluoromethane	5	UJ 1	U 2.5
1,2-Dichloroethane	0.6	U 0.5	U 0.5
1,1,1-Trichloroethane	5	U 1	U 2.5
Bromodichloromethane	50 (G)	U 1	U 0.5
trans-1,3-Dichloropropene	0.4	U 1	U 0.5
cis-1,3-Dichloropropene	0.4	U 1	U 0.5
Bromoform	50 (G)	UJ 1	U 2
1,1,2,2-Tetrachloroethane	5	U 1	U 0.5
Benzene	1	U 0.5	U 0.5
Toluene	5	U 1	U 2.5
Ethylbenzene	5	U 1	U 2.5
Chloromethane	-	U 1	U 2.5
Bromomethane	5	U 1	U 2.5
Vinyl chloride	2	4.7	U 1
Chloroethane	5	U 1	U 2.5
1,1-Dichloroethene	5	U 1	U 0.5
trans-1,2-Dichloroethene	5	U 1	U 2.5
Trichloroethene	5	UJ 1	U 0.5
1,2-Dichlorobenzene	3	UJ 1	U 2.5
1,3-Dichlorobenzene	3	U 1	U 2.5
1,4-Dichlorobenzene	3	UJ 1	U 2.5
Methyl tert butyl ether	10 (G)	1.6	1.6 J
p/m-Xylene	5	-	U 2.5
o-Xylene	5	-	U 2.5
cis-1,2-Dichloroethene	5	U 1	U 2.5
Styrene	5	U 1	U 2.5
Dichlorodifluoromethane	5	U 1	U 5
Acetone	50 (G)	U 10	2.3 J
Carbon disulfide	60 (G)	U 1	U 5
2-Butanone	50 (G)	U 1	U 5
4-Methyl-2-pentanone	-	U 1	U 5
2-Hexanone	50 (G)	U 1	U 5
Bromochloromethane	5	-	U 2.5
1,2-Dibromoethane	5	U 1	U 2
1,2-Dibromo-3-chloropropane	0.04	UJ 1	U 2.5
Isopropylbenzene	5	UJ 1	U 2.5
1,2,3-Trichlorobenzene	5	-	U 2.5
1,2,4-Trichlorobenzene	5	UJ 1	U 2.5
Methyl Acetate	-	-	U 2
Cyclohexane	-	U 1	U 10
1,4-Dioxane	-	-	U 250
Freon-113	5	U 1	U 2.5
Methyl cyclohexane	-	U 1	U 10
Total Xylenes	5	UJ 1	-
Total VOCs		7.3	3.9

All values reported as ug/L (parts per billion)

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(G) - Guidance value

Baseline data was collected on 6/11/2013 and 6/12/2013 by others, following completion of remedial activities

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Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 3 of 24) Summary of Groundwater Sample Laboratory Analytical Results, 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std ^A (ug/L)	Sample Identification	
		June-13	5/14/2014
Date Sampled			
VOCs by EPA Method 8260B		R.L.	R.L.
Methylene chloride	5	U 1	U 2.5
1,1-Dichloroethane	5	U 1	U 2.5
Chloroform	7	U 1	U 2.5
Carbon tetrachloride	5	U 1	U 0.5
1,2-Dichloropropane	1	U 1	U 1
Dibromochloromethane	50 (G)	U 1	U 0.5
1,1,2-Trichloroethane	1	U 1	U 1.5
Tetrachloroethene	5	U 1	U 0.5
Chlorobenzene	5	U 1	U 2.5
Trichlorofluoromethane	5	UJ 1	U 2.5
1,2-Dichloroethane	0.6	U 0.5	U 0.5
1,1,1-Trichloroethane	5	U 1	U 2.5
Bromodichloromethane	50 (G)	U 1	U 0.5
trans-1,3-Dichloropropene	0.4	U 1	U 0.5
cis-1,3-Dichloropropene	0.4	U 1	U 0.5
Bromoform	50 (G)	UJ 1	U 2
1,1,2,2-Tetrachloroethane	5	U 1	U 0.5
Benzene	1	U 0.5	U 0.5
Toluene	5	U 1	U 2.5
Ethylbenzene	5	U 1	U 2.5
Chloromethane	-	U 1	U 2.5
Bromomethane	5	UJ 1	U 2.5
Vinyl chloride	2	U 1	U 1
Chloroethane	5	U 1	U 2.5
1,1-Dichloroethene	5	U 1	U 0.5
trans-1,2-Dichloroethene	5	U 1	U 2.5
Trichloroethene	5	U 1	U 0.5
1,2-Dichlorobenzene	3	U 1	U 2.5
1,3-Dichlorobenzene	3	U 1	U 2.5
1,4-Dichlorobenzene	3	U 1	U 2.5
Methyl tert butyl ether	10 (G)	34	13
p/m-Xylene	5	-	U 2.5
o-Xylene	5	-	U 2.5
cis-1,2-Dichloroethene	5	U 1	U 2.5
Styrene	5	U 1	U 2.5
Dichlorodifluoromethane	5	UJ 1	U 5
Acetone	50 (G)	43	5
Carbon disulfide	60 (G)	U 1	U 5
2-Butanone	50 (G)	U 1	U 5
4-Methyl-2-pentanone	-	U 1	U 5
2-Hexanone	50 (G)	U 1	U 5
Bromochloromethane	5	-	U 2.5
1,2-Dibromoethane	5	U 1	U 2
1,2-Dibromo-3-chloropropane	0.04	UJ 1	U 2.5
Isopropylbenzene	5	U 1	U 2.5
1,2,3-Trichlorobenzene	5	-	U 2.5
1,2,4-Trichlorobenzene	5	UJ 1	U 2.5
Methyl Acetate	-	-	U 2
Cyclohexane	-	U 1	U 10
1,4-Dioxane	-	-	U 250
Freon-113	5	U 1	U 2.5
Methyl cyclohexane	-	U 1	U 10
Total Xylenes	5	U 1	-
Total VOCs		77	18

All values reported as ug/L (parts per billion)

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(G) - Guidance value

Baseline data was collected on 6/11/2013 and 6/12/2013 by others, following completion of remedial activities

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NS - Not sampled

R.L. - Laboratory Reporting Limit

Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 4 of 24) Summary of Groundwater Sample Laboratory Analytical Results, 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std ^A (ug/L)	Sample Identification	
		June-13	5/14/2014
Date Sampled			
VOCs by EPA Method 8260B		R.L.	R.L.
Methylene chloride	5	U 1	U 2.5
1,1-Dichloroethane	5	U 1	U 2.5
Chloroform	7	U 1	U 2.5
Carbon tetrachloride	5	U 1	U 0.5
1,2-Dichloropropane	1	U 1	U 1
Dibromochloromethane	50 (G)	U 1	U 0.5
1,1,2-Trichloroethane	1	U 1	U 1.5
Tetrachloroethene	5	U 1	U 0.5
Chlorobenzene	5	U 1	U 2.5
Trichlorofluoromethane	5	UJ 1	U 2.5
1,2-Dichloroethane	0.6	U 0.5	U 0.5
1,1,1-Trichloroethane	5	U 1	U 2.5
Bromodichloromethane	50 (G)	U 1	U 0.5
trans-1,3-Dichloropropene	0.4	U 1	U 0.5
cis-1,3-Dichloropropene	0.4	U 1	U 0.5
Bromoform	50 (G)	UJ 1	U 2
1,1,2,2-Tetrachloroethane	5	U 1	U 0.5
Benzene	1	U 0.5	U 0.5
Toluene	5	U 1	U 2.5
Ethylbenzene	5	U 1	U 2.5
Chloromethane	-	U 1	U 2.5
Bromomethane	5	UJ 1	U 2.5
Vinyl chloride	2	U 1	U 1
Chloroethane	5	U 1	U 2.5
1,1-Dichloroethene	5	U 1	U 0.5
trans-1,2-Dichloroethene	5	U 1	U 2.5
Trichloroethene	5	U 1	U 0.5
1,2-Dichlorobenzene	3	U 1	U 2.5
1,3-Dichlorobenzene	3	U 1	U 2.5
1,4-Dichlorobenzene	3	U 1	U 2.5
Methyl tert butyl ether	10 (G)	16	9.3
p/m-Xylene	5	-	U 2.5
o-Xylene	5	-	U 2.5
cis-1,2-Dichloroethene	5	U 1	U 2.5
Styrene	5	U 1	U 2.5
Dichlorodifluoromethane	5	UJ 1	U 5
Acetone	50 (G)	U 10	J 2.2
Carbon disulfide	60 (G)	U 1	U 5
2-Butanone	50 (G)	U 1	U 5
4-Methyl-2-pentanone	-	U 1	U 5
2-Hexanone	50 (G)	U 1	U 5
Bromochloromethane	5	-	U 2.5
1,2-Dibromoethane	5	U 1	U 2
1,2-Dibromo-3-chloropropane	0.04	UJ 1	U 2.5
Isopropylbenzene	5	U 1	U 2.5
1,2,3-Trichlorobenzene	5	-	U 2.5
1,2,4-Trichlorobenzene	5	UJ 1	U 2.5
Methyl Acetate	-	-	U 2
Cyclohexane	-	U 1	U 10
1,4-Dioxane	-	-	U 250
Freon-113	5	U 1	U 2.5
Methyl cyclohexane	-	U 1	U 10
Total Xylenes	5	U 1	-
Total VOCs		16	11.5

All values reported as ug/L (parts per billion)

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Baseline data was collected on 6/11/2013 and 6/12/2013 by others, following completion of remedial activities

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Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 5 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std ^A (ug/L)	Sample Identification	
		June-13	5/14/2014
Date Sampled			
VOCs by EPA Method 8260B		R.L.	R.L.
Methylene chloride	5	U 1	U 2.5
1,1-Dichloroethane	5	U 1	U 2.5
Chloroform	7	U 1	U 2.5
Carbon tetrachloride	5	U 1	U 0.5
1,2-Dichloropropane	1	U 1	U 1
Dibromochloromethane	50 (G)	U 1	U 0.5
1,1,2-Trichloroethane	1	U 1	U 1.5
Tetrachloroethene	5	U 1	U 0.5
Chlorobenzene	5	U 1	U 2.5
Trichlorofluoromethane	5	UJ 1	U 2.5
1,2-Dichloroethane	0.6	U 0.5	U 0.5
1,1,1-Trichloroethane	5	U 1	U 2.5
Bromodichloromethane	50 (G)	U 1	U 0.5
trans-1,3-Dichloropropene	0.4	U 1	U 0.5
cis-1,3-Dichloropropene	0.4	U 1	U 0.5
Bromoform	50 (G)	UJ 1	U 2
1,1,2,2-Tetrachloroethane	5	U 1	U 0.5
Benzene	1	1.1	U 0.5
Toluene	5	4.4	U 2.5
Ethylbenzene	5	1.3	U 2.5
Chloromethane	-	U 1	U 2.5
Bromomethane	5	UJ 1	U 2.5
Vinyl chloride	2	U 1	U 1
Chloroethane	5	U 1	U 2.5
1,1-Dichloroethene	5	U 1	U 0.5
trans-1,2-Dichloroethene	5	U 1	U 2.5
Trichloroethene	5	U 1	U 0.5
1,2-Dichlorobenzene	3	U 1	U 2.5
1,3-Dichlorobenzene	3	U 1	U 2.5
1,4-Dichlorobenzene	3	U 1	U 2.5
Methyl tert butyl ether	10 (G)	16	14
p/m-Xylene	5	-	U 2.5
o-Xylene	5	-	U 2.5
cis-1,2-Dichloroethene	5	U 1	U 2.5
Styrene	5	U 1	U 2.5
Dichlorodifluoromethane	5	UJ 1	U 5
Acetone	50 (G)	12	3.7 J
Carbon disulfide	60 (G)	U 1	U 5
2-Butanone	50 (G)	U 1	U 5
4-Methyl-2-pentanone	-	U 1	U 5
2-Hexanone	50 (G)	U 1	U 5
Bromochloromethane	5	-	U 2.5
1,2-Dibromoethane	5	U 1	U 2
1,2-Dibromo-3-chloropropane	0.04	UJ 1	U 2.5
Isopropylbenzene	5	U 1	U 2.5
1,2,3-Trichlorobenzene	5	-	U 2.5
1,2,4-Trichlorobenzene	5	UJ 1	U 2.5
Methyl Acetate	-	-	U 2
Cyclohexane	-	U 1	U 10
1,4-Dioxane	-	-	U 250
Freon-113	5	U 1	U 2.5
Methyl cyclohexane	-	U 1	U 10
Total Xylenes	5	5.2	-
Total VOCs		34.8	17.7

All values reported as ug/L (parts per billion)

^A - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

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Baseline data was collected on 6/11/2013 and 6/12/2013 by others, following completion of remedial activities

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Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 6 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std ^A (ug/L)	Sample Identification			
		June-13		5/14/2014	
Date Sampled					MW-7
VOCs by EPA Method 8260B			R.L.		R.L.
Methylene chloride	5	U	1	U	2.5
1,1-Dichloroethane	5	U	1	0.75	J
Chloroform	7	U	1	U	2.5
Carbon tetrachloride	5	U	1	U	0.5
1,2-Dichloropropane	1	U	1	U	1
Dibromochloromethane	50 (G)	U	1	U	0.5
1,1,2-Trichloroethane	1	U	1	U	1.5
Tetrachloroethene	5	U	1	2.2	
Chlorobenzene	5	1		U	2.5
Trichlorofluoromethane	5	UJ	1	U	2.5
1,2-Dichloroethane	0.6	U	0.5	U	0.5
1,1,1-Trichloroethane	5	U	1	U	2.5
Bromodichloromethane	50 (G)	U	1	U	0.5
trans-1,3-Dichloropropene	0.4	U	1	U	0.5
cis-1,3-Dichloropropene	0.4	U	1	U	0.5
Bromoform	50 (G)	UJ	1	U	2
1,1,2,2-Tetrachloroethane	5	U	1	U	0.5
Benzene	1	3.2		2.3	
Toluene	5	U	1	U	2.5
Ethylbenzene	5	U	1	U	2.5
Chloromethane	-	U	1	U	2.5
Bromomethane	5	U	1	U	2.5
Vinyl chloride	2	2.7		5.5	
Chloroethane	5	U	1	U	2.5
1,1-Dichloroethene	5	U	1	U	0.5
trans-1,2-Dichloroethene	5	U	1	U	2.5
Trichloroethene	5	1.4	J	9.1	
1,2-Dichlorobenzene	3	UJ	1	U	2.5
1,3-Dichlorobenzene	3	U	1	U	2.5
1,4-Dichlorobenzene	3	UJ	1	U	2.5
Methyl tert butyl ether	10 (G)	U	0.5	U	2.5
p/m-Xylene	5	-		U	2.5
o-Xylene	5	-		U	2.5
cis-1,2-Dichloroethene	5	1.2		16	
Styrene	5	U	1	U	2.5
Dichlorodifluoromethane	5	U	1	U	5
Acetone	50 (G)	U	10	1.6	J
Carbon disulfide	60 (G)	U	1	U	5
2-Butanone	50 (G)	U	1	U	5
4-Methyl-2-pentanone	-	U	1	U	5
2-Hexanone	50 (G)	U	1	U	5
Bromochloromethane	5	-		U	2.5
1,2-Dibromoethane	5	U	1	U	2
1,2-Dibromo-3-chloropropane	0.04	UJ	1	U	2.5
Isopropylbenzene	5	UJ	1	U	2.5
1,2,3-Trichlorobenzene	5	-		U	2.5
1,2,4-Trichlorobenzene	5	UJ	1	U	2.5
Methyl Acetate	-	-		U	2
Cyclohexane	-	U	1	U	10
1,4-Dioxane	-	-		U	250
Freon-113	5	U	1	U	2.5
Methyl cyclohexane	-	U	1	U	10
Total Xylenes	5	UJ	1	-	
Total VOCs		9.5		37.45	

All values reported as ug/L (parts per billion)

^A - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

(G) - Guidance value

Baseline data was collected on 6/11/2013 and 6/12/2013 by others, following completion of remedial activities

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R.L. - Laboratory Reporting Limit

Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 7 of 24) Summary of Groundwater Sample Laboratory Analytical Results, 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std ^a (ug/L)	Sample Identification	
		June-13	5/14/2014
Date Sampled			
VOCs by EPA Method 8260B		R.L.	R.L.
Methylene chloride	5	U 1	U 2.5
1,1-Dichloroethane	5	U 1	U 2.5
Chloroform	7	U 1	U 2.5
Carbon tetrachloride	5	U 1	U 0.5
1,2-Dichloropropane	1	U 1	U 1
Dibromochloromethane	50 (G)	U 1	U 0.5
1,1,2-Trichloroethane	1	U 1	U 1.5
Tetrachloroethene	5	U 1	U 0.5
Chlorobenzene	5	U 1	U 2.5
Trichlorofluoromethane	5	UJ 1	U 2.5
1,2-Dichloroethane	0.6	U 0.5	U 0.5
1,1,1-Trichloroethane	5	UJ 1	U 2.5
Bromodichloromethane	50 (G)	U 1	U 0.5
trans-1,3-Dichloropropene	0.4	U 1	U 0.5
cis-1,3-Dichloropropene	0.4	U 1	U 0.5
Bromoform	50 (G)	U 1	U 2
1,1,2,2-Tetrachloroethane	5	UJ 1	U 0.5
Benzene	1	U 0.5	U 0.5
Toluene	5	U 1	U 2.5
Ethylbenzene	5	U 1	U 2.5
Chloromethane	-	U 1	U 2.5
Bromomethane	5	U 1	U 2.5
Vinyl chloride	2	U 1	U 1
Chloroethane	5	U 1	U 2.5
1,1-Dichloroethene	5	U 1	U 0.5
trans-1,2-Dichloroethene	5	U 1	U 2.5
Trichloroethene	5	UJ 1	U 0.5
1,2-Dichlorobenzene	3	UJ 1	U 2.5
1,3-Dichlorobenzene	3	U 1	U 2.5
1,4-Dichlorobenzene	3	UJ 1	U 2.5
Methyl tert butyl ether	10 (G)	U 0.5	U 2.5
p/m-Xylene	5	-	U 2.5
o-Xylene	5	-	U 2.5
cis-1,2-Dichloroethene	5	U 1	U 2.5
Styrene	5	U 1	U 2.5
Dichlorodifluoromethane	5	U 1	U 5
Acetone	50 (G)	U 10	J 1.4
Carbon disulfide	60 (G)	U 1	U 5
2-Butanone	50 (G)	U 1	U 5
4-Methyl-2-pentanone	-	U 1	U 5
2-Hexanone	50 (G)	U 1	U 5
Bromochloromethane	5	-	U 2.5
1,2-Dibromoethane	5	U 1	U 2
1,2-Dibromo-3-chloropropane	0.04	UJ 1	U 2.5
Isopropylbenzene	5	U 1	U 2.5
1,2,3-Trichlorobenzene	5	-	U 2.5
1,2,4-Trichlorobenzene	5	UJ 1	U 2.5
Methyl Acetate	-	-	U 2
Cyclohexane	-	U 1	U 10
1,4-Dioxane	-	-	U 250
Freon-113	5	U 1	U 2.5
Methyl cyclohexane	-	U 1	U 10
Total Xylenes	5	U 1	-
Total VOCs		ND	1.4

All values reported as ug/L (parts per billion)

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R.L. - Laboratory Reporting Limit

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Table 3: (Page 8 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std ^A (ug/L)	Sample Identification			
		Duplicate			
Date Sampled		June-13 (MW-2R)	5/14/2014 (MW-5)		
VOCs by EPA Method 8260B		RPD	RPD		
Methylene chloride	5	U NA	U NA		
1,1-Dichloroethane	5	U NA	U NA		
Chloroform	7	U NA	U NA		
Carbon tetrachloride	5	U NA	U NA		
1,2-Dichloropropane	1	U NA	U NA		
Dibromochloromethane	50 (G)	U NA	U NA		
1,1,2-Trichloroethane	1	U NA	U NA		
Tetrachloroethene	5	U NA	U NA		
Chlorobenzene	5	U 0.00%	U NA		
Trichlorofluoromethane	5	UJ NA	U NA		
1,2-Dichloroethane	0.6	U NA	U NA		
1,1,1-Trichloroethane	5	UJ NA	U NA		
Bromodichloromethane	50 (G)	U NA	U NA		
trans-1,3-Dichloropropene	0.4	U NA	U NA		
cis-1,3-Dichloropropene	0.4	U NA	U NA		
Bromoform	50 (G)	U NA	U NA		
1,1,2,2-Tetrachloroethane	5	UJ NA	U NA		
Benzene	1	U NA	U NA		
Toluene	5	U NA	U NA		
Ethylbenzene	5	U NA	U NA		
Chloromethane	-	U NA	U NA		
Bromomethane	5	U NA	U NA		
Vinyl chloride	2	6.2	27.52%	U NA	
Chloroethane	5	U NA	U NA		
1,1-Dichloroethene	5	U NA	U NA		
trans-1,2-Dichloroethene	5	U NA	U NA		
Trichloroethene	5	UJ NA	U NA		
1,2-Dichlorobenzene	3	UJ NA	U NA		
1,3-Dichlorobenzene	3	U NA	U NA		
1,4-Dichlorobenzene	3	UJ NA	U NA		
Methyl tert butyl ether	10 (G)	U 104.76%	10 7.25%		
p/m-Xylene	5	-	U NA		
o-Xylene	5	-	U NA		
cis-1,2-Dichloroethene	5	U NA	U NA		
Styrene	5	U NA	U NA		
Dichlorodifluoromethane	5	U NA	U NA		
Acetone	50 (G)	U NA	2.7 J 20.41%		
Carbon disulfide	60 (G)	U NA	U NA		
2-Butanone	50 (G)	U NA	U NA		
4-Methyl-2-pentanone	-	U NA	U NA		
2-Hexanone	50 (G)	U NA	U NA		
Bromochloromethane	5	-	U NA		
1,2-Dibromoethane	5	U NA	U NA		
1,2-Dibromo-3-chloropropane	0.04	UJ NA	U NA		
Isopropylbenzene	5	U NA	U NA		
1,2,3-Trichlorobenzene	5	-	U NA		
1,2,4-Trichlorobenzene	5	UJ NA	U NA		
Methyl Acetate	-	-	U NA		
Cyclohexane	-	U NA	U NA		
1,4-Dioxane	-	-	U NA		
Freon-113	5	U NA	U NA		
Methyl cyclohexane	-	U NA	U NA		
Total Xylenes	5	U NA	-		
Total VOCs		6.2	12.7		

All values reported as ug/L (parts per billion)

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R.L. - Laboratory Reporting Limit

RPD - Relative Percent Difference between the duplicate and parent sample concentrations. When one sample is non-detect, the laboratory detection limit is used as the concentration for the calculation.

$$RPD = \frac{2(\text{Sample Value} - \text{Duplicate Sample Value})}{(\text{Sample Value} + \text{Duplicate Sample Value})}$$

Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 9 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std [^] (ug/L)	Sample Identification			
		MW-1			
Date Sampled		June-13	5/14/2014		
Total Metals by EPA Methods 6020A and 7470A					
Aluminum	-	220	R.L.	2,710	R.L.
Antimony	3	U	12	6.53	
Arsenic	25	U	8	4.26	
Barium	1,000	180		218.7	
Beryllium	3 (G)	U	4	0.17	J
Cadmium	5	U	4	0.83	
Calcium	-	210,000		166,000	
Chromium	50	U	50	35.47	
Cobalt	-	U	20	3.58	
Copper	200	U	50	66.06	
Iron	300	4,100		21,500	
Lead	25	6		147.4	
Magnesium	35,000 (G)	36,000		29,100	
Manganese	300	3,000		2,458	
Mercury	0.7	U	1	3.27	
Nickel	100	U	50	30.45	
Potassium	-	18,000		13,900	
Selenium	10	U	40	1.03	J
Silver	50	U	20	0.66	
Sodium	20,000	220,000	J	290,000	
Thallium	0.5 (G)	U	10	0.04	J
Vanadium	-	U	50	9.55	
Zinc	2,000 (G)	U	50	298.2	
Dissolved Metals by EPA Methods 6020A and 7470A					
Aluminum	-	U	180	9.6	J
Antimony	3	U	12	0.17	J
Arsenic	25	8.3		1.68	
Barium	1,000	140		175.8	
Beryllium	3 (G)	U	4		U 0.5
Cadmium	5	U	4		U 0.2
Calcium	-	180,000		193,000	
Chromium	50	U	50	3.34	
Cobalt	-	U	20	0.82	
Copper	200	U	50	0.64	J
Iron	300	760		7,470	
Lead	25	U	4		U 1
Magnesium	35,000 (G)	30,000		27,300	
Manganese	300	2,500		2,728	
Mercury	0.7	U	1		U 0.2
Nickel	100	U	50	7.43	
Potassium	-	15,000		14,200	
Selenium	10	U	40	1.29	J
Silver	50	U	20		U 0.4
Sodium	20,000	190,000	J	356,000	
Thallium	0.5 (G)	U	10		U 0.5
Vanadium	-	U	50	0.35	J
Zinc	2,000 (G)	U	50	2.48	J

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Table 3: (Page 10 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY. BCP Site #C224133

Analyte	GW Std [^] (ug/L)	Sample Identification			
		MW-2R			
Date Sampled		June-13		5/14/2014	
Total Metals by EPA Methods 6020A and 7470A					
Aluminum	-	4,200	J	404	R.L.
Antimony	3		U	12	3.12
Arsenic	25		U	8	36.36
Barium	1,000	200			192.8
Beryllium	3 (G)		U	4	0.1 J
Cadmium	5		U	4	0.19 J
Calcium	-	320,000			88,100
Chromium	50		U	50	10.5
Cobalt	-		U	20	1.18
Copper	200		U	50	20.21
Iron	300	13,000	J		58,600
Lead	25	120	J		73.18
Magnesium	35,000 (G)	140,000			33,900
Manganese	300	900			374.7
Mercury	0.7		U	1	0.38
Nickel	100		U	50	3.41
Potassium	-	55,000			14,400
Selenium	10		U	40	0.53 J
Silver	50		U	20	U 0.4
Sodium	20,000	770,000	J		142,000
Thallium	0.5 (G)		U	10	U 0.5
Vanadium	-		U	50	6.59
Zinc	2,000 (G)	120			68.19
Dissolved Metals by EPA Methods 6020A and 7470A					
Aluminum	-		U	180	-
Antimony	3		U	12	-
Arsenic	25		U	8	-
Barium	1,000	160			-
Beryllium	3 (G)		U	4	-
Cadmium	5		U	4	-
Calcium	-	320,000			-
Chromium	50		U	50	-
Cobalt	-		U	20	-
Copper	200		U	50	-
Iron	300	870			-
Lead	25		U	4	-
Magnesium	35,000 (G)	140,000			-
Manganese	300	830			-
Mercury	0.7		U	1	-
Nickel	100		U	50	-
Potassium	-	55,000			-
Selenium	10		U	40	-
Silver	50		U	20	-
Sodium	20,000	760,000	J		-
Thallium	0.5 (G)		U	10	-
Vanadium	-		U	50	-
Zinc	2,000 (G)		U	50	-

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Table 3: (Page 11 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY. BCP Site #C224133

Analyte	GW Std [^] (ug/L)	Sample Identification			
		MW-4			
Date Sampled		June-13		5/14/2014	
			R.L.		R.L.
Total Metals by EPA Methods 6020A and 7470A					
Aluminum	-	250		103	
Antimony	3	U	12	2.91	
Arsenic	25	U	8	9.74	
Barium	1,000	660		92.03	
Beryllium	3 (G)	U	4	U	0.5
Cadmium	5	U	4	0.05	J
Calcium	-	520,000	J	272,000	
Chromium	50	U	50	0.77	J
Cobalt	-	U	20	0.36	
Copper	200	U	50	1.12	J
Iron	300	650		186	
Lead	25	9		3.12	
Magnesium	35,000 (G)	8,400	J	6,600	
Manganese	300	100		5.31	
Mercury	0.7	U	1	U	0.2
Nickel	100	U	50	3.56	
Potassium	-	64,000		70,700	
Selenium	10	U	40	0.55	J
Silver	50	U	20	U	0.4
Sodium	20,000	250,000	J	303,000	
Thallium	0.5 (G)	U	10	U	0.5
Vanadium	-	U	50	0.92	J
Zinc	2,000 (G)	U	50	13.78	
Dissolved Metals by EPA Methods 6020A and 7470A					
Aluminum	-	U	180	-	
Antimony	3	U	12	-	
Arsenic	25	U	8	-	
Barium	1,000	620		-	
Beryllium	3 (G)	U	4	-	
Cadmium	5	U	4	-	
Calcium	-	440,000	J	-	
Chromium	50	U	50	-	
Cobalt	-	U	20	-	
Copper	200	U	50	-	
Iron	300	U	280	-	
Lead	25	U	4	-	
Magnesium	35,000 (G)	UJ	2,000	-	
Manganese	300	U	40	-	
Mercury	0.7	U	1	-	
Nickel	100	U	50	-	
Potassium	-	65,000		-	
Selenium	10	U	40	-	
Silver	50	U	20	-	
Sodium	20,000	250,000	J	-	
Thallium	0.5 (G)	U	10	-	
Vanadium	-	U	50	-	
Zinc	2,000 (G)	U	50	-	

All values reported as ug/L (parts per billion)

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Table 3: (Page 12 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std [^] (ug/L)	Sample Identification	
		MW-5	
Date Sampled		June-13	5/14/2014
Total Metals by EPA Methods 6020A and 7470A			
Aluminum	-	U 180	2,380 R.L.
Antimony	3	U 12	3.01
Arsenic	25	25	11.91
Barium	1,000	56	126.4
Beryllium	3 (G)	U 4	0.12 J
Cadmium	5	U 4	1.56
Calcium	-	210,000 J	243,000
Chromium	50	U 50	8.36
Cobalt	-	U 20	3.84
Copper	200	U 50	49.9
Iron	300	4,000	16,400
Lead	25	6	244.8
Magnesium	35,000 (G)	120,000 J	147,000
Manganese	300	950	1,020
Mercury	0.7	U 1	6.02
Nickel	100	U 50	26.93
Potassium	-	73,000	75,300
Selenium	10	U 40	0.77 J
Silver	50	U 20	0.17 J
Sodium	20,000	740,000 J	1,140,000
Thallium	0.5 (G)	U 10	0.06 J
Vanadium	-	U 50	12.03
Zinc	2,000 (G)	U 50	736.6
Dissolved Metals by EPA Methods 6020A and 7470A			
Aluminum	-	U 180	-
Antimony	3	U 12	-
Arsenic	25	10	-
Barium	1,000	54	-
Beryllium	3 (G)	U 4	-
Cadmium	5	U 4	-
Calcium	-	220,000 J	-
Chromium	50	U 50	-
Cobalt	-	U 20	-
Copper	200	U 50	-
Iron	300	370	-
Lead	25	4	-
Magnesium	35,000 (G)	120,000 J	-
Manganese	300	970	-
Mercury	0.7	U 1	-
Nickel	100	U 50	-
Potassium	-	77,000	-
Selenium	10	U 40	-
Silver	50	U 20	-
Sodium	20,000	760,000 J	-
Thallium	0.5 (G)	U 10	-
Vanadium	-	U 50	-
Zinc	2,000 (G)	U 50	-

All values reported as ug/L (parts per billion)

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Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 13 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std [^] (ug/L)	Sample Identification			
		MW-6			
Date Sampled		June-13	5/14/2014		
Total Metals by EPA Methods 6020A and 7470A					
Aluminum	-	U	180	137	R.L.
Antimony	3	U	12	3.09	
Arsenic	25	14		7.55	
Barium	1,000	140		104.8	
Beryllium	3 (G)	U	4	U	0.5
Cadmium	5	U	4	0.93	
Calcium	-	360,000	J	292,000	
Chromium	50	U	50	3.97	
Cobalt	-	U	20	4.53	
Copper	200	U	50	3.64	
Iron	300	650		5,820	
Lead	25	10		9.28	
Magnesium	35,000 (G)	47,000	J	46,300	
Manganese	300	640		1,526	
Mercury	0.7	U	1	U	0.2
Nickel	100	U	50	22.81	
Potassium	-	66,000		61,100	
Selenium	10	U	40	0.51	J
Silver	50	U	20	U	0.4
Sodium	20,000	410,000	J	385,000	
Thallium	0.5 (G)	U	10	U	0.5
Vanadium	-	U	50	2.66	J
Zinc	2,000 (G)	U	50	819.6	
Dissolved Metals by EPA Methods 6020A and 7470A					
Aluminum	-	U	180	-	
Antimony	3	U	12	-	
Arsenic	25	10		-	
Barium	1,000	130		-	
Beryllium	3 (G)	U	4	-	
Cadmium	5	U	4	-	
Calcium	-	340,000	J	-	
Chromium	50	U	50	-	
Cobalt	-	U	20	-	
Copper	200	U	50	-	
Iron	300	370		-	
Lead	25	5		-	
Magnesium	35,000 (G)	46,000	J	-	
Manganese	300	630		-	
Mercury	0.7	U	1	-	
Nickel	100	U	50	-	
Potassium	-	65,000		-	
Selenium	10	U	40	-	
Silver	50	U	20	-	
Sodium	20,000	400,000	J	-	
Thallium	0.5 (G)	U	10	-	
Vanadium	-	U	50	-	
Zinc	2,000 (G)	U	50	-	

All values reported as ug/L (parts per billion)

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Baseline data was collected on 6/12/2013 by others, following completion of remedial activities

U - Analyzed for but Not Detected

J - Indicates an estimated value

(-) - No standard established or no sample analyzed for specific analyte

R.L. - Laboratory Reporting Limit

Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 14 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std [^] (ug/L)	Sample Identification			
		MW-7			
Date Sampled		June-13	5/14/2014		
Total Metals by EPA Methods 6020A and 7470A					
Aluminum	-	U	R.L.	J	R.L.
Antimony	3	U	180	2.89	J
Arsenic	25	U	12	0.52	J
Barium	1,000	150	8	1.4	
Beryllium	3 (G)	U	4	85.68	U 0.5
Cadmium	5	U	4		U 0.2
Calcium	-	110,000		109,000	
Chromium	50	U	50	0.99	J
Cobalt	-	U	20	1.15	
Copper	200	U	50	1.13	J
Iron	300	6,400		3,170	
Lead	25	U	4		U 1
Magnesium	35,000 (G)	7,300		7,040	
Manganese	300	830		823.6	
Mercury	0.7	U	1		U 0.2
Nickel	100	100		121.9	
Potassium	-	13,000		9,020	
Selenium	10	U	40		U 5
Silver	50	U	20		U 0.4
Sodium	20,000	330,000 J		153,000	
Thallium	0.5 (G)	U	10		U 0.5
Vanadium	-	U	50		U 0.5
Zinc	2,000 (G)	U	50	9.03	J
Dissolved Metals by EPA Methods 6020A and 7470A					
Aluminum	-	U	180	68.3	
Antimony	3	U	12	0.75	J
Arsenic	25	U	8	5.08	
Barium	1,000	150		119.3	
Beryllium	3 (G)	U	4		U 0.5
Cadmium	5	U	4	0.05	J
Calcium	-	130,000		118,000	
Chromium	50	U	50	23.34	
Cobalt	-	U	20	1.28	
Copper	200	U	50	1.31	
Iron	300	980		13,400	
Lead	25	U	4	2.24	
Magnesium	35,000 (G)	8,500		8,240	
Manganese	300	950		853.8	
Mercury	0.7	U	1		U 0.2
Nickel	100	110		135.9	
Potassium	-	15,000		10,400	
Selenium	10	U	40	0.59	J
Silver	50	U	20	0.13	J
Sodium	20,000	380,000 J		175,000	
Thallium	0.5 (G)	U	10		U 0.5
Vanadium	-	U	50	0.54	J
Zinc	2,000 (G)	U	50	6.31	J

All values reported as ug/L (parts per billion)

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Baseline data was collected on 6/12/2013 by others, following completion of remedial activities

U - Analyzed for but Not Detected

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R.L. - Laboratory Reporting Limit

Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 15 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte		GW Std [^] (ug/L)	Sample Identification			
			MW-8			
Date Sampled			June-13		5/14/2014	
Total Metals by EPA Methods 6020A and 7470A			R.L.		R.L.	
Aluminum	-	220		230		
Antimony	3	U	12	0.5	J	
Arsenic	25	U	8	0.39	J	
Barium	1,000	270		376.1		
Beryllium	3 (G)	U	4		U	0.5
Cadmium	5	U	4	0.65		
Calcium	-	150,000		221,000		
Chromium	50	U	50	1.29		
Cobalt	-	U	20	0.21		
Copper	200	U	50	1.36	J	
Iron	300		13,000		25,800	
Lead	25		7.8		2.72	
Magnesium	35,000 (G)		7,700		10,000	
Manganese	300		780		1,180	
Mercury	0.7	U	1		U	0.2
Nickel	100	U	50	0.93		
Potassium	-	18,000		15,900		
Selenium	10	U	40		U	5
Silver	50	U	20		U	0.4
Sodium	20,000		420,000	J	504,000	
Thallium	0.5 (G)	U	10		U	0.5
Vanadium	-	U	50	2.15	J	
Zinc	2,000 (G)	U	50	6.77	J	
Dissolved Metals by EPA Methods 6020A and 7470A						
Aluminum	-	U	180	3.95	J	
Antimony	3	U	12	0.19	J	
Arsenic	25	U	8	0.89		
Barium	1,000	200		366.9		
Beryllium	3 (G)	U	4		U	0.5
Cadmium	5	U	4		U	0.2
Calcium	-	160,000		217,000		
Chromium	50	U	50	1.56		
Cobalt	-	U	20	0.33	J	
Copper	200	U	50	0.68	J	
Iron	300		1,200		19,400	
Lead	25	U	4		U	1
Magnesium	35,000 (G)		8,200		11,600	
Manganese	300		810		971.8	
Mercury	0.7	U	1		U	0.2
Nickel	100	U	50	3.29		
Potassium	-	19,000		17,800		
Selenium	10	U	40	1.08	J	
Silver	50	U	20		U	0.4
Sodium	20,000		450,000	J	500,000	
Thallium	0.5 (G)	U	10		U	0.5
Vanadium	-	U	50	0.48	J	
Zinc	2,000 (G)	U	50	3.82	J	

All values reported as ug/L (parts per billion)

[^] - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

Baseline data was collected on 6/12/2013 by others, following completion of remedial activities

U - Analyzed for but Not Detected

J - Indicates an estimated value

(-) - No standard established or no sample analyzed for specific analyte

R.L. - Laboratory Reporting Limit

Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 16 of 24) Summary of Groundwater Sample Laboratory Analytical Results, 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std^ (ug/L)	Sample Identification			
		DUPLICATE			
Date Sampled		June-13 (MW-2R)	5/14/2014 (MW-5)		
Total Metals by EPA Methods 6020A and 7470A					
Aluminum	-	1,700	J 84.75%	4,070	52.40%
Antimony	3	U	NA	4.21	33.24%
Arsenic	25	U	NA	19.91	50.28%
Barium	1,000	160	22.22%	167.5	27.97%
Beryllium	3 (G)	U	NA	0.21	J 54.55%
Cadmium	5	U	NA	2.45	44.39%
Calcium	-	280,000	13.33%	240,000	1.24%
Chromium	50	U	NA	14.57	54.16%
Cobalt	-	U	NA	6.66	53.71%
Copper	200	U	NA	88.29	55.56%
Iron	300	9,000	J 36.36%	30,600	60.43%
Lead	25	49	J 84.02%	375.6	42.17%
Magnesium	35,000 (G)	120,000	15.38%	137,000	7.04%
Manganese	300	790	13.02%	1,016	0.39%
Mercury	0.7	U	NA	12.5	69.98%
Nickel	100	U	NA	45.52	51.32%
Potassium	-	48,000	13.59%	70,000	7.30%
Selenium	10	U	NA	1.18	J 42.05%
Silver	50	U	NA	0.33	J 64.00%
Sodium	20,000	660,000	J 15.38%	1,130,000	0.88%
Thallium	0.5 (G)	U	NA	0.11	J 58.82%
Vanadium	-	U	NA	22.13	59.13%
Zinc	2,000 (G)	76	44.90%	1,320	56.73%
Dissolved Metals by EPA Methods 6020A and 7470A					
Aluminum	-	U	NA	-	
Antimony	3	U	NA	-	
Arsenic	25	U	NA	-	
Barium	1,000	160	0.00%	-	
Beryllium	3 (G)	U	NA	-	
Cadmium	5	U	NA	-	
Calcium	-	310,000	3.17%	-	
Chromium	50	U	NA	-	
Cobalt	-	U	NA	-	
Copper	200	U	NA	-	
Iron	300	750	14.81%	-	
Lead	25	U	NA	-	
Magnesium	35,000 (G)	140,000	0.00%	-	
Manganese	300	860	3.55%	-	
Mercury	0.7	U	NA	-	
Nickel	100	U	NA	-	
Potassium	-	54,000	1.83%	-	
Selenium	10	U	NA	-	
Silver	50	U	NA	-	
Sodium	20,000	750,000	J 1.32%	-	
Thallium	0.5 (G)	U	NA	-	
Vanadium	-	U	NA	-	
Zinc	2,000 (G)	U	NA	-	

All values reported as ug/L (parts per billion)

^ - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

Baseline data was collected on 6/12/2013 by others, following completion of remedial activities

U - Analyzed for but Not Detected

J - Indicates an estimated value

(-) - No standard established or no sample analyzed for specific analyte

NA - Not Applicable

R.L. - Laboratory Reporting Limit

RPD - Relative Percent Difference between the duplicate and parent sample concentrations. When one sample is non-detect, the laboratory detection limit is used as the concentration for the calculation.

$$RPD = \frac{2(\text{Sample Value} - \text{Duplicate Sample Value})}{(\text{Sample Value} + \text{Duplicate Sample Value})}$$

Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 17 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std [^] (ug/L)	Sample Identification			
		MW-1			
Date Sampled		June-13	5/14/2014		
PCBs by EPA Method 8082A					
		R.L.		R.L.	
Aroclor 1016		U 0.05	U	0.083	
Aroclor 1221		U 0.05	U	0.083	
Aroclor 1232		U 0.05	U	0.083	
Aroclor 1242		U 0.05	U	0.083	
Aroclor 1248		U 0.05	0.768		
Aroclor 1254		U 0.05	0.416		
Aroclor 1260		U 0.05	U	0.083	
Aroclor 1262		-	U	0.083	
Aroclor 1268		-	U	0.083	
Total PCBs	0.09	ND	1.184		
Alkalinity by EPA Method 2320B					
Alkalinity, Total	-	347,000	400,000		
Chloride by EPA Method 9251					
Chloride	250,000	-	600,000		
COD by EPA Method 5220D					
Chemical Oxygen Demand	-	690,000	1,300,000		
BOD by EPA Method 5210B					
BOD, 5 day	-	10,600	U	50,000	
TOC by EPA Method 5310C					
Total Organic Carbon	-	5,400	10,600		
TOX by EPA Method 9020B					
Halogen, Total Organic	-	-	U	20	

All values reported as ug/L (parts per billion)

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Baseline groundwater data was collected 11/20/2009 (PCBs) and 7/11/2011 (Other Analytes) by others

U - Analyzed for but Not Detected

J - Indicates an estimated value

(-) - No standard established or no sample analyzed for specific analyte

ND - Analyzed for but Not Detected above laboratory detection limits

R.L. - Laboratory Reporting Limit

Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 18 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std [^] (ug/L)	Sample Identification			
		MW-2R			
Date Sampled		June-13		5/14/2014	
PCBs by EPA Method 8082A			R.L.		R.L.
Aroclor 1016		U	0.05	U	0.083
Aroclor 1221		U	0.05	U	0.083
Aroclor 1232		U	0.05	U	0.083
Aroclor 1242		U	0.05	U	0.083
Aroclor 1248		U	0.05	U	0.083
Aroclor 1254		U	0.05	U	0.083
Aroclor 1260		U	0.05	U	0.083
Aroclor 1262		-		U	0.083
Aroclor 1268		-		U	0.083
Total PCBs	0.09	ND		ND	
Alkalinity by EPA Method 2320B					
Alkalinity, Total	-	308,000		312,000	
Chloride by EPA Method 9251					
Chloride	250,000	-		270,000	
COD by EPA Method 5220D					
Chemical Oxygen Demand	-	32,900		74,000	
BOD by EPA Method 5210B					
BOD, 5 day	-	U	6,000	U	10,000
TOC by EPA Method 5310C					
Total Organic Carbon	-	2,800		11,200	
TOX by EPA Method 9020B					
Halogen, Total Organic	-	-		26.9	

All values reported as ug/L (parts per billion)

[^] - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

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J - Indicates an estimated value

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ND - Analyzed for but Not Detected above laboratory detection limits

R.L. - Laboratory Reporting Limit

Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 19 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std [^] (ug/L)	Sample Identification			
		MW-4			
Date Sampled		June-13	5/14/2014		
PCBs by EPA Method 8082A					
			R.L.		R.L.
Aroclor 1016		U	0.05	U	0.083
Aroclor 1221		U	0.05	U	0.083
Aroclor 1232		U	0.05	U	0.083
Aroclor 1242		U	0.05	U	0.083
Aroclor 1248		U	0.05	0.110	
Aroclor 1254		U	0.05	U	0.083
Aroclor 1260		U	0.05	U	0.083
Aroclor 1262		-		U	0.083
Aroclor 1268		-		U	0.083
Total PCBs	0.09	ND	0.110		
Alkalinity by EPA Method 2320B					
Alkalinity, Total	-	446,000	186,000		
Chloride by EPA Method 9251					
Chloride	250,000	-	460,000		
COD by EPA Method 5220D					
Chemical Oxygen Demand	-	1,170,000	150,000		
BOD by EPA Method 5210B					
BOD, 5 day	-	11,700		U	5,000
TOC by EPA Method 5310C					
Total Organic Carbon	-	26,900	52,100		
TOX by EPA Method 9020B					
Halogen, Total Organic	-	-	47.4		

All values reported as ug/L (parts per billion)

[^] - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

Baseline groundwater data was collected 11/20/2009 (PCBs) and 7/11/2011 (Other Analytes) by others

U - Analyzed for but Not Detected

J - Indicates an estimated value

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ND - Analyzed for but Not Detected above laboratory detection limits

R.L. - Laboratory Reporting Limit

Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 20 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std [^] (ug/L)	Sample Identification			
		MW-5			
Date Sampled		June-13	5/14/2014		
PCBs by EPA Method 8082A					
			R.L.		R.L.
Aroclor 1016		U	0.05	U	0.083
Aroclor 1221		U	0.05	U	0.083
Aroclor 1232		U	0.05	U	0.083
Aroclor 1242		U	0.05	U	0.083
Aroclor 1248		U	0.05	0.195	
Aroclor 1254		U	0.05	0.170	
Aroclor 1260		U	0.05	0.084	
Aroclor 1262		-		U	0.083
Aroclor 1268		-		U	0.083
Total PCBs	0.09	ND	0.449		
Alkalinity by EPA Method 2320B					
Alkalinity, Total	-	637,000	387,000		
Chloride by EPA Method 9251					
Chloride	250,000	-	1,400,000		
COD by EPA Method 5220D					
Chemical Oxygen Demand	-	324,000	220,000		
BOD by EPA Method 5210B					
BOD, 5 day	-	21,000	13,000		
TOC by EPA Method 5310C					
Total Organic Carbon	-	18,800	23,200		
TOX by EPA Method 9020B					
Halogen, Total Organic	-	-	66.5		

All values reported as ug/L (parts per billion)

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Baseline groundwater data was collected 11/20/2009 (PCBs) and 7/11/2011 (Other Analytes) by others

U - Analyzed for but Not Detected

J - Indicates an estimated value

(-) - No standard established or no sample analyzed for specific analyte

ND - Analyzed for but Not Detected above laboratory detection limits

R.L. - Laboratory Reporting Limit

Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 21 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std [^] (ug/L)	Sample Identification			
		MW-6			
Date Sampled		June-13	5/14/2014		
PCBs by EPA Method 8082A					
			R.L.		R.L.
Aroclor 1016		U	0.05	U	0.083
Aroclor 1221		U	0.05	U	0.083
Aroclor 1232		U	0.05	U	0.083
Aroclor 1242		U	0.05	0.279	
Aroclor 1248		U	0.05	U	0.083
Aroclor 1254		U	0.05	0.187	
Aroclor 1260		U	0.05	U	0.083
Aroclor 1262		-		U	0.083
Aroclor 1268		-		U	0.083
Total PCBs	0.09	ND	0.466		
Alkalinity by EPA Method 2320B					
Alkalinity, Total	-	530,000	560,000		
Chloride by EPA Method 9251					
Chloride	250,000	-	620,000		
COD by EPA Method 5220D					
Chemical Oxygen Demand	-	994,000	320,000		
BOD by EPA Method 5210B					
BOD, 5 day	-	12,300	26,000		
TOC by EPA Method 5310C					
Total Organic Carbon	-	24,000	35,100		
TOX by EPA Method 9020B					
Halogen, Total Organic	-	-	47.4		

All values reported as ug/L (parts per billion)

[^] - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

Baseline groundwater data was collected 11/20/2009 (PCBs) and 7/11/2011 (Other Analytes) by others

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J - Indicates an estimated value

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ND - Analyzed for but Not Detected above laboratory detection limits

R.L. - Laboratory Reporting Limit

Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 22 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std [^] (ug/L)	Sample Identification			
		MW-7			
Date Sampled		June-13		5/14/2014	
PCBs by EPA Method 8082A			R.L.		R.L.
Aroclor 1016		U	0.05	U	0.083
Aroclor 1221		U	0.05	U	0.083
Aroclor 1232		U	0.05	U	0.083
Aroclor 1242		U	0.05	U	0.083
Aroclor 1248		U	0.05	U	0.083
Aroclor 1254		U	0.05	U	0.083
Aroclor 1260		U	0.05	U	0.083
Aroclor 1262		-		U	0.083
Aroclor 1268		-		U	0.083
Total PCBs	0.09	ND		ND	
Alkalinity by EPA Method 2320B					
Alkalinity, Total	-	291,000		330,000	
Chloride by EPA Method 9251					
Chloride	250,000	-		250,000	
COD by EPA Method 5220D					
Chemical Oxygen Demand	-	199,000		35,000	
BOD by EPA Method 5210B					
BOD, 5 day	-	10,300		14,000	
TOC by EPA Method 5310C					
Total Organic Carbon	-	5,200		6,440	
TOX by EPA Method 9020B					
Halogen, Total Organic	-	-		50.4	

All values reported as ug/L (parts per billion)

[^] - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

Baseline groundwater data was collected 11/20/2009 (PCBs) and 7/11/2011 (Other Analytes) by others

U - Analyzed for but Not Detected

J - Indicates an estimated value

(-) - No standard established or no sample analyzed for specific analyte

ND - Analyzed for but Not Detected above laboratory detection limits

R.L. - Laboratory Reporting Limit

Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 23 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std [^] (ug/L)	Sample Identification			
		MW-8			
Date Sampled		June-13	5/14/2014		
PCBs by EPA Method 8082A					
			R.L.		R.L.
Aroclor 1016		U	0.05	U	0.083
Aroclor 1221		U	0.05	U	0.083
Aroclor 1232		U	0.05	U	0.083
Aroclor 1242		U	0.05	U	0.083
Aroclor 1248		U	0.05	U	0.083
Aroclor 1254		U	0.05	U	0.083
Aroclor 1260		U	0.05	U	0.083
Aroclor 1262		-		U	0.083
Aroclor 1268		-		U	0.083
Total PCBs	0.09	ND	ND		
Alkalinity by EPA Method 2320B					
Alkalinity, Total	-	613,000	575,000		
Chloride by EPA Method 9251					
Chloride	250,000	-	740,000		
COD by EPA Method 5220D					
Chemical Oxygen Demand	-	359,000	49,000		
BOD by EPA Method 5210B					
BOD, 5 day	-	U	6,000	3,400	
TOC by EPA Method 5310C					
Total Organic Carbon	-	5,500	7,620		
TOX by EPA Method 9020B					
Halogen, Total Organic	-	-	40.5		

All values reported as ug/L (parts per billion)

[^] - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

Baseline groundwater data was collected 11/20/2009 (PCBs) and 7/11/2011 (Other Analytes) by others

U - Analyzed for but Not Detected

J - Indicates an estimated value

(-) - No standard established or no sample analyzed for specific analyte

ND - Analyzed for but Not Detected above laboratory detection limits

R.L. - Laboratory Reporting Limit

Bold and boxed results indicate an exceedance of Groundwater Standards



Table 3: (Page 24 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

Analyte	GW Std [^] (ug/L)	Sample Identification			
		DUPLICATE			
Date Sampled		June-13 (MW-5)		5/14/2014 (MW-5)	
PCBs by EPA Method 8082A			RPD		RPD
Aroclor 1016		U	NA	U	NA
Aroclor 1221		U	NA	U	NA
Aroclor 1232		U	NA	U	NA
Aroclor 1242		U	NA	U	NA
Aroclor 1248		U	NA	U	117.07%
Aroclor 1254		U	NA	U	133.33%
Aroclor 1260		U	NA	U	89.66%
Aroclor 1262		-		U	NA
Aroclor 1268		-		U	NA
Total PCBs	0.09	ND		ND	
Alkalinity by EPA Method 2320B					
Alkalinity, Total	-	-		391,000	1.03%
Chloride by EPA Method 9251					
Chloride	250,000	-		1,300,000	7.41%
COD by EPA Method 5220D					
Chemical Oxygen Demand	-	-		230,000	4.44%
BOD by EPA Method 5210B					
BOD, 5 day	-	-		23,000	55.56%
TOC by EPA Method 5310C					
Total Organic Carbon	-	-		22,700	2.18%
TOX by EPA Method 9020B					
Halogen, Total Organic	-	-		46.1	36.23%

All values reported as ug/L (parts per billion)

[^] - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

Baseline groundwater data was collected 11/20/2009 (PCBs) and 7/11/2011 (Other Analytes) by others

U - Analyzed for but Not Detected

J - Indicates an estimated value

(-) - No standard established or no sample analyzed for specific analyte

ND - Analyzed for but Not Detected above laboratory detection limits

NA - Not Applicable

RPD - Relative Percent Difference between the duplicate and parent sample concentrations. When one sample is non-detect, the laboratory detection limit is used as the concentration for the calculation.

$RPD = \frac{2(\text{Sample Value} - \text{Duplicate Sample Value})}{(\text{Sample Value} + \text{Duplicate Sample Value})}$

(Sample Value + Duplicate Sample Value)

Bold and boxed results indicate an exceedance of Groundwater Standards

Appendices

Appendix A - Institutional and Engineering Controls Certification Form



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details

Box 1

Site No. C224133

Site Name Frito Lay

Site Address: 202-218 Morgan Avenue Zip Code: 11237
City/Town: Brooklyn
County: Kings
Site Acreage: 2.8

Reporting Period: November 06, 2013 to November 22, 2014

- | | YES | NO |
|---|--------------------------|--------------------------|
| 1. Is the information above correct? | X | <input type="checkbox"/> |
| If NO, include handwritten above or on a separate sheet. | | |
| 2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? | <input type="checkbox"/> | X |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | <input type="checkbox"/> | X |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? | <input type="checkbox"/> | X |
| If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form. | | |
| 5. Is the site currently undergoing development? | <input type="checkbox"/> | X |

Box 2

- | | YES | NO |
|---|-----|--------------------------|
| 6. Is the current site use consistent with the use(s) listed below?
Industrial | X | <input type="checkbox"/> |
| 7. Are all ICs/ECs in place and functioning as designed? | X | <input type="checkbox"/> |

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Box 2A

YES NO

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?

☐ X

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid?
(The Qualitative Exposure Assessment must be certified every five years)

X ☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C224133

Box 3**Description of Institutional Controls**

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
3-02942-0105	Rolling Frito Lay Sales, LP	Soil Management Plan Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan

A series of ICs is required by the NYSDEC Decision Document dated July 2011 to: (1) implement, maintain and monitor engineering control (EC) systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the Frito-Lay site to industrial uses only. Adherence to these institutional controls (ICs) on the Frito-Lay site is required by the Environmental Easement and will be implemented under the Site Management Plan (SMP).

The ICs are:

Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns;

All ECs must be operated and maintained as specified in the SMP;

All ECs must be inspected at a frequency and in a manner defined in the SMP.

Groundwater monitored natural attenuation sampling and analysis, soil vapor intrusion study, and other environmental or public health monitoring must be performed as defined in the SMP;

Data and information pertinent to Site Management of the site must be reported at the frequency and in a manner defined in the SMP;

All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP; and

Operation, monitoring, maintenance, inspection and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP.

ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

The site has a series of ICs in the form of site restrictions. Adherence to these ICs is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

The property may only be used for industrial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed.

The property may not be used for a higher level of use, such as, unrestricted, residential, restricted residential, and commercial use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;

All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;

Vegetable gardens and farming on the property are prohibited; and,

The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such property any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

3-02942-0111

Rolling Frito Lay Sales, LP

Soil Management Plan
Ground Water Use Restriction
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

A series of ICs is required by the NYSDEC Decision Document dated July 2011 to: (1) implement, maintain and monitor engineering control (EC) systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the Frito-Lay site to industrial uses only. Adherence to these institutional controls (ICs) on the Frito-Lay site is required by the Environmental Easement and will be implemented under the Site Management Plan (SMP).

The ICs are:

Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns;

All ECs must be operated and maintained as specified in the SMP;

All ECs must be inspected at a frequency and in a manner defined in the SMP.

Groundwater monitored natural attenuation sampling and analysis, soil vapor intrusion study, and other environmental or public health monitoring must be performed as defined in the SMP;

Data and information pertinent to Site Management of the site must be reported at the frequency and in a manner defined in the SMP;

All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP; and

Operation, monitoring, maintenance, inspection and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP.

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The site has a series of ICs in the form of site restrictions. Adherence to these ICs is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

The property may only be used for industrial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed.

The property may not be used for a higher level of use, such as, unrestricted, residential, restricted residential, and commercial use without additional remediation and amendment of the Environmental

Easement, as approved by the NYSDEC;

All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;

The potential for vapor intrusion must be evaluated for any buildings developed on the area noted on Figure 2-3 of the SMP and any potential impacts that are identified must be monitored or mitigated;

Vegetable gardens and farming on the property are prohibited; and,

The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such property any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

3-02942-0112

Rolling Frito Lay Sales, LP

Ground Water Use Restriction
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan
Soil Management Plan

A series of ICs is required by the NYSDEC Decision Document dated July 2011 to: (1) implement, maintain and monitor engineering control (EC) systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the Frito-Lay site to industrial uses only. Adherence to these institutional controls (ICs) on the Frito-Lay site is required by the Environmental Easement and will be implemented under the Site Management Plan (SMP).

The ICs are:

Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns;

All ECs must be operated and maintained as specified in the SMP;

All ECs must be inspected at a frequency and in a manner defined in the SMP.

Groundwater monitored natural attenuation sampling and analysis, soil vapor intrusion study, and other environmental or public health monitoring must be performed as defined in the SMP;

Data and information pertinent to Site Management of the site must be reported at the frequency and in a manner defined in the SMP;

All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP; and

Operation, monitoring, maintenance, inspection and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP.

ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

The site has a series of ICs in the form of site restrictions. Adherence to these ICs is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

The property may only be used for industrial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed.

The property may not be used for a higher level of use, such as, unrestricted, residential, restricted residential, and commercial use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;

All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;

The potential for vapor intrusion must be evaluated for any buildings developed on the area noted on Figure 2-3 of the SMP and any potential impacts that are identified must be monitored or mitigated;

Vegetable gardens and farming on the property are prohibited; and,

The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such property any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

Description of Engineering Controls

Box 4

<u>Parcel</u>	<u>Engineering Control</u>
3-02942-0105	Vapor Mitigation
	Cover System
	Subsurface Barriers
	Fencing/Access Control

Asphalt (Engineered) and Soil Cover Systems:

Exposure to remaining contamination in soil at the Frito-Lay site is prevented by an asphalt and soil cover system placed over the site. This cover system is comprised of a minimum of 6 inches of asphalt pavement, with the exception along the bulkhead area where a soil cover system consists of a minimum of 1-foot of clean soil/fill able to support a vegetative cover.

Chain Linked Fence:

The site is enclosed by a "newly" constructed 10-foot high chain linked fence installed on the eastern, western, and southern sides which prevents unauthorized access. Access to the northern section of the site is available through the Frito-Lay facility.

Composite Cover System:

The composite cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in perpetuity.

Sub-Slab Depressurization System (SSDS):

The active SSD system, when it is constructed and operational, will not be discontinued unless prior written approval is granted by the NYSDEC. In the event that monitoring data indicates that the SSD system is no longer required, a proposal to discontinue the SSD system will be submitted by the property owner to the NYSDEC and NYSDOH.

Monitored Natural Attenuation:

Groundwater monitoring activities to assess natural attenuation will continue, as determined by the NYSDEC, until residual groundwater concentrations are found to be consistently below NYSDEC standards or have become asymptotic at an acceptable level over an extended period. Monitoring will continue until

ParcelEngineering Control

permission to discontinue is granted in writing by the NYSDEC. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

3-02942-0111

Vapor Mitigation
Cover System
Subsurface Barriers
Fencing/Access Control

Asphalt (Engineered) and Soil Cover Systems:

Exposure to remaining contamination in soil at the Frito-Lay site is prevented by an asphalt and soil cover system placed over the site. This cover system is comprised of a minimum of 6 inches of asphalt pavement, with the exception along the bulkhead area where a soil cover system consists of a minimum of 1-foot of clean soil/fill able to support a vegetative cover.

Chain Linked Fence:

The site is enclosed by a "newly" constructed 10-foot high chain linked fence installed on the eastern, western, and southern sides which prevents unauthorized access. Access to the northern section of the site is available through the Frito-Lay facility.

Composite Cover System:

The composite cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in perpetuity.

Sub-Slab Depressurization System (SSDS):

The active SSD system, when it is constructed and operational, will not be discontinued unless prior written approval is granted by the NYSDEC. In the event that monitoring data indicates that the SSD system is no longer required, a proposal to discontinue the SSD system will be submitted by the property owner to the NYSDEC and NYSDOH.

Monitored Natural Attenuation:

Groundwater monitoring activities to assess natural attenuation will continue, as determined by the NYSDEC, until residual groundwater concentrations are found to be consistently below NYSDEC standards or have become asymptotic at an acceptable level over an extended period. Monitoring will continue until permission to discontinue is granted in writing by the NYSDEC. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

3-02942-0112

Vapor Mitigation
Cover System
Subsurface Barriers
Fencing/Access Control

Asphalt (Engineered) and Soil Cover Systems:

Exposure to remaining contamination in soil at the Frito-Lay site is prevented by an asphalt and soil cover system placed over the site. This cover system is comprised of a minimum of 6 inches of asphalt pavement, with the exception along the bulkhead area where a soil cover system consists of a minimum of 1-foot of clean soil/fill able to support a vegetative cover.

Chain Linked Fence:

The site is enclosed by a "newly" constructed 10-foot high chain linked fence installed on the eastern, western, and southern sides which prevents unauthorized access. Access to the northern section of the site is available through the Frito-Lay facility.

Composite Cover System:

The composite cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in perpetuity.

Sub-Slab Depressurization System (SSDS):

The active SSD system, when it is constructed and operational, will not be discontinued unless prior written approval is granted by the NYSDEC. In the event that monitoring data indicates that the SSD system is no longer required, a proposal to discontinue the SSD system will be submitted by the property owner to the NYSDEC and NYSDOH.

Monitored Natural Attenuation:

Groundwater monitoring activities to assess natural attenuation will continue, as determined by the NYSDEC, until residual groundwater concentrations are found to be consistently below NYSDEC standards

Parcel

Engineering Control

or have become asymptotic at an acceptable level over an extended period. Monitoring will continue until permission to discontinue is granted in writing by the NYSDEC. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted

YES NO

X ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

X ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C224133

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Cedric Robinson at 7701 Legacy Drive, Plano, TX 75024
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Cedric Robinson
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

19 Dec 2014
Date

IC/EC CERTIFICATIONS

Box 7

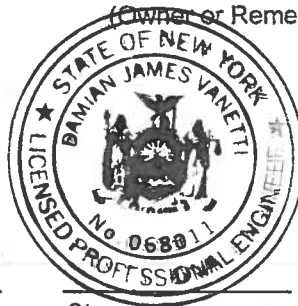
Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Damian Vanetti at GHD Consulting Services, Inc
print name Dr Remington Park Dr.
representative Cazenovia, NY 13035
print business address

am certifying as a OWNER

(Owner or Remedial Party)



[Signature]
Signature of, for the Owner or Remedial Party,
Rendering Certification

Stamp
(Required for PE)

12-22-14
Date

Appendix B - Annual Inspection Form

SITE-WIDE INSPECTION FORM

FRITO-LAY 202-218 MORGAN AVENUE
KINGS COUNTY
BROOKLYN, NEW YORK
NYSDEC SITE NUMBER C224133

NAME OF INSPECTOR: Damian Vanetti

COMPANY OF INSPECTOR: GHD

DATE OF INSPECTION: 4-9-14

CURRENT USE OF THE SITE: Frito Lay Vehicle Parking Lot

HAS A CHANGE OF LAND-USE OCCURRED SINCE THE LAST INSPECTION?
YES ☒ NO

IF YES, EXPLAIN HOW THE SITE HAS CHANGED: _____

IS THERE EVIDENCE OF LAND-USE OTHER THAN FOR INDUSTRIAL SINCE THE
LAST INSPECTION?
YES ☒ NO

IF YES, EXPLAIN THE NON-INDUSTRIAL LAND USE: _____

HAVE ANY STRUCTURES BEEN CONSTRUCTED ON THE SITE SINCE THE LAST
INSPECTION? YES ☒ NO

IF YES, EXPLAIN HOW THE SITE HAS CHANGED: _____

GENERAL DESCRIPTION OF THE COVER: Majority of site is asphalt paved parking surrounded by fence on three sides. Small area in the southwest corner is soil covered. Outside of fence to south is riprap/bulkhead. Outside fence to east is soil cover/bulkhead. At time of inspection vegetation had not regrown after winter in soil covered areas.
HAS THE COVER BEEN COMPROMISED? YES ☒ NO

IF YES, EXPLAIN HOW THE COVER HAS CHANGED: _____

SITE-WIDE INSPECTION FORM

FRITO-LAY 202-218 MORGAN AVENUE
KINGS COUNTY
BROOKLYN, NEW YORK
NYSDEC SITE NUMBER C224133

HAVE COVER CONDITIONS CHANGED SINCE THE LAST INSPECTION?

____ YES ☒ NO

IF YES, EXPLAIN HOW THE SITE COVER CONDITIONS CHANGED: _____

IS ANY MAINTENANCE OF THE COVER REQUIRED?

____ YES ☒ NO

IF YES, EXPLAIN WHAT MAINTENANCE IS REQUIRED: Future site
inspections should confirm vegetation is
re-established in soil cover areas.

ARE SIGNIFICANT EROSION RILLS OR CRACKING PRESENT?

____ YES ☒ NO

IF YES, EXPLAIN WHERE EROSION RILLS OR CRACKING ARE PRESENT: _____

IS PONDING PRESENT?

____ YES ☒ NO

IF YES, EXPLAIN WHERE PONDING IS PRESENT AND THE ASSOCIATED DEPTH: _____

IS ANY SOIL WASTE MATERIAL EXPOSED?

____ YES ☒ NO

IF YES, EXPLAIN WHERE SOIL WASTE MATERIAL ARE EXPOSED: _____

SITE-WIDE INSPECTION FORM

FRITO-LAY 202-218 MORGAN AVENUE
KINGS COUNTY
BROOKLYN, NEW YORK
NYSDEC SITE NUMBER C224133

IS THERE A VISABLE CHANGE IN THE DESIGNATED DRAINAGE PATTERN?

____ YES ~~____~~ NO

IF YES, EXPLAIN WHERE THE VISABLE CHANGE IN THE DESIGNATED DRAINAGE PATTERN ARE LOCATED: _____

IS SETTLEMENT OR SUBSIDNCE VISIBLE?

____ YES ~~____~~ NO

IF YES, EXPLAIN WHERE SETTLEMENT OR SUBSIDNCE VISIBLE IS LOCATED:

ARE SIGNIFICANT EROSION RILLS OR CRACKING PRESENT?

____ YES ~~____~~ NO

IF YES, EXPLAIN WHERE EROSION RILLS OR CRACKING ARE PRESENT: _____

ARE ALL GROUNDWATER MONITORING WELLS MAINTAINED PROPERLY
AND IN GOOD PHYSICAL CONDITION?

~~____~~ YES ____ NO

IF NO, EXPLAIN HOW THE GROUNDWATER MONITORING WELLS HAVE BEEN
COMPROMISED:

SITE-WIDE INSPECTION FORM

FRITO-LAY 202-218 MORGAN AVENUE
KINGS COUNTY
BROOKLYN, NEW YORK
NYSDEC SITE NUMBER C224133

IS THERE ANY EVIDENCE THAT GROUNDWATER IS BEING USED FOR ANY PURPOSE?

____ YES X NO

IF YES, EXPLAIN HOW GROUNDWATER IS BEING USED:

ADDITIONAL OBSERVATIONS, CONCLUSIONS, OR RECOMMENDATIONS:

fencing around perimeter is intact.

ANY CHANGES TO THE SITE OR REQUIRED MAINTENANCE SHOULD BE MARKED IN THE CORRESPONDING LOCATIONS ON AN ATTACHED MAP

Appendix C - Approval Notifications for EQulS Database Submittals

Ian McNamara

From: dec.sm.NYENVDATA <NYENVDATA@dec.ny.gov>
Sent: Monday, August 25, 2014 3:07 PM
To: Ian McNamara
Cc: Post, Charles H (DEC)
Subject: RE: EDDs for Frito-Lay - Brooklyn BCP Site (BCP Site #C224133) Groundwater Monitoring

Ian,

The EDDs "20140724 1136.C224133.NYSDEC.zip" "20140724 1140.C224133.NYSDEC.zip" and "20140724 1145.C224133.NYSDEC.zip" were successfully loaded to the FritoLay facility in the NYSDEC database. The data is available for use within the NYSDEC system.

Thank you,
Aaron
NYSDEC EIMS Team

From: Ian McNamara [<mailto:ian.mcnamara@ghd.com>]
Sent: Thursday, July 24, 2014 1:49 PM
To: dec.sm.NYENVDATA
Cc: Post, Charles H (DEC)
Subject: EDDs for Frito-Lay - Brooklyn BCP Site (BCP Site #C224133) Groundwater Monitoring

Hi,

Attached are 3 EDDs for the above referenced project, an initial EDD, and field results EDD, and a monitoring results EDD.

The initial EDD has different elevation information for the monitoring wells based on changes made at the site. This EDD should be used instead of the old one.

Please let me know if you have any questions.

Thanks,
Ian

Ian McNamara, GIT
Scientist III

GHD
T: 1 315 679 5732 | M: 1 315 368 8432 | V: 865732 | E: ian.mcnamara@ghd.com
One Remington Park Drive Cazenovia New York 13035 USA | www.ghd.com
[WATER](#) | [ENERGY & RESOURCES](#) | [ENVIRONMENT](#) | [PROPERTY & BUILDINGS](#) | [TRANSPORTATION](#)

Please consider the environment before printing this email

GHD and CRA have merged! To learn more, visit www.ghd.com/cra

GHD Inc
One Remington Park Drive
Cazenovia NY 13035
T: 1 315 679 5800 F: 1 315 679 5801 E: cazmail@ghd.com

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G:\86\16480\202-218 Morgan Ave Brooklyn BCP Site\Periodic Review Reports\11.6.2013 to 11.22.2014 PRR\FINAL PRR - Nov 2013 - Nov 2014.docx

Document Status

Rev No.	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date

www.ghd.com

